IR-4 Laboratory Guidance Document



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IR-4 Laboratory Guidance Document

Introduction

This Guidance Document is designed to provide consistency and to facilitate communication between the IR-4 Laboratory Research Directors (LRDs), Regional Directors (RDs, management), Quality Assurance Units (QA), and the IR-4 Study Directors (SDs). This document will serve as a resource for all facets of IR-4, through designating responsibilities and providing guidelines for implementation of procedures, to ensure that all studies conducted by IR-4 meet EPA Good Laboratory Practice (GLP) regulations. Once this document is approved by the IR-4 Project Management Committee, it becomes an official policy document for the conduct of studies across all IR-4 laboratories.

The main areas of attention in this document include personnel responsibilities in relation to IR-4 residue work; definitions and a significant section regarding lab operations with emphasis on sample handling and storage; sample processing; analytical method validation; sample analysis and extract storage; storage stability studies; communication with the study director; and the Analytical Summary Report. This document will also provide guidance for contract labs and will be used as a training tool with regard to IR-4 analytical work.

Please Note: Paragraphs formatted with *italics* are taken directly from the "Operational Handbook of IR-4" Version 8.0

Original Committee members:

Daniel Kunkel, IR-4 Headquarters, Associate Director (Chair) Debbie Carpenter, IR-4 Headquarters Matt Hengel, Western Regional Laboratory Coordinator, University of California, Davis Wayne Jiang, North Central Regional Laboratory Coordinator, Michigan State University Christopher Lam, North Eastern Regional Laboratory Coordinator, Cornell Jim McFarland, Western Region QA Coordinator, University of California Davis Marion Miller, Western Region Director, University of California, Davis Jau Yoh, Southern Regional Laboratory Coordinator, University of Florida

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Responsibilities

IR-4 Headquarters (HQ): Staff coordinate the program among the regions and USDA-ARS, and provide functions including:

- 1) *GLP oversight including Study Director and Quality Assurance.*
- 2) Prepare research protocols.
- *3) Review, analyze, and archive raw data.*
- 4) Prepare, review, and submit petitions to establish and maintain tolerances.
- 5) Interact with EPA and cooperating registrants.
- 6) Maintain a database to track projects.
- 7) Oversee Manufacturer and Contract Laboratories

The HQ office is administered by an Executive Director (Management Representative).

Regional Research Programs: Each Regional Program is administered by a Regional Director who has overall responsibility for GLP compliance at the regional level. The Regional Director has Regional Laboratory, Field and QA Coordinators who work with state scientists within their region and provide them with research support.

- 1) Regional Laboratory Coordinator (RLC): Oversees and coordinates regional and some contract laboratories, conduct analyses to determine test substance residues on crop samples.
- 2) Regional QA Coordinator: Monitors the field and laboratory operations in each region to assure that they are meeting GLP requirements.

ARS Programs Research Personnel: The ARS Program is administered by an ARS National IR-4 Director who has overall responsibility for GLP compliance at the ARS Facilities. The ARS National IR-4 Director supports USDA-ARS residue laboratories and scientists (Laboratory Research Directors) that conduct analyses and determine test substance residues on crop samples. QA for these facilities is provided by other IR-4 QA and contract QA.

Definitions

GLP Definitions

Archives: All raw data developed by the IR-4 program will be archived as required under 40 CFR 160.190. Archivists will be designated by the Executive Director for IR-4 HQ and an index of archived laboratory data from the RLCs will be sent periodically to the HQ Archivist.

Protocol: The regulations require an approved written protocol for each study. The SD is responsible for the development of the protocol, which is prepared in accordance with the information as outlined under 40 CFR 160.120. Protocols will contain both the field and laboratory phases of each study and detail the proposed sites for the research. The regulations require that the protocol be approved by the SD and sponsor by signing and dating. The Project Management Committee (PMC, sponsor) delegates approval of the protocols to the Executive Director or his/her designee.

Quality Assurance Unit: The QA unit will conduct facility inspections at all IR-4 test locations and conduct critical phase inspections of each study at intervals adequate to ensure study integrity. All QA audits from facility and critical phase inspections will be provided to the appropriate SD and Management (IR-4 Executive Director or designee) for review, appropriate response and corrective action, and signature. Those reports that require action may be forwarded to the Regional Directors as necessary. The HQ QA Manager will maintain a copy of the Master Schedule for all IR-4 studies.

Sponsor: The sponsor is the person who initiates and provides financial or other support for a study. The IR-4 Project Management Committee acts as sponsor for IR-4 studies and has designated the Executive Director as sponsor for the purposes of GLP. The Executive Director may delegate individuals to act as Sponsor Representative to sign the protocol, etc.

Study: An experiment conducted at the IR-4 Research Facilities (or contract facilities) to determine the magnitude of the residue (test substance) in or on a given commodity to provide the sponsor with residue chemistry data to support a pesticide tolerance.

Study Director: The SD represents the single point of study control, and is responsible for the overall conduct of the study. The accountability provided by a single SD (who plans, oversees, and controls the interpretation, analysis, documentation, and reporting of the results) is one of the most important aspects of the GLP standards. For IR-4 studies, the SD oversees the research of FRDs and LRDs who are responsible for carrying out the field and analytical duties. The RLCs, RFCs, and ARS National IR-4 Director assist the SDs in meeting their responsibilities.

Testing Facility: IR-4 HQ serves as the testing facility for the purposes of GLP. The Executive Director will represent testing facility management, and the SDs and QAU will report to the Executive Director.

IR-4 Definitions

Laboratory Research Director (LRD): A person with sufficient training and experience to be able to conduct the laboratory analysis and appoint adequate personnel to assure this function will be carried out for all studies. The LRD will report all deviations from the protocol or the SOPs to the SD.

Quality Assurance Coordinator (QAC) and Officers (QAO): These persons, designated by the Regional Director or Executive Director, report the findings of their audits to the SD, to the Executive Director (Testing Facility Management) and to other research associated personnel. The QAC/QAO will monitor studies, including facilities, equipment, personnel, methods, practices, records and controls, for compliance with GLP. The QAU reviews the final report to assure that it accurately reflects the raw data of the study and prepares and signs a Quality Assurance Statement noting dates the inspections and findings were reported to the SD and SD Management.

Regional Laboratory Coordinator (RLC): This person assigns laboratory-testing sites within his/her region for residue analyses conducted by the regional laboratory and private contract laboratories.

References

Good science is critical to successfully completing the analytical portion of any study. However, it is just as important for SDs and LRDs to be aware of the impact of the following references.

These references provide a framework for all IR-4 study related work:

Operational Handbook of IR-4 (current version).

Good Laboratory Practice Standards, 40 CRF Part 160, August 17, 1989.
Food and Feed Crops of the United States, Markle et al. 1998.
OPPTS 860 Residue Chemistry Test Guidelines including:
OPPTS 860.1000, Background
OPPTS 860.1340, Residue Analytical Method
OPPTS 860.1380, Storage Stability Data
OPPTS 860.1500, Crop Field Trials
OPPTS 860.1520, Processed Food/Feed

Laboratory Operations

Standard Operating Procedures

The development of a comprehensive set of SOPs that address the development, monitoring, and reporting of data from specific study phases conducted at the research test site is the responsibility of each LRD at that site.

RLCs and the ARS National IR-4 Director and/or ARS Facility Research Leader (or designee) provide guidance for and approval of SOPs. This guidance document will take precedence over SOPs and they may therefore require modification after this document is put in place or updated.

Standards and Solutions

Obtaining Standards: Current IR-4 policy requires that all reference standards are characterized under GLP before the completion of the study (signed by the study director), but preferably before the start of analysis. Due in part to the large number of registrants IR-4 works with, obtaining GLP standards can be difficult. It is therefore recommended that the LRD initiate discussions with the cooperating registrant as soon as possible after initiation of the study. If standards cannot be acquired in a sufficient time frame, then the LRD is directed to contact the SD or Registrations Manager at IR-4 HQ to seek assistance in obtaining standards. The purity value stated on the Certificate of Analysis should be used for all calculations of the standard concentration. In cases where a non-GLP standard is required to complete the analytical phase of the project, IR-4 management, in concert with the SD, will be contacted for approval.

Characterization of Substances: Analytical Reference Standards: Documentation of the characterization of the standards used in the analytical trial should be obtained by the Laboratory Research Director and a copy sent to the SD along with the Analytical Summary Report of the trial.

Reagents and Solutions: The GLP standards require all reagents and solutions in the laboratory area to be labeled to indicate identity, titer or concentration, storage requirements, and expiration date. This requirement can be difficult to accomplish when there is a mix of IR-4 and non-IR-4 personnel utilizing the laboratory and sharing the chemicals or when the chemical is stable and has a long shelf life. The following is to be used as a guide for meeting the labeling requirement:

- 1) Identity can be the common name(s), CAS number or chemical name of the reagent or reagents in solution or mixture.
- 2) If the labeling of the original container provides the identity, concentration, storage requirements (if any) and expiration date or shelf life, no additional information is needed. If the labeling does not contain this information, than a supplemental label containing the missing information should be permanently attached to the container where it does not obscure other critical information.
- *3)* All mixtures of chemicals prepared by laboratory personnel for use in IR-4 trials should have labels with the information as shown in 2 above.
- *4) Expiration dates for stable chemicals should be determined by the Laboratory Research Director following methods outlined in their SOPs.*
- 5) Adequate precautions should be taken to avoid contamination of reagents and solutions so that purity of their content is preserved.

Standard Solution Stability: If no stability information is available from the registrant or within the reference method, in-house stability data must be generated. The data generated must be valid for the solvent composition and storage conditions used, and analysis must be repeated if those conditions change. IR-4 will define a solution as stable for the interval measured if there is $\leq 10\%$ difference between a minimum of five replicate injections each of fresh and aged solutions. Labs are encouraged to reach out to other regions to see if they have any valid stability data to share.

Sample Receipt, Processing and Storage

Maintaining a representative sample and maintaining sample integrity are the important considerations to keep in mind during sample receipt storage, processing, and extraction/analysis (see Attachment 1).

Sample Receipt: Samples are generally received from a carrier such as ACDS or Fed Ex. For receipt of samples from an overnight air express carrier such as FedEx, it is critical that the lab know a shipment is in transit. If the shipment is not received as expected, laboratory personnel will follow-up to track the shipment.

When samples are received, laboratory personnel must check the condition of the samples to ensure they were kept frozen as well as verify receipt of the correct samples by checking sample identification and matrices against the shipping papers. Unique laboratory numbers are assigned and recorded with cross reference to field sample IDs. Shipping forms (Part 8B) received with the samples may be used to record the cross reference or custom forms may be used. At a minimum, custom forms must contain the same information required on the Field Data Book (FDB) forms, and must show that protocol conditions have been met (for example, acknowledging that forms 8B and 8C were shipped with the samples). The SD, RFC, and FRD are notified when samples are received, and any problems with the shipment are to be brought to their attention.

Sample Processing: For information regarding sample preparation, size, and homogeneity (for details, see Attachment 1). Great care is taken in the field to collect samples from all areas of the plot, so that the sample is representative of the whole field. When processing the samples, the entire sample must be processed and thoroughly mixed. If this is not possible, guidance from the Study Director and/or Registration Manager must be sought. Sample integrity is generally maintained by processing samples with dry ice. The study analytical data must document how representative samples were prepared.

Storage: Storage of samples is in accordance with the protocol requirements and SOP's. To prepare for the loss of power or a freezer failure, consideration should be given to the availability of backup freezers and dry ice, generators (power backup) and spare parts. Temperature monitors, alarms, and established lines of notification are methods for providing the LRD with information on the temperature of the storage areas. For a longer-term power outage, samples may need to be transported to another location to maintain sample integrity. These samples represent a significant investment and their integrity should be safeguarded accordingly.

Working Method, Validation and Modifications

IR-4 methods are provided initially by the cooperating registrant (reference method). Given the number of commodities IR-4 works with, it is likely that each method will require some modification to work effectively. It should be noted that once these methods are modified for other commodities, these methods become the enforcement method for EPA. Significant changes to the initial working method may trigger an independent laboratory validation (ILV, OPPTS 860.1340), and thus are not encouraged unless needed to develop an adequate method for the specific matrix. The LRD should discuss "significant changes" with the SD and/or National Laboratory Director (NLD)¹ prior to making the change. During the course of method development, LRDs must be mindful of time and resources spent on a particular project. As part of the Backlog Response Policy (Attachment 2), a series of checkpoints have been developed to help keep projects on track and to identify potential solutions on difficult projects before falling into a backlogged status. The checkpoints are designed to keep all relevant groups (AC-AC, NLD and SD) informed of the method development progress such that ideas and experiences from the greater IR-4 community can be leveraged.

Other considerations: Approval for significant changes to the reference method must be requested from the SD, NLD and registrant. Depending on the number of proposed changes and familiarity with the method, the laboratory should keep in mind that such changes will need to be dealt with well in advance of analysis, so that when the samples are received analysis may proceed without delay.

Extraction: In most cases the extraction solvent and procedures must remain the same as the reference method. Sample weights and extraction volumes must stay proportional to the original method. However, in some cases, the ratio of extraction solvent to sample weight can be increased to improve extraction efficiency (e.g., extracting high K_{ow} pesticides from high fat/oil content crops). Exchange of equipment can be made only when the equipment is carrying out the same basic function as noted in the method (for example tissuemizer and polytron). Other substitutions (from tissuemizer to shaker tray) should be discussed with the registrant providing the reference method and in consultation with the SD and the NLD at HQ.

¹ The role of the NLD is to provide greater consistency from IR-4 HQ by utilizing personnel with greater chemistry experience.

Clean-up steps: EPA has noted that as long as the extraction procedures are the same, clean-up steps maybe added or removed. It should also be noted that removing an excessive number of steps may result in excessive wear and tear on the column and instrument. The impacts of removing clean-up steps from the method, such as matrix enhancement effects, must be evaluated as chromatography must be clean and sharp. Modifications should be discussed with the SD, NLD as well as the registrant so they can share their experiences. Chemists should also consider cost and time relating to removal of cited clean-up steps.

Detector: Using LC-MS/MS has generally become the norm and essentially all of the IR-4 laboratories have at least one instrument. It is likely that any new equipment purchases will be directed toward using this technology. Therefore, replacing the detectors noted in the reference method with LC-MS/MS should have minimal effect on the method while providing better quantitation and confirmation.

Working method approval and validation data: Current minimum protocol requirements indicate that the LRD will send the SD the working method and recovery data from the method validation. If the recovery data are within 70 to 120% (reported as nearest whole number) then weathered sample analysis may proceed. However, it is expected that the SD take an active role in this process and acknowledge that the method and data are acceptable. If recoveries are outside of the protocol range but consistent (standard deviation $\leq 10\%$), the Study Director may choose to accept the validation data. However, a protocol amendment should be issued to change the acceptance criteria.

Sample Analysis and Extracts

Sample Analysis: As noted in the protocol, each analytical set will have at least one concurrent recovery sample. Typically, the fortification levels will reflect the expected residues in the treated samples. In cases where no residues are expected, fortifications should be at the lowest level of method validation (LLMV).

IR-4 laboratories agree that duplicate injections for each weathered sample should be used. If there is a study with a large number of samples, the LRD may consider doing single injections; however, it should be noted that duplicate injections provide a number of benefits such as enhanced instrument stability and better detection of "bad injections" in real time, allowing the chemist to respond to situations more quickly and efficiently. LRDs will have the appropriate SOPs in place to define pass or fail criteria for poorly reproducing injections.

Laboratory personnel should be mindful when unusual results are obtained and notify the SD immediately. (Lab personnel may want to re-extract and re-analyze samples to confirm prior to notification of SD). Examples of unusual situations include samples that have no residues compared to other weathered (field) samples from treated plots, decline samples where no residues are detected, samples from untreated control plots with residues, and if residues from samples taken from the same treated plot have measurable residues and the values for each sample vary by a factor of 5X or more.

Extracts: "Registrants are advised to routinely include the storage of extracts, unless their standard laboratory practice is to analyze extracts on the same day as they are obtained" (860.1380). Stability of the extracts must be proven via reanalysis after a given storage interval and comparison to the initial sample response. Always run samples with concurrent recoveries to demonstrate extract

stability.

Storage Stability

IR-4 carries out modified guideline storage stability studies as outlined in 860.1380. Our purpose is to show the samples are stable under the storage conditions used. Shortly after method validation, sufficient replicate samples covering all potential time points are fortified (at a level specified in the protocol) and three of those samples are analyzed alongside three concurrent fortifications to serve as a "Day 0" stability time point. At least 3 additional samples will be prepared and held for potential long-term analysis. Time points covering at least 90% of the storage time (from sampling date to extraction date) are typically sufficient per the protocol, though this must be confirmed with the SD prior to analysis. In some cases, the SD may be able to waive the storage stability analysis. Documentation of the waiver by the SD is required. The fortification standard solution used for stability sample preparation must be the same solution used for method validation. Currently, storage stability with analysis of one additional time point is carried out for most studies. When conducting storage stability analysis, a minimum of two concurrent fortifications will be analyzed, along with the untreated control used for storage stability fortifications. For many compounds, the registrant may have adequate storage stability data available. IR-4 will continue to work with EPA and the manufacturers to determine if a stability study is necessary. Ultimately, IR-4 will strive to conduct fewer storage stability studies where possible.

Communication of Results with SD:

Project Initiation and Response Needed to Proceed: Labs should contact the SD when R&D is starting on a given project, as well as when method validation will be conducted. The SD should use this notification as an opportunity to contact the registrant and check for any method revisions or other pertinent updates. Important modifications to the working method and levels of fortification should be made clear at this point. Upon successful method validation, and prior to treated sample analysis, the signed working method and validation data must be sent to the SD. If concurrent fortification recoveries are not within the approved protocol range (70-120%), the SD must acknowledge that he/she is aware the data are out of range, accepts the recoveries, and that the analysis may proceed. If SD approval is needed or requested, the SD should make every effort to respond within 2 working days. Recognizing that study directors have other responsibilities including traveling, the lab will need to provide time for the study director to respond in these situations. For urgent needs, or situations where the SD is not able to respond within 2 working days, approval to proceed with analysis may be sought from the NLD. However, the SD must also provide approval when he/she becomes available. LRDs and analysts should be ready to discuss possible causes for problems observed as well as proposed solutions. Practical options presented to the SD will often lead to a clearer, more efficient path forward.

Routine Results: The LRD (or designate) will provide routine updates to the SD (e.g. residue analysis spreadsheet, residue result summaries) on a regular basis, along with background information and assessment of the data. The lab will decide the frequency of updates, based on their own operations. At a minimum, it is expected that the residue results will be shared with the SD as soon as possible, once all samples for the study have been analyzed. Acknowledgment of their receipt from the study director is expected.

Data Quality

The Mantle of Responsibility: IR-4 must continually strive for the highest levels of data quality and integrity, and all members of the program are responsible for the success of this mission. Chemists must ensure that the entirety of their work is reproducible and defensible in the face of an EPA audit. All data generated must therefore meet protocol, GLP, SOP, and the requirements of this document. LRDs are responsible for the careful review and approval of all project data, as well as the proper initial training of lab personnel. SDs must ensure that protocols are clear in their requirements and must remain updated on the status of all ongoing projects. All parties involved must maintain clear, honest, and open communication throughout the process. In addition, all parties must continue to educate themselves on new processes, developments, and applicable regulations.

Research and Development: Over the course of method development and refinement, care should be taken to document the different analytical approaches used, their results, and proposed next steps. Maintaining a clear record of the research process is beneficial for future projects involving similar commodities/chemistries, and such a record may be vital in the defense of method design/generated data during EPA's data review. All generated R&D data sets should be retained in at minimum a digital format, though some data sets (e.g., inhouse standard stability data checks) may also be retained in a dated and initialed paper form for future use and potential archiving. This data may also need to be included in the ASR as justification of a change in acceptance criteria for recoveries.

 \mathbf{R}^2 values and Reproducibility: To maintain a level of consistency across all IR-4 regions, minimum data quality metrics have been set for \mathbf{R}^2 values and injection reproducibility. Analytical sets that fail to meet these thresholds must be rerun. These are:

- 1. All generated calibration data subjected to linear regression must yield an R^2 value ≥ 0.985 .
- 2. Reproducibility between replicate injections of the same sample must be less than 20%.

Matrix-Matched (MM) Standards: Difficult matrices may impose significant enhancement or suppression effects on analytes of interest. These problems are typically solved with a more thorough sample cleanup prior to analysis. However, in cases where matrix effects cannot be overcome, or when the effects vary substantially from field to field, the use of MM standards may be beneficial. Seek LRD and SD approval prior to use of MM standards, and provide sufficient justification for their use (e.g., direct comparison of results using clean vs. MM standards). In general, a difference in concurrent recovery samples of more than \pm 20% between clean and MM standards can be used as an adequate justification for use. Verify that the control samples used for MM standard preparation are relatively clean prior to analysis. If significant (>20%) differences in matrix effects are observed between fields, separate MM standards must be prepared for each field analyzed in order to account for field variability. Ensure that each MM standard is properly numbered and recorded according to GLP and SOP requirements.

Internal Standards: Internal standards should be used only if specifically required by the reference method or registrant. The SD should be contacted prior to any decision regarding use or disuse of internal standards.

Manual Integration: The use of manual integration is discouraged due to the subjective nature of individually drawn baselines. If analyte peaks are not being accurately integrated, analysts should first make every attempt to adjust the software integration parameters to fully capture peaks in a consistent manner. However, when no set of integration parameters will fully and accurately quantitate the analyte peak (e.g., missing fronts and tails, dropped baselines, inclusion of coeluting peaks or baseline noise), manual integration becomes necessary for

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proper data analysis. Whenever manual integration is used, that data <u>must</u> be differentiated from computergenerated integrations. In software suites like Agilent MassHunter, the color of the peak changes, and an asterisk is added. Other options include handwritten notes, initialed and dated, on the manually integrated peaks, or computer-generated codes denoting manual integration. The LRD is responsible for proper manual integration training of laboratory personnel and must review all data packets to ensure that baselines (both computer-generated and manual) are properly applied.

Calculation of Parent Equivalents: Protocols may require residues to be reported in parent-equivalents. If asked to convert all residues to parent-equivalents, use the molecular weights provided by the Certificate of Analysis (CoA) or registrant to ensure accuracy. Any inconsistencies or other questions should be discussed with the SD.

Analytical Summary Report

A sample ASR is provided in Attachment 3.

Training

This document will be used as a training tool for new Laboratory Coordinators, IR-4 chemists, QA officers and Study Directors. Contract and company laboratories may also use this document as a tool to provide guidance for residue analysis. Additional online and in-person training on GLP regulations, advancements in laboratory technologies/techniques, and proper laboratory safety should be conducted when possible and made a priority for continuing education of staff across all labs.

Guideline Document review: Target review is for every three years. Please note that significant material has been taken from the "Operational Handbook of IR-4" and updates to that document will affect this document as well.

Explanation of Attachments:

Attachment 1: Sample Processing Document

This instructional guideline has been prepared to aid in ensuring uniformity and consistency among IR-4 analytical facilities when preparing raw agricultural commodities (RAC) for *Magnitude of the Residue* determinations. The attachment provides information regarding sample preparation, size and providing homogeneous representative samples. Great care is taken in the field to collect samples from all areas of the plot, so that the sample is representative of the whole field and this guideline will help ensure that samples remain representative when processed in the IR-4 laboratories.

Attachment 2: Backlog Response Policy

This policy defines when a project is considered backlogged and provides guidance on preventing future backlogs. This policy also caps method development to 3 months.

Attachment 3: Sample Analytical Summary Report.

This example report is provided to illustrate a typical IR-4 Analytical Summary Report and the critical elements that must be included. The tables have been updated to help aid final report preparation. Recently, EPA has begun to request that metabolite residues be expressed as parent equivalents, please refer to the protocol for specific reporting requirements. Please note that residues from weathered samples are to be reported using a minimum of 2 significant figures. Also, it is imperative that all of the pages of the ASR be readable. For electronic copies of this example please visit <u>https://www.ir4project.org</u>

Attachment 4: Checklist for Review of Analytical Summary Reports

This checklist (version 1.1, 2/5/2013) is being provided as reference information to assist in the internal quality evaluation of analytical data. The checklist can be used to identify and insure that appropriate information is included in the final reports submitted to EPA. The checklist identifies items which must be brought to the study director's attention in order for the study director to carry out his/her responsibilities under GLP.

Attachment 1

Sample Processing Document

GUIDELINES FOR THE PREPARATION OF RAW AGRICULTURAL COMMODITY SAMPLES FOR RESIDUE ANALYSIS

PURPOSE:

This instructional guideline has been prepared to aid in ensuring uniformity and consistency among IR-4 analytical facilities when preparing raw agricultural commodities (RAC) for *Magnitude of the Residue* determinations.

This guideline contains general directions for:

- obtaining homogeneous RAC sub-samples in a safe manner with minimum risk of residue cross-contamination ("General Procedures" section A)
- processing guidelines for specific crop groupings with specific instructions on inspecting and what portion of the RAC is to be prepared for residue determination ("Guidelines for Determining Portion of RAC to be Analyzed" section B)
- uniform sample preparation and comminuting procedures (i.e., pulverizing/ reduce to powder) for whole and sub-sampled RACs ("Guidelines for Sample Preparation" section C)

Definitions of Terms Used in this Guideline:

Raw Agricultural Commodity

Fresh fruits, whether or not they have been washed and colored or otherwise treated in their unpeeled natural form; vegetables in their raw or natural state, whether or not they have been stripped of their outer leaves, waxed, prepared into fresh green salads, etc.; grains, nuts, eggs, raw milk, meats, and similar agricultural produce. Does not include foods that have been processed, fabricated, or manufactured by cooking, freezing, dehydrating, or milling (40 CFR 180)

Sample

The amount of individual agricultural commodity units (e.g. specific number of fruits or tubers, a set weight of grain, etc.) randomly selected from a plot which may be composited for pesticide analysis (OPPTS 860.1500)

PROCEDURE:

A. General Guidelines

Persons given responsibility for processing agricultural crops (Processor) will be fully trained in properly processing agricultural commodities and also in the safe use of processing equipment and cryogenic materials. Proper ventilation is mandatory when working with cryogenic materials such as liquid nitrogen and carbon dioxide. It is the responsibility of the Processor to immediately notify her/his immediate supervisor and/or the Laboratory Research Director if unsafe working conditions exist.

Processing equipment often operates at high speeds to pulverize/powder the RAC. This equipment can be hazardous and should be routinely checked for proper operation before processing agricultural commodities.

The sample should not be brushed, stripped, trimmed, or washed except to the extent that these are commercial practices before shipment or to the extent allowable (see 40 CFR

180 or the Pesticide Assessment Manual (PAM)). Details for cleaning or trimming specific crop types are outlined under "Guidelines for Determining Portion of RAC to be Analyzed" section B and Appendix 1. In each case, the protocol and Study Director will be consulted to clarify any potential problems prior to sample processing.

The total sample should be processed whenever feasible. If the sample size is too large to process, a representative sub-sample of each component part should be taken (e.g., 1/4 of each cantaloupe from the original residue sample bag for maceration). Sub-sampling of the component parts will be done in a manner to represent the residue distribution to be found on all surfaces of the whole vegetative part. Details for specific crop types are outlined under "Guidelines for Sample Preparation" section C. If sub-sampling must occur, due to large sample size or unit size, the Study Director will be consulted prior to sample processing.

The order in which samples are processed should be chosen to minimize the potential for residue cross-contamination. For each trial location, untreated samples should always be processed first. Treated samples with the lowest application rate and the longest pre- harvest interval (PHI) should follow. Samples with the highest application rate and the shortest PHI should be processed last. In addition, crop fractions should also be considered (e.g. nut meat fractions should be processed before hull fractions).

If cryogenic materials are required, the pulverized sample can quickly liquefy and separate at room temperature soon after processing. All attempts should be made to immediately transfer the sample to a properly labeled sampling bag and place in frozen storage.

Processing equipment should be thoroughly washed and rinsed with distilled water and acetone or methanol before attempting to process the next sample. Cleaning should be performed even if the next sample is a replicate from the same treatment location or a replicated control sample.

B. Guidelines for Determining Portion of RAC to be Analyzed

40 CFR 180 specifies that the sample taken should be of the whole raw agricultural commodity (RAC) as it moves through interstate commerce. In certain cases, the portion to be analyzed for a residue tolerance may not represent the whole RAC. Instructions on what portion of the RAC should be analyzed are provided for nine individual food commodities (*e.g.*, bananas) and crop group commodities (*e.g.*, root vegetables) in this regulatory guideline. To fill this void, the FDA has provided additional guidance for RACs that fall under a more complete crop groupings list (see 40 CFR 180.34 (f)). The portion of the sample to be analyzed as described under PAM Volume 1 takes into account practical considerations of

sample preparation. Appendix 1 on page 4 (Table 102-a: *Portion of Raw Agricultural Commodity to be Analyzed for Pesticide Residues*) provides a compilation of EPA regulations and FDA directions to be followed for RAC preparation. If sample processing procedures for a particular RAC are not specified under the above crop grouping guidelines, or in the protocol, additional guidance from the Laboratory Research Director and IR-4 Study Director approval will be sought before preparing samples for residue determination.

C. Guidelines for Sample Preparation

The relatively small 2.5 to 100-gram laboratory sample taken from the whole RAC must represent the entire treated or control sample. Often these samples are *bulky* or can be comprised of *a few large units or many smaller items*. Whenever feasible, the total RAC sample should be pulverized and a homogeneous 2.5 to 100-gram sample taken to assure uniformity. Processing the entire sample may not always be feasible. Guidelines are provided below to aid in preparing representative residue determination samples from bulky, large unit and many small item RAC samples. In addition to the guidelines below, **Table 1** offers examples of current processing practices of several commodities by IR- 4/ARS facilities.

<u>Bulky Samples</u>: For more bulky samples [i.e., Alfalfa (green and dry), Barley, Field Corn (silage, stover), Sweet Corn (forage, husks), Clover Grass, Mint (hay), Oats (forage, fodder, or straw), Rice (plants), Rye, Sorghum (plants), Soybean (plants), Sugar Cane (green and/or dry) Tobacco (green, cured), and Wheat (forage, fodder, or straw)], acquiring the relatively small laboratory sample usually consists of two steps. First, the crop is chopped into smaller size fractions using either a chopping knife or scissors or through use of a large capacity chopper/mixer/grinder such as a spinning bowl or vertical chopper (ie: Hobart HCM-450, 84142, 84145, 84146, VCM-25, or equivalent). The chopped sample is then frozen to a brittle consistency using either liquid nitrogen (LN_2) or dry ice. This frozen material is then processed to a fine consistency using a sample grinder (ie: Hobart 4822 or equivalent). Alternatively, the samples may be first broken or chopped or into smaller size fractions as described above and then thoroughly processed with a cryogen (LN_2 or dry ice) in a spinning bowl chopper/mixer, spinning blade food processor (ie: Robot-Coupe. RSI-6V or 10B) or other food grinder/chopper

<u>Sub-sampling</u>: Typically, sub-sampling of bulky or heavy units is performed in the field as directed by the Protocol. However, when there are physical limitations for the laboratory processing of the whole sample due to mass or sample size, sub-sampling of the component parts must be done in a manner that assures the residue distribution is representative of the whole vegetative part. Laboratory sub-sampling should only be performed by GLP trained staff **and in consultation with the Study Director and or Registration Manager.** If absolutely necessary, this practice must be limited to special circumstances and be conducted by properly trained staff that understands the importance of maintaining a fully representative sub-sample and the risks of possible residue/cross contamination and/or deterioration of the crop matrix. Some examples of representative sub-sampling in the laboratory include:

- Taking a well-mixed portion of a large sample of very small items (berries, nuts, grain, and immature vegetables). This may be necessary due to sample capacity of processing/milling/grinding equipment (i.e., small Hobart/Robot-Coupe choppers, Tekmar Analytical Mills and other similar chopping/grinding devices). For example, a well-mixed 1 kg sub-sample from the 5 kg composited RAC sample bag of coffee beans can be pulverized by the Tekmar Analytical Mill to produce a representative sample.
- For larger items when ca.12 units may comprise the entire composited RAC (melons, pineapples, squash, see CODEX, reference 3 and PAM section 120c), ¹/₄ of each unit can be separated and composited to produce a representative sample for processing.
- In preparing a homogeneous tree fruit sample, where 6 fruits from each of 4 trees is recommended (CODEX, reference 3), ½ of each unit can be separated and composited to produce a representative sample for processing.
- When the processing or chopping of samples results in rapid degradation or loss of residues during storage, a representative sub-sample shall be processed just prior to analysis. The crop unit number, crop unit size, and the number of analyses will determine the amount of sample to process with dry ice for each analysis.

If there is too much sample bulk to add the entire sample all at once and sub-sampling is not an option, process a portion of the sample, add add'l. sample and cryogen (if using), process and repeat until the chopper is full. Bulk bag and repeat processing until the entire sample is chopped. Combine all chopped matrix in the bulk bag, mix well and remove sample for analysis/storage.

Table 1.

Crop Group (Subgroup) Number and Name	Representative Commodities	Pre-Processing Preparation ¹	Processing ²	Commodities
1. ROOT AND TUBER VEGETABLES	Carrot, potato, radish, and sugar beet.	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine. If greater than 10 pounds cut each unit in half, returning opposite half to sample bag. Continue until all can fit in chopper. If tops are included, cut with an electric knife. A heavy knife and hammer are useful if sample is too hard.	Robot Coupe, Grinder or Hobart with cryogen	Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; beet, garden; beet, sugar; burdock, edible; canna, edible; carrot; cassava, bitter and sweet; celeriac; chayote (root); chervil, turnip-rooted; chicory; chufa; dasheen (taro); ginger; ginseng; horseradish; leren; parsley, turnip-rooted; parsnip; potato; radish; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret; sweet potato; tanier; turmeric; turnip; yam bean; yam, true.
1A. Root vegetables subgroup	Carrot, radish, and sugar beet	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine. If tops are included, cut with an electric knife. A heavy knife and hammer are useful if sample is too hard.	Robot Coupe, Grinder or Hobart with cryogen	Beet, garden; beet, sugar, burdock, edible; carrot; celeriac; chervil, turnip-rooted; chicory; ginseng; horseradish; parsley, turnip-rooted; parsnip; radish; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret; turnip
1B. Root vegetables (except sugar beet) subgroup	Carrot and radish	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine. If tops are included, cut with an electric knife. A heavy knife and hammer are useful if sample is too hard.	Robot Coupe, Grinder or Hobart with cryogen	Beet, garden; burdock, edible; carrot; celeriac; chervil, turnip-rooted; chicory; ginseng; horseradish; parsley, turnip-rooted; parsnip; radish; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret; turnip.
1C. Tuberous and corm vegetables subgroup	Potato	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine	Robot Coupe, Grinder or Hobart with cryogen	Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible; cassava, bitter and sweet; chayote (root); chufa; dasheen (taro); ginger; leren; potato; sweet potato; tanier; turmeric; yam bean; yam, true
1D. Tuberous and corm vegetables (except potato) subgroup	Sweet potato	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine	Robot Coupe, Grinder or Hobart with cryogen	Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible; cassava, bitter and sweet; chayote (root); chufa; dasheen (taro); ginger; leren; sweet potato; tanier; turmeric; yam bean; yam, true
2. LEAVES OF ROOT AND TUBER VEGETABLES (HUMAN FOOD OR ANIMAL FEED)	Turnip and garden beet or sugar beet	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch or smaller pieces or cut with electric knife and then thoroughly mix to combine.	Robot Coupe, Grinder or Hobart with cryogen. If too much sample bulk to add all at once, process in batches until chopper is full as described in footnote 2	Beet, garden; beet, sugar; burdock, edible; carrot; cassava, bitter and sweet; celeriac; chervil, turnip- rooted; chicory; dasheen (taro); parsnip; radish; radish, oriental (daikon); rutabaga; salsify, black; sweet potato; tanier; turnip; yam, true
3. BULB VEGETABLES	Onion, green; and onion, dry bulb	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine or cut in ~ 1in pieces	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice)	Garlic; garlic, great-headed; leek; onion, dry bulb and green; onion, Welsh; shallot

¹ and ² – see footnotes at bottom of final table

Crop Group (Subgroup) Number and Name	Representative Commodities	Pre-Processing Preparation ¹	Processing ²	Commodities
4. LEAFY VEGETABLES (EXCEPT <u>BRASSICA</u> VEGETABLES)	Celery, head lettuce, leaf lettuce, and spinach	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch or smaller pieces or cut with electric knife and then thoroughly mix to combine.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice). If too much sample bulk to add all at once, process in batches until chopper is full as described in footnote 2.	Amaranth (Chinese spinach); arugula (roquette); cardoon; celery; celery, Chinese; celtuce; chervil; chrysanthemum, edible-leaved; chrysanthemum, garland; corn salad; cress, garden; cress, upland; dandelion; dock (sorrel); endive (escarole); fennel, Florence; lettuce, head and leaf; orach; parsley; purslane, garden; purslane, winter; radicchio (red chicory); rhubarb; spinach; spinach, New Zealand; spinach, vine; Swiss chard
4A. Leafy greens subgroup	Head lettuce and leaf lettuce, and spinach	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch or smaller pieces or cut with electric knife and then thoroughly mix to combine.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Amaranth; arugula; chervil; chrysanthemum, edible- leaved; chrysanthemum, garland; corn salad; cress, garden; cress, upland; dandelion; dock; endive; lettuce; orach; parsley; purslane, garden; purslane, winter; radicchio; spinach; spinach, New Zealand; spinach, vine
4B. Leaf petioles subgroup	Celery	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Cardoon; celery; celery, Chinese; celtuce; fennel, Florence; rhubarb; Swiss chard
5. <u>BRASSICA</u> (COLE) LEAFY VEGETABLES	Broccoli or cauliflower; cabbage; and mustard greens.	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch or smaller pieces or cut with electric knife and then thoroughly mix to combine. May need to quarter lengthwise, using opposite pieces prior to mixing to reduce bulk.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice). If too much sample bulk to add all at once, process in batches until chopper is full as described in footnote 2.	Broccoli; broccoli, Chinese (gai lon); broccoli raab (rapini); Brussels sprouts; cabbage; cabbage, Chinese (bok choy); cabbage, Chinese (napa); cabbage, Chinese mustard(gai choy); cauliflower; cavalo broccolo; collards; kale; kohlrabi; mizuna; mustard greens; mustard spinach; rape greens
5A.Head & Stem Brassica subgroup	Broccoli or cauliflower and cabbage	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine. May need to quarter lengthwise, using opposite pieces prior to mixing to reduce bulk.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Broccoli; broccoli, Chinese; brussels sprouts; cabbage; cabbage, Chinese (napa); cabbage, Chinese mustard; cauliflower; cavalo broccolo; kohlrabi
5B.Leafy Brassica greens subgroup	Mustard greens	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine or cut with an electric knife.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Broccoli raab; cabbage, Chinese (bok choy); collards; kale; mizuna; mustard greens; mustard spinach; rape greens

Crop Group (Subgroup) Number and Name	Representative Commodities	Pre-Processing Preparation ¹	Processing ²	Commodities
6. LEGUME VEGETABLES (SUCCULENT OR DRIED)	Bean (<u>Phaseolus</u>),(succulent & dried),pea (<u>Pisum</u>) (succulent & dried) and soybean	Pre-processing not required.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice) For dried peas/beans - grinder type processor, coffee grinder or Robot Coupe	Bean (<u>Lupinus</u>) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); bean (<u>Phaseolus</u>) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); bean (<u>Vigna</u>) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broad bean (fava); chickpea (garbanzo); guar; jackbean; lablab bean; lentil; pea (<u>Pisum</u>) (includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea); pigeon pea; soybean; soybean (immature seed); sword bean
6A.Edible-podded legume vegetables subgroup	Any one succulent cultivar of edible-podded bean (<u>Phaseolus</u>) and any one succulent cultivar of edible- podded pea (<u>Pisum</u>)	Pre-processing not required	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice). For dried peas/beans - grinder type processor, coffee grinder or Robot Coupe	Bean (<u>Phaseolus</u>) (includes runner bean, snap bean, wax bean); bean (<u>Vigna</u>) (includes asparagus bean, Chinese longbean, moth bean, yardlong bean); jackbean; pea (<u>Pisum</u>) (includes dwarf pea, edible- podded pea, snow pea, sugar snap pea); pigeon pea; soybean (immature seed); sword bean
6B.Succulent shelled pea and bean subgroup	Any succulent shelled cultivar of bean (<u>Phaseolus</u>) and garden pea (<u>Pisum</u>)	Pre-processing not required	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice)	Bean (<u>Phaseolus</u>) (includes lima bean, green; broad bean, succulent); bean (<u>Vigna</u>) (includes blackeyed pea, cowpea, southern pea); pea (<u>Pisum</u>) (includes English pea, garden pea, green pea); pigeon pea
6C.Dried shelled pea and bean (except soybean) subgroup	Any one dried cultivar of bean (<u>Phaseolus</u>) and any one dried cultivar of pea (<u>Pisum</u>)	Pre-processing not required	Grinder type processor, coffee grinder or Robot Coupe with cryogen (LN2 or dry ice)	Dried cultivars of bean (<u>Lupinus</u>); bean (<u>Phaseolus</u>) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean); bean (<u>Vigna</u>) (includes adzuki bean, blackeyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); broad bean (dry); chickpea; guar; lablab bean; lentil; pea (<u>Pisum</u>) (includes field pea); pigeon pea
7. FOLIAGE OF LEGUME VEGETABLES	Any cultivar of bean (<u>Phaseolus</u>), field pea (<u>Pisum)</u> and soybean	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch or smaller pieces or cut with electric knife and then thoroughly mix to combine.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice)	Plant parts of any legume vegetable included in the legume vegetables that will be used as animal feed.
7A.Foliage of legume vegetables (except soybeans) subgroup	Any cultivar of bean (<u>Phaseolus</u>) and field pea (<u>Pisum</u>)	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch or smaller pieces or cut with electric knife and then thoroughly mix to combine.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice)	Plant parts of any legume vegetable (except soybeans) included in the legume vegetables group that will be used as animal feed.

Crop Group (Subgroup) Number and Name	Representative Commodities	Pre-Processing Preparation ¹	Processing ²	Commodities
8. FRUITING VEGETABLES (EXCEPT CUCURBITS)	Tomato, bell pepper, and one cultivar of non-bell pepper	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine or chop with a knife.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Eggplant; groundcherry (<u>Physalis</u> spp); pepino; pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); tomatillo; tomato
9. CUCURBIT VEGETABLES	Cucumber, muskmelon, and summer squash	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine. May need to quarter lengthwise, using opposite pieces prior to mixing to reduce bulk. Chop entire fruit including seeds and rind.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Chayote (fruit); Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); <u>Momordica</u> spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes cantaloupe); pumpkin; squash, summer; squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon
9A.Melon subgroup	Cantaloupe	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine. May need to quarter lengthwise, using opposite pieces prior to mixing to reduce bulk. Chop entire fruit including seeds and rind.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Citron melon; muskmelon; watermelon
9B. Squash/Cucumber subgroup	One cultivar of summer squash and cucumber	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine. May need to quarter lengthwise, using opposite pieces prior to mixing to reduce bulk. Chop entire fruit including seeds and rind.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Chayote (fruit); Chinese waxgourd; cucumber; gherkin; gourd, edible; <u>Momordica</u> spp; pumpkin; squash, summer;squash, winter
10. CITRUS FRUITS	Sweet orange, lemon and grapefruit	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Calamondin; citrus citron; citrus hybrids (includes chironja, tangelo, tangor); grapefruit; kumquat; lemon; lime; mandarin (tangerine); orange, sour; orange, sweet; pummelo; Satsuma mandarin
11. POME FRUITS	Apple and pear	While inside IR4 bag and frozen break up with a mallet into approx. 1 to 2 inch pieces and mix to combine. May need to quarter lengthwise, using opposite pieces prior to mixing to reduce bulk. Chop entire fruit including seeds and neel	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Apple; crabapple; loquat; mayhaw; pear; pear, oriental; quince

Crop Group (Subgroup) Number and Name	Representative Commodities	Pre-Processing Preparation ¹	Processing ²	Commodities
12. STONE FRUITS	Sweet or tart cherry, peach, and plum or fresh prune	Pre-processing not required. May need to be pitted or cut into smaller pieces.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice)	Apricot; cherry, sweet; cherry, tart; nectarine; peach; plum; plum, Chickasaw; plum, Damson; plum, Japanese; plumcot; prune (fresh)
13. BERRIES	Any one blackberry or any one raspberry; and blueberry	Pre-processing typically not required. If larger than 1 to 2 in cut into smaller pieces.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice). A coffee grinder can be used for small sample sizes.	Blackberry (including bingleberry, boysenberry; dewberry; lowberry, marionberry, olallieberry, youngberry); blueberry; currant; elderberry; gooseberry; huckleberry; loganberry; raspberry, black and red
13A.Caneberry (blackberry and raspberry) subgroup	Any one blackberry or any one raspberry	Pre-processing not required	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Blackberry; loganberry; red and black raspberry; cultivars and/or hybrids of these
13B. Bushberry subgroup	Blueberry, highbush	Pre-processing not required	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Blueberry, highbush and lowbush; currant; elderberry; gooseberry; huckleberry
14.TREE NUTS	Almond and pecan	Pre-processing typically not required. Nut meat may need to be separated.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice). A coffee grinder can be used for small sample sizes.	Almond; beech nut; Brazil nut; butternut; cashew; chestnut; chinquapin; filbert (hazelnut); hickory nut; macadamia nut; pecan; walnut, black and English
15. CEREAL GRAINS	Corn (sweet and field), rice, sorghum, and wheat	Pre-processing not required	Wiley mill, coffee grinder or Robot Coupe or with cryogen (LN2 or dry ice).	Barley; buckwheat; corn; millet, pearl; millet, proso; oats; popcorn; rice; rye; sorghum (milo); teosinte; triticale; wheat; wild rice
16.FORAGE, FODDER AND STRAW OF CEREAL GRAINS	Corn, wheat, and any other cereal grain crop	Pre-processing typically not required. Use an electric knife if needed.	Robot Coupe, Grinder or smaller Hobart with cryogen (LN2 or dry ice)	Forage, fodder, and straw of all commodities included in the cereal grains group
17.GRASS FORAGE, FODDER, AND HAY GROUP	Bermuda grass; bluegrass; and bromegrass or fescue	Pre-processing typically not required. Use an electric knife if needed.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice). If too much sample bulk to add all at once, process in batches until chopper is full as described in footnote 2.	Any grass, Gramineae family (either green or cured) except sugarcane and those included in the cereal grains group, that will be fed to or grazed by livestock, all pasture and range grasses and grasses grown for hay or silage

Crop Group (Subgroup) Number and Name	Representative Commodities	Pre-Processing Preparation ¹	Processing ²	Commodities
18.NONGRASS ANIMAL FEEDS (FORAGE, FODDER, STRAW AND HAY)	Alfalfa and clover (<u>Trifolium</u>)	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Alfalfa; bean, velvet; clover (<u>Trifolium</u> , <u>Melilotus</u>); kudzu; lespedeza; lupin; sainfoin; trefoil; vetch; vetch, crown; vetch, milk
19.HERBS AND SPICES	Basil (fresh & dried); black pepper; chive; hop cones; and celery seed or dill seed	Pre-processing typically not required. Use an electric knife if needed.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice). For hops keep dry ice to a minimum and do not leave hops in chopper too long.	Allspice; angelica; anise; anise, star; annatto (seed); balm; basil; borage; burnet; camomile; caper buds; caraway; caraway, black; cardamom; cassia bark; cassia buds; catnip; celery seed; chervil (dried); chive; chive, Chinese; cinnamon; clary; clove buds; corainder leaf (cilantro or Chinese parsley); coriander seed (cilantro); costmary; culantro (leaf); culantro (seed); cumin; curry (leaf); dill (dillweed); dill (seed); fennel (common); fennel, Florence (seed); fenugreek; grains of paradise, hop cones; horehound; hyssop; juniper berry; lavender; lemongrass; lovage (leaf); lovage (seed); mace; marigold, marjoram; mustard (seed); nasturtium; nutmeg; parsley (dried); pennyroyal; pepper, black; pepper, white; poppy (seed); rosemary; rue; saffron; sage; savory, summer and winter; sweet bay; tansy; tarragon; thyme; vanilla; wintergreen; woodruff; wormwood
19A.Herb subgroup	Basil (fresh & dried) and chive	Pre-processing typically not required. Use an electric knife if needed.	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice). A coffee grinder can be used for small sample sizes.	Angelica; balm; basil; borage; burnet; camomile; catnip; chervil (dried); chive; chive, Chinese; clary; coriander (leaf); costmary; culantro (leaf); curry (leaf); dillweed; horehound; hyssop; lavender; lemongrass; lovage (leaf); marigold; marjoram; nasturtium; parsley (dried); pennyroyal; rosemary; rue; sage; savory, summer and winter; sweet bay; tansy; tarragon; thyme; wintergreen; woodruff; and wormwood
19B.Spice subgroup	Black pepper; and celery seed or dill seed	Pre-processing not required	Wiley mill, coffee grinder or Robot Coupe or with cryogen (LN2 or dry ice).	Allspice; anise (seed); anise, star; annatto (seed); caper (buds); caraway; caraway, black; cardamom; cassia (bark); cassia (buds);celery (seed); cinnamon; clove (buds); coriander (seed); culantro (seed); cumin; dill (seed); fennel, common; fennel, Florence (seed); fenugreek; grains of paradise; juniper (berry); lovage (seed); mace; mustard (seed); nutmeg; pepper, black; pepper, white; poppy (seed); saffron; and vanilla
TROPICAL FRUIT CROPS Grapefruit	grapefruit, punimelo, and their citrus hybrids (including Uniq(Ugli) fruit)	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Corresponds to Codex Citrus Fruits Definitions

Table 1, cont.

Crop Group (Subgroup) Number and Name	Representative Commodities	Pre-Processing Preparation ¹	Processing ²	Commodities
Sugar Apple	sugar apple, cherimoya, atemoya, custard apple ilama, soursop, biriba	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	All crops in the Annonaceae; similar gross morphology; inedible peel
Lychee	lychee, longan, Spanish lime, rambutan, pulasan	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	All crops in the Sapindaceae; inedible peel
Рарауа	papaya, star apple, black sapote, mango, sapodilla, canistel, mamey sapote	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice). Make sure seeds are chopped.	All crops have inedible peel; corresponds to Codex classification
Avocado	avocado, papaya, star apple, black sapote, mango, sapodilla, canistel, mamey sapote	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	All crops have inedible peel; corresponds to Codex classification
Guava	guava, feijoa, jaboticaba, wax jambu, starfruit, passionfruit, acerola	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	Primarily edible peel; note/peel rarely contaminates <i>Passiflora spp.</i> during juicing
Citrus Fruits	add White sapote (Casimiroa), and other cultivars and/or hybrids of these	While inside IR4 bag and frozen break up with a mallet into approx. 2 inch pieces and mix to combine	Robot Coupe, Grinder or Hobart with cryogen (LN2 or dry ice).	White sapote is in the Rutaceae (citrus)

^{1.} Typical pre-processing tools include, but are not limited to: mallet, hammer, hatchet, cleaver, heavy knife, ginzu type knife, scissors, electric knife, and paper cutter. Caution must be taken when attempting to break samples with mallets while in the IR-4 bags. The sample bag may break. A secondary bag may be used to contain the pieces. Be aware that there may be a possibility of sample contamination with slivers of the bag/plastic lining. Alternatively, break-up of difficult frozen items using a heavy bladed knife, cleaver or heavy hammer/ mallets (2.5- 4lb) may be done on a chopping board lined with butcher paper with the edges folded up to contain sample pieces. Care must be exercised when using metal knives, choppers or hammers that pieces do not cause personal injury in the event of breakage.

² Use of serrated S-blades will improve chopping efficiency of Robot Coupe Systems when processing fibrous and hard sample matrices including green coffee bean, roasted coffee beans, and lychee whole fruit (with seed). Use of the Pulse or High speed (~3600 rpm) option for variable speed models is recommended for these difficult frozen matrices. A coffee grinder is useful for dry seeded samples. If there is too much sample bulk to add the entire sample all at once and sub-sampling is not an option, process a portion of the sample, add add'l. sample and cryogen (if using), process and repeat until chopper is full. Bulk bag and repeat processing until entire sample is chopped. Combine all chopped matrix in bulk bag, mix well and remove sample for analysis/storage.

Appendix 1: From Pesticide Assessment Manual (PAM) Volume 1, 3rd Edition

SECTION 102	2	Pesticide Analytical Manual Vol. (
Table 102-a:	Portion of Raw Agricultural Commodity to be Analyzed for Pesticide Residues				
	Root and tuber vegetables group ¹	Where separate tolerances are established for root or tuber, analyze whole commodity after removing adhering soil by lightly rinsing in running water.			
		Where a tolerance is established on a root veg- etable including tops and/or with tops, and tops and roots are marketed together, analyze tops and roots separately. Neither the pesticide residue on the roots nor the pesticide residue on the tops shall exceed the tolerance level. For carrots, parsnips, and rutabagas, remove and discard tops.			
	Bulb vegetables (green or dry) group	Whole commodity after removing and discarding roots. Remove adhering soil by lightly rinsing in running water. In the case of dry bulb onions and garlic, remove and discard stems and outer sheaths (husk or parchment skin) that are easily removed.			
	Leafy vegetables (except Brassica vegetables) group	Whole commodity after removing and discarding obviously decomposed or withered leaves. In the case of rhubarb, analyze only the stem without leaves. Remove adhering soil from celery by lightly rinsing in running water.			
	Brassica (cole) leafy vegetables group	Whole commodity after removing and discarding obviously decomposed or withered leaves, except remove and discard all leaves from cauliflower and headed broccoli and use sprouts only from brussels sprouts.			
	Legume vegetables (succulent or dried) group	Whole commodity, including pods for succulent and without pods for dry.			
	Fruiting vegetables (except cucurbits) group	Whole commodity after removing and discarding stems and husks.			
	Cucurbit vegetables group	Whole commodity after removing and discarding stems.			
	Citrus fruits group	Whole commodity.			
	Pome fruits group	Whole commodity after removing and discarding stems.			
	Stone fruits group	Whole commodity after removing and discarding stems and stones.			
	Small fruits and berries group	Whole commodity after removing and discarding caps and stems, except for currants, where the stems are to be included.			

¹ Members of food groups are listed in 40 CFR 180.34 (f) (9).

102-2

Transmittal No. 94-1 (1/94) Form FDA 2905a (6/92)

Appendix 1 (con't)

Pesticide Analytical Manual Vol. I		SECTION	102
Peanuts	Whole peanut meat (kernel) after removing hulls.		
Peanut hulls	Whole commodity after removing peanut meat.		
Dates and olives	Whole commodity after removing and discarding stems and stones or pits.		
Pineapples	Whole commodity after removing and discarding crowns (leaves at top of fruit).		
Avocados and mangoes	Whole commodity after removing and discarding stones.		
Bananas	Whole commodity including peel after removing and discarding crown tissue and stalk.		
Miscellaneous raw fruits and vegetables not previously included	Whole commodity after removing and discarding obviously decomposed or withered leaves, stems, stones or pits, shells or husks; if commodity has adhering amounts of soil, remove by lightly rinsing in running water.		
Almond hulls	Whole commodity after removing shell and nutmeat.		
Cereal grains group	Whole commodity (grain) except for fresh corn (including sweet corn). Include kernels plus cob after removing and discarding husk.		
Eggs	Whole commodity after removing and discarding shells.		
Fish	Edible portion of the commodity after removing and discarding heads, tails, scales, fins, viscera, bones (if inedible), and skin (if inedible).		
Crab (hard shell)	Edible portion of commodity after removing and discarding shells, gills, and viscera.		
Crab (soft shell)	Edible portion of commodity after removing and discarding gills.		
Shrimp and crayfish	Edible portion of commodity after removing and discarding heads, shells, and inedible tails of shrimp.		
Lobster	Edible portion of commodity including tomalley (liver) after removing and discarding shells and stomachs (hard sac near head).		
Oyster, clam, and other shellfish	Edible portion of commodity including the liquor, after removing and discarding shells.		
Rabbits and other game	Edible portion of commodity after removing and discarding bones.		

Transmittal No. 96-1 (9/96) Form FDA 2905a (6/92)

102-3

References Cited:

- *1.* 40 CFR 180.1 Tolerances And Exemptions From Tolerances For Pesticide Chemicals In Food. Subpart A(j) Definitions and Interpretative Regulations
- 2. Codex "Guidelines on Minimum Sample Sizes for Agricultural Commodities from Supervised Field Trials for Residue Analysis", ALINORM 87/24A (1987)
- 3. Codex Alimentarius Volume 2 Pesticides Residues In Food Section 2 Codex Classification Of Foods And Animal Feedstuffs. FAO, Rome 1993
- 4. Pesticide Assessment Manual (PAM) Volume 1, 3rd Edition, Section 102 and Section 203.
- 5. Residue Chemistry Test Guidelines OPPTS 860.1500 Crop Field Trials

Attachment 2 Backlog Response Policy

1. Definition of a backlog

Analytical work should be done within 12 months after the last batch of field samples are received by a lab. A "backlog" exists when the sample analysis and ASR are not completed within 12 months. Projects will not be considered backlogged if the following situations have occurred:

- HQ management reprioritization of study timeline
- Unable to receive standards from registrant
- Government or University shutdown impacting IR-4 and/or ARS operations

2. Strategy for preventing future backlogs

- Better planning
 - As much as possible, assign projects based on previous experience and expertise, recognizing that workloads need to be balanced and new actives will be analyzed.
 - Each lab should plan for the anticipated projects in advance, for example, to do method development before samples from last trials arrive.
 - Management will assure that personnel, resources, facilities, equipment...are available as scheduled.
 - Management to evaluate status of labs during Spring PMC meeting to determine if all labs have sufficient resources such that IR-4 laboratories may accept outside contract work.
- Better communication and transparency
 - Management to foster a culture where timelines are met, and issues are raised and addressed to prevent backlogs.
 - Cap the time for method development to <u>3 months</u>
 - i. Suggested Method Development Timeline
 - After 1st month: LRD contacts AC-AC to engage other chemists for ideas. Concurrently, LRD reaches out to registrant (chemist and IR-4 representative) for assistance. The Study Director (SD) and National Laboratory Director (NLD) are kept in the loop either as part of AC-AC discussions or direct communications.
 - 2. After 2nd month: LRD re-engages with AC-AC to report back results for various attempts and discusses possible next steps. LRD shares efforts with IR-4 and regional management (Regional Director (RD), NLD and SD).
 - 3. After 3rd month: LRD meets with RD, NLD and SD to discuss options to facilitate the timely completion of the project.
 - a. Transfer project to different IR-4 lab
 - b. Transfer project to contract lab
 - 4. For the purposes of reporting, color levels will be used.
 - a. After 1st month: Yellow
 - b. After 2nd month: Orange
 - c. After 3rd month: Red

3. Consequences for backlog

Version 1.2 10/2022 Once a project or projects become backlogged per the definition above, an email note will be sent by the National Lab Director to the IR-4 Executive Director, the Lab Director and the Regional Director. This note will provide notification that there is a backlog and request a formal response containing an explanation of the current status, and a proposal for corrective actions to meet the analytical timeline(s). The email response will be generated by the Lab director, approved by the Regional Director, and should be sent to the IR-4 Executive Director and National Lab Director within two weeks. HQ will decide if a meeting between the Lab Director, Regional Director, IR-4 Executive Director (and others as requested) is needed to approve the proposal or to discuss alternatives to make corrections to meet study timelines. If a meeting is not deemed necessary, approval for the plan will be provided via email. Once the backlog situation has been successfully addressed, a follow-up email will be sent from the National Lab Director to the Lab Director, with copies to the Regional Director and the IR-4 Executive Director. Backlog Response Policy (v. 1.0, 10/28/2022)

Attachment 3

Sample Analytical Summary Report

PR# 08550

<u>Author(s)</u> Alexander McFall

Laboratory Research Director Matt Hengel

Testing Laboratory

IR-4 Western Region Laboratory Department of Environmental Toxicology University of California, Davis 4218 Meyer Hall Davis, CA 95616

Laboratory ID# 08550.20-CAR10

<u>Study Director</u> Cristina Marchesan Marconi

Sponsor

Interregional Research Project #4 (IR-4) IR-4 Project Headquarters 1730 Varsity Drive, Venture IV, Suite 110 Raleigh, NC 27606

Field ID Numbers

08550.20-CA*19	08550.20-CA*20
08550.20-WA*403	08550.20-TX380
08550.20-CA16	08550.20-CA17
08550.20-CA18	08550.20-ID181
08550.20-WA404	08550.20-OR405
08550.20-CO461	

Study Timetable

Study Initiation Date: 02/20/20 Experimental Termination Date: 07/20/21

Report Date

GLP STANDARDS COMPLIANCE STATEMENT

PR#: 08550

Lab ID#: 08550.20-CAR10

The study reported herein for residues of flonicamid and its metabolites on onion was conducted and reported in compliance with GLP Title 40 CFR, part 160 of the <u>Code of Federal Regulations</u> of the United States of America.

11/23/2021

alus Mall 11/23/2021

Signature/Date Matt Hengel Laboratory Research Director IR-4 Western Region Laboratory Department of Environmental Toxicology University of California, Davis 4218 Meyer Hall Davis, CA 95616 Tel. No.: (530) 752-2402

Signature/Date Alexander McFall Analyst IR-4 Western Region Laboratory Department of Environmental Toxicology University of California, Davis 4218 Meyer Hall Davis, CA 95616 Tel. No.: (530) 752-2402

IR-4 NATIONAL PESTICIDE CLEARANCE RESEARCH PROGRAM RESIDUE DATA REPORTING FORM (Part 2) **RESIDUE STUDY QUALITY ASSURANCE REPORT SHEET**

INSTRUCTION: For the residue study captioned below, the Quality Assurance Unit (QAU) must enter the type of inspections or audits performed, the date each was done, and the date the findings were reported to Management and the Study Director. The completed form becomes part of the study record. QAU records are to be maintained and indexed as per 40 CFR Part 160.

PR#: 08550 Lab ID #: 08550.20-CAR10 Commodity: <u>Onion</u> Analysis for residues of: <u>Flonicamid</u> Laboratory Research Director: <u>Matt Hengel</u>

INSPECTION/AUDIT**

TYPE	DATE	BY	DATE REPORTED*
1. <u>CPI-L</u>	<u>5/19/21</u>	M. Beran	5/20/21
2. <u>RDA -ASR</u>	11/3-5, 8-9/21	M. Beran	11/10/21

*Date findings reported to management and study director

**CPI= Critical Phase Inspection; RDA= Raw Data Audit; ASR= Analytical Summary Report.

Date: 11/23/21 Signature: Name: (Print): Martin Beran

Name: (Print): Martin Beran Quality Assurance Coordinator Phone: (530) 754-8525

Address: Dept of Environmental Toxicology, University of California. Davis, CA 95616-8588
LABORATORY PERSONNEL

Designation

Matt Hengel Laboratory Research Director Bronson Hung Analyst, Sample Control Officer Paul Kuzmicky Analyst Alexander McFall Analyst Tey Montalvo Analyst Riza Punongbayan Analyst, Report Preparation Salvador Chava Torres Asst. Sample Control Officer Fabiola G. Zuno Analyst

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LOCATION OF RAW DATA

Original raw data, a certified copy of the signed protocol, amendments, correspondence logs and all relevant information for the study titled: "Flonicamid: Magnitude of the Residue on Onion, PR# 08550" along with a certified copy of the signed analytical summary report will be maintained in the archives of the testing laboratory. The original copy of the analytical summary report will be forwarded to the sponsor.

Portions of the field samples will be retained at the testing laboratory in a freezer generally -20° C for at least 12 months after submission of the laboratory report. The long term storage stability samples will be stored for at least 5 years at generally -20° C. The study director will be consulted before the field samples or the storage stability samples are discarded.

Laboratory Research Director:	Matt Hengel
Festing Laboratory:	IR-4 Western Region Laboratory Department of Environmental Toxicology University of California, Davis 4218 Meyer Hall Davis, CA 95616
	101. NO (330) 732-2402

IR-4 NATIONAL PESTICIDE CLEARANCE RESEARCH PROGRAM ANALYTICAL SUMMARY REPORT PR#08550: FLONICAMID/ONION

I. Objective/Introduction

At the request of IR-4 Headquarters, the Western Region Laboratory at the University of California, Davis (UCD) has assayed onion for residues of Flonicamid (CAS# 158062-67-0) and its metabolites to provide data to support the establishment of a pesticide tolerance The method used in this study was derived from "Analytical Methodology for IKI-220 (F1785) and its Major Metabolites in/on Peach, Potato Tuber, and Wheat Straw", Audrey W. Chen, Ph.D., Report Number P-3561M, FMC Corporation Agricultural Products Group, Princeton, NJ. August 28, 2002.Steps where the UCD working method significantly diverges from the method referenced in the protocol are noted in Section V. Modifications. The study followed IR-4 National Pesticide Clearance Laboratory Phase Protocol PR# 08550 as amended. The validated method sensitivity is 0.01 ppm flonicamid and its metabolites TFNG-AM, TFNA, TFNG.

II. Sample Inventory/History

Upon arrival at the laboratory, samples were opened, inspected, and checked against the enclosed shipping form. Unique laboratory sample ID numbers were assigned as listed in Table II.1. Samples were stored frozen. Samples from field trial CA*20 were received with untrimmed roots. At the request of the Study Director, the roots were removed while frozen with a clean knife before processing.

Raw Agricultural Commodity (RAC) samples were processed with dry ice in either a floor model Hobart food chopper or a Robot Coupe food chopper. After the entire sample was chopped, a portion was placed in labeled glass pint jars and surplus was put back into the sample bag. Samples chopped with the Hobart food chopper were sifted through a #6 wire mesh screen into glass pint jars and surplus was put back into the sample bag. Glass jars and sample bags were returned to the freezer and stored frozen (generally -20°C).

Table 11.1: Sample Inventory							
Field Trial	Crop	Field Sample	Lab	Sampling Date	Lab Receipt	Processing	
	Fraction	ID	Sample		Date	Date	
			ID				
		DBA	28989	12/03/20	12/08/20	01/04/21	
CA *10	D-11-1	DBB	28990	12/03/20	12/08/20	01/04/21	
CA*19	Bulbs	DBC	28991	12/03/20	12/08/20	01/04/21	
		DBD	28992	12/03/20	12/08/20	01/04/21	
		GA	28849	08/31/20	11/10/20	12/21/20	
G 1 1 6 0		GB	28850	08/31/20	11/10/20	12/21/20	
CA*20	Plants	GC	28851	08/31/20	11/10/20	12/21/20	
		GD	28852	08/31/20	11/10/20	12/21/20	
		DBA	28861	10/02/20	11/10/20	01/04/21	
		DBR	28862	10/02/20	11/10/20	01/04/21	
WA*403	Bulbs	DBC	28863	10/02/20	11/10/20	01/05/21	
		DBD	28864	10/02/20	11/10/20	01/05/21	
		DBA	20004	06/07/21	07/14/21	07/19/21	
		DBR	29140	06/07/21	07/14/21	07/19/21	
TX380	Bulbs	DBD	29149	06/07/21	07/14/21	07/19/21	
			29130	06/07/21	07/14/21	07/19/21	
			29131	06/07/21	07/07/20	07/19/21	
			28241	06/30/20	07/07/20	07/16/20	
CA16	Bulbs	DBB	28242	06/30/20	07/07/20	07/16/20	
		DBC	28243	06/30/20	07/07/20	07/16/20	
		DBD	28244	06/30/20	0//0//20	0//16/20	
		DBA	28304	08/07/20	08/12/20	01/04/21	
CA17	Bulbs	DBB	28305	08/07/20	08/12/20	01/04/21	
		DBC	28306	08/07/20	08/12/20	01/05/21	
		DBD	28307	08/07/20	08/12/20	01/05/21	
		GA	28225	05/11/20	06/04/20	07/27/20	
CA18	Plants	GB	28226	05/11/20	06/04/20	07/27/20	
CITIO		GC	28227	05/11/20	06/04/20	07/27/20	
		GD	28228	05/11/20	06/04/20	07/27/20	
		DBA	28857	09/14/20	11/10/20	01/05/21	
ID181	Dulba	DBB	28858	09/14/20	11/10/20	01/05/21	
ID101	Duitos	DBC	28859	09/14/20	11/10/20	01/05/21	
		DBD	28860	09/14/20	11/10/20	01/05/21	
		DBA	28654	09/08/20	09/24/20	01/05/21	
WA 404	Dulha	DBB	28655	09/08/20	09/24/20	01/05/21	
WA404	Buibs	DBC	28656	09/08/20	09/24/20	01/06/21	
		DBD	28657	09/08/20	09/24/20	01/06/21	
		GA	28265	06/11/20	07/13/20	08/03/20	
00.405	DI /	GB	28266	06/11/20	07/13/20	08/03/20	
OK405	Plants	GC	28267	06/11/20	07/13/20	08/03/20	
		GD	28268	06/11/20	07/13/20	08/03/20	
		DBA	28853	08/23/20	11/10/20	12/08/20	
		DBB	28854	08/23/20	11/10/20	12/08/20	
CO461	Bulbs	DBC	28855	08/23/20	11/10/20	12/08/20	
		DBD	28856	08/23/20	11/10/20	12/08/20	

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III. Preparation of Storage Stability Samples

Storage stability samples were prepared by the laboratory. The analysis of these samples was not required because the samples were stored for less than the 23 month period covered by existing storage stability data.

10	Table 111.1.1 reparation of Storage Stability Samples									
Field Trial	Field Sample ID	Crop Fraction	No. Prepared	Sample Size (g)	Std #	Conc. µg/mL	µL Added	µg Added	Fort. Level ppm	Date Fortified
CA16	DBA	Bulbs	3	2.50	687-1M3	1.0	250	0.25	0.1	07/17/20
CA16	DBB	Bulbs	3	2.50	687-1M3	1.0	250	0.25	0.1	07/17/20

Table III.1: Preparation of Storage Stability Samples

Note: All samples were weighed into 50 mL polypropylene tubes and stored in the dark at generally -20° C.

IV. Standard Preparation

Stock Solutions:

Prepare a primary stock solution for each compound: flonicamid, TFNA-AM, TFNA, and TFNG. For all compounds, 25 mg (corrected for purity) of analytical standard is accurately weighed and transferred to a 25 mL volumetric flask. The standards are brought to volume with acetonitrile. The resulting solution concentrations are 1.0 mg/mL. These solutions are stored in amber glass bottles in the freezer (ca. -20°C) when not in use. When stored in the freezer in amber bottles, these stock solutions are stable for 1 year, per the reference method.

Fortification Standards:

Typically, the following analyte concentrations are prepared. All solutions are stored in amber bottles in the freezer when not in use and are stable for 6 months, per the reference method.

<u> $100 \mu g/mL Mix$ </u>: Transfer 2.50 mL of each 1.0 mg/mL standard into a 25 mL volumetric flask. Bring to volume with acetonitrile. Mix well.

<u>10 μ g/mL Mix</u>: Transfer 2.50 mL of the 100 μ g/mL mixed standard solution into a 25 mL volumetric flask. Bring to volume with acetonitrile. Mix well.

<u> $1.0 \ \mu g/mL Mix$ </u>: Transfer 2.50 mL of the 10 $\mu g/mL$ mixed standard solution into a 25 mL volumetric flask. Bring to volume with acetonitrile. Mix well.

<u> $0.10 \ \mu g/mL Mix</u>$: Transfer 2.50 mL of the 1.0 $\mu g/mL$ mixed standard solution into a 25 mL volumetric flask. Bring to volume with acetonitrile. Mix well.</u>

<u>0.010 μ g/mL Mix</u>: Transfer 2.50 mL of the 0.10 μ g/mL mixed standard solution into a 25 mL volumetric flask. Bring to volume with acetonitrile. Mix well.

LC-MS/MS (Calibration) Standard Solutions:

All calibration standard solutions are stored in amber bottles in the freezer when not in use. Solutions are prepared in 5:95 acetonitrile:water, and are considered stable in the freezer for 14 days. Typically, the following concentrations of calibration solutions are prepared:

<u>1.0 pg/ μ L</u>: Transfer 2.50 mL of 0.010 μ g/mL mixed standard solution into a 25 mL volumetric flask. Bring to volume with 5:95 acetonitrile:water. Mix well.

<u>0.50 pg/ μ L</u>: Transfer 1.25 mL of 0.010 μ g/mL mixed standard solution into a 25 mL volumetric flask. Bring to volume with 5:95 acetonitrile:water. Mix well.

<u>0.25 pg/ μ L</u>: Transfer 625 μ L of 0.010 μ g/mL mixed standard solution into a 25 mL volumetric flask. Bring to volume with 5:95 acetonitrile:water. Mix well.

<u>0.10 pg/ μ L</u>: Transfer 250 μ L of 0.010 μ g/mL mixed standard solution into a 25 mL volumetric flask. Bring to volume with 5:95 acetonitrile:water. Mix well.

<u>0.050 pg/ μ L</u>: Transfer 125 μ L of 0.010 μ g/mL mixed standard solution into a 25 mL volumetric flask. Bring to volume with 5:95 acetonitrile:water. Mix well.

V. Analytical Procedure

Principle of Method

Residues of flonicamid (aka IKI-220), 4-trifluoromethylnicotinamide (TFNA-AM), 4trifluoromethylnicotinic acid (TFNA), and *N*-(4-trifluoromethylnicotinoyl) glycine (TFNG) are extracted from samples via sequential shake extractions with a 50/50 water/acetonitrile mixture. The acetonitrile is removed via evaporation, the extract is acidified, the volume is adjusted, and then the samples are cleaned up using C-18 solid phase extraction (SPE). The extracts are then evaporated once more to remove ACN, diluted as necessary, and then analyzed using liquid chromatography coupled with positive-ion electrospray mass spectrometry (LC-MS/MS). The lowest level of method validation (LLMV) is 0.01 ppm and the limit of detection is ten percent below the lowest calibration standard.

Materials and Reagents

Acetonitrile, Optima LC-MS grade, Fisher Methanol, Optima LC-MS grade, Fisher Water, Type I (18.2 MΩcm, Milli-Q) Formic acid LC-MS grade, Thermo Scientific Hydrochloric acid, GR ACS grade, EMD Mega Bond Elut C18 SPE Cartridges, 1g/6mL, Agilent 50 mL polypropylene tubes, Corning Flint glass test tubes, 16 x 100 mm, Fisher 50 mL graduated cylinders, Corning LC column: InfinityLab Poroshell 120 EC-18, 2.1 x 100 mm, 2.7 µm, Agilent Guard column: Poroshell 120 EC-C18, 2.1 x 5 mm, 2.7 µm, Agilent

Method Procedure

1. Extraction

- 1.1. Weigh out 2.5 g of sample into a 50 mL polypropylene tube, fortify at this point for concurrent recovery samples (fortified as a mixture).
- 1.2. Add 40 mL of 50:50 ACN:Water (v:v).
- 1.3. Using a platform shaker, shake the samples for 30 minutes at 200 RPM.
- 1.4. Centrifuge the samples for 5 mins at 4000 RPM, and then decant the extract through a funnel containing Whatman #1 filter paper into a clean TurboVap tube (Note 1).
- 1.5. Add 40 mL of 50:50 ACN:Water to the original sample pellet, and shake using a platform shaker for 30 minutes at 200 RPM.
- 1.6. Centrifuge the samples for 5 mins at 4000 RPM, and pass through the same filter to combine with the step 1.4 extract. Rinse the filter paper with 5 mL of 50:50 ACN:Water.

2. Evaporation

- 2.1. Evaporate the samples using a TurboVap (50°C, 24 PSI) until ~ 30 mL remain (to ensure no ACN is present, approximately 60 minutes, Note 2).
- 2.2. Add 0.50 mL of concentrated HCl to each sample and transfer to a 50 mL graduated cylinder.
- 2.3. Rinse the TurboVap tube twice with 5 mL of Milli-Q water and add to the graduated cylinder. Adjust the volume to 50 mL with additional Milli-Q water and transfer to a 50-mL polypropylene centrifuge tube for storage.

3. C-18 SPE Cleanup

- 3.1. Condition each C-18 cartridge (1g/6mL) with 1 CV of methanol followed by 1 CV of 0.25N HCl in water.
- 3.2. Aliquot 2 mL of sample extract onto the cartridge and load (1-2 drops/sec), discarding the eluate. Briefly use full vacuum to pull all possible solution through the packing.
- 3.3. Elute the analytes (1-2 drops/sec) with 6 mL of 20:80 ACN:Water (v:v) into a glass test tube.
- 3.4. Using a TurboVap LV (45°C, ~12 PSI), evaporate the samples until 4-5 mL remain (approximately 10 minutes, Note 2).
- 3.5. Transfer to a graduated centrifuge tube and bring up to 10 mL with 0.25N HCl in water (Note 3). Submit to LC-MS/MS for analysis.

Modifications

- 1. Filtered samples prior to TurboVap, not after. Onion samples often have loose bits of skin/crop material that float to the surface and should be removed once extraction is completed.
- 2. Reduced sample aliquot size used in SPE from 10 mL to 2 mL. Greater instrument sensitivity allows for less sample extract to be used.
- 3. Removed liquid-liquid partition step after SPE cleanup. Testing showed extract was sufficiently clean after C18 cleanup.

Notes

- 1. Some onion crops possess very fine particle sizes that are more prone to clogging filter paper. To assist in filtration, a Buchner funnel with moderate vacuum may be substituted for gravity filtration.
- 2. May adjust evaporation times to ensure samples are evaporated to the proper remaining volume.
- 3. Typically, fortification samples at LLMV (0.01 ppm) and unknowns will be brought up to a 10 mL final volume using 0.25N HCl in water to approximate a final composition of 5:95 ACN:Water. Further dilution will use 5:95 ACN:Water to maintain approximate composition. Unknown and concurrent fortification sample volumes and dilutions may be adjusted as necessary.

VI. Quantitation:

Calculations:

Prepare a five-point standard curve by injecting constant volumes of standard solutions. Use constant volume injections for sample extracts as well. Sample responses not within 10% of the standard curve require volume adjustment and re-injection. Samples will not be adjusted below the equivalent volume of the LLMV. Inject a calibration standard after every four sample injections. Calculations for instrumental analysis are conducted by Agilent "MassHunter" software to create a standard curve based on linear regression. The regression functions are used to calculate a best fit line (from a set of standard concentrations in $pg/\mu L$ versus peak response) and to determine sample analyte concentrations.

The equation used for the least squares fit is: y = mx + b, where y = peak response, $x = pg/\mu L$ found for peak of interest, m = slope and b = y-intercept. Concurrent recovery samples are control samples fortified with known amounts of analyte prior to extraction.

Percent recovery (if calculated by measuring the peak area) is calculated as shown below:

 $pg/\mu L$ determined x μL injected = actual ppm analyte mg crop injected x 1000 conv. factor

<u>actual ppm analyte</u> x 100 = % Recovery expected ppm analyte

Example Calculation:

Sample: 28857V0.01R9	(Flonicar	nid, 05042021a023.d)
$\frac{0.0909 \text{ pg/}\mu\text{L x 10 injec}}{0.100 \text{ mg x 1000 conv. factor}}$	<u>eted</u> =	0.00909 ppm Flonicamid

<u>0.00909 actual ppm flonicamid</u> x 100 = 91% Recovery 0.0100 expected ppm flonicamid

For expressing in equivalents;

Metabolite residues are expressed as parent equivalents and are calculated by using the formula:

Average ppm * (conversion factor) = ppm found

The conversion factor was calculated using the formula:

Flonicamid MW ÷ metabolite MW = conversion factor

Compound	Molecular Weight (MW)	Conversion Factor
Flonicamid	229.17	
TFNA-AM	190.12	1.205
TFNA	191.11	1.199
TFNG	248.16	0.9235

Instrument Parameters:

Instrumentation:	"Speeder" Agilent 6460 LC-MS/MS
Autosampler:	Agilent 1200 Series
Pumps:	Agilent 1200 Series
Data System:	Agilent MassHunter software (b.06 running on Windows
	7). Data exported to Microsoft Excel.
Mobile Phase:	A = 0.1% formic acid in water
	B = 0.1% formic acid in methanol
Column temperature:	40 °C
Injection size:	10 μL

Gradient Program:

Total Time	Flow Rate	Solvent A (%)	Solvent B (%)
(min)	(mL/min)		
0.00	0.400	98.0	2.0
0.50	0.400	98.0	2.0
2.50	0.400	90.0	10.0
3.50	0.400	90.0	10.0
5.50	0.400	70.0	30.0
6.50	0.400	70.0	30.0
8.50	0.400	2.0	98.0
10.50	0.400	2.0	98.0
10.60	0.400	98.0	2.0
18.00	0.400	98.0	2.0

LC-MS/MS Interface:	ESI + Agilent Jet Stream
Ionization Mode:	Positive
Gas Temperature:	300 °C
Gas Flow:	10 L/min (N ₂)
Nebulizer:	45 psi (N ₂)
Capillary:	3000 V (+)
Sheath Gas Temperature:	300 °C
Sheath Gas Flow:	12 (L/min)
Nozzle Voltage:	500 V

Analyte Parameters:

Compound	Transition	MS1 (m/z)	MS2 (m/z)	Dwell	Frag (V)	CE (V)	~ Rt (min)
TFNA	Quantifier	192.1	148.0	200	45	20	6.0
TFNA	Qualifier	192.1	98.1	200	45	32	6.0
TFNA-AM	Quantifier	191.1	148.0	200	45	20	5.3
TFNA-AM	Qualifier	191.1	98.1	200	45	32	5.3
TFNG	Quantifier	249.2	203.0	200	45	16	7.2
TFNG	Qualifier	249.2	148.0	200	45	28	7.2
Flonicamid	Quantifier	230.2	98.1	200	45	44	7.7
Flonicamid	Qualifier	230.2	148.0	200	45	28	7.7

Diverter Valve Program:

Total Time	Valve Position	Analyte(s)
0.0	Waste	N/A
4.0	MS	TFNA, TFNA-AM
6.6	MS	TFNG, Flonicamid
9.0	Waste	N/A

Needle Wash Program (flushing solution: 0.1% formic acid in 45:45:10 MeOH:ACN:Water):

Step	Action
Wash	Wash needle in flushport for 10s
Draw	Draw default volume from sample with default speed using default offset
Wash	Wash needle in flushport for 10s
Inject	Inject

VII. Results and Discussion:

The fortified sample results are reported below as ppm flonicamid, TFNA-AM, TFNA, TFNG and total flonicamid. For field samples, flonicamid residues are reported as such and metabolite residues are reported as parent equivalents. Summary of results are listed below:

Crop	Spike	Lab Sample ID	Type of	Flonicamid	Average	Recoveries	Average
Fraction	Level		Recovery ¹	Found	ppm	(%)	Recovery
	ppm	2005710 0107	201	ppm		0.5	(%)2
		2885/V0.01R/	MV	0.00948		95	
		2885/V0.01R8	MV	0.00864	4	86	
	0.01	28857V0.01R9	MV	0.00958	0.00020	96	04.6
	0.01	28853C0.01R1	CR	0.00917	0.00939	92	94±6
		28241C0.01R2	CR	0.00907	-	91	
		28861C0.01R3	CR	0.00937		94	
		29148C0.01R4	CR	0.0104		104	
		28857V0.1R4	MV	0.0945	-	94	
Bulbs	0.1	28857V0.1R5	MV	0.0936	0.0943	94	94±1
		28857V0.1R6	MV	0.0948		95	
		28857V1.0R4	MV	0.965		97	
		28857V1.0R5	MV	0.961		96	
		28857V1.0R6	MV	0.969		97	
	1.0	28853C1.0R1	CR	0.987	0.962	99	96±6
		28241C1.0R2	CR	0.851		85	
		28861C1.0R3	CR	1.05		105	
		29148C1.0R4	CR	0.951		95	
		28849V0.01R1	MV	0.00960		96	
		28849V0.01R2	MV	0.00924		92	
	0.01	28849V0.01R3	MV	0.00909	0.00008	91	01+6
	0.01	28265C0.01R1	CR	0.00913	0.00908	91	91±0
		28265C0.01R2	CR	0.00797		80	
		28225C0.01R3	CR	0.00945		94	
		28849V0.1R1	MV	0.0890		89	
Dlauta	0.1	28849V0.1R2	MV	0.0894	0.0007	89	01+2
Plants	0.1	28849V0.1R3	MV	0.0925	0.0907	93	91±2
		28225C0.10R1	CR	0.0920		92	
		28849V1.0R1	MV	0.990		99	
	1.0	28849V1.0R2	MV	0.981	0.987	98	99±1
		28849V1.0R3	MV	0.989	1	99	
		28849V2.0R1	MVE	2.32		116	
	2.0	28849V2.0R2	MVE	2.23	2.20	111	110±7
		28849V2.0R3	MVE	2.05	1	103	1

Table VII.1.1	: Summarv	of Recoveries.	Flonicamid
	• Summary		1 Iomcumu

Crop	Spike	Lab Sample ID	Type of	TFNA-AM	Average	Recoveries	Average
Fraction	Level		Recovery ¹	Found	ppm	(%)	Recovery
	ppm	2005710 0107		ppm		104	(%)²
		2885/V0.01R/	MV	0.0104	4	104	
		28857V0.01R8	MV	0.00948	-	95	
	0.04	28857V0.01R9	MV	0.00940		94	o
	0.01	28853C0.01R1	CR	0.00937	0.00958	94	96±7
		28241C0.01R2	CR	0.00865	-	86	
		28861C0.01R3	CR	0.00916	-	92	
		29148C0.01R4	CR	0.0106		106	
		28857V0.1R4	MV	0.0901		90	
Bulbs	0.1	28857V0.1R5	MV	0.0906	0.0904	91	90±1
		28857V0.1R6	MV	0.0904		90	
		28857V1.0R4	MV	0.935		94	
		28857V1.0R5	MV	0.944		94	
		28857V1.0R6	MV	0.931		93	
	1.0	28853C1.0R1	CR	0.934	0.952	93	95±7
		28241C1.0R2	CR	0.829		83	
		28861C1.0R3	CR	1.05		105	
		29148C1.0R4	CR	1.04		104	
		28849V0.01R1	MV	0.0106		106	
		28849V0.01R2	MV	0.00965		96	
	0.01	28849V0.01R3	MV	0.00905	0.00050	90	05+6
	0.01	28265C0.01R1	CR	0.00919	0.00950	92	95±0
		28265C0.01R2	CR	0.00881		88	
		28225C0.01R3	CR	0.00969		97	
		28849V0.1R1	MV	0.0838		84	
Dissets	0.1	28849V0.1R2	MV	0.0870	0.0002	87	00 1 4
Plants	0.1	28849V0.1R3	MV	0.0892	0.0883	89	88±4
		28225C0.10R1	CR	0.0931		93	
		28849V1.0R1	MV	0.934		93	
	1.0	28849V1.0R2	MV	0.958	0.948	96	95±2
		28849V1.0R3	MV	0.953	1	95	
		28849V2.0R1	MVE	2.17		108	
	2.0	28849V2.0R2	MVE	1.98	2.10	99	105±5
		28849V2.0R3	MVE	2.16	1	108	

Table VII.1.2: Summary of Recoveries, TFNA-AM

Crop	Spike	Lab Sample ID	Type of	TFNA	Average	Recoveries	Average
Fraction	Level	-	Recovery ¹	Found	ppm	(%)	Recovery
	ррт			ppm			(%) ²
		28857V0.01R7	MV	0.00969		97	
		28857V0.01R8	MV	0.00906		91	
		28857V0.01R9	MV	0.00918		92	
	0.01	28853C0.01R1	CR	0.00966	0.00949	97	95±6
		28241C0.01R2	CR	0.00985		98	
		28861C0.01R3	CR	0.00860		86	
		29148C0.01R4	CR	0.01040		104	
		28857V0.1R4	MV	0.0906		91	
Bulbs	0.1	28857V0.1R5	MV	0.0943	0.0924	94	92±2
		28857V0.1R6	MV	0.0924		92	
		28857V1.0R4	MV	0.929		93	
		28857V1.0R5	MV	0.922		92	
		28857V1.0R6	MV	0.949		95	
	1.0	28853C1.0R1	CR	0.985	0.978	99	98±8
		28241C1.0R2	CR	0.908		91	
		28861C1.0R3	CR	1.03		103	
		29148C1.0R4	CR	1.12		112	
		28849V0.01R1	MV	0.0104		104	
		28849V0.01R2	MV	0.00891		89	
	0.01	28849V0.01R3	MV	0.00971	0.00040	97	04+6
	0.01	28265C0.01R1	CR	0.00874	0.00940	87	94±0
		28265C0.01R2	CR	0.00915		91	
		28225C0.01R3	CR	0.00949		95	
		28849V0.1R1	MV	0.0900		90	
Dianta	0.1	28849V0.1R2	MV	0.0861	0.0804	86	<u>80</u> ⊥2
Flains	0.1	28849V0.1R3	MV	0.0913	0.0694	91	89±2
		28225C0.10R1	CR	0.0902		90	
		28849V1.0R1	MV	0.948		95	
	1.0	28849V1.0R2	MV	0.971	0.959	97	96±1
		28849V1.0R3	MV	0.959		96	
		28849V2.0R1	MVE	2.13		107	
	2.0	28849V2.0R2	MVE	2.05	2 10	103	105±2
		28849V2.0R3	MVE	2.13	2.10	106	

Table VII.1.3: Summary of Recoveries, TFNA

Crop	Spike	Lab Sample ID	Type of	TFNG	Average	Recoveries	Average
Fraction	Level	-	Recovery ¹	Found	ppm	(%)	Recovery
	ppm			ppm			(%) ²
		28857V0.01R7	MV	0.0103		103	
		28857V0.01R8	MV	0.0100		100	
		28857V0.01R9	MV	0.00956		96	
	0.01	28853C0.01R1	CR	0.00951	0.00995	95	100±3
		28241C0.01R2	CR	0.0101		101	
		28861C0.01R3	CR	0.00991		99	
		29148C0.01R4	CR	0.0103		103	
		28857V0.1R4	MV	0.102		102	
Bulbs	0.1	28857V0.1R5	MV	0.0984	0.0997	98	100 ± 2
		28857V0.1R6	MV	0.0986		99	
		28857V1.0R4	MV	1.06		106	
		28857V1.0R5	MV	1.10		110	
		28857V1.0R6	MV	1.09		109	
	1.0	28853C1.0R1	CR	1.05	1.09	105	109±6
		28241C1.0R2	CR	0.995		100	
		28861C1.0R3	CR	1.18		118	
		29148C1.0R4	CR	1.13		113	
		28849V0.01R1	MV	0.00922		92	
		28849V0.01R2	MV	0.00917		92	
	0.01	28849V0.01R3	MV	0.00851	0.00020	85	93±5
	0.01	28265C0.01R1	CR	0.0100	0.00929	100	
		28265C0.01R2	CR	0.00904		90	
		28225C0.01R3	CR	0.00982		98	
		28849V0.1R1	MV	0.0982		98	
Plants	0.1	28849V0.1R2	MV	0.0983	0.100	98	100 + 3
1 Idints	0.1	28849V0.1R3	MV	0.102	0.100	102	100±3
		28225C0.10R1	CR	0.103		103	
		28849V1.0R1	MV	1.04		104	
	1.0	28849V1.0R2	MV	1.05	1.05	105	105 ± 2
		28849V1.0R3	MV	1.07		107	
		28849V2.0R1	MVE	2.35		117	
	2.0	28849V2.0R2	MVE	2.27	2.33	114	116±2
		28849V2.0R3	MVE	2.37		118	

Table VII.1.4: Summary of Recoveries, TFNG

 Table VII.2: Residue Data Results

Trial ID	Crop	Field	Lab	Sampling	Extraction	Analysis	Storage		Re	sidue Results (pr	om)	
	Fraction	Sample ID	Sample ID	Date	Date	Date	Interval ¹ (Days)	Flonicamid	TFNA-AM ppmfound/ parent equivalent ²	TFNA ppm found/ parent equivalent ²	TFNG ppmfound/ parent equivalent ²	Total Flonicamid ³
		DBA	28989	12/03/20	05/06/21	05/06/21		< 0.01	< 0.01	< 0.01	< 0.01	
CA*10	Dulha	DBB	28990	12/03/20	N/A	NA						
CA*19	Buids	DBC	28991	12/03/20	05/06/21	05/06/21	154	0.011	< 0.01	0.013/0.016	0.01/0.0092	0.046
		DBD	28992	12/03/20	05/06/21	05/06/21	154	0.012	< 0.01	0.015/0.018	0.01/0.0092	0.050
		C A	20040	08/21/20	05/14/21	05/14/21		< 0.01	< 0.01	< 0.01	< 0.01	
		UA	20049	08/31/20	05/26/21	05/26/21		< 0.01	< 0.01	< 0.01	< 0.01	
CA*20	Plants	GB	28850	08/31/20	N/A	NA						
		GC	28851	08/31/20	05/24/21	05/24/21	266	0.86	0.015/0.018	< 0.01	0.013/0.012	0.90
		GD	28852	08/31/20	05/24/21	05/24/21	266	1.1	0.022/0.027	< 0.01	0.020/0.018	1.2
		DBA	28861	10/02/20	05/25/21	05/25/21		< 0.01	< 0.01	< 0.01	< 0.01	
WA*403	Bulbe	DBB	28862	10/02/20	N/A	NA						
WA 403	Dulos	DBC	28863	10/02/20	05/25/21	05/25/21	235	< 0.01	< 0.01	< 0.01	< 0.01	0.040
		DBD	28864	10/02/20	05/25/21	05/25/21	235	< 0.01	< 0.01	< 0.01	< 0.01	0.040
		DBA	29148	06/07/21	07/20/21	07/2021		< 0.01	< 0.01	< 0.01	< 0.01	
TX380	Bulbs	DBB	29149	06/07/21	N/A	NA						
17,500	Duios	DBC	29150	06/07/21	07/20/21	07/2021	43	0.012	< 0.01	< 0.01	< 0.01	0.042
		DBD	29151	06/07/21	07/20/21	07/2021	43	0.019	< 0.01	< 0.01	< 0.01	0.049
		DBA	28241	06/30/20	05/10/21	05/10/21		< 0.01	< 0.01	< 0.01	< 0.01	
CA16	Bulbe	DBB	28242	06/30/20	N/A	NA						
CAIO	Duios	DBC	28243	06/30/20	05/10/21	05/10/21	314	0.029	< 0.01	< 0.01	0.011/0.010	0.059
		DBD	28244	06/30/20	05/10/21	05/10/21	314	0.021	< 0.01	< 0.01	0.010/0.0092	0.050
		DBA	28304	08/07/20	05/10/21	05/10/21		< 0.01	< 0.01	< 0.01	< 0.01	
CA17	Bulbe	DBB	28305	08/07/20	N/A	NA						
CAI/	Duios	DBC	28306	08/07/20	05/10/21	05/10/21	276	0.026	< 0.01	< 0.01	< 0.01	0.056
		DBD	28307	08/07/20	05/10/21	05/10/21	276	0.031	< 0.01	< 0.01	< 0.01	0.061
		GA	28225	05/11/20	05/24/21	05/24/21		< 0.01	< 0.01	< 0.01	< 0.01	
CA18	Dlanta	GB	28226	05/11/20	N/A	NA						
CAIO	Tiants	GC	28227	05/11/20	05/24/21	05/24/21	378	1.3	0.043/0.052	0.030/0.036	0.046/0.042	1.4
		GD	28228	05/11/20	05/24/21	05/24/21	378	1.4	0.050/0.060	0.038/0.046	0.054/0.050	1.6
		DBA	28857	09/14/20	05/04/21	05/04/21		< 0.01	< 0.01	< 0.01	< 0.01	
ID101	Dulha	DBB	28858	09/14/20	N/A	NA						
10101	Duibs	DBC	28859	09/14/20	05/10/21	05/10/21	238	< 0.01	< 0.01	< 0.01	< 0.01	0.040
		DBD	28860	09/14/20	05/10/21	05/10/21	238	0.010	< 0.01	< 0.01	< 0.01	0.040

1 401		Coluue 1	Data M	suits (com	••)							
Trial ID	Crop	Field	Lab	Sampling	Extraction	Analysis	Storage		Re	sidue Results (pp	m)	
	Fraction	Sample	Sample	Date	Date	Date	Interval ¹	Flonicamid	TFNA-AM	TFNA	TFNG	Total
		ID	ID				(Days)		ppmfound/	ppm found/	ppmfound/	Flonicamid ³
							-		parent	parent	parent	
									equivalent ²	equivalent	equivalent ²	
		DBA	28654	09/08/20	05/25/21	05/25/21		< 0.01	< 0.01	< 0.01	< 0.01	
WA 404	Dulha	DBB	28655	09/08/20	N/A	NA						
WA404	Duios	DBC	28656	09/08/20	05/25/21	05/25/21	259	0.011	< 0.01	< 0.01	< 0.01	0.041
		DBD	28657	09/08/20	05/25/21	05/25/21	259	< 0.01	< 0.01	< 0.01	< 0.01	0.040
		GA	28265	06/11/20	05/19/21	05/19/21		< 0.01	< 0.01	< 0.01	< 0.01	
OD 405	Dlanta	GB	28266	06/11/20	N/A	NA						
08405	Plants	GC	28267	06/11/20	05/19/21	05/19/21	342	0.68	0.015/0.018	0.013/0.016	< 0.01	0.72
		GD	28268	06/11/20	05/19/21	05/19/21	342	0.71	0.012/0.014	0.014/0.017	< 0.01	0.75
		DBA	28853	08/23/20	05/06/21	05/06/21		< 0.01	< 0.01	< 0.01	< 0.01	
CO461	Dulba	DBB	28854	08/23/20	N/A	NA						
00401	Dulos	DBC	28855	08/23/20	05/06/21	05/06/21	256	0.13	< 0.01	<0.01	< 0.01	0.16
		DBD	28856	08/23/20	05/06/21	05/06/21	256	0.11	< 0.01	< 0.01	< 0.01	0.14

Table VII 2. Residue Data Results (cont.)

N/A=Not Analyzed ¹Storage Interval calculated from sampling to extraction of treated samples ²Parent equivalent shown for treated samples with residues ≥LLMV.

³Total=flonicamid + TFNA-AM + TFNA + TFNG (metabolites in parent equivalents); for residues <LLMV a value of 0.01 is used to calculate the total

ATTACHMENT A: INDEX TO REPRESENTATIVE CHROMATOGRAMS

Fle	onicamid	Page
A.	Standards	
B.	Miscellaneous Controls	
	Bulbs	
	Plants	
C.	Fortified Recoveries	
	Bulbs	
	Plants	
D.	Treated Samples	
	- Bulbs	
	Plants	

Each chromatogram represents a 10.0 µL injection.

An asterisk (*) next to the retention time on a chromatogram indicates that the peak was manually integrated.

e 657-2713_008.d e 687-27110.0.05 pg/µL b Calibration		Ê				(e)		
Data File Sample Nam Sample Type 042021a_008	24 min. 14-AM	5.4 5.6 isition Time (m	5042021a_000 57 min. 564 3.64	isition Time (m	504zuz 1a_uu 25 min.	7.4 7 1.2 7.4 7 1.2 T.4 7 Lisition Time (n	5042021a_008	35 min. icamid 9.73
110		a 2	O OFER	691	7.2	cd 1 4-	30 (1	Flor 33
2011/11 18:03 201550_EST_POS.m Vial 5 5 1 -> 148.0) 05	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5- Acc	.1 -> 148.0 .6	.6 5.8 A	2 -> 203.0	5.8 2.8	0.2 -> 98.	

a. 009 5.6 a. 009 a. 009 5.6 a. 009 file (min) a. 009 file (min)		
a_009 a_009 a_009 a_009 a_009		







Printed at: 9:43 AM on: 5/5/2021















6 (min)	013	6.4 6.1	013	7.6 e (min)	013.d
Time	021a	6.2 5 Time	021a	7.4 Tim	021a_(
5.4	142	sitio	142	Sitio	1420
5.2 5.4 Acquisition	48.0) 05142	.8 6 Acquisitio	203.0) 05142	7 7.2 Acquisition	98.1) 051420
	e (min)	e min) J13	e (min) 6.4 6.4	6 (min) 013	6 (min) 013 013

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Data File Data File Dista File Sample Name 2889000101 5142021a_018 5142021a_018			
	118.4		




























Data File 05352021a_059.4 Sample Vype Sample Sample Sample Vype 55021a_029 5.4 5.4 5.6 tion Time (min) 11.1								
	Data File 05253021a_029.d Sample Name 28656 Sample Type Sample	52021a_029	5.4 5.6 tion Time (min)	52021a_029	ain. 6.2 6.4 itton Time (min)	252021a_029	7.4 7.6 ition Time (min)	







213_021.4	Data File Signola Old Sample Type Sample Type 51920213_0211_0211 51920213_0211_0211 51920213_0211_0211_ 51920213_0211_0211_ 51920213_0211_0211_ 51920213_0211_0211_ 51920213_0211_0211_
	Data File Data File 0519 Sample Type 0519 Sample Type 05192 Sample Type 05100 Sample Type 051000Samp<

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ATTACHMENT B: DATA SUMMARIES AND STANDARD CURVES

550 - Flonicamid/Onion - F	1ethod Validation	1 - Dry Bulb - Extracted 5/4/202	21 by ASM													
				Sample	H	nj Vol				1	Conc				Ave %	1
Data File	RT	SampleName	Sample Info	Type /	fial Pos	(11)	5	nL Vol	ini gm	Resp	(Jul/6d)	bpm	Ave ppm	% Kec	Kec	201
05042021a_001.d	7.830	Condition		Sample	P1-A3	10.0										
05042021a_002.d	7.721	Condition		Sample	P1-A3	10.0										
05042021a_003.d	7.721	Condition		Sample	P1-A3	10.0										
05042021a_004.d	7.721	Condition		Sample	P1-A3	10.0										
05042021a_005.d	7.721	Condition		Sample	P1-A3	10.0										
05042021a_006.d	7.721	Condition		Sample	P1-A3	10.0										
05042021a_007.d	7.735	Condition		Sample	P1-A3	10.0										
05042021a_008.d	7.735	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				39.73						
05042021a_009.d	7.721	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				73.08						
05042021a_010.d	7.735	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				176.93						
05042021a_011.d	7.721	687-2M7 0.50 pg/µL		Calibration	Vial 2	10.0				369.70						
05042021a_012.d	7.721	687-2M6 1.0 pg/µL		Calibration	Vial 1	10.0				718.72						
05042021a 013.d	1	28857	DBA-ID181	Sample	P1-A1	10.0	0.100	10.0	0.1000		<0.10	<0.01				
05042021a 014.d		28857	DBA-ID181	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01	<0.01			
05042021a_015.d		Reagent	Blank	Sample	P1-A2	10.0	0.100	10.0	0.1000	ļ	<0.10	<0.01				
05042021a_016.d	-	Reagent	Blank	Sample	P1-A2	10.0	0.100	10.0	0.1000	I	<0.10	<0.01	<0.01			
05042021a_017.d	7.721	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				72.91						
05042021a_018.d	7.735	28857V0.01R7	DBA-ID181	Sample	P1-A3	10.0	0.100	10.0	0.1000	68.09	0.0994	0.0099				
05042021a_019.d	7.735	28857V0.01R7	DBA-ID181	Sample	P1-A3	10.0	0.100	10.0	0.1000	61.45	2060.0	0600.0	0.00948	92%		
05042021a_020.d	7.735	28857V0.01R8	DBA-ID181	Sample	P1-A4	10.0	0.100	10.0	0.1000	57.64	0.0849	0.0085				
05042021a_021.d	7.721	28857V0.01R8	DBA-ID181	Sample	P1-A4	10.0	0.100	10.0	0.1000	59.81	0.0880	0.0088	0.00864	86%		
05042021a_022.d	7.735	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				169.93						
05042021a_023.d	7.735	28857V0.01R9	DBA-ID181	Sample	P1-A5	10.0	0.100	10.0	0.1000	61.97	6060.0	1600.0				
05042021a_024.d	7.735	28857V0.01R9	DBA-ID181	Sample	P1-A5	10.0	0.100	10.0	0.1000	69.03	0.1007	0.0101	0.00958	96%	92%	
05042021a_025.d	7.721	28857V0.1R4	DBA-ID181	Sample	P1-A6	10.0	0.100	40.0	0.0250	161.09	0.2282	0.0913				
05042021a_026.d	7.721	28857V0.1R4	DBA-ID181	Sample	P1-A6	10.0	0.100	40.0	0.0250	172.63	0.2442	120.0	0.0945	94%		
05042021a_027.d	7.735	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				67.88						
05042021a_028.d	7.735	28857V0.1R5	DBA-ID181	Sample	P1-A7	10.0	0.100	40.0	0.0250	161.83	0.2293	0.0917		1997		
05042021a_029.d	7.721	28857V0.1R5	DBA-ID181	Sample	P1-A7	10.0	0.100	40.0	0.0250	168.72	0.2388	0.0955	0.0936	94%		
05042021a_030.d	7.735	28857V0.1R6	DBA-ID181	Sample	P1-A8	10.0	0.100	40.0	0.0250	168.27	0.2382	0.0953				
05042021a_031.d	7.735	28857V0.1R6	DBA-ID181	Sample	P1-A8	10.0	0.100	40.0	0.0250	166.70	0.2360	0.0944	0.0948	92%	94%	
05042021a_032.d	7.735	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				163.41						
05042021a_033.d	7.735	28857V1.0R4	DBA-ID181	Sample	P1-A9	10.0	0.100	400.0	0.0025	158.34	0.2244	0.8976				
05042021a_034.d	7.735	28857V1.0R4	DBA-ID181	Sample	P1-A9	10.0	0.100	400.0	0.0025	182.75	0.2582	1.0329	0.965	6/6/6		
05042021a_035.d	7.735	28857V1.0R5	DBA-ID181	Sample	P1-B1	10.0	0.100	400.0	0.0025	165.00	0.2336	0.9346				
05042021a_036.d	7.735	28857V1.0R5	DBA-ID181	Sample	P1-B1	10.0	0.100	400.0	0.0025	174.69	0.2471	0.9883	0.961	%96		
05042021a_037,d	7.735	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				73.12						
05042021a_038.d	7.735	28857V1.0R6	DBA-ID181	Sample	P1-B2	10.0	0.100	400.0	0.0025	163.35	0.2314	0.9254		1		
05042021a_039.d	7.735	28857V1.0R6	DBA-ID181	Sample	P1-B2	10.0	0.100	400.0	0.0025	179.23	0.2534	1.0134	0.969	9/0/6	%16	
05042021a_040.d	7.735	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				163.89						
Colored I OD at 0.04																
Calculated LUD at V.V.	= Trl/bd c	- 67														

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0.0500

0.1000 0.1000

67.88 73.12 39.73

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Calibration

Calibration

Calibration Calibration

> D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05042021\05042021a_027.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05042021\05042021a_037.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05042021\05042021a_008.d

Data File	RT	SampleName	Sample Info	Sample Type	Vial Pos	Inj Vol (uL)		mL Vol	ini Ini	Resp	Conc (pq/uL)	mqq	Ave ppm	% Rec	Ave %	Std Dev
05042021a 001.d	5.406	Condition		Sample	P1-A3	10.0	1									
05042021a_002.d	5.311	Condition		Sample	P1-A3	10.0										
05042021a_003.d	5.324	Condition		Sample	P1-A3	10.0										
05042021a_004.d	5.324	Condition		Sample	P1-A3	10.0										
05042021a_005.d	5.324	Condition		Sample	P1-A3	10.0										
05042021a_006.d	5.324	Condition		Sample	P1-A3	10.0										
05042021a_007.d	5.324	Condition		Sample	P1-A3	10.0										
05042021a_008.d	5.324	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				102.78						
05042021a_009.d	5.324	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				193.12						
05042021a_010.d	5.324	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				493.80						
05042021a_011.d	5.311	687-2M7 0.50 pg/µL		Calibration	Vial 2	10.0				1002.01						
05042021a_012.d	5.297	687-2M6 1.0 pg/µL		Calibration	Vial 1	10.0				1996.77						
05042021a_013.d	+	28857	DBA-ID181	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01				
05042021a_014.d	ļ	28857	DBA-ID181	Sample	P1-A1	10.0	0.100	10.0	0,1000	-	<0.10	<0.01	<0.01			
05042021a_015.d	1	Reagent	Blank	Sample	P1-A2	10.0	0.100	10.0	0.1000	L	<0.10	<0.01				
05042021a_016.d	ł	Reagent	Blank	Sample	P1-A2	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01			
05042021a_017.d	5.324	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				191.24						
05042021a_018.d	5.324	28857V0.01R7	DBA-ID181	Sample	P1-A3	10.0	0.100	10.0	0.1000	176.92	0.1055	0.0106				
05042021a_019.d	5.324	28857V0.01R7	DBA-ID181	Sample	P1-A3	10.0	0.100	10.0	0.1000	171.34	0.1028	0.0103	0.01041	104%		
05042021a_020.d	5.324	28857V0.01R8	DBA-ID181	Sample	P1-A4	10.0	0.100	10.0	0.1000	161.74	0860.0	0.0098				
05042021a_021.d	5.324	28857V0.01R8	DBA-ID181	Sample	P1-A4	10.0	0.100	10.0	0.1000	148.76	0.0916	0.0092	0.00948	95%		
05042021a_022.d	5.324	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				403.15						
05042021a 023.d	5.324	28857V0.01R9	DBA-ID181	Sample	P1-A5	10.0	0.100	10.0	0.1000	148.70	0.0916	0.0092				
05042021a_024.d	5.324	28857V0.01R9	DBA-ID181	Sample	P1-A5	10.0	0.100	10.0	0.1000	158.50	0.0964	0.0096	0.00940	94%	%86	6%9
05042021a_025.d	5.324	28857V0.1R4	DBA-ID181	Sample	P1-A6	10.0	0.100	40.0	0.0250	423.98	0.2278	0.0911				
05042021a_026.d	5.324	28857V0.1R4	DBA-ID181	Sample	P1-A6	10.0	0.100	40.0	0.0250	413.55	0.2226	0.0890	1060.0	%06		
05042021a_027.d	5.324	687-2M9 0.10 pg/pl		Calibration	Vial 4	10.0				157.93						
05042021a_028.d	5.324	28857V0.1R5	DBA-ID181	Sample	P1-A7	10.0	0.100	40.0	0.0250	414.24	0.2230	0.0892				
05042021a_029.d	5.324	28857V0.1R5	DBA-ID181	Sample	P1-A7	10.0	0.100	40.0	0.0250	428.59	0.2301	0.0920	0.0906	91%		
05042021a_030.d	5.324	28857V0.1R6	DBA-ID181	Sample	P1-A8	10.0	0.100	40.0	0.0250	418.60	0.2251	0060.0				
05042021a_031.d	5.324	28857V0.1R6	DBA-ID181	Sample	P1-A8	10.0	0.100	40.0	0.0250	422.43	0.2270	8060.0	0.0904	%06	%06	%0
05042021a_032.d	5.324	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				421.09						
05042021a_033.d	5.324	28857V1.0R4	DBA-ID181	Sample	P1-A9	10.0	0.100	400.0	0.0025	437.06	0.2342	0.9370				
05042021a_034.d	5.324	28857V1.0R4	DBA-ID181	Sample	P1-A9	10.0	0.100	400.0	0.0025	435.25	0.2334	0.9334	0.935	94%		
05042021a_035.d	5.324	28857V1.0R5	DBA-ID181	Sample	P1-B1	10.0	0.100	400.0	0.0025	431.43	0.2315	0.9259				
05042021a_036.d	5.324	28857V1.0R5	DBA-ID181	Sample	P1-B1	10.0	0.100	400.0	0.0025	449.39	0.2403	0.9614	0.944	94%		
05042021a_037.d	5.324	587-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				177.42						
05042021a_038.d	5.324	28857V1.0R6	DBA-ID181	Sample	P1-B2	10.0	0.100	400.0	0.0025	428.56	0.2300	0.9202				
05042021a_039.d	5.324	28857V1.0R6	DBA-ID181	Sample	P1-B2	10.0	0.100	400.0	0.0025	439.86	0.2356	0.9425	0.931	93%	94%	1%
05042021a_040.d	5.324	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				422.69						
Calculated LOD at 0.045	= Trl/bd	55														
Calculated LOQ at 0.10	= \r/bc	166														
"" denotes response	below area thresh	plot														

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5/5/21 april

Injection Date Compound TFNA-AM 08550 - Flonicamit

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	Method Validation	1 - Dry Bulo - Exuacted 2/4/20.	MICH AD 17													
				Sample		Inj Vol					Conc			10, 1000	Ave %	00 040
Data File	RT	SampleName	Sample Info	Iype	Vial Pos	(hr)	D	ML VOI	fur 6m	Kesp	(hd/hr)	mdd	ave ppm	70 Ker	Yer	
05042021a_001.d	6.119	Condition		Sample	P1-A3	10.0										
05042021a_002.d	6.037	Condition		Sample	P1-A3	10.0										
05042021a_003.d	6.037	Condition		Sample	P1-A3	10.0										
05042021a_004.d	6.037	Condition		Sample	P1-A3	10.0										
05042021a_005.d	6.037	Condition		Sample	P1-A3	10.0										
05042021a_006.d	6.051	Condition		Sample	P1-A3	10.0										
05042021a_007.d	6.051	Condition		Sample	P1-A3	10.0										
05042021a_008.d	6.037	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				33.64						
05042021a_009.d	6.024	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				60.43						
05042021a_010.d	6.024	687-2M8 0.25 pg/pL		Calibration	Vial 3	10.0				157.78						
05042021a_011.d	6.010	687-2M7 0.50 pg/µL		Calibration	Vial 2	10.0				315.14						
05042021a_012.d	5.997	687-2M6 1.0 pg/µL		Calibration	Vial 1	10.0				647.32						
05042021a 013.d	-	28857	DBA-ID181	Sample	P1-A1	10.0	0.100	10.0	0.1000		<0.10	<0.01				
05042021a_014.d		28857	DBA-ID181	Sample	P1-A1	10.0	0.100	10.0	0.1000	l	<0.10	<0.01	<0.01			
05042021a_015.d	-	Reagent	Blank	Sample	P1-A2	10.0	0.100	10.0	0.1000	1	<0.10	<0.01				
05042021a_016.d	I	Reagent	Blank	Sample	P1-A2	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01			
05042021a 017.d	6.024	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				67.13						
05042021a_018.d	6.051	28857V0.01R7	DBA-ID181	Sample	P1-A3	10.0	0.100	10.0	0.1000	57.43	0.0972	1600.0				
05042021a_019.d	6.051	28857V0.01R7	DBA-ID181	Sample	P1-A3	10.0	0.100	10.0	0.1000	57.02	0.0965	0.0097	0.00969	%26		
05042021a_020.d	6.051	28857V0.01R8	DBA-ID181	Sample	P1-A4	10.0	0.100	10.0	0.1000	58.69	1660.0	0.0099				
05042021a_021.d	6.037	28857V0.01R8	DBA-ID181	Sample	P1-A4	10.0	0.100	10.0	0.1000	47.60	0.0820	0.0082	90600.0	91%		
05042021a_022.d	6.024	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				144.49						
05042021a_023.d	6.051	28857V0.01R9	DBA-ID181	Sample	P1-A5	10.0	0.100	10.0	0.1000	53.98	0.0919	0.0092				
05042021a_024.d	6.051	28857V0.01R9	DBA-ID181	Sample	P1-A5	10.0	0.100	10.0	0.1000	53.89	0.0917	0.0092	0.00918	92%	93%	
05042021a_025.d	6.037	28857V0.1R4	DBA-ID181	Sample	P1-A6	10.0	0.100	40.0	0.0250	146.29	0.2344	0.0938				
05042021a_026.d	6.037	28857V0.1R4	DBA-ID181	Sample	P1-A6	10.0	0.100	40.0	0.0250	135.94	0.2184	0.0874	9060.0	91%		
05042021a_027.d	6.024	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				59.56						
05042021a_028.d	6.037	28857V0.1R5	DBA-ID181	Sample	P1-A7	10.0	0.100	40.0	0.0250	146.07	0.2341	0.0936				
05042021a_029.d	6.037	28857V0.1R5	DBA-ID181	Sample	P1-A7	10.0	0.100	40.0	0.0250	148.37	0.2376	0.0951	0.0943	94%		
05042021a_030.d	6.037	28857V0.1R6	DBA-ID181	Sample	P1-A8	10.0	0.100	40.0	0.0250	146.86	0.2353	0.0941				
05042021a_031.d	6.037	28857V0.1R6	DBA-ID181	Sample	P1-A8	10.0	0.100	40.0	0.0250	141.37	0.2268	2060.0	0.0924	92%	92%	
05042021a_032.d	6.024	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				151.58						
05042021a_033.d	6.037	28857V1,0R4	DBA-ID181	Sample	P1-A9	10.0	0.100	400.0	0.0025	140.39	0.2253	0.9012				
05042021a_034.d	6.037	28857V1.0R4	DBA-ID181	Sample	P1-A9	10.0	0.100	400.0	0.0025	149.30	0.2391	0.9563	0.929	93%		
05042021a_035.d	6.037	28857V1.0R5	DBA-ID181	Sample	P1-B1	10.0	0.100	400.0	0.0025	152.62	0.2442	0.9768				
05042021a_036.d	6.037	28857V1.0R5	DBA-ID181	Sample	P1-B1	10.0	0.100	400.0	0.0025	135.01	0.2170	0.8680	0.922	92%		
05042021a_037.d	6.024	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				62.55						
05042021a_038.d	6.037	28857V1.0R6	DBA-ID181	Sample	P1-B2	10.0	0.100	400.0	0.0025	147.36	0.2361	0.9443				
O5042021a_039.d	6.037	28857V1.0R6	DBA-ID181	Sample	P1-B2	10.0	0.100	400.0	0.0025	148.72	0.2382	0.9527	0.949	92%	93%	
05042021a_040.d	6.024	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				149.97						
Calculated LOD at 0.04	5 no/ul =	24														
	- 164															

IR-4 Western Region Laboratory, University of California, Davis

5/5/21 asm

Farget Compound	CurveFit fitLinear	Weighting weightEqual	Integrator Agile	Smoothing Gaussian	Smooth	ingFunctio	nWidth	SmoothingGaus	sianWidth 5
TFNA - 5 Levels, 5 extraction extrent extractin <	Levels Used 7.450333 * x 0.99884135 inear, Origin:	l, 11 Points, 11 - 5.488503 Ignore, Weight:	Points Used, None	0 QCs					
Res				5/5/21 am					
2.5 − 2.5 −									
1.5 - 0.5									
0	0.05 0.1 0.	.15 0.2 0.25	0.3 0.35 0.	4 0.45 0.5 0.	55 0.6	0.65 0.7	0.75 0.8	0.85 0.9 0.95 Concent	1 1.05 tration (ng/ml)
Calibration STD				ð	al Type	Level	Enabled	Response	Exp Conc
D:\MassHunter\Flonicamit	J\08550_Onion\Da	ata\Results\0504202	1\05042021a_012.	d Q	alibration	1	D	647.32	1.0000
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Calibration Calibration

O D	202/4/0																
Dariely (0000013,0014) Tay (0000013,0014) Tay	3550 - Flonicamid/Onion -	Method Validatio	n - Dry Bulb - Extracted 5/4/20:	21 DY ASM													
Duritie Name Sample into Type Variation Optimization Sample into					Sample		Inj Vol					Conc				Ave %	
Concent. J 21 Condine same P.43 100 Concent. J 21 Condine same P.44 100 Concent. J 21 Condine same P.44 100 Concent. J 21 Condine same P.44 100 Concent. J 21 Concent. J 21 Condine same P.44 100 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Concent. J 21 Conce	Data File	RT	SampleName	Sample Info	Type	Vial Pos	(11)	6	IL Vol	ini gm	Resp	(bg/µL)	mdd	Ave ppm	% Rec	Rec	Std Dev
0000001/001 212 Condin SNM F/A 100 0000023/0014 223 Condin SNM F/A 100 0000023/0014 723 Condin SNM F/A 100 0000023/0014 723 Grantin SNM F/A 100 0000023/014 723 Grantin SNM F/A 100 F/A 0000023/014 710 2000 100 100 100 100 100 0000023/014 710 2000 100 100 100 100 100 100 0000023/014 710 2000 100 100 100 100 100 100 0000023/014 710 2000 100 100 <td< td=""><td>05042021a_001.d</td><td>7.321</td><td>Condition</td><td></td><td>Sample</td><td>P1-A3</td><td>10.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	05042021a_001.d	7.321	Condition		Sample	P1-A3	10.0										
0900001.0014 7.22 Condine Sample P1-43 100 0900002.0014 7.23 Sec7-990 L0 F0/101 P1-43 100 0900002.0014 7.23 Sec7-990 L0 F0/101 P1-43 100 0900002.0114 7.23 Sec7-990 L0 F0/101 P1-43 100 0900002.0114 7.23 Sec7-990 L0 F0/101 P1-41 100 100 100 100 0900002.0114 7.23 Sec7-990 L0 F0/101 P2-41 100 1	05042021a_002.d	7.212	Condition		Sample	P1-A3	10.0										
0502013.0014 7235 000000 Sample P-A3 000 050203.0014 7235 657-900 05900 74.00 70.00 050203.0014 7235 657-900 05900 74.00 70.00 050203.0014 7235 657-900 05900 74.00 74.00 74.00 050203.0114 713 657-900 05000 74.00 74.00 74.00 74.00 050203.0114 713 657-900 05000 74.00 74.00 74.00 74.00 74.00 050203.0124 71.00 657-900 05000 74.00 74.00 74.00 74.00 74.00 050203.0124 72.22 657-900 05000 74.00 74.00 74.00 74.00 74.00 74.00 050203.0124 72.22 657-900 10.00 72.00 74.00 74.00 74.00 74.00 74.00 050203.0124 72.22 657-90 10.00 10.00 10.00 10.00	05042021a_003.d	7.212	Condition		Sample	P1-A3	10.0										
C C C C C C C C C C C C C C C C C C C	05042021a_004.d	7.225	Condition		Sample	P1-A3	10.0										
Operation Same P-V3 DD Operating DMA 7.33 Condition 89:3 DD Operating DMA 7.33 Geneting DMA 7.34 Geneting DMA Operating DMA 7.33 Geneting DMA 7.34 Geneting DMA Operating DMA 7.33 Geneting DMA 7.34 Geneting DMA Operating DMA 7.34 Geneting DMA 7.34 Geneting DMA Operating DMA 7.34 Geneting DMA 7.34 Geneting DMA Operating DMA 667-764 7.34 7.34 4.01 4.01 Operating DMA 7.34 7.34 7.34 4.01 4.01 4.01 Operating DMA 7.34 7.34 7.34 7.34 4.01 7.01	05042021a_005.d	7.212	Condition		Sample	P1-A3	10.0										
Operate and constrained State Prival Dial Constrained Prival	05042021a_006.d	7.212	Condition		Sample	P1-A3	10.0										
OSCODIA (0.04 7.25 697-96 (1) ported (1) Colmano (1) Vol 100 130 130 130 0500701, 0.01 7.13 697-96 (1) ported (1) Colmano (1) Vol 100 <t< td=""><td>05042021a_007.d</td><td>7.225</td><td>Condition</td><td></td><td>Sample</td><td>P1-A3</td><td>10.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	05042021a_007.d	7.225	Condition		Sample	P1-A3	10.0										
OSCOLLAGION 121 SPAROLLORIA Colmenon W13 100 1100 </td <td>05042021a_008.d</td> <td>7.225</td> <td>687-2M10 0.05 pg/pL</td> <td></td> <td>Calibration</td> <td>Vial 5</td> <td>10.0</td> <td></td> <td></td> <td></td> <td>43.87</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	05042021a_008.d	7.225	687-2M10 0.05 pg/pL		Calibration	Vial 5	10.0				43.87						
Operation 1213 667-396 0.5 m/d mode 100<	05042021a_009.d	7.212	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				81.09						
09000010 111 667-941 050/1 111 990001 9110 <td>05042021a_010.d</td> <td>7.212</td> <td>687-2M8 0.25 pg/µL</td> <td></td> <td>Calibration</td> <td>Vial 3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td>196.76</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	05042021a_010.d	7.212	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				196.76						
Obsertial 118 Genome 041 100 </td <td>05042021a_011.d</td> <td>7.212</td> <td>687-2M7 0.50 pg/pL</td> <td></td> <td>Calibration</td> <td>Vial 2</td> <td>10.0</td> <td></td> <td></td> <td></td> <td>393,18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	05042021a_011.d	7.212	687-2M7 0.50 pg/pL		Calibration	Vial 2	10.0				393,18						
G9602010	05042021a_012.d	7.198	687-2M6 1.0 pg/µL		Calibration	Vial 1	10.0				803.06						
Biological Dial	05042021a 013.d	1	28857	DBA-ID181	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01				
OSACRIA_OIS	05042021a 014.d	ļ	28857	DBA-ID181	Sample	P1-A1	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01			
Gordnia_0164 Regent Bind Symple 1 Conditia_010 C	05042021a_015.d	1	Reagent	Blank	Sample	P1-A2	10.0	0.100	10.0	0.1000		<0.10	<0.01				
0594201a 013 725 687-980 0.0 mg/kl Net 789 Net 0594201a 014 721 3857/00187 084-1081 5897/00187 084-1081 5897 0109 01097 01097 01097 01097 01097 01097 01095 01095 01095 01095 01095 01095 01095 01096	05042021a 016.d	1	Reagent	Blank	Sample	P1-A2	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01			
0547021a 012 2857V00187 084-10181 Same P1-43 010 0100 71.60 00075 00103	05042021a_017.d	7.225	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				78.98						
0597021a 012 285770018 084/1018 5mmle 1+,4 100 100 71,6 00375 00075 00103 10135 00335 00135 00135 <	05042021a_018.d	7.212	28857V0.01R7	DBA-ID181	Sample	P1-A3	10.0	0.100	10.0	0.1000	79.87	0.1078	0.0108				
G697031a 0212 28857V0.018 DeA-1018 sample P1-44 10.0 0.100 7.74 0.1014 0.1014 0.1016 10.74 0.0100 10.005 0592032a 023-01 7.22 28857V0.0189 DeA-10181 sample P1-44 10.0 0.100 7.70 0.0991 0.0005 0.0105 0.0055 96% 99% 4% 0592032a 023-4 7.22 28857V0.0189 DeA-10181 Sample P1-45 10.0 0.100 0.100 0.1005 0.0055 96% 99% 4% 0592032a 7235 28857V0.168 DeA-10181 Sample P1-46 10.0 0.100 0.1005 0.0105 </td <td>05042021a_019.d</td> <td>7.225</td> <td>28857V0.01R7</td> <td>DBA-ID181</td> <td>Sample</td> <td>P1-A3</td> <td>10.0</td> <td>0.100</td> <td>10.0</td> <td>0.1000</td> <td>71.60</td> <td>0.0975</td> <td>0.0097</td> <td>0.0103</td> <td>103%</td> <td></td> <td></td>	05042021a_019.d	7.225	28857V0.01R7	DBA-ID181	Sample	P1-A3	10.0	0.100	10.0	0.1000	71.60	0.0975	0.0097	0.0103	103%		
0594201a 7.12 28857V0.018 D84-1D181 Sample F1-4 10.0 10.0 10.00 7.258 0.0099 0.0010 10.0% 10.0% 0594201a 7.225 687-2980.0.559 7.225 6887-700.189 D84-1D181 Sample F1-45 10.0 10.00 7.009 0.0099 0.0009 0.0005 9% 4% 05942021a 7.225 28857V0.0189 D84-1D181 Sample F1-45 10.0 0.100 67.00 0.099 0.0005 9% 4% 05942021a 7.225 28857V0.0189 D84-1D181 Sample F1-46 10.0 0.100 7.24 0.099 0.0005 9% 9% 4% 05942021a 7.225 28857V0.185 D84-1D181 Sample F1-47 10.0 0.100 7.24 0.020 0.1026 9% 9% 6% 9% 6% 9% 4% 0594201a 7225 28857V0.185 D84-1D181 Sample F1-47 10.0	05042021a_020.d	7.212	28857V0.01R8	DBA-ID181	Sample	P1-A4	10.0	0.100	10.0	0.1000	74.74	0.1014	0.0101				
Gorandia (02.14) (2.12) 667-206 (3.13)	05042021a_021.d	7.212	28857V0.01R8	DBA-ID181	Sample	P1-A4	10.0	0.100	10.0	0.1000	72.86	0660.0	0.0099	0.0100	100%		
069/2031_024d 7.25 28857/00189 D6A-10181 Sample P1-45 10.0 0.100 7.10 0.0091 0.0002 0.969 96% 99% 4% 069/2031_2_024d 7.22 28857/0.1181 Sample P1-46 10.0 0.100 7.14 0.0091 0.0005 96% 99% 4% 069/2031_2_026d 7.22 28857/0.1181 Sample P1-46 10.0 0.100 7.14 0.0091 0.000 50.00 0.102 102% 0.102% 103% 101%	05042021a_022.d	7.212	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				181.79						
059A3D3a_023.d 7.225 28857V0.0189 D8A-1D181 Sample P1-45 10.0 0.000 0.714 0.0094 0.0095 6.56% 99% 47% 059A3D73a_025.d 7.222 28857V0.1184 D8A-1D181 Sample P1-46 10.0 0.100 0.0105 0.403 0.0035 0.403 0.	05042021a_023.d	7.225	28857V0.01R9	DBA-ID181	Sample	P1-A5	10.0	0.100	10.0	0.1000	67.00	0.0918	0.0092				
05042021a 7.212 28857V0.1R4 DBA-ID181 Sample P1-46 10.0 0.100 0.00250 19-435 0.2501 0.1000 0.100 0.100 0.00250 19-435 0.00250 10-301 0.1002	05042021a_024.d	7.225	28857V0.01R9	DBA-ID181	Sample	P1-A5	10.0	0.100	10.0	0.1000	73.14	0.0994	6600.0	0.00956	%96	%66	4%
05042021a 7.225 28857/0.1184 DBA-ID181 Sample P1-46 10.0 0.010 0.0136 0.1358 0.1358 0.1035 0.102 0.102 10.02 0.0236 0.102 0.0135 0.102 0.0236 0.102 0.0035 0.0136 0.0136 0.0136 0.0136 0.0126 0.0136 0.0126 0.0136 0.0126 0.0136 0.0126 0.0136 0.0126 0.0136 0.0136 0.0136 0.0126	05042021a_025.d	7.212	28857V0.1R4	DBA-ID181	Sample	P1-A6	10.0	0.100	40.0	0.0250	194.35	0.2501	0.1000				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05042021a_026.d	7.225	28857V0.1R4	DBA-ID181	Sample	P1-A6	10.0	0.100	40.0	0.0250	201.38	0.2588	0.1035	0.102	102%		
05942021a_028.d 7.22 28857V0.1R5 DBA-ID181 Sample P1-A7 10.0 0.00250 155.65 0.1012 05942021a_023.d 7.225 28857V0.1R5 DBA-ID181 Sample P1-A7 10.0 0.100 0.00250 155.65 0.2371 0.0948 98% 05942021a_033.d 7.225 28857V0.1R6 DBA-ID181 Sample P1-A8 10.0 0.100 0.1025 155.68 0.2371 0.0948 98% 98% 05942021a_033.d 7.212 28857V0.1R6 DBA-ID181 Sample P1-A8 10.0 0.100 0.1025 0.2371 0.0948 0.0966 99% 100% 29 05942021a_033.d 7.212 28857V1.0R4 DBA-ID181 Sample P1-A9 10.0 0.100 0.0025 18.245 0.731 1.096 99% 100% 59 05942021a_035.d 7.212 28857V1.0R4 DBA-ID181 Sample P1-A9 10.0 0.100 0.0025 10.031 1.06 1.06	05042021a_027.d	7.225	587-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				68.14						
05042021a_029.d 7.225 28857V0.1R5 DBA-ID181 Sample P1-A7 10.0 0.100 40.0 0.0250 185.68 0.2333 0.0957 0.0984 98% 05042021a_030.d 7.225 28857V0.1R6 DBA-ID181 Sample P1-A8 10.0 0.100 40.0 0.0250 199.05 0.0947 0.0984 98% 05042021a_033.d 7.212 687-2M0.164 DBA-ID181 Sample P1-A8 10.0 40.0 0.0255 0.1269 10.964 0.09% 99% 100% 05042021a_033.d 7.212 687-2M0.184 DBA-ID181 Sample P1-A9 10.0 0.100 40.0 0.0255 0.1263 10.9% 10.6% 9% 100% 0.9% 100% 29 05042021a_035.d 7.212 28857V1.0R5 DBA-ID181 Sample P1-B1 10.0 0.100 0.0025 210.45 1.06 106% 9% 100% 10.0 10.00 10.00 0.0025 210.45 1.106	05042021a_028.d	7.225	28857V0.1R5	DBA-ID181	Sample	P1-A7	10.0	0.100	40.0	0.0250	196.69	0.2530	0.1012				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05042021a_029.d	7.225	28857V0.1R5	DBA-ID181	Sample	P1-A7	10.0	0.100	40.0	0.0250	185.68	0.2393	0.0957	0.0984	%86		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05042021a_030.d	7.225	28857V0.1R6	DBA-ID181	Sample	P1-A8	10.0	0.100	40.0	0.0250	199.05	0.2559	0.1024				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05042021a_031.d	7.225	28857V0.1R6	DBA-ID181	Sample	P1-A8	10.0	0.100	40.0	0.0250	183.92	0.2371	0.0948	0.0986	%66	100%	2%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05042021a_032.d	7,212	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				182.45						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05042021a_033.d	7.212	28857V1.0R4	DBA-ID181	Sample	P1-A9	10.0	0.100	400.0	0.0025	201.45	0.2589	1.0355				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05042021a_034.d	7.225	28857V1.0R4	DBA-ID181	Sample	P1-A9	10.0	0.100	400.0	0.0025	210.21	0.2698	1.0791	1.06	106%		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05042021a_035.d	7.212	28857V1.0R5	DBA-ID181	Sample	P1-B1	10.0	0.100	400.0	0.0025	218.04	0.2795	1.1180				
05042021a_037.d 7.212 687-2M9 0.10 pg/µL Calibration Vial 4 10.0 75.62 05042021a_038.d 7.212 28857V1.0R6 DBA-ID181 Sample P1-B2 10.0 0.100 400.0 0.0255 205.87 0.2644 1.0575 05042021a_039.d 7.225 28857V1.0R6 DBA-ID181 Sample P1-B2 10.0 0.100 400.0 0.0255 205.87 0.2644 1.091 109% 108% 29 05042021a_040.d 7.225 28857V1.0R6 DBA-ID181 Sample P1-B2 10.0 0.100 400.0 0.0255 205.87 1.0919% 109% 108% 29 05042021a_040.d 7.225 68772M8 0.25 pg/µL Calibration Vial 3 10.0 0.100 400.0 0.0025 217.83 0.2792 1.1170 1.09 109% 108% 29 Calculated LOD at 0.045 pg/µL = 29 10.0 0.100 0.100 10.00 10.00 10.00 10.00 10.09 109%	05042021a_036.d	7.225	28857V1.0R5	DBA-ID181	Sample	P1-B1	10.0	0.100	400.0	0.0025	209.30	0.2686	1.0745	1.10	110%		
05042021a_038.d 7.212 28857V1.0R6 DBA-ID181 Sample P1-B2 10.0 0.100 400.0 0.0025 205.87 0.2644 1.0575 05042021a_039.d 7.225 28857V1.0R6 DBA-ID181 Sample P1-B2 10.0 0.100 400.0 0.0025 217.83 0.2792 1.1170 1.09 109% 108% 29 05042021a_040.d 7.225 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 Calculated LOD at 0.045 pg/µL = 29 Calculated LOD at 0.045 pg/µL = 29	05042021a_037.d	7.212	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				75.62						
05042021a_039.d 7.225 28857V1.0R6 DBA-ID181 Sample P1-B2 10.0 0.100 400.0 0.0025 217.83 0.2792 1.1170 1.09 109% 108% 29 05042021a_040.d 7.225 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 Calculated LOD at 0.045 pg/µL 29 Calculated LOD at 0.045 pg/µL 29 Calculated LOO at 0.10 pg/µL 74	05042021a_038.d	7.212	28857V1.0R6	DBA-ID181	Sample	P1-B2	10.0	0.100	400.0	0.0025	205.87	0.2644	1.0575				
05042021a_040.d 7.225 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 Calculated LOD at 0.045 pg/µL = 29 Calculated LOD at 0.045 pg/µL = 74	05042021a_039.d	7.225	28857V1.0R6	DBA-ID181	Sample	P1-B2	10.0	0.100	400.0	0.0025	217.83	0.2792	1.1170	1.09	109%	108%	2%
Calculated LOD at 0.045 pg/µL = 29 Calculated LOD at 0.10 pg/µL = 74	05042021a_040.d	7.225	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				193.30						
Calculated LOO at 0.10 $pq/uL = 74$	Calculated LOD at 0.0	45 pg/µL =	29														
	Calculated LOO at 0.1		AT .														

5/5/21 april

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Calibration Calibration

Calibration



S50 - Floricamid/Onion - Method Validation (Green Onion) - Extracted $5/14/21$ by ASM Sample info Sample info Sample Val value In Data File RT Sample Value Sample Value In In Data File RT Sample P1-A3 05142021a_002.d 7.735 Condition Sample P1-A3 05142021a_003.d 7.735 Condition Sample P1-A3 05142021a_001.d 7.721 Condition Sample P1-A3 05142021a_001.d 7.721 G87-2M10 0.05 gg/LL Condition Val 4 05142021a_01.d 7.721 G87-2M10 0.05 gg/LL Condition Val 4 05142021a_01.d 7.721 G887-2M10 0.05 gg/LL Colspan="2">Colspan="2">Val 7.73 05142021a_01.d 7.721 G887-2M10 0.05 gg/LL Colspan="2">Colspan="2"<	μη) νοι 10.0	E 0 001.0 001.0 001.0	L Vol 10.0 10.0 10.0 10.0	ing Ing 0.1000 0.1000 0.1000 0.1000 0.1000	Resp (57.95 57.95 57.95 584.34 584.34 584.34 59.27 59.27	Conc P9/µL) <0.10 <0.10 <0.10	mqq 10.05 10.05 10.05	Ave 9 <0.01	% Rec 1	ee% Str
Data File RT Sample Mane Sample Info Type Val $05142021a_001.d$ Condition Sample Info Type Val $05142021a_002.d$ 7.721 Condition Sample P1-A3 Sample P1-A3 $05142021a_003.d$ 7.723 Condition Sample P1-A3 Sample P1-A3 $05142021a_003.d$ 7.721 Condition Sample P1-A3 Sample P1-A3 $05142021a_003.d$ 7.721 Condition Sample P1-A3 Sample P1-A3 $05142021a_003.d$ 7.721 $687-2M10.00.5 pg/hL$ Calibration Val $05142021a_010.d$	(J.1) (J.1) 0.01 0.00	E 6 00110	L vol 10.0 10.0 10.0 10.0	ini em 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000	Resp (29.83 57.95 57.95 584.34 584.34 584.34 584.34 59.27	ру/µL) ру/µL) <0.10 <0.10 <0.10	mqq 10.05 10.05 10.05 10.05	Ave 9	% Rec I	se e star
Data File RT Sample Name Sample Info Type Val Pos $05142021a_001.d$ Condition Sample $1-A3$ $05142021a_002.d$ 7.721 Condition Sample $1-A3$ $05142021a_003.d$ 7.723 Condition Sample $1-A3$ $05142021a_003.d$ 7.721 Condition Sample $1-A3$ $05142021a_003.d$ 7.721 Condition Sample $1-A3$ $05142021a_003.d$ 7.721 Condition Sample $1-A3$ $05142021a_003.d$ 7.721 $687-2M10.0.05 pg/ul Sample 1-A3 05142021a_010.d 7.721 687-2M10.0.05 pg/ul Sample 1-A3 05142021a_010.d 7.721 687-2M10.0.05 gg/ul Sample 1-A3 05142021a_010.d 7.721 687-2M10.0.50 gg/ul Sample 1-A3 05142021a_010.d 7.721 687-2M10.0.50 gg/ul Sample 1-A3 05142021a_01.d 7.721 687-2M10.0.50 gg/ul Sample 1-A3$	(HJ) 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	E 0 001.0 001.0 001.0	L Vol 10.0 10.0 10.0 10.0	ing In 0.1000 0.1000 0.1000 0.1000 0.1000	Resp (29.83 57.95 57.95 584.34 584.34 584.34 589.27 59.27	(11/1/20 01.0> 01.0> 01.0>	mqq 10.05 10.05 10.05	₽ mqq 10.0> 10.0>	/e Rec	çe Xe
05142021a_001.d Condition Sample P1-A3 05142021a_003.d 7.721 Condition Sample P1-A3 05142021a_003.d 7.723 Condition Sample P1-A3 05142021a_005.d 7.721 Condition Sample P1-A3 05142021a_005.d 7.721 Condition Sample P1-A3 05142021a_005.d 7.721 Condition Sample P1-A3 05142021a_003.d 7.721 Condition Sample P1-A3 05142021a_003.d 7.721 687-2M10_0.05 pg/µl Calibration Vial 5 05142021a_010.d 7.721 687-2M6_1.0 pg/µl Calibration Vial 5 05142021a_01.d 7.721 687-2M6_1.0 pg/µl Calibration Vial 5 05142021a_013.d 7.721 687-2M6_1.0 pg/µl Calibration Vial 5 05142021a_013.d 7.721 687-2M6_1.0 pg/µl Calibration Vial 5 05142021a_013.d 7.721 687-2M6_1.0 pg/µl Calibration Vial 5 05	10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	001.00 001.00 001.00 001.00 001.00	0.01 0.01 0.01 0.01 0.01	0.1000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000000	29,83 57,95 57,95 584.34 584.34 584.34 584.34 59.27 59.27	01.0> 01.0> 01.0>	10,0> 10,0> 10,0>	<0.01		
05142021a_002.d 7.221 Condition Sample P1-A3 05142021a_003.d 7.735 Condition Sample P1-A3 05142021a_005.d 7.735 Condition Sample P1-A3 05142021a_006.d 7.721 Condition Sample P1-A3 05142021a_006.d 7.721 Condition Sample P1-A3 05142021a_007.d 7.721 Condition Sample P1-A3 05142021a_010.d 7.721 687-2M10.0.05 pg/µl Calibration Vial 5 05142021a_010.d 7.721 687-2M10.0.05 pg/µl Calibration Vial 5 05142021a_01.d 7.721 687-2M10.0.01 pg/µl Calibration Vial 5 05142021a_01.d 7.721 687-2M10.0.01 pg/µl Calibration Vial 5	0.01 10.0 10.0 10.0 10.0 10.0 10.0 10.0	0.100 0.100 0.100 0.100 0.100	0.01 0.01 0.01 0.01 0.01 0.01	0.1000 0.000 0.1000 0.1000 0.1000 0.1000 0.1000	29.83 57.95 57.95 57.95 584.34 584.34 584.34 59.27 59.27	01.0> 01.0> 01.0>	10.05 10.05 10.05	<0.01		
05142021a_003.d 7.735 Condition Sample P1-A3 05142021a_005.d 7.735 Condition Sample P1-A3 05142021a_005.d 7.721 Condition Sample P1-A3 05142021a_006.d 7.721 Condition Sample P1-A3 05142021a_008.d 7.721 Condition Sample P1-A3 05142021a_008.d 7.721 687-2M10.0.05 pg/µL Calibration Vial 5 05142021a_01.d 7.721 687-2M6 1.0 pg/µL Calibration Vial 5 05142021a_01.d 7.721 687-2M6 1.0 pg/µL Calibration Vial 2 05142021a_01.d 7.721 687-2M6 0.010 pg/µL Calibration Vial 2 05142021a_01.d 7.721 687-2M6 0.010 pg/µL Calibration Vial 2 </td <td>0.01 10.00000000</td> <td>01.0 01.0 01.0 0.100 0.100</td> <td>0.01 0.01 0.01 0.01 0.01 0.01</td> <td>001.0 0001.0 0001.0 001.0 001.0</td> <td>29.83 57.95 1144.28 287.04 584.34 584.34</td> <td>01.0> 01.0> 01.0> 01.0></td> <td><0.01 <0.01 <0.01</td> <td><0.01</td> <td></td> <td></td>	0.01 10.00000000	01.0 01.0 01.0 0.100 0.100	0.01 0.01 0.01 0.01 0.01 0.01	001.0 0001.0 0001.0 001.0 001.0	29.83 57.95 1144.28 287.04 584.34 584.34	01.0> 01.0> 01.0> 01.0>	<0.01 <0.01 <0.01	<0.01		
05142021a_004.d 7.735 Condition Sample P1-A3 05142021a_005.d 7.721 Condition Sample P1-A3 05142021a_007.d 7.721 Condition Sample P1-A3 05142021a_008.d 7.721 Condition Sample P1-A3 05142021a_009.d 7.721 687-2M10.0.05 pg/µL Calibration Vial 5 05142021a_010.d 7.721 687-2M10.0.05 pg/µL Calibration Vial 3 05142021a_01.d 7.721 687-2M10.0.05 pg/µL Calibration Vial 3 05142021a_01.d 7.721 687-2M6 1.0 pg/µL Calibration Vial 3 05142021a_01.d 7.721 687-2M6 1.0 pg/µL Calibration Vial 3 05142021a_01.d 7.721 687-2M5 0.50 pg/µL Calibration Vial 3 05142021a_01.d 7.721 687-2M6 1.0 pg/µL Calibration Vial 3 05142021a_01.d 7.725 584940.0.01R1 Galibration Vial 4 05142021a_015.d 288490.0.01R1 GA-CA*20 Sample	10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	01.00 01.00 01.00 0.100 0.100	0.01 10.0 10.0 10.0 10.0	0001.0 0001.0 0001.0 0001.0	29.83 57.95 57.95 287.04 584.34 584.34 584.34 59.27	01.0> 01.0> 01.0> 01.0>	<0.01 <0.01 <0.01	<0.01		
05142021a_005.d 7.721 Condition Sample P1-A3 05142021a_006.d 7.721 Condition Sample P1-A3 05142021a_009.d 7.721 Condition Sample P1-A3 05142021a_009.d 7.721 687-2M10.0.05 pg/µL Calibration Vial 5 05142021a_010.d 7.721 687-2M10.0.05 pg/µL Calibration Vial 3 05142021a_010.d 7.721 687-2M6 1.0 pg/µL Calibration Vial 3 05142021a_011.d 7.721 687-2M6 1.0 pg/µL Calibration Vial 3 05142021a_013.d 7.721 687-2M6 1.0 pg/µL Calibration Vial 3 05142021a_013.d 7.721 687-2M9 0.10 pg/µL Calibration Vial 3 05142021a_013.d 7.721 687-2M9 0.10 pg/µL Calibration Vial 3 05142021a_013.d 687-2M9 0.10 pg/µL Calibration Vial 3 05142021a_013.d 687-2M9 0.10 pg/µL Calibration Vial 4 05142021a_013.d 687-2M9 0.10 pg/µL Calibration Vial 4 051420	10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	001.0 001.0 001.0 001.0	10.0 10.0 10.0 10.0 10.0	001.0 0001.0 0001.0 0001.0 0001.0	29.83 57.95 1144.28 287.04 584.34 59.27 59.27	01.0> 01.0> 01.0> 01.0>	<0.01 <0.01 <0.01	<0.01 <0.01		
05142021a_006d 7.721 Condition Sample P1-A3 05142021a_007d 7.721 Condition Sample P1-A3 05142021a_009d 7.721 687-2M10 0.05 pg/µL Sample P1-A3 05142021a_010d 7.721 687-2M10 0.05 pg/µL Calibration Vial 5 05142021a_010d 7.721 687-2M10 0.05 pg/µL Calibration Vial 3 05142021a_011d 7.721 687-2M10 0.05 pg/µL Calibration Vial 3 05142021a_011d 7.721 687-2M10 0.05 pg/µL Calibration Vial 3 05142021a_011d 7.721 687-2M9 0.10 pg/µL Calibration Vial 3 05142021a_015d 28849 GA-CA*20 Sample P1-A1 05142021a_015d 288490 GA-CA*20 Sample P1-A3 05142021a_015d 288490 GA-CA*20 Sample P1-A3 05142021a_015d 288490 GA-CA*20 Sample P1-A3 05142021a_0116d 7.735 288490	0.01 10.0 10.0 10.0 10.0 10.0 10.0 10.0	001.0 001.0 001.0 001.0	10.0 10.0 10.0 10.0 10.0	00110 00100 00100 00100 00100	29.83 57.95 144.28 287.04 584.34 584.34 581.34 59.27	01.0> 01.0> 01.0> 01.0>	<0.01 <0.01 <0.01	<0.01 <0.05		
05142021a_007.d 7.721 Condition Sample P1-A3 05142021a_008.d 7.721 687-2M10 0.05 pg/µL Calibration Vial 5 05142021a_008.d 7.721 687-2M9 0.10 pg/µL Calibration Vial 4 05142021a_010.d 7.721 687-2M6 1.0 pg/µL Calibration Vial 3 05142021a_011.d 7.721 687-2M6 1.0 pg/µL Calibration Vial 3 05142021a_011.d 7.721 687-2M6 1.0 pg/µL Calibration Vial 3 05142021a_014.d 7.721 687-2M9 0.10 pg/µL Calibration Vial 3 05142021a_014.d 28849 GA-CA*20 Sample P1-A1 05142021a_015.d 288490.01081 GA-CA*20 Sample P1-A1 05142021a_015.d Reagent Blank Sample P1-A2 05142021a_015.d Reagent Blank Sample P1-A2 05142021a_015.d 7.735 2884900.0181 GA-CA*20 Sample P1-A2 05142021a_015.d	10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	001.0 001.0 001.0 001.0 001.0	10.0 10.0 10.0 10.0	0.1000 0.1000 0.1000 0.1000 0.1000 0.1000	29.83 57.95 144.28 287.04 584.34 59.27	<pre>< 0.10 < 0.10 < 0.10 < 0.10 < 0.10 < 0.10</pre>	<0.01 <0.01 <0.01	<0.01 <0.01		
05142021a_008d 7.721 687-2M10 0.05 pg/ul Calibration Vial 5 05142021a_009d 7.721 687-2M9 0.10 pg/ul Calibration Vial 4 05142021a_010d 7.725 687-2M9 0.10 pg/ul Calibration Vial 3 05142021a_011d 7.721 687-2M6 1.0 pg/ul Calibration Vial 3 05142021a_011d 7.721 687-2M6 1.0 pg/ul Calibration Vial 3 05142021a_013d 7.721 687-2M9 0.50 pg/ul Calibration Vial 3 05142021a_013d 7.721 687-2M9 0.50 pg/ul Calibration Vial 3 05142021a_013d 7.721 687-2M9 0.10 pg/ul Calibration Vial 4 05142021a_015d 288490.0181 GA-CA*20 Sample P1-A2 05142021a_015d Reagent Blank Sample P1-A2 05142021a_015d Reagent Blank Sample P1-A2 05142021a_015d 7.735 288490.0181 GA-CA*20 Sample P1-A2 05142021a_017d 7.73	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.100 0.100 0.100 0.100 0.100	10.0 10.0 10.0 10.0	0.1000 0.1000 0.1000 0.1000 0.1000 0.1000	29.83 57.95 144.28 287.04 584.34 584.34 59.27	<pre><0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10</pre>	<0.01 <0.01 <0.01	<0.01 <0.01		
05142021a_009d 7.721 687-2M9 0.10 pg/ul Calibration Vial 4 05142021a_010d 7.735 687-2M8 0.25 pg/ul Calibration Vial 3 05142021a_011d 7.721 687-2M8 0.25 pg/ul Calibration Vial 3 05142021a_011d 7.721 687-2M6 10 pg/ul Calibration Vial 2 05142021a_013d 7.721 687-2M6 10 pg/ul Calibration Vial 2 05142021a_013d 28849 GA-CA*20 Sample P1-A1 05142021a_015d 28849 GA-CA*20 Sample P1-A2 05142021a_015d Reagent Blank Sample P1-A2 05142021a_015d Reagent Blank Sample P1-A2 05142021a_015d 7.735 28849V0.01R1 GA-CA*20 Sample P1-A2 05142021a_013d 7.735 28849V0.01R1 GA-CA*20 Sample P1-A2 05142021a_013d 7.735 28849V0.01R1 GA-CA*20 Sample P1-A3 05142021a_	0.01 0.01 0.02 0.01 0.01 0.01 0.01 0.01	0.100 0.100 0.100 0.100 0.100	10.0 10.0 10.0 10.0	0.1000 0.1000 0.1000 0.1000 0.1000	57.95 144.28 287.04 584.34 59.27 59.27	<pre>01.0> 01.0> 01.0> 01.0> 01.0> 01.0></pre>	<0.01 <0.01 <0.01	<0.01 <0.01		
05142021a_010d 7.735 687-2M8 0.25 pg/ul Calibration Vial 3 05142021a_011d 7.721 687-2M6 1.0 pg/ul Calibration Vial 2 05142021a_013d 7.721 687-2M7 0.50 pg/ul Calibration Vial 2 05142021a_013d 7.721 687-2M7 0.50 pg/ul Calibration Vial 2 05142021a_013d 28849 GA-CA*20 Sample P1-A1 05142021a_016d 28849 GA-CA*20 Sample P1-A2 05142021a_016d Reagent Blank Sample P1-A2 05142021a_0116d 7.735 588490.01181 GA-CA*20 Sample P1-A2 05142021a_013d 7.735 288490.0181 GA-CA*20 Sample P1-A2 05142021a_013d 7.735 288490.0181 GA-CA*20 Sample P1-A2 05142021a_013d 7.735 288490.0181 GA-CA*20 Sample P1-A3 05142021a_013d 7.735 288490.0181 GA-CA*20 Sample P1-A3	10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	0.100 0.100 0.100 0.100 0.100	10.0 10.0 10.0 10.0	0.1000 0.1000 0.1000 0.1000 0.1000	144.28 287.04 584.34 584.34 59.27 59.27	<0.10 <0.10 <0.10 <0.10	<0.01 <0.01 <0.01	<0.01 <0.01		
05142021a_011.d 7.721 687-2M7 0.50 pg/ul Calibration Vial 2 05142021a_012.d 7.721 687-2M6 1.0 pg/ul Calibration Vial 1 05142021a_013.d 28849 GA-CA*20 Sample P1-A1 05142021a_013.d 28849 GA-CA*20 Sample P1-A1 05142021a_016.d 28849 GA-CA*20 Sample P1-A1 05142021a_016.d 288499 GA-CA*20 Sample P1-A2 05142021a_017.d 7.735 587-2M9 0.10 pg/ul Sample P1-A2 05142021a_019.d 7.735 28849V0.01R1 GA-CA*20 Sample P1-A2 05142021a_019.d 7.735 28849V0.01R1 GA-CA*20 Sample P1-A3 05142021a_02.d 7.735 28849V0.01R1 GA-CA*20 Sample P1-A3 05142021a_02.d 7.735 28849V0.01R2 GA-CA*20 Sample P1-A3 05142021a_02.d 7.735 28849V0.01R2 GA-CA*20 Sample P1-A3	10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	0.100 0.100 0.100 0.100 0.100	10.0 10.0 10.0 10.0	0.1000 0.1000 0.1000 0.1000 0.1000	287.04 584.34 59.27	<0.10 <0.10 <0.10 <0.10	<0.01 <0.01 <0.01	<0.01		
05142021a_012.d 7.721 687-2M6 1.0 pg/ul Calibration Vial 1 05142021a_013.d 28849 GA-CA*20 Sample P1-A1 05142021a_013.d 28849 GA-CA*20 Sample P1-A1 05142021a_015.d 28849 GA-CA*20 Sample P1-A1 05142021a_015.d 28849 GA-CA*20 Sample P1-A2 05142021a_015.d Reagent Blank Sample P1-A2 05142021a_015.d Reagent Blank Sample P1-A2 05142021a_019.d 7.735 28849V0.01R1 GA-CA*20 Sample P1-A3 05142021a_020.d 7.735 28849V0.01R1 GA-CA*20 Sample P1-A3 05142021a_021.d 7.735 28849V0.01R2 GA-CA*20 Sample P1-A3 05142021a_021.d 7.735 28849V0.01R2 GA-CA*20 Sample P1-A3 05142021a_021.d 7.735 28849V0.01R2 GA-CA*20 Sample	10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	0.100 0.100 0.100 0.100 0.100	10.0 10.0 10.0 10.0	0.1000 0.1000 0.1000 0.1000 0.1000	584.34 59.27 51.04	<0.10 <0.10 <0.10 <0.10	<0.01 <0.01 <0.01	<0.01		
05142021a_013.d 28849 GA-CA*20 Sample P1-A1 05142021a_013.d 28849 GA-CA*20 Sample P1-A1 05142021a_015.d 28849 GA-CA*20 Sample P1-A1 05142021a_015.d 28849 GA-CA*20 Sample P1-A2 05142021a_015.d Reagent Blank Sample P1-A2 05142021a_015.d 7.735 587-2M9 0.10 pJ/H Calibration Vial 4 05142021a_019.d 7.735 28849V0.01R1 GA-CA*20 Sample P1-A3 05142021a_02.d 7.735 28849V0.01R1 GA-CA*20 Sample P1-A3 05142021a_02.d 7.735 28849V0.01R2 GA-CA*20 Sample	10.0 10.0 10.0 10.0 10.0 10.0 10.0	0.100 0.100 0.100 0.100 0.100	10.0 10.0 10.0 10.0	0.1000 0.1000 0.1000 0.1000 0.1000	59.27 59.27	<0.10 <0.10 <0.10 <0.10	<0.01 <0.01 <0.01	<0.01 <0.01		
05142021a_014.d 28849 GA-CA*20 Sample P1-A1 05142021a_015.d 28849 GA-CA*20 Sample P1-A2 05142021a_015.d Reagent Blank Sample P1-A2 05142021a_015.d Reagent Blank Sample P1-A2 05142021a_018.d 7.735 687-3M9 0.10 pg/µL GA-CA*20 Sample P1-A3 05142021a_019.d 7.735 28849V0.01R1 GA-CA*20 Sample P1-A3 05142021a_019.d 7.735 28849V0.01R1 GA-CA*20 Sample P1-A3 05142021a_02.d 7.735 28849V0.01R2 GA-CA*20 Sample P1-A3 05142021a_02.d 7.735 28849V0.01R3 GA-CA*20 <td>10.0 10.0 10.0 10.0 10.0 10.0 10.0</td> <td>0.100 0.100 0.100 0.100</td> <td>10.0 10.0 10.0 10.0</td> <td>0.1000 0.1000 0.1000 0.1000</td> <td> 59.27</td> <td><0.10 <0.10 <0.10</td> <td><0.01</td> <0.01	10.0 10.0 10.0 10.0 10.0 10.0 10.0	0.100 0.100 0.100 0.100	10.0 10.0 10.0 10.0	0.1000 0.1000 0.1000 0.1000	 59.27	<0.10 <0.10 <0.10	<0.01	<0.01 <0.01		
05142021a_015.d Reagent Blank Sample P1-A2 05142021a_016.d Reagent Blank Sample P1-A2 05142021a_017.d 7.735 687-2M9 0.10 pg/µL Calibration Vial 4 05142021a_018.d 7.735 5884990.01R1 GA-CA*20 Sample P1-A2 05142021a_019.d 7.735 2884990.01R1 GA-CA*20 Sample P1-A3 05142021a_019.d 7.735 2884990.01R2 GA-CA*20 Sample P1-A3 05142021a_021.d 7.735 2884990.01R2 GA-CA*20 Sample P1-A4 05142021a_021.d 7.735 288490.01R2 GA-CA*20 Sample P1-A4 05142021a_021.d 7.735 288490.01R2 GA-CA*20 Sample P1-A4 05142021a_022.d 7.735 288490.01R2 GA-CA*20 Sample P1-A4 05142021a_022.d 7.735 288490.01R3 GA-CA*20 Sample P1-A4 05142021a_023.d 7.7735 288490.01R3 GA-CA*20	10.0 10.0 10.0 10.0 10.0 10.0	0.100 0.100 0.100	10.0 10.0 10.0	0.1000 0.1000 0.1000	 59.27	<0.10<<0.10	<0.01	<0.01		
05142021a_016.d Reagent Blank Sample P1-A2 05142021a_017.d 7.735 687-2M9 0.10 pg/µL Calibration Vial 4 05142021a_018.d 7.735 687-2M9 0.10 pg/µL Calibration Vial 4 05142021a_019.d 7.735 288499/0.01R1 GA-CA*20 Sample P1-A3 05142021a_019.d 7.735 288499/0.01R2 GA-CA*20 Sample P1-A3 05142021a_020.d 7.735 288499/0.01R2 GA-CA*20 Sample P1-A4 05142021a_021.d 7.735 288499/0.01R2 GA-CA*20 Sample P1-A4 05142021a_021.d 7.735 28849/0.01R2 GA-CA*20 Sample P1-A4 05142021a_022.d 7.771 687-2M8 0.25 pg/µL Calibration Vial 3 05142021a_023.d 7.773 288499/0.01R3 GA-CA*20 Sample P1-A4 05142021a_023.d 7.773 288499/0.01R3 GA-CA*20 Sample P1-A4 05142021a_023.d 7.773 288499/0.01R3 GA-CA*20	10.0 10.0 10.0 10.0 10.0	0.100	10.0	0.1000	59.27	<0.10		<0.01		
05142021a_017.d 7.735 687-2M9 0.10 pg/µL Calibration Vial 4 05142021a_018.d 7.735 288499/0.01R1 GA-CA*20 Sample P1-A3 05142021a_019.d 7.735 288499/0.01R1 GA-CA*20 Sample P1-A3 05142021a_019.d 7.735 288499/0.01R2 GA-CA*20 Sample P1-A3 05142021a_020.d 7.735 288499/0.01R2 GA-CA*20 Sample P1-A4 05142021a_021.d 7.735 288499/0.01R2 GA-CA*20 Sample P1-A4 05142021a_021.d 7.735 288499/0.01R2 GA-CA*20 Sample P1-A4 05142021a_022.d 7.771 687-2M8 0.25 pg/µL Calibration Vial 3 05142021a_023.d 7.773 288499/0.01R3 GA-CA*20 Sample P1-A4 05142021a_023.d 7.775 288499/0.01R3 GA-CA*20 Sample P1-A4 05142021a_023.d 7.775 288499/0.01R3 GA-CA*20 Sample P1-A4 05142021a_023.d 7.775 288499/0.01R3 <	10.0 10.0 10.0 10.0	0.100	10.0	0.1000	59.27		<0.01			
05142021a_018.d 7.735 28849V0.01R1 GA-CA*20 Sample P1-A3 05142021a_019.d 7.735 28849V0.01R1 GA-CA*20 Sample P1-A3 05142021a_019.d 7.735 28849V0.01R2 GA-CA*20 Sample P1-A3 05142021a_020.d 7.735 28849V0.01R2 GA-CA*20 Sample P1-A4 05142021a_021.d 7.735 28849V0.01R2 GA-CA*20 Sample P1-A4 05142021a_021.d 7.735 28849V0.01R2 GA-CA*20 Sample P1-A4 05142021a_022.d 7.771 687-2M8 0.28849V0.01R3 GA-CA*20 Sample P1-A4 05142021a_023.d 7.773 28849V0.01R3 GA-CA*20 Sample P1-A4 05142021a_023.d 7.735 28849V0.01R3 GA-CA*20 Sample P1-A5 05142021a_024.d 7.735 28849V0.01R3 GA-CA*20 Sample P1-A5	10.0 10.0 10.0 10.0	0.100	10.0	0.1000	54 04				and a	
05142021a_019.d 7.735 288499/0.01R1 GA-CA*20 Sample P1-A3 05142021a_020.d 7.735 288499/0.01R2 GA-CA*20 Sample P1-A4 05142021a_021.d 7.735 288499/0.01R2 GA-CA*20 Sample P1-A4 05142021a_021.d 7.735 288499/0.01R2 GA-CA*20 Sample P1-A4 05142021a_022.d 7.721 687-2M8 0.28449/0.01R3 GA-CA*20 Sample P1-A4 05142021a_022.d 7.773 288499/0.01R3 GA-CA*20 Sample P1-A4 05142021a_023.d 7.735 288499/0.01R3 GA-CA*20 Sample P1-A5 05142021a_023.d 7.735 288499/0.01R3 GA-CA*20 Sample P1-A5 05142021a_024.d 7.735 288499/0.01R3 GA-CA*20 Sample P1-A5	10.0 10.0 10.0				LD'TC	0.0936	0.0094		Contraction of the local sector of the local s	
05142021a_020.d 7.735 288499/0.01R2 GA-CA*20 Sample P1-A4 05142021a_021.d 7.735 288499/0.01R2 GA-CA*20 Sample P1-A4 05142021a_021.d 7.735 288499/0.01R2 GA-CA*20 Sample P1-A4 05142021a_022.d 7.721 687-2M8 0.25 pg/µL Calibration Vial 3 05142021a_023.d 7.735 288499/0.01R3 GA-CA*20 Sample P1-A6 05142021a_023.d 7.735 288499/0.01R3 GA-CA*20 Sample P1-A5 05142021a_024.d 7.735 288499/0.01R3 GA-CA*20 Sample P1-A5	10.0	0.100	10.0	0.1000	53.86	0.0984	0.0098 0	09600.0	96%	
05142021a_021.d 7.735 288499/0.01R2 GA-CA*20 Sample P1-A4 05142021a_022.d 7.721 687-2M8 0.25 pg/µL Calibration Vial 3 05142021a_023.d 7.735 288499/0.01R3 GA-CA*20 Sample P1-A4 05142021a_023.d 7.735 288499/0.01R3 GA-CA*20 Sample P1-A5 05142021a_023.d 7.735 288499/0.01R3 GA-CA*20 Sample P1-A5 05142021a_024.d 7.735 288499/0.01R3 GA-CA*20 Sample P1-A5	10.0	0.100	10.0	0.1000	50.05	0.0919	0.0092			
05142021a_022.d 7.721 687-2M8 0.25 pg/µL Calibration Vial 3 05142021a_023.d 7.735 288499/0.01R3 GA-CA*20 Sample P1-A5 05142021a_024.d 7.735 288499/0.01R3 GA-CA*20 Sample P1-A5		0.100	10.0	0.1000	50.56	0.0928	0.0093 0	0.00924	92%	
05142021a_023.d 7.735 288499/0.01R3 GA-CA*20 Sample P1-A5 05142021a_024.d 7.735 288499/0.01R3 GA-CA*20 Sample P1-A5	10.0				127.88					
05142021a_024.d 7.735 28849V0.01R3 GA-CA*20 Sample P1-A5	10.0	0.100	10.0	0.1000	53.57	0.0979	0.0098			
	10.0	0.100	10.0	0.1000	45.38	0.0839	0.0084 0	60600.0	91%	93%
05142021a_025.d 7.735 28849V0.1R1 GA-CA*20 Sample P1-A6	10.0	0.100	40.0	0.0250	130.61	0.2299	0.0919			
05142021a_026.d 7.748 28849V0.1R1 GA-CA*20 Sample P1-A6	10.0	0.100	40.0	0.0250	122.12	0.2153	0.0861	0.0890	%68	
05142021a_027.d 7.735 687-2M9 0.10 pg/µL Calibration Vial 4	10.0				57.98					
05142021a_028.d 7.735 28849V0.1R2 GA-CA*20 Sample P1-A7	10.0	0.100	40.0	0.0250	127.57	0.2247	0.0899			
05142021a_029.d 7.735 28849V0.1R2 GA-CA*20 Sample P1-A7	10.0	0.100	40.0	0.0250	126.32	0.2225	0.0890	0.0894	%68	
05142021a_030.d 7.735 28849V0.1R3 GA-CA*20 Sample P1-A8	10.0	0.100	40.0	0.0250	130.96	0.2305	0.0922			
05142021a_031.d 7.735 28849V0.1R3 GA-CA*20 Sample P1-A8	10.0	0.100	40.0	0.0250	131.94	0.2322	0.0929	0.0925	93%	%06
05142021a_032.d 7.721 687-2M8 0.25 pg/pL Calibration Vial 3	10.0				134.77					
05142021a_033.d 7.735 28849V1.0R1 GA-CA*20 Sample P1-A9	10.0	0.100	400.0	0.0025	139.61	0.2453	0.9812			
05142021a_034.d 7.735 28849V1.0R1 GA-CA*20 Sample P1-A9	10.0	0.100	400.0	0.0025	142.23	0.2498	1666.0	066.0	%66	
05142021a_035.d 7.735 28849V1.0R2 GA-CA*20 Sample P1-B1	10.0	0.100	400.0	0.0025	145.06	0.2546	1.0185			
05142021a_036.d 7.748 28849V1.0R2 GA-CA*20 Sample P1-B1	10.0	0.100	400.0	0.0025	134.03	0.2357	0.9429	0.981	98%	
05142021a_037.d 7.735 687-2M9 0.10 pg/µL Calibration Vial 4	10.0				56.39					
05142021a_038.d 7.735 28849V1.0R3 GA-CA*20 Sample P1-B2	10.0	0.100	400.0	0.0025	142.57	0.2504	1.0014			
05142021a_039.d 7.735 28849V1.0R3 GA-CA*20 Sample P1-B2	10.0	0.100	400.0	0.0025	138.84	0.2440	0.9759	0.989	%66	%66
05142021a_040.d 7.735 687-2M8 0.25 pg/µL Calibration Vial 3	10.0				143.01					
Calculated LOD at 0.045 po/ul = 23										

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Target Compound Flonicamid	CurveFit fitLinear	Weighting weightEqual	Integrator Agile	Smoothing Gaussian	Smoot	ningFunctic 10	nWidth		SmoothingGauss	anWidth
Flonicamid - 5 Lev ses x10 2 Y = 58% 5.55 Type:L 7.59 Type:L 3.55 Type:L 3.51 Type:L 1.5 0.5	els, 5 Levels 3 894096 * x 0.99863229 inear, Origin:	- 3.614619 - 3.614619 :Ignore, Weight!	vone st	ed, 0 QCs						
-0	0.05 0.1 0.	.15 0.2 0.25	0.3 0.35 0.4	0.45 0.5	0.55 0.6	0.65 0.7	0.75	0.8 0	.85 0.9 0.95 Concentra	1 1.05 tion (ng/ml)
Calibration STD					Cal Type	Level	Enabled		Response	Exp Conc
D:\MassHunter\Flonicamic	1\08550_Onion\Da	ata\Results\05142021	05142021a_012.d		Calibration	٦	D		584.34	1.0000
D:\MassHunter\Flonicamic	I\08550_Onion\Da	ata\Results\05142021	05142021a_011.d		Calibration	2	D		287.04	0.5000
D:\MassHunter\Flonicamic	1\08550_Onion\De	ata\Results\05142021	05142021a_010.d		Calibration	Э	Ŋ		144.28	0.2500
D:\MassHunter\Flonicamic	I\08550_Onion\Da	ata\Results\05142021	05142021a_022.d		Calibration	З			127.88	0.2500
D:\MassHunter\Flonicamic	1\08550_Onion\De	ata\Results\05142021	05142021a_032.d		Calibration	З	D		134.77	0.2500
D:\MassHunter\Flonicamic	1\08550 Onion\De	ata\Results\05142021	05142021a 040.d		Calibration	m			143.01	0.2500

D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05142021\05142021a_027.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05142021\05142021a_037.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05142021\05142021a_009.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05142021\05142021a_017.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05142021\05142021a_008.d Calib D:\M D:\M D:\M D:\M D:\M

0.1000 0.1000 0.1000 0.1000

59.27 57.98 56.39

Calibration Calibration

Calibration

57.95

0.0500

29.83

ŝ 4

Calibration Calibration

Optimization Image Seruption Image Ima Image Image	- Flonicamia/Union -	Method Validation	(Green Onion) - Extracted 5/14	4/21 DY ASM													
Matrix Matrix Sample Matrix					Sample		Inj Vol					Conc		Ave	4	ve %	
Octobe Tube Condition Samelie F-3.4 100 OF CORD-JOUL 51.3 Condition Samelie F-3.4 100 OF CORD-JOUL 51.3 Condition Samelie F-3.4 100 OF CORD-JOUL 51.3 Condition Samelie F-3.4 100 OF CORD-JOUL 51.31 Condition Samelie F-3.4 100 OF CORD-JOUL 51.31 GOVAL-JOUL 51.4 100 100 OF CORD-JOUL 51.4 20.4 100 100 100 100 OF CORD-JOUL 51.4 20.4 100 100 100 100 100 100 100 100 100 100 100 100 100 100	Data File	RT	SampleName	Sample Info	Type	Vial Pos	(11)	5	mL Vol	ini gm	Resp	()hl/bd)	bpm	mdd	% Rec	Rec	Std De
0:00000 5.31 0:00000 Sample 7.3 100 0:00000 5.32 0:00000 Sample 7.3 100 0:00000 5.31 0:00000 Sample 7.3 2.0 0:00000 5.31 0:00000 Sample 7.4 2.0 0:00000 5.31 0:00000 Sample 7.4 2.0 0:00000 5.31 0:000000 Sample 7.4 2.0 0:00000 5.31 0:000000 Sample 7.4 2.0 2.0 0:00000 5.31 0:0000000 Sample 7.4 2.0 2.0 0:00000 5.31 0:0000000 Sample 7.4 2.0 2.0 0:000000 5.31 0:00000000	05142021a_001.d]	Condition		Sample	P1-A3	10.0										
0:00000 0.23 0 onder Sample 0.13 0.00 0:00000.001 3.14 0 onder Sample 1.43 1.00 0:00000.001 3.13 0 onder Sample 1.43 1.00 0:00000.001 3.11 0 onder Sample 1.43 1.00 0:00000 3.11 0 onder Sample 1.43 1.00 0:00000 3.11 0 onder Sample 1.43 0.00 0:00000 3.11 0 onder Sample 1.44 0.00 0:00000 3.11 0 onder 1.00 0.00 0.00 0.00 0:00000 3.11 0 onder 1.00 0.00 0.00 0.00 0.00 0.00 0:00000 3.11 0 onder 0 onder 0 onder 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	05142021a_002.d	5.311	Condition		Sample	P1-A3	10.0										
Circlection 333 Condition Sample 1+3 100 Circlection 311 Generation 143 100 100 Circlection 311 Generation 143 100 100 100 100 Circlection 311 Generation 143 100	05142021a_003.d	5.324	Condition		Sample	P1-A3	10.0										
CNC0021001 510 CONDINC CONDINC CONDINC CONDINC	05142021a_004.d	5.324	Condition		Sample	P1-A3	10.0										
Static Condition Same P1-4 Condition Condition </td <td>05142021a_005.d</td> <td>5.324</td> <td>Condition</td> <td></td> <td>Sample</td> <td>P1-A3</td> <td>10.0</td> <td></td>	05142021a_005.d	5.324	Condition		Sample	P1-A3	10.0										
Groutine Condition Same intervention Same intervention State Distribution State Condition State Condition State	05142021a_006.d	5.311	Condition		Sample	P1-A3	10.0										
Cristand Cristan	05142021a_007.d	5.311	Condition		Sample	P1-A3	10.0										
Clination S11 Genome Value	05142021a_008.d	5.311	687-2M10 0.05 pg/pt		Calibration	Vial 5	10.0				101.78						
Gistolia D11 533 667-960.25 pilli 677-800.25 pilli 667-960.25 pilli 667-960.15 pilli Collection (a) (a) (a) <td>05142021a_009.d</td> <td>5.311</td> <td>687-2M9 0.10 pg/pL</td> <td></td> <td>Calibration</td> <td>Vial 4</td> <td>10.0</td> <td></td> <td></td> <td></td> <td>204.79</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	05142021a_009.d	5.311	687-2M9 0.10 pg/pL		Calibration	Vial 4	10.0				204.79						
Gistorial 101 5.31 687/96 (3) (3) 67/96 (3) (3) 67/96 (3) (3) 67/96 (3) (3) 67/96 (3) (3) 67/96 (3) (3) 67/96 (3) (3) 67/96 (3) (3) 67/96 (3) (3) 67/96 (3) (3) 67/96 (3) (3) 67/96 (3) (3) 67/96 (3) (3) 67/96 (3) (3) 67/96 (3) (3) 67/96 (3)	05142021a_010.d	5.324	687-2M8 0.25 pg/pt		Calibration	Vial 3	10.0				482.92						
Circle (C)	05142021a_011.d	5.311	687-2M7 0.50 pg/pt		Calibration	Vial 2	10.0				959.18						
Cistable (1)	05142021a_012.d	5.297	687-2M6 1.0 pg/µL		Calibration	Vial 1	10.0				1984.74						
Obstratize 0144 2899 Obstratize 014 -0.10<	05142021a_013.d	1	28849	GA-CA*20	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01				
05170213 01 010	05142021a_014.d	i	28849	GA-CA*20	Sample	P1-A1	10.0	0.100	10.0	0.1000	I	<0.10	<0.01	<0.01			
OFFADDIA (1) Rager(1) Bank Sample (1) 1,10 0,100 0,10 0,010	05142021a_015.d	l	Reagent	Blank	Sample	P1-A2	10.0	0.100	10.0	0.1000	I	<0.10	<0.01				
	05142021a_016.d	1	Reagent	Blank	Sample	P1-A2	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01			
05142021a 0184 5.334 28894000181 G-ACV20 Sample F1-A1 0.00 0.00 1000 180.66 0.1079 0.0016 0.0066 0.0076 0.0066 0.0005 0	05142021a_017.d	5.324	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				198.56						
05142021a 5.311 288990.01R 64.C4*20 Sample 1-3 100 0.100 15.71 0.0105<	05142021a_018.d	5.324	28849V0.01R1	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	183.84	0.1066	0.0107				
05142031a 5.334 2889Y0.0102 GACW20 Sample F1-A4 100 100 17.181 0.1005 0.001 0.0024 0.0005 0.001 0.0024 0.0005 0.001 0.0024 0.0024 0.0005 0.001 0.0024 0.0024 0.0005 0.0046 0.001 0.0010	05142021a_019.d	5.311	28849V0.01R1	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	180.06	0.1047	0.0105	0.0106	106%		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05142021a_020.d	5.324	28849V0.01R2	GA-CA*20	Sample	P1-A4	10.0	0.100	10.0	0.1000	171.81	0.1005	0.0101				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05142021a_021.d	5.324	28849V0.01R2	GA-CA*20	Sample	P1-A4	10.0	0.100	10.0	0.1000	155.72	0.0924	0.0092	0.00965	%96		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05142021a_022.d	5.311	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				409.59						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05142021a_023.d	5.324	28849V0.01R3	GA-CA*20	Sample	P1-A5	10.0	0.100	10.0	0.1000	149.21	0.0892	0.0089				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05142021a_024.d	5.324	28849V0.01R3	GA-CA*20	Sample	P1-A5	10.0	0.100	10.0	0.1000	154.41	0.0918	0.0092	0.00905	%06	98%	8%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05142021a_025.d	5.324	28849V0.1R1	GA-CA*20	Sample	P1-A6	10.0	0.100	40.0	0.0250	389.92	0.2101	0.0840				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05142021a_026.d	5.338	28849V0.1R1	GA-CA*20	Sample	P1-A6	10.0	0.100	40.0	0.0250	387.79	0.2090	0.0836	0.0838	84%		
D5142021a_028.d 5.324 28849V0.1R2 GA-CA*20 Sample P1-A7 10.0 0.100 40.0 0.0250 406.87 0.2186 0.0875 D5142021a_029.d 5.324 28849V0.1R2 GA-CA*20 Sample P1-A7 10.0 0.100 40.0 0.0250 405.63 0.2165 0.0865 0.0875 87% D5142021a_031.d 5.324 28849V0.1R3 GA-CA*20 Sample P1-A8 10.0 0.100 40.0 0.0250 407.17 0.0866 0.0870 87% D5142021a_033.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-A8 10.0 0.100 40.0 0.0250 437.17 0.0865 0.0870 87% D5142021a_033.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-A9 10.0 0.100 40.00 0.0253 434.80 0.337 0.934 93% D5142021a_035.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-B1 10.0 0.100 40.00	05142021a_027.d	5.324	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				169.09						
05142021a_029.d 5.324 28849V0.1R2 GA-CA*20 Sample P1-A 10.0 0.100 40.0 0.0250 402.63 0.2165 0.0866 0.0870 87% 05142021a_030.d 5.324 28849V0.1R3 GA-CA*20 Sample P1-A8 10.0 0.100 40.0 0.0250 403.71 0.0116 0.0916 0.0892 89% 05142021a_033.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-A8 10.0 0.100 40.0 0.0250 43.74 0.2341 0.0916 0.0897 87% 05142021a_033.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-A 10.0 0.100 40.00 0.0254 43.760 0.0347 0.334 93% 05142021a_035.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-B1 10.0 0.100 40.00 0.0254 45.73 0.2341 0.334 93% 05142021a_035.d 5.324 28849V1.0R2 GA-CA*20 Sample P1-B1	05142021a_028.d	5.324	28849V0.1R2	GA-CA*20	Sample	P1-A7	10.0	0.100	40.0	0.0250	406.87	0.2186	0.0875				
05142021a 030.4 5.324 288490.1R3 GA-CA*20 Sample P1-A8 10.0 0.0100 40.0 0.0250 437.71 0.2171 0.0668 05142021a 5314 5324 28849V0.1R3 GA-CA*20 Sample P1-A8 10.0 0.100 40.0 0.0250 437.45 0.0916 0.0891 89% 87% 05142021a 0314 5324 28849V1.0R1 GA-CA*20 Sample P1-A9 10.0 0.100 40.0 0.0025 437.60 0.3347 0.3347 9393 93% 05142021a_033.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-B1 10.0 0.100 40.00 0.0025 437.60 0.3347 0.334 93% 05142021a_035.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-B1 10.0 0.100 49.00 0.0025 457.60 0.2341 0.334 93% 05142021a_035.d 5.338 28849V1.0R2 GA-CA*20 Sample P1-B1	05142021a_029.d	5.324	28849V0.1R2	GA-CA*20	Sample	P1-A7	10.0	0.100	40.0	0.0250	402.63	0.2165	0.0866	0.0870	87%		
05!42021a_031.4 5:324 288490.1R3 GA-CA*20 Sample P1-A8 10.0 0.0100 40.0 0.0250 47.48 0.2290 0.0916 0.0895 87% 05!42021a_032.d 5.311 687-248 0.25 pg/ul Calibration Val 3 10.0 40.0 0.0025 437.60 0.2341 0.9363 87% 87% 05!42021a_033.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-49 10.0 0.100 40.00 0.0025 437.60 0.2341 0.3937 0.393 93% 05!42021a_035.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-41 10.0 0.100 49.00 0.0025 435.60 0.3347 0.334 93% 05!42021a_035.d 5.324 28849V1.0R2 GA-CA*20 Sample P1-41 10.0 0.100 49.00 0.0025 455.33 0.2430 0.934 93% 05!42021a_035.d 5.338 28849V1.0R2 GA-CA*20 Sample P1-41 10.0 0.100 </td <td>05142021a_030.d</td> <td>5.324</td> <td>28849V0.1R3</td> <td>GA-CA*20</td> <td>Sample</td> <td>P1-A8</td> <td>10.0</td> <td>0.100</td> <td>40.0</td> <td>0.0250</td> <td>403.71</td> <td>0.2171</td> <td>0.0868</td> <td></td> <td></td> <td></td> <td></td>	05142021a_030.d	5.324	28849V0.1R3	GA-CA*20	Sample	P1-A8	10.0	0.100	40.0	0.0250	403.71	0.2171	0.0868				
05142021a_032.d 5.311 687-2M8 0.25 pg/ul Calibration Vial 3 10.0 427.17 427.17 05142021a_033.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-A0 10.0 400.0 0.0025 437.60 0.2341 0.9363 05142021a_033.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-A0 10.0 400.0 0.0025 437.60 0.3307 0.9347 93% 05142021a_035.d 5.324 28849V1.0R2 GA-CA*20 Sample P1-B1 10.0 0.100 400.0 0.0025 415.80 0.2371 0.9371 93% 05142021a_035.d 5.338 28849V1.0R2 GA-CA*20 Sample P1-B1 10.0 0.100 415.60 0.2361 0.9455 95% 05142021a_037.d 5.338 28849V1.0R2 GA-CA*20 Sample P1-B1 10.0 0.100 0.0002 455.17 0.9345 0.958 96% 05142021a_037.d 5.338 28849V1.0R3 GA-CA*20 Sample	05142021a_031.d	5.324	28849V0.1R3	GA-CA*20	Sample	P1-A8	10.0	0.100	40.0	0.0250	427.48	0.2290	0.0916	0.0892	89%	87%	39
05142021a_033.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-A9 10.0 400.0 0.0025 437.60 0.2341 0.9363 05142021a_034.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-A9 10.0 0.100 400.0 0.0225 437.60 0.2327 0.9307 0.934 93% 05142021a_035.d 5.324 28849V1.0R2 GA-CA*20 Sample P1-B1 10.0 0.100 400.0 0.0255 455.33 0.2377 0.9307 0.934 93% 05142021a_035.d 5.338 28849V1.0R2 GA-CA*20 Sample P1-B1 10.0 0.100 400.0 0.0025 455.33 0.2430 0.9719 05142021a_037.d 5.324 687-2M9 0.10 pg/µl Calibration Val 10.0 400.0 0.0025 455.33 0.2430 0.9719 05142021a_037.d 5.324 687-2M9 0.10 pg/µl Calibration Val 10.0 0.100 400.0 0.0025 455.17 0.2342 0.9534 <td>05142021a_032.d</td> <td>5.311</td> <td>687-2M8 0.25 pg/µL</td> <td></td> <td>Calibration</td> <td>Vial 3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td>427.17</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	05142021a_032.d	5.311	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				427.17						
05142021a_034.d 5.324 28849V1.0R1 GA-CA*20 Sample P1-A9 10.0 0.100 400.0 0.0025 434.80 0.2327 0.9307 0.934 93% 05142021a_035.d 5.324 28849V1.0R2 GA-CA*20 Sample P1-B1 10.0 0.100 400.0 0.0025 455.33 0.2430 0.9719 05142021a_035.d 5.338 28849V1.0R2 GA-CA*20 Sample P1-B1 10.0 0.100 400.0 0.0025 415.8 0.29719 958 96% 05142021a_037.d 5.338 28849V1.0R2 GA-CA*20 Sample P1-B1 10.0 0.100 400.0 0.0025 415.8 0.29719 0.9745 95% 05142021a_031.d 5.324 687-2M9 0.10 P0/JL Calibration Val 4 10.0 0.100 400.0 0.0025 45.17 0.2435 0.9716 05142021a_031.d 5.324 687-2M9 0.10 P0/JL Calibration Val 4 10.0 0.100 460.0 0.0025 45.17	05142021a_033.d	5.324	28849V1.0R1	GA-CA*20	Sample	P1-A9	10.0	0.100	400.0	0.0025	437.60	0.2341	0.9363				
05142021a_035.d 5.324 28849V1.0R2 GA-CA*20 Sample P1-B1 10.0 0.100 400.0 0.0025 455.33 0.2430 0.9719 05142021a_036.d 5.338 28849V1.0R2 GA-CA*20 Sample P1-B1 10.0 0.100 400.0 0.0025 415.68 0.9445 0.958 96% 05142021a_037.d 5.338 28849V1.0R2 GA-CA*20 Sample P1-B1 10.0 400.0 0.0025 415.68 0.9445 0.958 96% 05142021a_037.d 5.324 687-2M9 0.10 pg/µL Calibration Vial 10.0 400.0 0.0025 455.17 0.2435 0.9716 05142021a_030.d 5.324 28849V1.0R3 GA-CA*20 Sample P1-P2 10.0 0.100 400.0 0.0025 455.17 0.2429 0.95345 0.95% 05142021a_030.d 5.324 58849V1.0R3 GA-CA*20 Sample P1-P2 10.0 0.100 405.0 0.0716 0.95345 0.95345 0.95345	05142021a_034.d	5.324	28849V1.0R1	GA-CA*20	Sample	P1-A9	10.0	0.100	400.0	0.0025	434.80	0.2327	0.9307	0.934	93%		
05142021a_036.d 5.338 28849V1.0R2 GA-CA*2D Sample P1-B1 10.0 0.100 40.0.0 0.0025 41.68 0.2361 0.9445 0.958 96% 05142021a_037.d 5.324 687-2M9 0.10 pg/µL Calibration Vial 4 10.0 10.0 172.14 0.2425 0.9445 0.958 96% 05142021a_037.d 5.324 687-2M9 0.10 pg/µL Calibration Vial 4 10.0 10.0 172.14 0.2429 0.9716 05142021a_039.d 5.338 28849V1.0R3 GA-CA*20 Sample P1-B2 10.0 400.0 0.0025 45.17 0.2429 0.9716 05142021a_030.d 5.324 58849V1.0R3 GA-CA*20 Sample P1-B2 10.0 400.0 0.0025 45.71 0.2429 0.9534 95% 95% 05142021a_030.d 5.324 687-2M8 0.25 gg/µL Calibration Vial 3 10.0 400.0 0.0025 45.71 0.2345 0.9534 95% 95% 95% 95%	05142021a_035.d	5.324	28849V1.0R2	GA-CA*20	Sample	P1-B1	10.0	0.100	400.0	0.0025	455.33	0.2430	0.9719				
05142021a_037.d 5.324 687-2M9 0.10 pg/µL Calibration Vial 4 10.0 172.14 05142021a_038.d 5.338 28849V1.0R3 GA-CA*20 Sample P1-B2 10.0 0.100 400.0 0.0025 455.17 0.2429 0.9716 05142021a_039.d 5.324 28849V1.0R3 GA-CA*20 Sample P1-B2 10.0 0.100 400.0 0.0025 436.71 0.2336 0.9345 0.953 95% 95% 05142021a_040.d 5.324 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 400.0 0.0025 436.71 0.2336 0.9345 0.953 95% 95%	05142021a_036.d	5.338	28849V1.0R2	GA-CA*20	Sample	P1-B1	10.0	0.100	400.0	0.0025	441.68	0.2361	0.9445	0.958	%96		
05142021a_038.d 5.338 28849V1.0R3 GA-CA*20 Sample P1-B2 10.0 0.100 400.0 0.0025 455.17 0.2429 0.9716 05142021a_039.d 5.324 28849V1.0R3 GA-CA*20 Sample P1-B2 10.0 0.100 400.0 0.0025 436.71 0.2336 0.9345 0.953 95% 95% 05142021a_040.d 5.324 687-2M8 0.25 pg/ut Calibration Vial 3 10.0	05142021a_037.d	5.324	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				172.14						
05142021a_039.d 5.324 28849V1.0R3 GA-CA*20 Sample P1-B2 10.0 0.100 400.0 0.0025 436.71 0.2336 0.9345 0.953 95% 95% 05142021a_040.d 5.324 687-2M8 0.25 pg/µL Calculated 10.0 100 400.0 400.0 450.15 450.15 6.102 450.15 6.102 450.15 6.102 450.15 7.102 450	05142021a_038.d	5.338	28849V1.0R3	GA-CA*20	Sample	P1-B2	10.0	0.100	400.0	0.0025	455.17	0.2429	0.9716				
05142021a_040.d 5.324 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 450.15 Calculated 100 at 0.045 mor/ul = 61	05142021a_039.d	5.324	28849V1.0R3	GA-CA*20	Sample	P1-B2	10.0	0.100	400.0	0.0025	436.71	0.2336	0.9345	0.953	92%	95%	1%
Calculated LOD at 0.045 no/ut = 61	05142021a_040.d	5.324	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				450.15						
	Calculated LOD at 0.04.	- nated -															

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Data File	RT	SampleName	Sample Info	Sample	fial Pos	(uL)	0	IL Vol	ini pm	Resp	Conc (pg/µL)	mqq	Ave	% Rec	Ave % Rec	Std De
05142021a_001.d		Condition		Sample	P1-A3	10.0	1									
05142021a_002.d	6.010	Condition		Sample	P1-A3	10.0										
05142021a_003.d	6.010	Condition		Sample	P1-A3	10.0										
05142021a_004.d	6.024	Condition		Sample	P1-A3	10.0										
05142021a_005.d	6.010	Condition		Sample	P1-A3	10.0										
05142021a_006.d	5.997	Condition		Sample	P1-A3	10.0										
05142021a_007.d	6.010	Condition		Sample	P1-A3	10.0										
05142021a_008.d	5.983	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				33.20						
05142021a_009.d	5.983	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				61.67						
05142021a_010.d	5.997	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				166.08						
05142021a_011.d	5.983	687-2M7 0.50 pg/µL		Calibration	Vial 2	10.0				319.08						
05142021a_012.d	5.969	687-2M6 1.0 pg/µL		Calibration	Vial 1	10.0				637.36						
05142021a_013.d	1	28849	GA-CA*20	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01				
05142021a_014.d		28849	GA-CA*20	Sample	PI-A1	10.0	0.100	10.0	0.1000	L	<0.10	<0.01	<0.01			
05142021a_015.d		Reagent	Blank	Sample	P1-A2	10.0	0.100	10.0	0.1000	I	<0.10	<0.01				
05142021a_016.d		Reagent	Blank	Sample	P1-A2	10.0	0.100	10.0	0.1000	+	<0.10	<0.01	<0.01			
05142021a_017.d	5.997	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				64.06						
05142021a_018.d	6.024	28849V0.01R1	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	66.87	0.1095	0.0110				
05142021a_019.d	6.010	28849V0.01R1	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	59.48	0.0980	8600.0	0.0104	104%		
05142021a_020.d	6.010	28849V0.01R2	GA-CA*20	Sample	P1-A4	10.0	0.100	10.0	0.1000	53.66	0.0889	0.0089				
05142021a_021.d	6.024	28849V0.01R2	GA-CA*20	Sample	P1-A4	10.0	0.100	10.0	0.1000	53.99	0.0894	0.0089	0.00891	89%		
05142021a_022.d	5.983	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				147.46						
05142021a_023.d	6.024	28849V0.01R3	GA-CA*20	Sample	P1-A5	10,0	0.100	10.0	0.1000	59.19	0.0975	8600.0				
05142021a_024.d	6.010	28849V0.01R3	GA-CA*20	Sample	P1-A5	10.0	0.100	10.0	0.1000	58.69	0.0967	7600.0	0.00971	%16	97%	
05142021a_025.d	6.010	28849V0.1R1	GA-CA*20	Sample	P1-A6	10.0	0.100	40.0	0.0250	136.17	0.2177	0.0871				
05142021a_026.d	6.024	28849V0.1R1	GA-CA*20	Sample	P1-A6	10.0	0.100	40.0	0.0250	145.42	0.2322	0.0929	0060.0	%06		
05142021a_027.d	5.997	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				54.48						
05142021a_028.d	6.010	28849V0.1R2	GA-CA*20	Sample	P1-A7	10.0	0.100	40.0	0.0250	135.57	0.2168	0.0867				
05142021a_029.d	6.010	28849V0.1R2	GA-CA*20	Sample	P1-A7	10.0	0.100	40.0	0.0250	133.61	0.2137	0.0855	0.0861	86%		
05142021a_030.d	6.010	28849V0.1R3	GA-CA*20	Sample	P1-A8	10.0	0.100	40.0	0.0250	137.95	0.2205	0.0882				
05142021a_031.d	6.024	28849V0.1R3	GA-CA*20	Sample	P1-A8	10.0	0.100	40.0	0.0250	147.76	0.2359	0.0943	0.0913	91%	%68	
05142021a_032.d	5.983	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				158.79						
05142021a_033.d	6.010	28849V1.0R1	GA-CA*20	Sample	P1-A9	10.0	0.100	400.0	0.0025	148.01	0.2362	0.9450				
05142021a_034.d	5.997	28849V1.0R1	GA-CA*20	Sample	P1-A9	10.0	0.100	400.0	0.0025	149.00	0.2378	0.9512	0.948	92%		
05142021a_035.d	6.010	28849V1.0R2	GA-CA*20	Sample	P1-B1	10.0	0.100	400.0	0.0025	157.93	0.2517	1.0070				
05142021a_036.d	6.010	28849V1.0R2	GA-CA*20	Sample	P1-B1	10.0	0.100	400.0	0.0025	146.28	0.2335	0.9341	1/6.0	9//6		
05142021a_037.d	5.997	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				62.24						
05142021a_038.d	6.010	28849V1.0R3	GA-CA*20	Sample	P1-B2	10.0	0.100	400.0	0.0025	150.39	0.2400	0.9598				
05142021a_039.d	6.010	28849V1.0R3	GA-CA*20	Sample	P1-B2	10.0	0.100	400.0	0.0025	150.04	0.2394	0.9576	0.959	%96	6%	5
05142021a_040.d	5.997	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				148.66						
Calculated LOD at 0.04	= julying =	26														
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Analytical Summary Report, PR# 08550

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Data File RT 05142021a_001.d 05142021a_003.d 7.212 05142021a_003.d 7.212 05142021a_003.d 7.212 05142021a_006.d 7.212 05142021a_006.d 7.212 05142021a_006.d 7.212 05142021a_007.d 7.212 05142021a_006.d 7.198 05142021a_008.d 7.313 05142021a_008.d 7.313															
Data File KI 05142021a_001.d 05142021a_002.d 7.212 05142021a_004.d 7.212 05142021a_004.d 7.212 05142021a_004.d 7.212 05142021a_006.d 7.212 05142021a_006.d 7.212 05142021a_006.d 7.213 05142021a_007.d 7.213 05142021a_008.d 7.3198		County Tube	Sample	L Dec les	Inj Vol		I Wol	inl nu	Decn	Conc (not/ut)	muu	Ave	% Rec	Ave %	std Dev
05142021a_000.d 05142021a_002.d 05142021a_002.d 05142021a_004.d 7.212 05142021a_005.d 7.212 05142021a_006.d 7.198 05142021a_007.d 7.212 05142021a_008.d 7.198	SampleName	ouur aidmes	Cample	CV IU	100	= 71				Ind IEd	l				
05142021a_002.d 7.212 05142021a_003.d 7.212 05142021a_004.d 7.222 05142021a_006.d 7.198 05142021a_006.d 7.198 05142021a_007.d 7.212 05142021a_008.d 7.198	Condition		aldilloc		0.01										
05142021a_003.d 7.212 05142021a_004.d 7.225 05142021a_005.d 7.198 05142021a_006.d 7.198 05142021a_007.d 7.212 05142021a_008.d 7.198	Condition		Sample	CH-IN	0.01										
05142021a_004.d 7.225 05142021a_005.d 7.128 05142021a_006.d 7.198 05142021a_007.d 7.212 05142021a_008.d 7.198	Condition		Sample	P1-A3	10.0										
05142021a_005.d 7.212 05142021a_006.d 7.198 05142021a_007.d 7.212 05142021a_008.d 7.198	Condition		Sample	P1-A3	10.0										
05142021a_006.d 7.198 05142021a_007.d 7.212 05142021a_008.d 7.198	Condition		Sample	P1-A3	10.0										
05142021a_007.d 7.212 05142021a_008.d 7.198	Condition		Sample	P1-A3	10.0										
05142021a_008.d 7.198	Condition		Sample	P1-A3	10.0										
	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				25.24						
05142021a_009.d 7.212	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				52.01						
05142021a 010.d 7.212	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				124.67						
05142021a 011.d 7.198	687-2M7 0.50 pg/µL		Calibration	Vial 2	10.0				277.14						
05142021a_012.d 7.198	687-2M6 1.0 pg/µL		Calibration	Vial 1	10.0				537.20						
05142021a_013.d	28849	GA-CA*20	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01				
05142021a 014.d	28849	GA-CA*20	Sample	IA-19	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01			
05142021a 015.d	Reagent	Blank	Sample	P1-A2	10.0	0.100	10.0	0.1000		<0.10	<0.01				
05142021a 016.d	Reagent	Blank	Sample	P1-A2	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01			
05142021a 017.d 7.212	687-2M9 0.10 pg/uL		Calibration	Vial 4	10.0				53.00						
05142021a 018.d 7.225	28849V0.01R1	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	43.89	0.0907	0.0091				
05142021a 019.d 7.212	28849V0.01R1	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	45.47	0.0936	0.0094	0.00922	92%		
05142021a 020.d 7.225	28849V0.01R2	GA-CA*20	Sample	P1-A4	10.0	0.100	10.0	0.1000	43.64	0.0902	0600.0				
05142021a_021.d 7.225	28849V0.01R2	GA-CA*20	Sample	P1-A4	10.0	0.100	10.0	0.1000	45.19	0.0931	0.0093	0.00917	92%		
05142021a_022.d 7.212	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				122.76						
05142021a_023.d 7.239	28849V0.01R3	GA-CA*20	Sample	P1-A5	10.0	0.100	10.0	0.1000	39.48	0.0826	0.0083				
05142021a_024.d 7.212	28849V0.01R3	GA-CA*20	Sample	P1-A5	10.0	0.100	10.0	0.1000	42.25	0.0877	0.0088	0.00851	85%	%06	40
05142021a_025.d 7.225	28849V0.1R1	GA-CA*20	Sample	P1-A6	10.0	0.100	40.0	0.0250	126.20	0.2420	0.0968				
05142021a 026.d 7.239	28849V0.1R1	GA-CA*20	Sample	P1-A6	10.0	0.100	40.0	0.0250	129.99	0.2489	9660'0	0.0982	%86		
05142021a_027.d 7.212	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				52.60						
05142021a_028.d 7.225	5 28849V0.1R2	GA-CA*20	Sample	P1-A7	10.0	0.100	40.0	0.0250	125.91	0.2414	0.0966				
05142021a_029.d 7.212	2 28849V0.1R2	GA-CA*20	Sample	P1-A7	10.0	0.100	40.0	0.0250	130.60	0.2501	0.1000	0.0983	0%86		
05142021a_030.d 7.225	5 28849V0.1R3	GA-CA*20	Sample	P1-A8	10.0	0.100	40.0	0.0250	136.77	0.2614	0.1046				
05142021a_031.d 7.225	28849V0.1R3	GA-CA*20	Sample	P1-A8	10.0	0.100	40.0	0.0250	130.64	0.2501	0.1001	0.102	102%	100%	5
05142021a_032.d 7.212	2 687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				127.87						
05142021a_033.d 7.225	28849V1.0R1	GA-CA*20	Sample	P1-A9	10.0	0.100	400.0	0.0025	141.07	0.2693	1.0771				
05142021a 034.d 7.212	2 28849V1.0R1	GA-CA*20	Sample	P1-A9	10.0	0.100	400.0	0.0025	132.10	0.2528	1.0112	1.04	104%		
05142021a_035.d 7.225	28849V1.0R2	GA-CA*20	Sample	P1-B1	10.0	0.100	400.0	0.0025	140.56	0.2684	1.0734				
05142021a_036.d 7.225	28849V1.0R2	GA-CA*20	Sample	P1-B1	10.0	0.100	400.0	0.0025	135.44	0.2589	1.0358	1.05	105%		
05142021a_037.d 7.212	2 687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				43.77						
05142021a_038.d 7.225	5 28849V1.0R3	GA-CA*20	Sample	P1-B2	10.0	0.100	400.0	0.0025	138.65	0.2649	1.0594				
05142021a_039.d 7.212	2 28849V1.0R3	GA-CA*20	Sample	P1-B2	10.0	0.100	400.0	0.0025	141.30	0.2697	1.0789	1.07	107%	106%	1.
05142021a_040.d 7.212	2 687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				128.84						
Calculated LOD at 0.045 pg/ul_ =	19														
- hillor Ot O to Ot Date have	40														

IR-4 Western Region Laboratory, University of California, Davis

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Compound Injection Date Flonicamid 5/6/2021 08550 - Flonicamid/Onion - Sample Analy

CMR0011.0014 Condin Sample P-A3 100 CMR0011.0014 773 Goodin Sample P-A3 100 CMR0011.0014 773 Goodin Sample P-A3 100 CMR0011.0014 7721 G67-M01 055 m/L Condin Sample P-A4 100 CMR0011.0114 7721 667-M01 055 m/L Condin M-A1 100	Data File	RT	SampleName	Sample Info	Sample Type	Vial Pos	Inj Vol (µL)	6	mL Vol	ini em	Resp	Conc (pg/µL)	/ wdd	Ive ppm
0660011,0014 7731 000000 7331 000000 7331 000000 06600013,0014 7732 000000 7333 000000 7333 000000 06600013,0004 7733 000000 7333 000000 7334 944 06600013,0004 7733 6673001 5334 944 100 06600013,0014 7731 6673061 9143 100 7533 06600013,0114 7721 6673061 9141 100 100 100 100 06600013,0114 7721 6673061 9141 100 100 100 100 100 06900013,013 7721 6673061 9141 100 1010 <td< td=""><td>05062021a_001.d</td><td>1</td><td>Condition</td><td></td><td>Sample</td><td>P1-A3</td><td>10.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	05062021a_001.d	1	Condition		Sample	P1-A3	10.0							
Concortion Sample F1-A3 100 Concortion 722 Conclion 573 Conclion 573 Conclion 574 100 Concortion 7735 Conclion 573 Conclion 573 Conclion 720 Concortion 7735 Conclion 7735 Conclion 721 720 Concortion 7735 Conclion 721 Gonzal 720 720 Concortion 7735 Gonzal 720 720 720 720 Concortion 7335 Gonzal 720 Concortion 730 720	05062021a_002.d	7.721	Condition		Sample	P1-A3	10.0							
Condition Sample P1-A3 100 Condition 773 Condition Sample P1-A3 100 Condition 773 Condition Sample P1-A3 100 Condition 773 E67-396 Condition Sample P1-A3 100 Condition 773 E67-396 Condition Sample P1-A3 100 Condition 775-33 E67-396 Condition Value 100	05062021a_003.d	7.735	Condition		Sample	P1-A3	10.0							
Sample P-1-3 100 00500011 7731 Condition Sample Pi-1-3 100 00500011 7731 697-340 (10 pp)(1 Condition Sample Pi-1-3 100 00500011 7731 697-340 (10 pp)(1 Condition Sample Pi-1-3 100 05000011 7731 697-340 (10 pp)(1 Condition Na1 100 17300 05000011 7731 697-340 (10 pp)(1 Condition Na1 100 17300 17300 05000011 697-340 (10 pp)(1 Condition Na1 100	05062021a_004.d	7.721	Condition		Sample	P1-A3	10.0							
Constant, a (math condition) Samelle F1-A3 100 Condition 7735 667-3401.055 g/JM 7330 957-467 937-46 Condition 7721 667-3401.055 g/JM Calibration 944 100 Condition 7721 667-3401.055 g/JM Calibration 943 100 Condition 7721 667-3401.055 g/JM Calibration 943 100 Condition 7721 667-3401.055 g/JM Calibration 943 100 Condition 7721 687-3401.057 g/JM Calibration 941 100 1010 </td <td>05062021a_005.d</td> <td>7.721</td> <td>Condition</td> <td></td> <td>Sample</td> <td>P1-A3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	05062021a_005.d	7.721	Condition		Sample	P1-A3	10.0							
Generation 7.73 Generation Yal 100 Generation X13 Generation X13 Generation X13 X12 Generation X131 Generation X131 Generation X131 X12	05062021a_006.d	7.735	Condition		Sample	P1-A3	10.0							
Constant Dist	05062021a_007.d	7.735	Condition		Sample	P1-A3	10.0							
Constanta (0.04 7.73 687-396 (0.07) Calination Val 1.00 7.200 7.200 Constanta (0.12 7.721 687-396 (0.25) Calination Val 1.00 387.39 Constanta (0.12 7.721 687-396 (0.25) Calination Val 1.00 1.00 1.00 388.33 Constanta (0.14 2.883 DBA-CONEI Sample P1-41 1.00 1.000 -0.01 <td>05062021a_008.d</td> <td>7.721</td> <td>687-2M10 0.05 pg/µL</td> <td></td> <td>Calibration</td> <td>Vial 5</td> <td>10.0</td> <td></td> <td></td> <td></td> <td>39.46</td> <td></td> <td></td> <td></td>	05062021a_008.d	7.721	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				39.46			
	05062021a_009.d	7.735	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				73.00			
Obsection 11.1 77.1 667-246 (10 pg)(1 Calibration 100 776-3 383-3 0566021a, 013.4 77.1 667-346 (10 pg)(1 2883 DBA-CO461 Sample F1-41 100 0.100 -0.11 -0.01 0566021a, 013.4 2883 DBA-CO461 Sample F1-41 100 0.100 -0.11 -0.01	05062021a_010.d	7.721	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				187.94			
	05062021a_011.d	7.721	687-2M7 0.50 pg/µL		Calibration	Vial 2	10.0				388.39			
	05062021a_012.d	7.721	687-2M6 1.0 pg/µL		Calibration	Vial 1	10.0				776.78			
056:071.a 0110 0.100	05062021a_013.d	I	28853	DBA-C0461	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	
0563021a 2399 DB4.CA*15 Sample F1-A2 100 1000 4-10 4-01	05062021a_014.d		28853	DBA-CO461	Sample	P1-A1	10.0	0.100	10.0	0.1000	Į	<0.10	<0.01	<0.01
	05062021a_015.d	-	28989	DBA-CA*19	Sample	P1-A2	10.0	0.100	10.0	0.1000		<0.10	<0.01	
	05062021a_016.d	-	28989	DBA-CA*19	Sample	P1-A2	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01
0562021a 0121 288570.011 DBA-CO6i Sample P1-A3 10.0 01.00 66.33 0.0951 0.0053 0.0033	05062021a_017.d	7.735	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				64.29			
0562021a 7.721 288350.01X1 DBA-CO461 Sample P1-A1 10.0 0.100 6.63 0.0025 0.0055 0.0001 0.0	05062021a_018.d	7.721	28853C0.01R1	DBA-CO461	Sample	P1-A3	10.0	0.100	10.0	0.1000	61.28	0.0883	0.0088	
	05062021a_019.d	7.721	28853C0.01R1	DBA-CO461	Sample	P1-A3	10.0	0.100	10.0	0.1000	66.63	0.0951	0.0095	1600.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a_020.d	7.721	28853C1.0R1	DBA-CO461	Sample	P1-A4	10.0	0.100	400.0	0.0025	180.66	0.2405	0.9620	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a_021.d	7.735	28853C1.0R1	DBA-CO461	Sample	P1-A4	10.0	0.100	400.0	0.0025	190.53	0.2531	1.0123	0.98
6666021a_023.4 7.735 28855 DBC CO461 Sample P1-45 10.0 0.1000 872-42 1.1223 0.1123 0.1133	05062021a_022.d	7.721	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				176.02			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a_023.d	7.735	28855	DBC-CO161	Sample	P1 A5	10.0	0.100	10.0	0.1000	872.42	1.1223	0.1122	
69662021a_025d 7.735 28856 DBB-CO461 5ample P1-46 10.0 0.1000 71.68 0.9557 0.0953 0.1095 0.1095 0.1095 0.1095 0.1095 0.1095 0.1095 0.1095 0.1095 0.1095 0.1092 0.0103 0	05062021a_024.d	7.724	28855	BBC-C0461	Sample	P1 A5	10.0	0.100	10.0	0.1000	880.47	1.1326	0.1133	0.1
66662021a_025.d 7.33 288.6 BBD CO461 Sample P1.46 10.0 6.100 747.23 09623 09633 01063 747.23 09623 09633 01063 01092 0.1092 0.1093 0.1093 0.1093 0.1093 0.1093 0.1093 0.1093 0.1093 0.1093 0.1093 0.1093 0.1093 0.1093 0.1093 0.1093 0.1093 0.1093 0.1093 0.1013 0.0013	05062021a_025.d	7.735	28856	DBD-C0461	Sample	P1 A6	10.0	0.100	10.0	0.1000	741.68	0.9557	0:0956	
	05062021a_026.d	351.7	28856	DBD-C0461	Sample	P1 A6	10.0	0.100	10.0	0.1000	747.23	0.9628	0.0963	0.1(
05062021a_028.d 7.735 28991 DBC-CA*19 Sample $P1-A7$ 10.0 0.1000 77.69 0.1092 0.0109 0.0107 0.0109 0.0107 0.0109 0.0107 0.017 0.0117 0.0117 0.0125 0.0124 0.0135	05062021a_027.d	7.721	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				71.64			
05062021a_023.d 7.735 28991 DBC-CA*19 Sample P1-A7 10.0 0.1000 7.5.81 0.1068 0.0107 0.0117 0.0117 0.0117 0.0117 0.0117 0.0117 0.0117 0.0125 0.0134	05062021a_028.d	7.735	28991	DBC-CA*19	Sample	P1-A7	10.0	0.100	10.0	0.1000	77.69	0.1092	0.0109	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a_029.d	7.735	28991	DBC-CA*19	Sample	P1-A7	10.0	0.100	10.0	0.1000	75.81	0.1068	0.0107	0.01
05062021a_031.d 7.735 28992 DBD-CA*19 Sample P1-48 10.0 0.100 81.27 0.1138 0.0114 0.010 05062021a_032.d 7.735 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 192.66 192.66 05062021a_033.d 7.735 28855 (Flonicamid) DBC-C0461 Sample P1-49 10.0 0.100 40.0 0.0250 237.54 0.3130 0.1252 05062021a_035.d 7.735 28855 (Flonicamid) DBC-C0461 Sample P1-49 10.0 0.100 40.0 0.0250 237.54 0.3130 0.1252 0.1249 0.1 05062021a_035.d 7.735 28856 (Flonicamid) DBC-C0461 Sample P1-H1 10.0 0.100 40.0 0.0250 237.54 0.3120 0.1249 0.1 05062021a_035.d 7.748 28856 (Flonicamid) DBD-C0461 Sample P1-H1 10.0 0.100 40.0 0.0250 227.41 0.1299 0.1209 05062021a_037.d 7.735 687-2M8 0.25 pg/µL Zalibration Vial 3 10.0 0.100<	05062021a_030.d	7.735	28992	DBD-CA*19	Sample	P1-A8	10.0	0.100	10.0	0.1000	83.80	0.1170	0.0117	
05062021a_032.d 7.735 687-2M8 0.25 gg/uL Calibration Vial 3 10.0 192.66 05062021a_033.d 7.735 28855 (Flonicamid) DBC-CO461 Sample P1-A9 10.0 0.100 40.0 0.0250 237.54 0.3130 0.1252 05062021a_033.d 7.735 28855 (Flonicamid) DBC-CO461 Sample P1-A9 10.0 0.100 40.0 0.0250 237.54 0.3130 0.1252 05062021a_035.d 7.735 28855 (Flonicamid) DBC-CO461 Sample P1-B1 10.0 0.100 40.0 0.0250 237.54 0.3122 0.1269 0.1272 05062021a_035.d 7.748 28856 (Flonicamid) DBD-CO461 Sample P1-B1 10.0 0.100 40.0 0.0250 227.41 0.1269 0.126 05062021a_037.d 7.735 68772M8 0.25 pg/uL Calibration Vial 3 10.0 0.100 40.0 0.0250 227.41 0.1209 0.1120 05062021a_037.d 7.735 68772M8 0.25 p	05062021a_031.d	7.735	28992	DBD-CA*19	Sample	P1-A8	10.0	0.100	10.0	0.1000	81.27	0.1138	0.0114	0.01
05062021a_033.d 7.735 28855 (Flonicamid) DBC-CO461 Sample P1-A9 10.0 0.100 40.0 0.0250 237.54 0.3130 0.1252 05062021a_034.d 7.748 28855 (Flonicamid) DBC-CO461 Sample P1-A9 10.0 0.100 40.0 0.0250 237.54 0.3130 0.1252 05062021a_035.d 7.735 28856 (Flonicamid) DBC-CO461 Sample P1-B1 10.0 0.100 40.0 0.0250 237.63 0.3122 0.1299 0.1120 05062021a_035.d 7.748 28856 (Flonicamid) DBD-CO461 Sample P1-B1 10.0 0.100 40.0 0.0250 227.03 0.2741 0.1096 05062021a_037.d 7.735 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 40.0 0.0250 211.59 0.1209 0.1120 05062021a_037.d 7.735 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 0.100 40.0 0.0250 211.59 0.1200 0.1120 <td>05062021a_032.d</td> <td>7.735</td> <td>687-2M8 0.25 pg/µL</td> <td></td> <td>Calibration</td> <td>Vial 3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td>192.66</td> <td></td> <td></td> <td></td>	05062021a_032.d	7.735	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				192.66			
05062021a_034.d 7.748 28855 (Flonicamid) DBC-CO461 Sample P1-A9 10.0 0.100 40.0 0.0250 236.87 0.3122 0.1249 0.1 05062021a_035.d 7.735 28856 (Flonicamid) DBD-CO461 Sample P1-B1 10.0 0.100 40.0 0.0250 236.87 0.3122 0.1249 0.1 05062021a_035.d 7.735 28856 (Flonicamid) DBD-CO461 Sample P1-B1 10.0 0.100 40.0 0.0250 207.03 0.2741 0.1096 05062021a_037.d 7.735 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 40.0 0.0250 211.59 0.1209 0.1120 0.1 05062021a_037.d 7.735 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 40.0 0.00550 211.59 0.1209 0.1120 0.1 05062021a_037.d 7.735 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 40.0 0.00550 211.59 0.1209 0.1120 Calculated LOD at 0.0 pg/µL = 77 70 70 10.10 pg/µL <td< td=""><td>05062021a_033.d</td><td>7.735</td><td>28855 (Flonicamid)</td><td>DBC-C0461</td><td>Sample</td><td>P1-A9</td><td>10.0</td><td>0.100</td><td>40.0</td><td>0.0250</td><td>237.54</td><td>0.3130</td><td>0.1252</td><td></td></td<>	05062021a_033.d	7.735	28855 (Flonicamid)	DBC-C0461	Sample	P1-A9	10.0	0.100	40.0	0.0250	237.54	0.3130	0.1252	
05062021a_035.d 7.735 28856 (Flonicamid) DBD-CO461 Sample P1-B1 10.0 0.100 40.0 0.0250 207.03 0.2741 0.1096 0.05662021a_036.d 7.748 28856 (Flonicamid) DBD-CO461 Sample P1-B1 10.0 0.100 40.0 0.0250 211.59 0.2799 0.1120 0.1 05065021a_037.d 7.735 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 1.00 40.0 1.00 40.0 0.02550 211.59 0.2799 0.1120 0.1 05065021a_037.d 7.735 687-2M8 0.25 pg/µL 2 27 Calibration Vial 3 10.0 1.00 40.0 1.00 40.0 1.00550 211.59 0.2799 0.1120 0.1 05065021a_037.d 7.735 687-2M8 0.25 pg/µL 2 27 1.0 0.100 40.0 1.00 40.0 1.00 40.0 1.00 40.0 0.02550 211.59 0.2799 0.1120 0.1 05065021a_037.d 7.735 687-2M8 0.25 pg/µL 2 27 Calibration Vial 3 10.0 1.00 40.0 1.00 40.0 1.05550 211.59 0.2799 0.1120 0.1 0.1 05065021a_037.d 7.735 687-2M8 0.25 pg/µL 2 27 1.0 0.100 40.0 1.00 40.0 1	05062021a_034.d	7.748	28855 (Flonicamid)	DBC-C0461	Sample	P1-A9	10.0	0.100	40.0	0.0250	236.87	0.3122	0.1249	0.1
05062021a_036.d 7,748 28856 (Flonicamid) DBD-CO461 Sample P1-B1 10.0 0.100 40.0 0.0250 211.59 0.2799 0.1120 0.1 05062021a_037.d 7.735 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 40.0 1.00 1.85.50 Calculated LOD at 0.045 pg/µL = 27 Calculated LOQ at 0.10 pg/µL = 70 "" denotes response below area threshold	05062021a_035.d	7.735	28856 (Flonicamid)	DBD-C0461	Sample	P1-B1	10.0	0.100	40.0	0.0250	207.03	0.2741	0.1096	
05062021a_037.d 7.735 687-2M8 0.25 pg/μL Calibration Vial 3 10.0 185.50 Calculated LOD at 0.045 pg/μL = 27 Calculated LOQ at 0.10 pg/μL = 70 "" denotes response below area threshold	05062021a_036.d	7.748	28856 (Flonicamid)	DBD-C0461	Sample	P1-B1	10.0	0.100	40.0	0.0250	211.59	0.2799	0.1120	0.1
Calculated LOD at 0.045 pg/µL = 27 Calculated LOQ at 0.10 pg/µL = 70 "" denotes response below area threshold	05062021a_037.d	7.735	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				185.50			
Calculated LOQ at 0.10 pg/µL = 70 "" denotes response below area threshold	Calculated LOD at 0.045	= hd/ht	27											
"" denotes response below area threshold	Calculated LOQ at 0.10 p	g/µL =	70											
	"" denotes response t	below area thre	schold											
	and the second s													

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IR-4 Western Region Laboratory, University of California, Davis



Printed at: 9:21 AM on: 5/7/2021

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Compound Injection Date TFNA-AM 5/6/2021 08550 - Flonicamid/Onion - Common

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Data File	RT	SampleName	Sample Info	Type /	Vial Pos	(hr)	D	mL Vol	ing Inj	Resp	(Jµ/)	/ mqq	Ave ppm	% Rec
05062021a_001.d	1	Condition		Sample	P1-A3	10.0								
05062021a_002.d	5.311	Condition		Sample	P1-A3	10.0								
05062021a_003.d	5.311	Condition		Sample	P1-A3	10.0								
05062021a_004.d	5.324	Condition		Sample	P1-A3	10.0								
05062021a_005.d	5.311	Condition		Sample	P1-A3	10.0								
05062021a_006.d	5.311	Condition		Sample	P1-A3	10.0								
05062021a_007.d	5.324	Condition		Sample	P1-A3	10.0								
05062021a_008.d	5.324	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				103.75				
05062021a_009.d	5.324	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				217.34				
05062021a_010.d	5.311	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				527.23				
05062021a_011.d	5.311	687-2M7 0.50 pg/µL		Calibration	Vial 2	10.0				1071.15				
05062021a_012.d	5.297	687-2M6 1.0 pg/µL		Calibration	Vial 1	10.0				2150.88				
05062021a_013.d	-	28853	DBA-CO461	Sample	P1-A1	10.0	0.100	10.0	0.1000	I	<0.10	<0.01		
05062021a_014.d		28853	DBA-CO461	Sample	P1-A1	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
05062021a_015.d		28989	DBA-CA*19	Sample	P1-A2	10.0	0.100	10.0	0.1000		<0.10	<0.01		
05062021a_016.d		28989	DBA-CA*19	Sample	P1-A2	10.0	0.100	10.0	0.1000	I	<0.10	<0.01	<0.01	
05062021a_017.d	5.324	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				172.29				
05062021a_018.d	5.311	28853C0.01R1	DBA-CO461	Sample	P1-A3	10.0	0.100	10.0	0.1000	165.24	0.0922	0.0092		
05062021a_019.d	5.324	28853C0.01R1	DBA-CO461	Sample	P1-A3	10.0	0.100	10.0	0.1000	171.74	0.0952	0.0095	0.00937	94%
05062021a_020.d	5.324	28853C1.0R1	DBA-CO461	Sample	P1-A4	10.0	0.100	400.0	0.0025	474.88	0.2345	0.9378		
05062021a_021.d	5.324	28853C1.0R1	DBA-CO461	Sample	P1-A4	10.0	0.100	400.0	0.0025	470.94	0.2326	0.9306	0.934	93%
05062021a_022.d	5.311	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				461.18				
05062021a_023.d	1	28855	DBC-CO461	Sample	P1-A5	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
05062021a_024.d		28855	DBC-CO461	Sample	P1-A5	10.0	0.100	10.0	0.1000	-	<0.10	<0.01	<0.01	
05062021a_025.d	ŀ	28856	DBD-CO461	Sample	P1-A6	10.0	0.100	10.0	0.1000		<0.10	<0.01		
05062021a_026.d	-	28856	DBD-CO461	Sample	P1-A6	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
05062021a_027.d	5.324	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				197.86				
05062021a_028.d	1	28991	DBC-CA*19	Sample	P1-A7	10.0	0.100	10.0	0.1000	-	<0.10	<0.01		
05062021a_029.d	ļ	28991	DBC-CA*19	Sample	P1-A7	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01	
05062021a_030.d	-	28992	DBD-CA*19	Sample	P1-A8	10.0	0.100	10.0	0.1000		<0.10	<0.01		
05062021a_031.d]	28992	DBD-CA*19	Sample	P1-A8	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
05062021a_032.d	5.311	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				470.09				
05062021a_033.d	ľ	28855 (Flonicamid)	DBC-C0461	Sample	P1-A9	10.0	0.100	40.0	0:0250	1	€0:10	€0:01		
05062021a_034.d	1	28855 (Flonicamid)	DBC-C0461	Sample	P1-A9	10.0	0.100	40.0	0.0250	l	<0.10	<0.01	+0:0+	
05062021a_035.d	1	28856 (Flonicamid)	DBD-CO461	Sample	P1-B1	10.0	0.100	40.0	0.0250	l	€0:10	+0.0+		
05062021a_036.d	l	28856 (Flonicamid)	DBD-CO461	Sample	P1 B1	10.0	0.100	40.0	0.0250	1	<0.10	€0:01	+0.0+	
05062021a_037.d	5.311	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				476.88				
Calculated LOD at 0.045	= hg/ht	63												
Calculated LOQ at 0.10 p	= Jrl/bc	182												
"" denotes response	below area thre	shold												
Strikethrough denotes d	ata not used, di	ilutions used for CO461 flonic	amid samples only											

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Calibration

D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05062021\05062021a_008.d

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WAD IZ/Z/S

Compound Injection Date TFNA 5/6/2021 08550 - Flonicamid/Onion - Sample Analysis - Field Trials CO461, CA*19 - Extracted 5/6/2021 by ASM

Montant m montant m montant m	Biological Joint Touline Sample Fi-1 Contine Sample Fi-3 DDD 0560233_J0143 6.07 Contine Sample Fi-3 DD 0560233_J0143 6.07 Contine Sample Fi-3 DD 0560233_J013_J0143 6.07 Contine Sample Fi-3 DD 0560233_J013_J0143 6.07 Contine Sample Fi-3 DD 0560233_J013_J014 6.07 Contine Sample Fi-3 DD 0560233_J013_J014 6.07 Contine Sample Fi-3 DD 0560233_J013_J014 6.010 6737 Contine Sample Fi-4 DD		ł	SamuleName	Samle Info	Sample Type	fial Pos	Inj Vol (uL)		mL Vol	ini m	Resp	(pg/hr)	mdd	Ave ppm	% Rec
Control Control Same P-13 DDD Control Control Same P-13 DDD P-13 Control Control Val DDD	Condential, Job 24 6.07 Condential Sample Fi-M3 100 Condential, Job 24 6.037 Condential Sample Fi-M3 100 Condential, Job 24 6.010 6.017 Condential Sample Fi-M3 100 Condential, Job 24 6.010 6.017 Condential Viel 1 100 100 100 Condential, Job 24 6.010 6/07 6/07 Viel 1 100 <td< td=""><td>ALL TIC TIC</td><td></td><td>Condition</td><td></td><td>Samole</td><td>P1-A3</td><td>10.0</td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	ALL TIC TIC		Condition		Samole	P1-A3	10.0	•							
Control Same F-7.3 L00 0600031_J0014 6.07 Control Same F-3.4 L00 0600031_J0014 6.07 60000 V01 L00 F-3.4 L00 0600031_J0124 5.09 607-90 Control V14 L00 L00 P-3.4 L00 0600031_J0124 5.09 607-90 Control V14 L00 L00 P-3.4 L00 0600031_J0124 5.09 607-90 V14 L00 L00 P-3.4 L00	Obsection Sample F1-N3 Loc Condition Sample F1-N3 Loc 05600313, 00.44 6.037 Condition Sample F1-N3 100 05600313, 00.44 6.037 Condition Sample F1-N3 100 05600313, 00.44 6.037 Condition Sample F1-N3 100 05600313, 00.44 6.010 6673 Me 0.15 ppl. Condition Sample F1-N3 100 05600313, 01.41 6.010 6673 Me 0.15 ppl. Condition Na1 100 2100 101 210 201	D'TOO PTZOZOOCO	1	Condition		alduna	CV-10	10.01								
000000000000000000000000000000000000	OBSORDIAL D014 G017 Condition Sample F1-A3 100 OBSORDIAL D014 G037 Condition Sample F1-A3 100 OBSORDIAL D014 G037 Condition Sample F1-A3 100 OBSORDIAL D014 G019 G637 Condition Sample F1-A3 100 OBSORDIAL D014 G010 6677 G0010501 G617 G010 G77-A0 G164 OBSORDIAL D014 G010 6677-A0 G87-A0 G100 G101 G10	05062021a_002.d	6.037	Condition		sample	CH-14	10.01								
0600011, 014 6.07 Condico Same P.1.3 100 0600011, 016 6.01 677.96 Condico 9.1.3 100 0600011, 016 6.01 677.96 Condico 9.1.3 100 1	Condition Sample P1-A3 100 Condition Condition Sample P1-A3 100 Constrata_L06.4 6.07 Condition Sample P1-A3 100 Constrata_L06.4 6.07 Condition Sample P1-A3 100 Constrata_L06.4 6.07 Condition Sample P1-A3 100 Constrata_L06.4 6.00 657-30(1-0) 000 97-44 100 Constrata_L06.4 6.00 657-30(1-0) 97-44 100 100 74-44 Constrata_L01.4 6.00 677-30(1-0) 57-30(1-0) 100	05062021a_003.d	6.037	Condition		Sample	FA-14	10.0								
Condition Sample F1-3 100 Condition 6.037 Condition Sample F1-3 100 Condition 6.037 Condition Sample F1-3 100 Condition 6.030 677-900 (15 g/s)(1 Condition Sample F1-3 100 Condition 6.030 677-900 (15 g/s)(1 Condition Val 100 100 Val 100 Condition 6.010 677-900 (15 g/s)(1 Condition Val 100 <td>Condition Sample P1-A3 100 Condition Condition Sample P1-A3 100 Condition 6.07 Condition Sample P1-A3 100 Condition 6.07 Condition Sample P1-A3 100 Condition 6.07 Condition Sample P1-A3 100 Condition 6.00 67.249 Long Sample P1-A3 100 Condition 67.01 67.01 67.01 67.01 67.01 60.01 67.01 60.01 67.01 60.01 67.01 60.01 67.01 60.01</td> <td>05062021a_004.d</td> <td>6.037</td> <td>Condition</td> <td></td> <td>Sample</td> <td>P1-A3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Condition Sample P1-A3 100 Condition Condition Sample P1-A3 100 Condition 6.07 Condition Sample P1-A3 100 Condition 6.07 Condition Sample P1-A3 100 Condition 6.07 Condition Sample P1-A3 100 Condition 6.00 67.249 Long Sample P1-A3 100 Condition 67.01 67.01 67.01 67.01 67.01 60.01 67.01 60.01 67.01 60.01 67.01 60.01 67.01 60.01	05062021a_004.d	6.037	Condition		Sample	P1-A3	10.0								
Concorta, Doto GD Condio Sample P1-3 100 Concorta, Dota GD Condion Sample P1-3 100 Concorta, Dota GD SCORD, DOTA GD SCORD, DOTA Sample P1-3 100 Concorta, Dota GD SCORD, DOTA GD SCORD, DOTA P1-3 100 Concorta, DOLA GD SCORD, DOTA GD SCORD, DOTA P1-3 100 Concorta, DOLA GD SCORD, DOLA P1-4 100 100 P1-4 P1-4 <td>Constant, 00.64 6.07 Condition Sample P1-A3 10.0 66960713, 00.64 6.03 667-749 (0.16) 73 75 75 66960713, 00.64 6.010 677-740 (0.16) 71 100 71 65060713, 01.04 6.010 677-740 (0.16) Colification Val 100 71 65060713, 01.04 6.010 677-740 (0.16) Colification Val 100 71 100 65060713, 01.04 6.010 677-740 (0.16) Colification Val 100 100 100 100 100 100 100 100 100 101</td> <td>05062021a_005.d</td> <td>6.037</td> <td>Condition</td> <td></td> <td>Sample</td> <td>P1-A3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Constant, 00.64 6.07 Condition Sample P1-A3 10.0 66960713, 00.64 6.03 667-749 (0.16) 73 75 75 66960713, 00.64 6.010 677-740 (0.16) 71 100 71 65060713, 01.04 6.010 677-740 (0.16) Colification Val 100 71 65060713, 01.04 6.010 677-740 (0.16) Colification Val 100 71 100 65060713, 01.04 6.010 677-740 (0.16) Colification Val 100 100 100 100 100 100 100 100 100 101	05062021a_005.d	6.037	Condition		Sample	P1-A3	10.0								
Condition 0.01 Condition 0.01 Condition 0.01 Condition 0.01 Sample 0.13 1.00 Condition 0.01 6.01 67.246 2.44 2.01 5.54 Condition 0.01 67.246 2.44 2.01 5.54 5.54 Condition 0.010 67.246 2.010 67.246 2.010 6.011	Generation Gamma First 10.0 5.64 6.7-46 5.64 Generation 6.03 667-340 6.03 667-340 5.03 567-346 5.04 Generation 6.01 667-340 6.00 667-340 5.00 567-346 5.00 567-346 5.00 567-346 5.00 567-346 5.00 567-346 5.00 567-346 5.00 567-346 5.00 567-346 5.00 567-346 5.00 57-346 5.00 567-346 5.00 57-346 5.00 57-346 5.00 57-346 5.00 57-346 5.00 57-346 5.00 57-346 5.00 57-346 5.00 57-346 5.00 567-347 5.00 5.00 57-346 5.00 5.0	05062021a_006.d	6.037	Condition		Sample	P1-A3	10.0								
Constrata Constrata <t< td=""><td>Offsonting and constant and constant constant constant and constant and constant constant and const</td><td>05062021a_007.d</td><td>6.037</td><td>Condition</td><td></td><td>Sample</td><td>P1-A3</td><td>10.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Offsonting and constant and constant constant constant and constant and constant constant and const	05062021a_007.d	6.037	Condition		Sample	P1-A3	10.0								
Constrata 0014 Collection Vial 3 100 77.44 CONSTRALL 0114 C010 667.2490.01 Pojlit Collection Vial 3 100 34155 CONSTRALL 0114 C010 667.2490.01 Pojlit Collection Vial 3 100 34155 CONSTRALL 0114 C010 667.2490.01 Pojlit Collection Vial 3 100 2000 40.10 40.10 40.10 40.10 40.10 40.11	Constant Collection Vol Total Total <thtotal< th=""> Total Total</thtotal<>	05062021a_008.d	6.024	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				36.96				
Concrita_0104 6010 687-348 Concreta 100 1105 </td <td>Generation 6.010 687-2490 C.S. (600 687-2490 Collection Val 100 315.6 05060231a_012.d 6.010 687-2490 Sey7 987-240 200 912.6 912.6 05060231a_012.d 6.010 687-340 Sey7 987-346 10.00</td> <td>05062021a 009.d</td> <td>6.010</td> <td>687-2M9 0.10 pg/µL</td> <td></td> <td>Calibration</td> <td>Vial 4</td> <td>10.0</td> <td></td> <td></td> <td></td> <td>67.44</td> <td></td> <td></td> <td></td> <td></td>	Generation 6.010 687-2490 C.S. (600 687-2490 Collection Val 100 315.6 05060231a_012.d 6.010 687-2490 Sey7 987-240 200 912.6 912.6 05060231a_012.d 6.010 687-340 Sey7 987-346 10.00	05062021a 009.d	6.010	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				67.44				
Constration 6100 673-397 667-361 3013 3113 3113 Constration 13 5.997 667-347 Colmente Val 100 201	Gib (500011a, 011.d) G(0) G(72/14) (15 proj)t Calibration Via 1 D00 D100 D101 D101 <thd101< th=""> D101 D101<!--</td--><td>05062021a 010.d</td><td>6.010</td><td>687-2M8 0.25 pg/µL</td><td></td><td>Calibration</td><td>Vial 3</td><td>10.0</td><td></td><td></td><td></td><td>160.66</td><td></td><td></td><td></td><td></td></thd101<>	05062021a 010.d	6.010	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				160.66				
Constration 5.997 G67/206.11 Collection Val 100 Collection <	05062011_0124 5.97 667-206 L0 pql4 Collection Val.1 100	05062021a 011.d	6.010	687-2M7 0.50 pg/µL		Calibration	Vial 2	10.0				341.56				
05060011 01 010 010 010 0100 0100 0100 010 0100 010 <th< td=""><td>05062013_011d </td><td>05062021a 012.d</td><td>5.997</td><td>687-2M6 1.0 pg/pL</td><td></td><td>Calibration</td><td>Vial 1</td><td>10.0</td><td></td><td></td><td></td><td>682.21</td><td></td><td></td><td></td><td></td></th<>	05062013_011d	05062021a 012.d	5.997	687-2M6 1.0 pg/pL		Calibration	Vial 1	10.0				682.21				
05962011_014	05662013_014 2883 DBACO461 Sample P1A1 10.0 0.100 0.100 6.01<	05062021a 013.d	-	28853	DBA-CO461	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
05062021a_0154	0566201a_015d 2899 DBA-CN*19 Sample P1-A2 10.0 0.100 <-0.10	05062021a 014.d	1	28853	DBA-CO461	Sample	P1-A1	10.0	0.100	10.0	0.1000	l	<0.10	<0.01	<0.01	
OSG2021a_015d	05662013_016d 2396 D84-CM*19 Sample P1-A2 100 0.100 0.100 0.100 6.01 6.	05062021a 015.d	1	28989	DBA-CA*19	Sample	P1-A2	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
GS062013_011/d 6.024 6877-396 0.10 pyll Calibration Vol 100 55.04 57.378	Gib Signal (3) G (3) <thg (3)<="" th=""> G (3) <thg (3)<="" th=""> G (3)</thg></thg>	05062021a 016.d	l	28989	DBA-CA*19	Sample	P1-A2	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01	
05062071a 0184 6.037 28835C0.0181 DBA-CO461 Sample F1-A3 10.0 0.100 6.047 0.0973 0.0013 0.0013 0.0013 0.0013 0.00133 0.00133 0.00133 0.00133 0.00133 0.00133 0.00133 0.00133 0.00133 0.00133 0.00133 0.00133 0.00133 0.00133 0.00133 0.00133 0.00133 </td <td>050620114_018.d 6.037 28853C0.01K1 DBA-CO+61 Sample P1-A3 10.0 0.100 0.000 0.0973 0.00170 0.0100 0.01013 0.01013 0.01013 0.01013 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110</td> <td>05062021a 017.d</td> <td>6.024</td> <td>687-2M9 0.10 pg/pL</td> <td></td> <td>Calibration</td> <td>Vial 4</td> <td>10.0</td> <td></td> <td></td> <td></td> <td>55.04</td> <td></td> <td></td> <td></td> <td></td>	050620114_018.d 6.037 28853C0.01K1 DBA-CO+61 Sample P1-A3 10.0 0.100 0.000 0.0973 0.00170 0.0100 0.01013 0.01013 0.01013 0.01013 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110 0.0110	05062021a 017.d	6.024	687-2M9 0.10 pg/pL		Calibration	Vial 4	10.0				55.04				
050620114 010 6.03 28853C.01R Dek-CO+61 Sample P1-A3 10.0 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000 0.100 0.000		05062021a 018.d	6.037	28853C0.01R1	DBA-CO461	Sample	P1-A3	10.0	0.100	10.0	0.1000	60.45	0.0973	0.0097		
GioGamma (2014) SBRSTLINE1 DBA-COH61 Sample P1-M1 100 0.100 40.00 0.0025 164.06 0.2478 0.9913 9996 0562071a, 0724 6.010 6.024 28855CL0R1 DBA-COH61 Sample P1-M5 100 0.100 0.0025 162.06 0.2449 0.9956		05062021a 019.d	6.037	28853C0.01R1	DBA-CO461	Sample	P1-A3	10.0	0.100	10.0	0.1000	59.49	0.0959	9600.0	0.00966	9/6/6
6562071a_021d 6.024 28853C10/1 DBA-CO461 Sample P1-A4 100 0.100 0.0025 12.05 0.2449 0.27956 0.9555 0.9565 0.9131 0.013 0.010 0.010 0.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a 020.d	6.024	28853C1.0R1	DBA-CO461	Sample	P1-A4	10.0	0.100	400.0	0.0025	164.06	0.2478	0.9913		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		05062021a 021.d	6.024	28853C1.0R1	DBA-CO461	Sample	P1-A4	10.0	0.100	400.0	0.0025	162.06	0.2449	0.9796	0.985	%66
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		05062021a 022.d	6.010	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				162.73				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a 023.d		28855	DBC-CO461	Sample	P1-A5	10.0	0.100	10.0	0.1000	l	<0.10	<0.01		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a 024.d	ł	28855	DBC-CO461	Sample	P1-A5	10.0	0.100	10.0	0.1000	t	<0.10	<0.01	<0.01	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a_025.d		28856	DBD-CO461	Sample	P1-A6	10.0	0.100	10.0	0.1000		<0.10	<0.01		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a 026.d	1	28856	DBD-CO461	Sample	P1-A6	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01	
05062021a_028d 6.051 28991 DBC-CA*19 Sample P1-A7 10.0 0.100 0.0 <th< td=""><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>05062021a 027.d</td><td>6.010</td><td>687-2M9 0.10 pg/µL</td><td></td><td>Calibration</td><td>Vial 4</td><td>10.0</td><td></td><td></td><td></td><td>61.58</td><td></td><td></td><td></td><td></td></th<>	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a 027.d	6.010	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				61.58				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a_029.d 6.051 28991 DBC-CA*19 Sample P1-A7 10.0 0.100 0.0 86.82 0.1356 0.01356 0 05062021a_030.d 6.051 28992 DBD-CA*19 Sample P1-A8 10.0 0.100 10.0 0.100 93.31 0.1450 0.0145 05062021a_031.d 6.051 28992 DBD-CA*19 Sample P1-A8 10.0 0.100 97.61 0.1450 0.0145 05062021a_032.d 6.010 687-2M8 0.25 pg/ul 28992 DBD-CA*19 Sample P1-A8 10.0 0.100 97.61 0.1450 0.0145 05062021a_032.d 6.010 687-2M8 0.25 pg/ul 28855 (Florieamid) DBC-CO461 Sample P1 A9 40.0 0.100 97.61 0.1513 0.0151 (05062021a_037.d 6.010 687-2M8 0.25 pg/ul 28855 (Florieamid) DBC-CO461 Sample P1 A9 40.0 40.0 40.04 40.01 40.01 40.01 40.01 40.01 40.01 <td>05062021a 028.d</td> <td>6.051</td> <td>28991</td> <td>DBC-CA*19</td> <td>Sample</td> <td>P1-A7</td> <td>10.0</td> <td>0.100</td> <td>10.0</td> <td>0.1000</td> <td>83.79</td> <td>0.1312</td> <td>0.0131</td> <td></td> <td></td>	05062021a 028.d	6.051	28991	DBC-CA*19	Sample	P1-A7	10.0	0.100	10.0	0.1000	83.79	0.1312	0.0131		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a 0301 6.051 28992 DBD-CA*19 Sample P1-A8 10.0 0.100 93.31 0.1450 0.0145 05062021a 0311 6.051 28992 DBD-CA*19 Sample P1-A8 10.0 0.100 97.61 0.1450 0.0145 05062021a 0312 6.010 687-2M8 0.25 pg/ul Calibration Vial 10.0 0.100 97.61 0.1513 0.0151 0 05062021a 0324 - 28855 (Florinemid) DBC-CA461 Sample P1-A8 10.0 0.100 10.0 9.100 97.61 0.1513 0.0151 0 05062021a 0354 - 28855 (Florinemid) DBC-CA461 Sample P1 A9 9.00 9.00 9.01 9.	05062021a_029.d	6.051	28991	DBC-CA*19	Sample	P1-A7	10.0	0.100	10.0	0.1000	86.82	0.1356	0.0136	0.013	
05062021a_031.d 6.051 28992 DBD-CA*19 Sample P1-A8 10.0 0.100 97.61 0.1513 0.0151 0.0151 05062021a_032.d 6.010 687-2M8 0.25 pg/uL Calibration Vial 3 10.0 97.61 0.1513 0.0151 0.0151 0.0151 05062021a_032.d 6.010 687-2M8 0.25 pg/uL Calibration Vial 3 10.0 97.61 0.1513 0.0151 0.0151 0.0151 95662021a_033.d 28855 (Flonicamid) DBC-CO461 Sample P1 + A9 10.0 0.100 49.0 0.0250 <0.01	05062021a_031.d 6.051 28992 DBD-CA*19 Sample P1-A8 10.0 0.100 97.61 0.1513 0.0151 C 05062021a_032.d 6.010 687-2M8 0.25 pg/ul Calibration Vial 3 10.0 0.100 97.61 0.1513 0.0151 C 05062021a_032.d 6.010 687-2M8 0.25 pg/ul Calibration Vial 3 10.0 0.100 97.61 0.1513 0.0151 C 05062021a_032.d 28855 (Floricamid) DBC-CO461 Sample P1 A0 0.006 40.0 0.0206 -60.10 -60.01 40.01 40.01 40.01 40.01 - 40.01 - 40.01	05062021a_030.d	6.051	28992	DBD-CA*19	Sample	P1-A8	10.0	0.100	10.0	0.1000	93.31	0.1450	0.0145		
05062021a_032.d 6.010 687-2M8 0.25 pg/ul Calibration Val 3 10.0 162.63 05062021a_032.d 28855 (Floricemid) DBC-CO461 Sample P1.49 10.0 61.90 60.91 60.91 05062021a_032.d 28855 (Floricemid) DBC-CO461 Sample P1.49 10.0 61.90 60.91 60.91 05062021a_035.d 28855 (Floricemid) DBC-CO461 Sample P1.49 10.0 61.90 40.90 60.929 60.10 60.91 05062021a_035.d 28856 (Floricemid) DBD-CO461 Sample P1.81 10.0 61.90 40.90 60.929 60.10 60.91 05062021a_037.d 6.010 687-2M8 0.25 pg/uL Calibration Val 3 10.0 41.90 40.9 60.92.90 60.10 60.91 05062021a_037.d 6.010 687-2M8 0.25 pg/uL Calibration Val 3 10.0 41.90 40.90 60.91 60.91 05062021a_037.d 6.010 687-2M8 0.25 pg/uL Calibration Val 3	05062021a 032.04 6.010 $687-2M8$ 0.25 162.63 162.63 05062021a 033.4 $ 28855$ (Floricamid) DBC-CO461 Sample $P1.A0$ 10.0 162.63 -0.10 6.01	05062021a_031.d	6.051	28992	DBD-CA*19	Sample	P1-A8	10.0	0.100	10.0	0.1000	97.61	0.1513	0.0151	0.015	
95662021a_033.d — 28855 (Floricamid) DBC-CO461 Sample PL 40 40.0 0.400 40.01 60.01 60.01 95662021a_035.d — 28855 (Floricamid) DBC-CO461 Sample PL 40 40.0 0.400 40.01 60.01 <	05062021a 033.4 — 28855 (Floricamid) DBC-CO461 Sample PL A0 10.0 40.0 60.02 60.01 40.0 60.01 60.01 40.01 60.01 40.01 40.01 60.01 40.01 </td <td>05062021a_032.d</td> <td>6.010</td> <td>687-2M8 0.25 pg/µL</td> <td></td> <td>Calibration</td> <td>Vial 3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td>162.63</td> <td></td> <td></td> <td></td> <td></td>	05062021a_032.d	6.010	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				162.63				
05062021a_0234	05062021a 0314 — 28855 (Florieamid) DBC-CO461 Sample PL 40 40-10 40-30 6-0.26 — <60-11 <60-11 < <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <60-11 <td>05062021a_033.d</td> <td>1</td> <td>28855 (Flonicamid)</td> <td>DBC-CO461</td> <td>Sample</td> <td>PI-M9</td> <td>10.0</td> <td>0.100</td> <td>40.0</td> <td>0.0250</td> <td>1</td> <td>€0.10</td> <td>€0:01</td> <td></td> <td></td>	05062021a_033.d	1	28855 (Flonicamid)	DBC-CO461	Sample	PI-M9	10.0	0.100	40.0	0.0250	1	€0.10	€0:0 1		
05062021a_035.d — 28856 (Floricamid) DBD-CO461 Sample P1-B1 40.0 0.100 40.0 0.0250 — <0.10 40.01 05062021a_037.d 6.010 687-2M8 0.25 pg/µL DBD-CO461 Sample P1-B1 40.0 0.100 0.0250 — <0.01	05062021a 035.6	05062021a 034.d	1	28855 (Flonicamid)	DBC-CO461	Sample	P1-49	10.0	0.100	40.0	0.0250	I	+0:10	€0:01	€0:0}	
05062021a_036.d	05062021a_036.d 28856 (Florieamid) DBD-CC0461 Sample P1 BI 10.0 0.00 0.0259 <0.10 <0.10 <0.10 0.0251a 0.01 6.010 6.010 6.010 6.010 6.010 6.010 6.010 6.010 6.011 6.010 6.011 6.010 6.010 6.010 6.011 6.010 <	05062021a 035.d	Ì	28856 (Flonicamid)	DBD-CO461	Sample	P1 B1	10.0	0.100	40.0	0:0250	I	01.0	<0.01		
05062021a_037.d 6.010 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 165.67 Calculated LOD at 0.045 pg/µL = 24 Calculated LOQ at 0.10 pg/µL = 62 " " "	05062021a_037.d 6.010 687-2M8 0.25 pg/JL Calibration Vial 3 10.0 165.67 Calculated LOD at 0.045 pg/JL = 24 Calculated LOQ at 0.10 pg/JL = 62 "" denotes response below area threshold	05062021a 036.d	Ĭ	28856 (Flonicamid)	DBD-CO461	Sample	P1-B1	10.0	0.100	40.0	0:0250	I.	01.0×	+0:0+	€0:01	
Calculated LOD at 0.045 pg/µL = 24 Calculated LOQ at 0.10 pg/µL = 62	Calculated LOD at 0.045 pg/µL = 24 Calculated LOQ at 0.10 pg/µL = 62 "" denotes response below area threshold	05062021a 037.d	6.010	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				165.67				
Calculated LOQ at 0.10 $pg/pt = 62$	Calculated LOQ at 0.10 pg/µL = 62 "" denotes response below area threshold	Calculated LOD at 0.045	= hg/hr =	24												
II I diamana manana katana k	"" denotes response below area threshold	Calculated LOO at 0.10	pd/hr =	62												
		" " donotoc vornonco	the are moled	achold												

Target Compound TFNA	CurveFit fitLinear	Weighting weightEqual	Integrator Agile	Smoothing Gaussian	Smooth	ningFunction 10	Width	Smoo	othingGaussi	anWidth
TFNA - 5 Levels, 5 ee x10 2 y = 688 6.5 Type:L	Levels Used 3.188430 * x 0.99936164 inear, Origin:	l, 10 Points, 10 - 6.485647 Ignore, Weight:	Points Used, (None	0 QCs						
کو ت کر م			4D	mao 12/2/3						
4.5- 4.5-										
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-0	0.05 0.1 0.	.15 0.2 0.25	0.3 0.35 0.	4 0.45 0.5 0	.55 0.6	0.65 0.7	0.75 0	8 0.85	0.9 0.95 Concentra	1 1.05 ation (na/ml)
Calibration STD				J	Cal Type	Level	Enabled	R	esponse	Exp Conc
D-\MassHunter\Flonicami	d\08550 Onion\D	ata\Results\0506202	1\05062021a 012.	p p	Calibration	1	D		682.21	1.0000
D-\MassHunter\Flonicami	d\08550 Onion\D	ata\Results\0506202	1\05062021a 011.	p	Calibration	2	D		341.56	0.5000
D-\MassHunter\Flonicami	d\08550 Onion\Da	ata\Results\0506202	1\05062021a 010.	P P	Calibration	m			160.66	0.2500
D-\MassHunter\Flonicami	d\08550 Onion\Di	ata\Results\0506202	1\05062021a 022.	p p	Calibration	e			162.73	0.2500
D:\MassHunter\Flonicami	d\08550 Onion\Di	ata\Results\0506202	1\05062021a_032.	о 0	Calibration	e			162.63	0.2500
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D:\MassHunter\Flonicami	d\08550 Onion\D	ata\Results\0506202	21\05062021a_009.	р.	Calibration	4			67.44	0.1000
D:\MassHunter\Flonicami	d/08550 Onion/D	ata\Results\0506202	21\05062021a_017	p.	Calibration	4			55.04	0.1000
D:\MassHunter\Flonicami	d\08550_Onion\D	ata\Results\0506202	21\05062021a_027	p.	Calibration	4	Þ		61.58	0.1000
imening (notoring	AVAREED Onion/D	CU20201144/050620	008 008 008	ц Ч	Calibration	2	D		36.96	0.0500

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Calibration

Printed at: 9:21 AM on: 5/7/2021

5/7/21 adm

Compound Injection Date 2/ +/21 TFNG 5/6/2021 08550 - Fionicamid/Onion - Sample Analysis - Field Trials CO461, CA*19 - Extracted 5/6/2021 by ASM

Openation Description Description <thdescription< th=""> <thdescription< th=""> <</thdescription<></thdescription<>	Data File	RT	SampleName	Sample Info	Sample Type	Vial Pos	Inj Vol (µL)	D	mL Vol	ini em	Resp	Conc (pg/µL)	/ udd	Ave ppm	% Rec
Sector, 00.1 71.1 Content Same P1.43 DDD Sector, 10.1 71.21 Content 5.00 1.01 1.01 Sector, 10.01 71.21 Content 5.00 1.01 1.01 Sector, 10.01 71.21 Content 5.00 1.01 1.01 Sector, 10.01 71.21 Content 5.00 1.01 1.01 1.01 Sector, 10.01 71.21 Content 5.00 1.01 1.01 1.01 1.01 Sector, 10.01 71.21 Sector, 10.01 1.01	05062021a 001 d		Condition		Sample	P1-A3	10.0								
696001.0014 212 Condin Sample F.M.3 100 696001.1010 7.213 Condin Sample F.M.3 100 60601.1010 7.213 Condin Sample F.M.3 100 60601.1010 7.213 Condin Sample F.M.3 100 60601.1010 7.213 607.701.0100 7.213 607.701.0100 7.213 607.701.0100 7.213 60601.10101 7.213 607.701.01001 7.213 607.701.0100 7.213 607.701 7.213 60601.10101 7.213 607.701.01001 7.213 607.701 7.213 7.214 7.214 606001.10101 7.213 607.701 7.201 7.	05062021a 002.d	7.212	Condition		Sample	P1-A3	10.0								
Generation Mode Z121 Condine Same Fi-A3 Dial Generation Mode 7212 Condine Fi-A3 Dial Generation Mode 7213 Generation Mode Fi-A3 Dial Dial Generation Mode 7213 Generation Mode Fi-A3 Dial Dial </td <td>05062021a 003.d</td> <td>7.212</td> <td>Condition</td> <td></td> <td>Sample</td> <td>P1-A3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	05062021a 003.d	7.212	Condition		Sample	P1-A3	10.0								
690001.0016 7.212 Conditio Simple Fi-JA DIO 690001.12 7.213 667-706 7.213 667-706 7.213 677-70 7.213 690001.12 7.213 667-706 7.213 667-706 7.213 7.213 7.214 7.213 7.214	05062021a 004.d	7.212	Condition		Sample	P1-A3	10.0								
060000113 0113 Condition Sample F1-A3 100 060000113 7.212 667-360 0.313 0.03 060000113 7.213 667-360 0.313 0.03 060000124 7.213 667-360 0.313 0.03 060000124 7.213 667-360 0.313 0.03 060000124 0.01 0.01 0.01 0.01 0.01 0.01 060000124 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 060000124 0.01 <	05062021a_005.d	7.212	Condition		Sample	P1-A3	10.0								
Generation 0.1 7.13 Condim P.N3 100 Generation 0.1 7.13 667-70 67-70 90.3 Generation 0.1 7.13 667-70 67-70 90.3 90.3 Generation 0.1 7.13 667-70 90.3 90.0 90.3 90.3 Generation 0.1 7.13 667-70 90.3 90.0 90.0 90.3 90.3 Generation 0.1 7.13 667-70 90.0	05062021a_006.d	7.212	Condition		Sample	P1-A3	10.0								
Constrata Collection Vel DD Operation Collection Vel DD Collection Collection Vel DD Collection Collection Vel DD Collection Collection </td <td>05062021a_007.d</td> <td>7.212</td> <td>Condition</td> <td></td> <td>Sample</td> <td>P1-A3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	05062021a_007.d	7.212	Condition		Sample	P1-A3	10.0								
Operation (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	05062021a_008.d	7.198	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				40.97				
06607011 7.121 667-796 0.23 2.113 677-796 2.113 06607014 7.122 667-796 587-796 2.010 1.01 1.417 06607014 7.129 667-796 587-796 2.010 0.010 1.417 2.010 0.01 06607014 0.11 0.110 0.010 0.010 0.010 1.010 1.010 0.01 06607014 0.11 0.100 0.100 0.100 0.100 0.010 0.01	05062021a_009.d	7.212	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				90.87				
OSCORDIA D124 7.212 687-2470 0.5 gppl Vial Vial <t< td=""><td>05062021a_010.d</td><td>7.212</td><td>687-2M8 0.25 pg/µL</td><td></td><td>Calibration</td><td>Vial 3</td><td>10.0</td><td></td><td></td><td></td><td>221.95</td><td></td><td></td><td></td><td></td></t<>	05062021a_010.d	7.212	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				221.95				
0560211a 7.18 667246 L0 gal3 Calibration Val 100 77.97 Calibration 77.97 Calibration 77.97 Calibration Calibration <thcalibratin< th=""> Calibratin <thcalibrati< td=""><td>05062021a_011.d</td><td>7.212</td><td>687-2M7 0.50 pg/µL</td><td></td><td>Calibration</td><td>Vial 2</td><td>10.0</td><td></td><td></td><td></td><td>414.77</td><td></td><td></td><td></td><td></td></thcalibrati<></thcalibratin<>	05062021a_011.d	7.212	687-2M7 0.50 pg/µL		Calibration	Vial 2	10.0				414.77				
0600011.013d 2883 DBA-CO461 Sample F1-A1 100 0.100 0.100 0.101 0.100 0.101 0.101 0.101 0.101 0.101 0.101 0.011 0.011 0.011 0.011 0.011 0.010 0.011 0.011 0.010 0.011 0.011 0.010 0.011 0.011 0.010 0.010 0.011 0.011 0.011 0.010 0.010 0.0110 0.011 0.011 <th< td=""><td>05062021a_012.d</td><td>7.198</td><td>687-2M6 1.0 pg/µL</td><td></td><td>Calibration</td><td>Vial 1</td><td>10.0</td><td></td><td></td><td></td><td>871.97</td><td></td><td></td><td></td><td></td></th<>	05062021a_012.d	7.198	687-2M6 1.0 pg/µL		Calibration	Vial 1	10.0				871.97				
Signed bill Discretional Same F1-A1 100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.000	05062021a_013.d	+	28853	DBA-CO461	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
Sincerata 015d	05062021a 014.d]	28853	DBA-CO461	Sample	P1-A1	10.0	0.100	10.0	0.1000	l	<0.10	<0.01	<0.01	
General J 16.4 2399 DeA-CV+19 Sample P1-A 100 0.100 0100 -0.10 -0.10 -0.01	05062021a 015.d	ļ	28989	DBA-CA*19	Sample	P1-A2	10.0	0.100	10.0	0.1000		<0.10	<0.01		
OSCODIJA 7.12 687-299 0.10 pg/l Oscol 7.59 Secon 7.59 OSCODIJA 7.12 288550.01K1 DeA-CoH Sample P1-A3 0.0 0.100 7.75 0.0903 0.0903 0.9003 OSCODIJA_OLI 7.212 288550.01K1 DeA-CoH Sample P1-A4 0.0 0.100 7.75 0.0903 0.093 0.093 0.0903 0.093 </td <td>05062021a 016.d</td> <td></td> <td>28989</td> <td>DBA-CA*19</td> <td>Sample</td> <td>P1-A2</td> <td>10.0</td> <td>0.100</td> <td>10.0</td> <td>0.1000</td> <td> </td> <td><0.10</td> <td><0.01</td> <td><0.01</td> <td></td>	05062021a 016.d		28989	DBA-CA*19	Sample	P1-A2	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
09662013_018d 7.11 28853C0.011 DBA-CoH61 Sample P1-A3 100 0.100 7.75 0.0090 0.0091 0.0051 0.0093 0.0033 <th0.0133< th=""> <th0.0133< th=""> <th0.01< td=""><td>05062021a 017.d</td><td>7.212</td><td>687-2M9 0.10 pg/µL</td><td></td><td>Calibration</td><td>Vial 4</td><td>10.0</td><td></td><td></td><td></td><td>75.98</td><td></td><td></td><td></td><td></td></th0.01<></th0.0133<></th0.0133<>	05062021a 017.d	7.212	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				75.98				
0662071a_013d 7.212 28855C.0101 DBA-C0461 Sample P1-A4 100 0.100 0.100 0.100 0.00051 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 <th< td=""><td>05062021a 018.d</td><td>7.212</td><td>28853C0.01R1</td><td>DBA-CO461</td><td>Sample</td><td>P1-A3</td><td>10.0</td><td>0.100</td><td>10.0</td><td>0.1000</td><td>67.45</td><td>0.0903</td><td>0600.0</td><td></td><td></td></th<>	05062021a 018.d	7.212	28853C0.01R1	DBA-CO461	Sample	P1-A3	10.0	0.100	10.0	0.1000	67.45	0.0903	0600.0		
0660213_021d 7.21 28855(1.0R1 DB4-C0461 Sample P1-44 100 0.000 0.003 0.0364 0.0375 0.0344 10.76 0.036 0660203.a_021d 7.212 28855(1.0R1 DB4-C0461 Sample P1-44 10.0 0.000 0.003 20.66 0.010 0.003 20.66 0.010 0.010 0.003 20.66 0.010 0.010 0.003 20.66 0.010	05062021a 019.d	7.212	28853C0.01R1	DBA-CO461	Sample	P1-A3	10.0	0.100	10.0	0.1000	75.72	8660.0	0.0100	0.00951	92%
05662013_021d 7.12 288551.001 DBA-CO461 Sample P1-44 10.0 0.100 2005.1 0.2255 1.088 1.05 1.051 0.2255 1.088 1.05 1.056 1.051 0.0025 0.0025 0.0025 0.001 0.001 0.002 0.001 0.	05062021a 020.d	7.212	28853C1.0R1	DBA-C0461	Sample	P1-A4	10.0	0.100	400.0	0.0025	210.84	0.2544	1.0176		
	05062021a_021.d	7.212	28853C1.0R1	DBA-CO461	Sample	P1-A4	10.0	0.100	400.0	0.0025	226.61	0.2725	1.0898	1.05	105%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a 022.d	7.212	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				192.76				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a 023.d	7.225	28855	DBC-CO461	Sample	P1-A5	10.0	0.100	10.0	0.1000	49.46	<0.10	<0.01		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a 024.d	7.212	28855	DBC-C0461	Sample	P1-A5	10.0	0.100	10.0	0.1000	50.68	<0.10	<0.01	<0.01	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a 025.d	7.239	28856	DBD-C0461	Sample	P1-A6	10.0	0.100	10.0	0.1000	34.19	<0.10	<0.01		
	05062021a 026.d	7.225	28856	DBD-C0461	Sample	P1-A6	10.0	0.100	10.0	0.1000	38.00	<0.10	<0.01	<0.01	
	05062021a 027.d	7.212	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				79.35				
	05062021a 028.d	7.225	28991	DBC-CA*19	Sample	P1-A7	10.0	0.100	10.0	0.1000	77.82	0.1022	0.0102		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a 029.d	7.225	28991	DBC-CA*19	Sample	P1-A7	10.0	0.100	10.0	0.1000	75.26	0.0993	6600.0	0.010	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a 030.d	7.225	28992	DBD-CA*19	Sample	P1-A8	10.0	0.100	10.0	0.1000	77.19	0.1015	0.0101		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05062021a 031.d	7.239	28992	DBD-CA*19	Sample	P1-A8	10.0	0.100	10.0	0.1000	80.14	0.1048	0.0105	0.010	
05062021a_037.d — 28855 (Flonicamid) DBC CO461 Sample PL 40 0.002-0 -	05062021a 032.d	7.212	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				192.95				
05062021a_037.d — 28855 (Flonicamid) DBC CO461 Sample F1 40 0.00 40.0 6.003 6.014 6.004 <t< td=""><td>05062021a 033.d</td><td>l</td><td>28855 (Flonicamid)</td><td>DBC C0161</td><td>Sample</td><td>P1-A9</td><td>0.01</td><td>0.100</td><td>40.0</td><td>0.0250</td><td>1</td><td>+0.10</td><td>€0:01</td><td></td><td></td></t<>	05062021a 033.d	l	28855 (Flonicamid)	DBC C0161	Sample	P1-A9	0.01	0.100	40.0	0.0250	1	+0.10	€0:0 1		
$\begin{array}{llllllllllllllllllllllllllllllllllll$	05062021a 034.d	ĺ	28855 (Flonicamid)	DBC C0161	Sample	P1-49	10.0	0.100	40.0	0.0250	Ţ	+0.10	€0.01	10:0>	
05662021a_035.d — 28856 (Fionicamid) DBD CO461 Sample P1 B1 10.0 0.109 0.029 — <0.10 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.	05062021a 035.d	Ì	28856 (Flonicamid)	DBD-CO161	Sample	P1-B1	10.0	0.100	40.0	0:0250	l	€0:10	+0.01		
05062021a_037.d 7.212 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 194.15 Calculated LOD at 0.045 pg/µL = 28 Calculated LOQ at 0.10 pg/µL = 76 "" denotes response below area threshold	05062021a 036.d	ĺ	28856 (Flonicamid)	DBD-CO161	Sample	P1-B1	10.0	0.100	40.0	0.0250		<0.10	<0.01	€0:01	
Calculated LOD at 0.045 pg/µL = 28 Calculated LOQ at 0.10 pg/µL = 76 "" denotes response below area threshold	05062021a_037.d	7.212	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				194.15				
Calculated LOQ at 0.10 pg/µL = 76 "" denotes response below area threshold	Calculated LOD at 0.045	pg/µL =	28												
"" denotes response below area threshold	Calculated LOO at 0.10 I	= n/n	76												
	" donoton correction	holow and the	schold												
	ביוהלכבו כבוחובה	חבוסאא מובמ הזויא		and the second se											





0.1000 0.1000 0.1000 0.0500

194.15 90.87 75.98 79.35 40.97

Printed at: 9:54 AM on: 5/11/2021

5/11/21 am

Compound Injection Date Compound S/10/2021 Flonicamid 5/10/2021 08550 - Flonicamid/Onion - Sample Analysis - Field Trials CA16, CA17, ID181 - Extracted 5/10/2021 by ASM

Mutuality matrix matr	4-4	ł	SamleName	Samula Info	Sample Tyne V	Vial Pos	Inj Vol (uL)		nL Vol	ini pm	Resp	(pg/hr)	mqq	Ave ppm	% Rec
Distribution 773 Control Same 773 Control Same 773 Control Same 773 Control 773 Control 773 Control 773 Control Same 773 Control 773 Control Same 773 Same Same 773 Same		2	Condition		Samula	P1-A3	10.0	ï		1					
Biologname Same F1-33 Conton Same F1-34 Conton 50000000,0064 7.35 Conton Same F1-34 100 50000000,0064 7.35 Conton Same F1-34 100 50000000,0064 7.35 Conton Same F1-34 100 5000000,0064 7.35 Gonton Same F1-34 100 5000000,0064 7.35 Gonton Same F1-34 100 5000000,004 7.35 Gonton Same F1-34 100 500000,004 7.35 Gonton Same F1-34 100 100 50000,001,004 7.35 Gonton Val 200 100 100 100 100 50000,001,004 7.35 Gonton Val 200 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	D.100_B120201C0				addine a		0.01								
Biologial Combin Same F1-3 100 61000130043 733 673-96.01.00 733 673-96.01.00 110 600 61000130043 733 673-96.01.00 733 673-96.01.00 733 914 600 6100013014 733 673-96.01.00 734 600 700 914	05102021a_002.d	7.735	Condition		sample	PI-A3	10.0								
Storona T/33 Combin Same P>43 100 S100021, 064 7.35 Combin Same P>43 00 S100021, 064 7.35 Combin Same P>43 00 S100021, 064 7.35 Granus Same P>43 00 S100021, 064 7.35 Granus Same P>43 00 S100021, 014 7.35 Granus Same P>43 00 S100021, 014 7.35 Granus Same P>44 100 100 S100021, 014 7.35 Granus Same P>44 100	05102021a_003.d	7.735	Condition		Sample	P1-A3	10.0								
Scintial 0.05 7.33 Condion Same F1-A3 100 SGI0031J, 0.06 7.33 Condion Same F1-A3 100 SGI0031J, 0.06 7.33 Condion Same F1-A3 100 SGI0031J, 0.06 7.33 G87-3M0 LG Sp(1) Condion Same F1-A3 100 SGI0031J, 0.06 7.33 687-3M0 LG Sp(1) Condion Val 100 Name SGI0031J, 0.01 7.33 687-3M0 LG Sp(1) Condion Val 100 Name SGI0031J, 0.01 7.33 687-3M0 LG Sp(1) Condion Val 100 Name SGI0031J, 0.01 7.33 687-3M0 LG Sp(1) Same F1-A1 100 100 Name P1-A1 100 100 Name P1-A1 100 100 Name P1-A1 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	05102021a_004.d	7.735	Condition		Sample	P1-A3	10.0								
Site Pi-3 Dio Site 7.33 Condion Sample Pi-3 Dio Site 7.33 667-300.10 7.35 667-300.10 Pi-3 Dio Site Site 7.33 667-300.10 7.33 667-300.10 Pi-3 Dio Site Site Site Site Dio Dio Pi-3 Dio Pi-3 Dio Di	05102021a_005.d	7.735	Condition		Sample	P1-A3	10.0								
Site Pi-33 Bio Fi-36 Fi	05102021a_006.d	7.735	Condition		Sample	P1-A3	10.0								
65:00013, 0064 7.35 67:3-96:010 gp/l 61:3-96 43:6	05102021a_007.d	7.721	Condition		Sample	P1-A3	10.0								
C5100713_004 778 697246 0.10 g/l C100main Val 100 94.06 C5100713_014 773 697249 0.10 g/l 391.81 391.81 C5100713_0144 773 697249 0.10 g/l 200.0 91.06 91.01 91.06 C5100713_0144 28341 D64AG6 Same P1.41 100 0.100 40.10 -0.01 C5100713_0144 28341 D64AG6 Same P1.42 100 0.100 40.10 -0.01 -0.01 C5100713_0144 28341 D64AG1 Same P1.42 100 0.100 40.10 -0.01	05102021a 008.d	7.735	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				43.66				
GG10021.1 7.73 667-3470.55 gg/L Calibration Val 100 318.3 313.3 G510021.3 7.73 667-3470.55 gg/L Calibration Val 100 313.8 313.8 G510021.3 7.73 667-3470.55 gg/L Dex-OL6 Sample P1-A1 100 0.1000 -0.10 -0.01 G510021.3 0.57 67-3470.59 gg/L Dex-OL6 Sample P1-A1 100 0.1000 -0.10 -0.01 -0.01 G510021.3 0.51 232.44 Dex-OL1 Sample P1-A1 100 0.1000 -0.10 -0.01 -0	05102021a 009.d	7.748	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				84.06				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05102021a 010.d	7.735	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				188.36				
Giodolla 0124 7.35 667-206 L Jog(1 Calibration 7.31 7.33 7.34	05102021a 011.d	7.721	687-2M7 0.50 pg/µL		Calibration	Vial 2	10.0				391.81				
G500011	05102021a 012.d	7.735	687-2M6 1.0 pg/µL		Calibration	Vial 1	10.0				783.83				
Gioodila_014d	05102021a 013.d	-	28241	DBA-CA16	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01		
0510021a_015d	05102021a 014.d		28241	DBA-CA16	Sample	P1-A1	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05102021a 015.d		28304	DBA-CA17	Sample	P1-A2	10.0	0.100	10.0	0.1000	-	<0.10	<0.01		
05102011a_017.d 7.35 687-2M10 0.05 gylt. Calibration Val 2.3.64 Constrained by the constrained by	05102021a 016.d	J	28304	DBA-CA17	Sample	P1-A2	10.0	0.100	10.0	0.1000	-	<0.10	<0.01	<0.01	
05102011a_0184 7.48 28241001R2 DBA-CM6 Sample F1-A3 100 0.100 654.73 0.0877 0.0897 0.0973 0.0933 0.0933 0.0933 0.0353 0.0353 0.0373 0.0353 0	05102021a 017.d	7.735	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				32.69				
05102013_0101 7748 28241C0.0182 DeM-CM5 Sample F1-A4 100 0.100 61.00 61.00 0.0007 91.86 05102013_02014 7.748 28241C0.0182 DeM-CM5 Sample F1-A4 100 0.0005 157.23 0.2059 0.887 0.887 05102013_02014 7.735 687-249<0.10 g/L1	05102021a 018.d	7.748	28241C0.01R2	DBA-CA16	Sample	P1-A3	10.0	0.100	10.0	0.1000	69.04	0.0937	0.0094		
05102021a_020.d 7.748 28241C.10R2 DBA-CMI6 Sample F1-74 100 0.000 517.23 0.2.059 0.8731 8739 0.8231 0.867 0.8331 8739 0.867 8739 0.8311 8739 0.8311 8739 0.8311 8739 0.8311 8739 0.8311 8739 0.8311 8739 0.8311 8739 0.8311 8739 0.8311	05102021a 019.d	7.748	28241C0.01R2	DBA-CA16	Sample	P1-A3	10.0	0.100	10.0	0.1000	64.37	0.0877	0.0088	0.00907	91%
0510001a 0213 22341C10R2 DBA-CM16 Sample P1-A4 10.0 0.100 10.0025 168.0 0.2197 0.8781 0.851 85% 05100201a_023d 7.735 687-2M9 0.10 pp/ut Calibradion Mal 4 10.0 7.70 0.2197 0.2894 0.0851 0.857 05100201a_023d 7.735 687-2M9 0.10 pp/ut Calibradion Mal 4 10.0 0.100 10.00 10.00 0.2193 0.2894 0.851 05100201a_023d 7.735 887-2M8 0.15 pp/ut Calibradion Mal 3 10.0 0.100 10.0 0.100 10.00 10.00 10.01 </td <td>05102021a 020.d</td> <td>7.748</td> <td>28241C1.0R2</td> <td>DBA-CA16</td> <td>Sample</td> <td>P1-A4</td> <td>10.0</td> <td>0.100</td> <td>400.0</td> <td>0.0025</td> <td>157.23</td> <td>0.2059</td> <td>0.8236</td> <td></td> <td></td>	05102021a 020.d	7.748	28241C1.0R2	DBA-CA16	Sample	P1-A4	10.0	0.100	400.0	0.0025	157.23	0.2059	0.8236		
	05102021a 021.d	7.735	28241C1.0R2	DBA-CA16	Sample	P1-A4	10.0	0.100	400.0	0.0025	168.09	0.2197	0.8789	0.851	85%
0510201a 07.48 28.243 DBC-CM16 Sample P1-A5 10.0 0.1000 22.284 0.2894 0.0289 0.0295 05102021a 07.34 7.748 28.244 DBC-CM16 Sample P1-A5 10.0 0.1000 15.1.33 0.2875 0.0285 0.0285 05102021a 025.6 7.735 28.244 DBC-CM16 Sample P1-A6 10.0 0.1000 15.1.33 0.2875 0.0285 0.0285 05102021a 025.6 7.735 5870-7 0.3366 DBC-CM15 Sample P1-A5 10.0 0.1000 15.1.6 0.2066 0.0265 05102021a 02314 7.748 28336 DBC-CM17 Sample P1-A7 10.0 0.1000 15.4.6 0.0265 0.0275 0.0215 05102021a 7.748 28337 DBC-CM17 Sample P1-A7 10.0 0.100 0.1000 10.010 0.0100 0.0105 0.0214 0.0214 0.0216 0.0101 0.0100 </td <td>05102021a 022.d</td> <td>7.735</td> <td>687-2M9 0.10 pg/µL</td> <td></td> <td>Calibration</td> <td>Vial 4</td> <td>10.0</td> <td></td> <td></td> <td></td> <td>72.70</td> <td></td> <td></td> <td></td> <td></td>	05102021a 022.d	7.735	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				72.70				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05102021a 023.d	7.748	28243	DBC-CA16	Sample	P1-A5	10.0	0.100	10.0	0.1000	222.84	0.2894	0.0289		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05102021a 024.d	7.748	28243	DBC-CA16	Sample	P1-A5	10.0	0.100	10.0	0.1000	221.33	0.2875	0.0288	0.029	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05102021a 025.d	7.735	28244	DBD-CA16	Sample	P1-A6	10.0	0.100	10.0	0.1000	156.16	0.2046	0.0205		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05102021a 026.d	7.735	28244	DBD-CA16	Sample	P1-A6	10.0	0.100	10.0	0.1000	157.91	0.2068	0.0207	0.021	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05102021a 027.d	7.735	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				173.69				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05102021a 028.d	7.748	28306	DBC-CA17	Sample	P1-A7	10.0	0.100	10.0	0.1000	197.42	0.2571	0.0257		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05102021a 029.d	7.748	28306	DBC-CA17	Sample	P1-A7	10.0	0.100	10.0	0.1000	209.72	0.2727	0.0273	0.026	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05102021a_030.d	7.748	28307	DBD-CA17	Sample	P1-A8	10.0	0.100	10.0	0.1000	246.48	0.3195	0.0320		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05102021a_031.d	7.735	28307	DBD-CA17	Sample	P1-A8	10.0	0.100	10.0	0.1000	239.30	0.3104	0.0310	0.031	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05102021a_032.d	7.735	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				75.32				
05102021a_034.d 7.748 28859 DBC-ID181 Sample P1-A9 10.0 0.100 10.0 0.1000 56.70 <0.10 <0.01 <0.01 0.01 0.01 0.010 05.70 <0.01 <0.01 <0.01 0.010 05102021a_035.d 7.735 28860 DBD-ID181 Sample P1-B1 10.0 0.100 10.0 0.1000 70.98 0.0961 0.0096 05102021a_037.d 7.748 687-2M8 0.25 <i>pg</i> /µL Sample P1-B1 10.0 0.100 10.0 0.1000 78.66 0.1059 0.0106 0.010 05102021a_037.d 7.748 587-2M8 0.25 <i>pg</i> /µL Calculated LOD at 0.045 <i>pg</i> /µL = 31 2.0 Calculated LOD at 0.045 <i>pg</i> /µL = 74 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg</i> /µL = 74 2.0 Calculated LOD at 0.00 <i>pg/µL</i> = 74 2.0 Calculated LOD at 0.00 <i>pg/µL</i> = 74 2.0 Calculated LOD at 0.00	05102021a 033.d	7.735	28859	DBC-ID181	Sample	P1-A9	10.0	0.100	10.0	0.1000	58.34	<0.10	<0.01		
05102021a_035.d 7.735 28860 DBD-ID181 Sample P1-B1 10.0 0.100 10.0 0.1000 70.98 0.0961 0.0096 05102021a_036.d 7.735 28860 DBD-ID181 Sample P1-B1 10.0 0.100 10.0 0.1000 78.66 0.1059 0.0106 0.010 05102021a_037.d 7.748 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 10.0 0.1000 19.0 190.44 Calculated LOD at 0.045 pg/µL = 31 Calculated LOD at 0.045 pg/µL = 74	05102021a 034.d	7.748	28859	DBC-ID181	Sample	P1-A9	10.0	0.100	10.0	0.1000	56.70	<0.10	<0.01	<0.01	
05102021a_036.d 7.735 28860 DBD-ID181 Sample P1-B1 10.0 0.100 10.0 0.10078.66 0.1059 0.0106 0.010 05102021a_037.d 7.748 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 10.0 190.44 Calculated LOD at 0.045 pg/µL = 31 Calculated LOQ at 0.10 pg/µL = 74	05102021a 035.d	7.735	28860	DBD-ID181	Sample	P1-B1	10.0	0.100	10.0	0.1000	70.98	0.0961	0.0096		
05102021a_037.d 7.748 687-2M8 0.25 pg/µL Calibration Vial 3 10.0 190.44 Calculated LOD at 0.045 pg/µL = 31 Calculated LOQ at 0.10 pg/µL = 74	05102021a 036.d	7.735	28860	DBD-ID181	Sample	P1-B1	10.0	0.100	10.0	0.1000	78.66	0.1059	0.0106	0.010	
Calculated LOD at 0.045 pg/µL = 31 Calculated LOQ at 0.10 pg/µL = 74	05102021a_037.d	7.748	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				190.44				
Calculated LOQ at 0.10 pg/uL = 74	Calculated LOD at 0.04.	-2 pg/hr =	31												
	Calculated LOO at 0.10	n pa/ul =	74												
		tale more than the	hinda												

Target Compound Flonicamid	CurveFit fitLinear	Weighting weightEqual	Integrator Agile	Smoothing Gaussian	Smooth	ingFunctio 10	nWidth	SmoothingGa	uussianWidth 5	
Flonicamid - 5 Levi	els, 5 Levels I	Used, 10 Points	s, 10 Points U	sed, 0 QCs						_
sponses x_{10}^2 y_{-10}^2 $R^2 = ($ Type:L	0.99883930 0.99883930 inear, Origin:I	Ignore, Weight:	None							
ы С Ч										
			5/11/2	1 com						
5 -										-
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	0.10	15 0 0 0 0 55	03 035 0	4 0 45 0 5 0	0.55 0.6	0.65 0.7	0.75 0.8	0.85 0.9 0.	95 1 1.05	- 1
þ		07-0 7-0 CI.						Conc	entration (ng/ml)	
					Cal Tune	lavel	Fnahled	Response	Exp Conc	
Calibration SLU	COlocia Onical	0001001111000	10 5100013011	τ	Calibration	-	Þ	783.83	1.0000	
D. (Masshunter (Flonicani	d/08550_Onion/De	ata/Results/0510202	1\05102021a_011		Calibration	2	۵	391.81	0.5000	
D-\MassHunter\Flonicami	d/noino_occoord	ata/Results/0510202	1\05102021a_010	q	Calibration	e	D	188.36	0.2500	
D-\Masshunter\Flonicami	d/08550 Onion/Da	ata\Results\0510202	1\05102021a 027	p	Calibration	e	D	173.69	0.2500	
D-\MassHunter\Flonicami	d\08550 Onion\Da	ata\Results\0510202	1\05102021a 037	p	Calibration	e		190.44	0.2500	
D:\MassHunter\Flonicami	d\08550 Onion\Da	ata\Results\0510202	1\05102021a 009	p	Calibration	4	Þ	84.06	0.1000	
D:\MassHunter\Flonicami	d\08550 Onion\Da	ata\Results\0510202	1\05102021a_022	q	Calibration	4		72.70	0.1000	
D:\MassHunter\Flonicami	d\08550 Onion\Da	ata\Results\0510202	1\05102021a_032	p.	Calibration	4		75.32	0.1000	
D:\MassHunter\Flonicami	d\08550_Onion\Da	ata\Results\0510202	1\05102021a_008	p.	Calibration	5		43.66	0.0500	
D:/MassHunter/Flonicami	AVARSSO Onion/Da	ata/Results/0510202	1\05102021a 017	p.	Calibration	5		32.69	0.0500	

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5/11/21 abm

Compound Injection Date TFNA-AM 5/10/2021 08550 - Flonicamid/Onion - Samula And

		-
	10/2021 by ASM	Camela
	1 - Extracted 5/	
	CA17, ID18	
	Frials CA16,	
1	lysis - Field	
1 + 01 = 1	Sample Ana	
	- noinO/bim	
	50 - Flonica	

Data File 05102021a_001.d 05102021a_002.d 05102021a_003.d 05102021a_004.d	RT	SampleName	Sample Info	Type	Vial Pos	(hr)	5	UL VOI	fur 6m	depu	(P91 PC)			
05102021a_001.d 05102021a_002.d 05102021a_003.d 05102021a_004.d														
05102021a_002.d 05102021a_003.d 05102021a_004.d		Condition		Sample	P1-A3	10.0								
05102021a_003.d 05102021a_004.d	5.324	Condition		Sample	P1-A3	10.0								
05102021a_004.d	5.324	Condition		Sample	P1-A3	10.0								
	5.324	Condition		Sample	P1-A3	10.0								
05102021a 005.0	5.338	Condition		Sample	P1-A3	10.0								
05102021a 006.d	5.324	Condition		Sample	P1-A3	10.0								
05102021a 007.d	5.324	Condition		Sample	P1-A3	10.0								
05102021a 008.d	5.338	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				112.56				
05102021a 009.d	5.338	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				211.10				
05102021a 010.d	5.338	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				495.13				
05102021a 011.d	5.311	687-2M7 0.50 pg/µL		Calibration	Vial 2	10.0				1092.59				
05102021a 012.d	5.297	687-2M6 1.0 pg/µL		Calibration	Vial 1	10.0				2151.22				
05102021a 013.d	1	28241	DBA-CA16	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01	1111	
05102021a 014.d	I	28241	DBA-CA16	Sample	P1-A1	10.0	0.100	10.0	0.1000	ľ	<0.10	<0.01	<0.01	
05102021a 015.d	-	28304	DBA-CA17	Sample	P1-A2	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
05102021a 016.d		28304	DBA-CA17	Sample	P1-A2	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
05102021a 017.d	5.338	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				97.26				
05102021a 018.d	5.338	28241C0.01R2	DBA-CA16	Sample	P1-A3	10.0	0.100	10.0	0.1000	153.58	0.0844	0.0084	1 1. UAD	
05102021a 019.d	5.338	28241C0.01R2	DBA-CA16	Sample	P1-A3	10.0	0.100	10.0	0.1000	162.53	0.0885	0.0089	0.00865	86%
05102021a 020.d	5.338	28241C1.0R2	DBA-CA16	Sample	P1-A4	10.0	0.100	400.0	0.0025	415.51	0.2051	0.8203		1000
05102021a 021.d	5.324	28241C1.0R2	DBA-CA16	Sample	P1-A4	10.0	0.100	400.0	0.0025	425.04	0.2095	0.8379	0.829	83%
05102021a 022.d	5.324	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				186.79				
05102021a 023.d	-	28243	DBC-CA16	Sample	P1-A5	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
05102021a 024.d		28243	DBC-CA16	Sample	P1-A5	10.0	0.100	10.0	0.1000	ſ	<0.10	<0.01	<0.01	
05102021a 025.d]	28244	DBD-CA16	Sample	P1-A6	10.0	0.100	10.0	0.1000		<0.10	<0.01		
05102021a 026.d		28244	DBD-CA16	Sample	P1-A6	10.0	0.100	10.0	0.1000	-	<0.10	<0.01	<0.01	
05102021a 027.d	5.324	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				437.90				
05102021a 028.d		28306	DBC-CA17	Sample	P1-A7	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
05102021a 029.d		28306	DBC-CA17	Sample	P1-A7	10.0	0.100	10.0	0.1000	I	<0.10	<0.01	<0.01	
05102021a 030.d	1	28307	DBD-CA17	Sample	P1-A8	10.0	0.100	10.0	0.1000	ł	<0.10	<0.01		
05102021a 031.d		28307	DBD-CA17	Sample	P1-A8	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01	
05102021a 032.d	5.324	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				208.67				
05102021a 033.d		28859	DBC-ID181	Sample	P1-A9	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
05102021a 034.d	-	28859	DBC-ID181	Sample	P1-A9	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
05102021a 035.d		28860	DBD-ID181	Sample	P1-B1	10.0	0.100	10.0	0.1000		<0.10	<0.01		
05102021a 036.d		28860	DBD-ID181	Sample	P1-B1	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
05102021a_037.d	5.324	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				462.50				
Calculated LOD at 0.045	= ht/pc	68												
Calculated LOO at 0.10 pr	= 10/0	187												
	9/ H	a de antes												

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<0.01

153.74

0.1000

10.0

Sample Sample

Calibration

687-2M8 0.25 pg/µL

6.024

Calculated LOD at 0.045 pg/µL = Calculated LOQ at 0.10 pg/µL =

61 21

"----" denotes response below area threshold

Sample

DBC-ID181 DBD-ID181 DBD-ID181

DBC-ID181

687-2M9 0.10 pg/µL

6.024

Calibration Sample

<0.01

<0.01 <0.01

<0.10 <0.10

<0.10 <0.10

-

10.0

10.0 10.01 10.0

65.31

<0.01

<0.10

<0.01

<0.01 <0.01 <0.01 <0.01 <0.01

151.84

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0.1000 0.1000 0.1000 0.1000 0.1000 0.1000

10.0

10.0

10.0

10.0 10.01 10.01 10.0 10.01

Sample

28307 28307 28859 28859 28860 28860

Sample Sample

DBC-CA17

28306 28306

687-2M8 0.25 pg/µL

6.010

05102021a_027.d 05102021a_028.d 05102021a_030.d

1 1 1

> 05102021a_029.d 05102021a_031.d 05102021a_032.d 05102021a_033.d 05102021a_034.d 05102021a_035.d 05102021a_036.d 05102021a_037.d

10.0

10.0

10.0 10.0 Printed at: 9:54 AM on: 5/11/2021

5/11/21 OBM

08550 - Flonicamid/Onion - Sample Analysis - Field Trials CA16, CA17, ID181 - Extracted 5/10/2021 by ASM 5/10/2021 TFNA

Injection Date

Compound

% Rec												
Ave ppm												
mqq												
Conc (pg/µL)												
Resp								34.87	72.96	172.88	338.61	730.20
ini em												
g mL Vol												
(µL)	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
al Pos	P1-A3	Vial 5	Vial 4	Vial 3	Vial 2	Vial 1						
Sample Type V	Sample	Calibration	Calibration	Calibration	Calibration	Calibration						
Sample Info												
SampleName	Condition	687-2M10 0.05 pg/µL	687-2M9 0.10 pg/µL	687-2M8 0.25 pg/µL	687-2M7 0.50 pg/µL	687-2M6 1.0 pg/µL						
RT	1	6.037	6.037	6.037	6.037	6.037	6.037	6.024	6.024	6.024	6.010	5.997
Data File	05102021a_001.d	05102021a_002.d	05102021a 003.d	05102021a_004.d	05102021a_005.d	05102021a_006.d	05102021a_007.d	05102021a 008.d	05102021a 009.d	05102021a 010.d	05102021a 011.d	05102021a 012.d

05102021a_019.d	05102021a_020.d	05102021a_021.d	05102021a_022.d	05102021a_023.d
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90

91% %86

0.908

0.9309

0.2211 0.2327 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10 <0.10

0.0025 0.0025 0.1000 0.1000 0.1000 0.1000

> 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100

10.0 10.0

Calibration

10.0 10.0 10.0 10.0

DBD-CA16

28243 28244

28243 28244

-

05102021a_024.d 05102021a_026.d

05102021a_025.d

28241C1.0R2

6.024

6.037 6.024

6.051

687-2M9 0.10 pg/µL

0.1000 0.1000

> 0.100 0.100

Sample Sample Sample Sample Sample Sample Sample Calibration Sample

Sample

DBA-CA16 DBA-CA16 DBA-CA16 DBA-CA16 DBC-CA16 DBC-CA16 DBD-CA16 DBC-CA17 DBD-CA17 DBD-CA17

28241C0.01R2 28241C0.01R2 28241C1.0R2

687-2M10 0.05 pg/µL

6.024 6.051

10.0 10.0 400.0 400.0 10.0 10.01 10.0 10.0

Vial 5 P1-A3 P1-A3 P1-A4 P1-A4 Vial 4 P1-A5 P1-A5 P1-A6 P1-A6 Vial 3 P1-A7 P1-A7 P1-A8 P1-A8 Vial 4 P1-A9 P1-A9 P1-B1 Vial 3

Calibration

P1-A2

<0.01 <0.01

<0.01 <0.01

<0.01 <0.01 <0.01

0.00985

0.0101 0.8845

<0.01

<0.01

<0.10 <0.10

<0.01 <0.01 <0.01 0.0096

<0.10

<0.01

<0.10 0.0959 0.1011

0.1000

0.1000 0.1000

10.0 10.01 10.0

10.0 10.0 10.0 10.01 10.0

Sample Sample Sample

DBA-CA16

DBA-CA16 DBA-CA17 **DBA-CA17**

28241 28304 28304

05102021a_012.d 05102021a_013.d 05102021a_014.d 05102021a_015.d 05102021a_016.d 05102021a_017.d

28241

0.1000

10.0

0.100 0.100 0.100 0.100 0.100

10.0

P1-A1 P1-A1 P1-A2

Sample

27.26 57.93 61.75 149.34 157.80 65.86



D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05102021\05102021a_009.d D:\/MassHunter/Flonicamid\08550_Onion\Data\Results\05102021\05102021a_022.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05102021\05102021a_032.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05102021\05102021a_008.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05102021\05102021a_017.d

91

0.1000 0.1000 0.0500 0.0500

65.86

65.31 34.87 27.26

5

Calibration

Calibration

Calibration

Calibration

-

Injection Date 5/10/2021

Compound Injection Date 5/10/2021 TFNG 5/10/2021 08550 - Fionicamid/Onion - Sample Analysis - Field Trials CA16, CA17, ID181 - Extracted 5/10/2021 by ASM

	Y	Samplename	Sample Info	Type	VIAI POS	(hr)	6	mL Vol	ini em	Resp	(JµL)	mqq	Ave ppm	% Rec
05102021a_001.d		Condition		Sample	P1-A3	10.0								
05102021a_002.d	7.225	Condition		Sample	P1-A3	10.0								
05102021a_003.d	7.225	Condition		Sample	P1-A3	10.0								
05102021a_004.d	7.239	Condition		Sample	P1-A3	10.0								
05102021a_005.d	7.225	Condition		Sample	P1-A3	10.0								
05102021a_006.d	7.225	Condition		Sample	P1-A3	10.0								
05102021a_007.d	7.212	Condition		Sample	P1-A3	10.0								
05102021a_008.d	7.225	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				39.74				
05102021a_009.d	7.239	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				81.28				
05102021a_010.d	7.225	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				203.42				
05102021a_011.d	7.212	687-2M7 0.50 pg/µL		Calibration	Vial 2	10.0				430.67				
05102021a_012.d	7.212	687-2M6 1.0 pg/µL		Calibration	Vial 1	10.0				884,48				
05102021a_013.d	1	28241	DBA-CA16	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01		
05102021a_014.d	-	28241	DBA-CA16	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01	<0.01	
05102021a_015.d	-	28304	DBA-CA17	Sample	P1-A2	10.0	0.100	10.0	0.1000	-	<0.10	<0.01		
05102021a_016.d	-	28304	DBA-CA17	Sample	P1-A2	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
05102021a_017.d	7.225	687-2M10 0.05 pg/µL		Calibration	Vial 5	10.0				32.99				
05102021a_018.d	7.239	28241C0.01R2	DBA-CA16	Sample	P1-A3	10.0	0.100	10.0	0.1000	70.41	0660'0	6600.0		
05102021a 019.d	7.225	28241C0.01R2	DBA-CA16	Sample	P1-A3	10.0	0.100	10.0	0.1000	74.55	0.1036	0.0104	0.0101	101
05102021a 020.d	7.239	28241C1.0R2	DBA-CA16	Sample	P1-A4	10.0	0.100	400.0	0.0025	198.03	0.2419	0.9677		
05102021a_021.d	7.212	28241C1.0R2	DBA-CA16	Sample	P1-A4	10.0	0.100	400.0	0.0025	210.31	0.2557	1.0228	0.995	100
05102021a_022.d	7.225	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				76.45				
05102021a_023.d	7.239	28243	DBC-CA16	Sample	P1-A5	10.0	0.100	10.0	0.1000	84.47	0.1147	0.0115		
05102021a_024.d	7.239	28243	DBC-CA16	Sample	P1-A5	10.0	0.100	10.0	0.1000	76.55	0.1058	0.0106	0.011	
05102021a_025.d	7.239	28244	DBD-CA16	Sample	P1-A6	10.0	0.100	10.0	0.1000	73.60	0.1025	0.0103		
05102021a_026.d	7.225	28244	DBD-CA16	Sample	P1-A6	10.0	0.100	10.0	0.1000	76.94	0.1063	0.0106	0.010	
05102021a_027.d	7.225	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				171.28				
05102021a_028.d	1	28306	DBC-CA17	Sample	P1-A7	10.0	0.100	10.0	0.1000	-	<0.10	<0.01		
05102021a_029.d		28306	DBC-CA17	Sample	P1-A7	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
05102021a_030.d		28307	DBD-CA17	Sample	P1-A8	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
05102021a_031.d	1	28307	DBD-CA17	Sample	P1-A8	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
05102021a_032.d	7.225	687-2M9 0.10 pg/µL		Calibration	Vial 4	10.0				83.30				
05102021a_033.d	l	28859	DBC-ID181	Sample	P1-A9	10.0	0.100	10.0	0.1000		<0.10	<0.01		
05102021a_034.d		28859	DBC-ID181	Sample	P1-A9	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01	
05102021a_035.d		28860	DBD-ID181	Sample	P1-B1	10.0	0.100	10.0	0.1000		<0.10	<0.01		
05102021a_036.d	-	28860	DBD-ID181	Sample	P1-B1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01	
05102021a_037.d	7.225	687-2M8 0.25 pg/µL		Calibration	Vial 3	10.0				182.63				
Calculated LOD at 0.0	45 pg/µL =	22												





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D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05102021\05102021a_022.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05102021\05102021a_032.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05102021\05102021a_008.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05102021\05102021a_017.d

0.1000 0.1000

81.28 76.45 83.30 39.74 32.99

Calibration Calibration Calibration Calibration

0.1000 0.0500 0.0500

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Calibration

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Injection Date 5/19/2021 Compound Flonicamid 08550 - Flori

50 - Flonicamid/Onion - OR4	15 Field Sample	ss - Extracted 3/19/2021 by As											in the second	
				Sample		Inj Vol		I Wel	int thi	Dacn	Conc Conc	maa	Ave	% Rec
Data File	RT	SampleName	Sample Info	Type	Vial Pos	(hr)	5		fur fu	deav			1	
05192021a 001.d	7.735	Condition		Sample	P1-A3	10.0								
05192021a 002.d	7.721	Condition		Sample	P1-A3	10.0								
05192021a 003.d	7.735	Condition		Sample	P1-A3	10.0								
05192021a 004.d	7.735	Condition		Sample	P1-A3	10.0								
05192021a 005.d	7.735	Condition		Sample	P1-A3	10.0								
05192021a 006.d	7.735	Condition		Sample	P1-A3	10.0								
05192021a 007.d	7.735	Condition		Sample	P1-A3	10.0								
05192021a 008.d	7.735	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				21.83				
05192021a 009.d	7.735	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				33.82				
05192021a 010.d	7.735	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				94.30				
05192021a 011.d	7.735	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				185.81				
05192021a 012.d	7.735	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				371.86				
05192021a 013.d		28265	GA-OR405	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01		
051920713 014.d	1	28265	GA-OR405	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01	<0.01	
	7775	2826500.0181	GA OR405	Sample	P1-A2	40.0	0.100	10.0	0.1000	01.15	0.0743	0.0074		
**0510_012020120	352.2	28265C0.01R1	6A OR405	Sample	P1-A2	10.0	0.100	10.0	0.1000	21.62	0.0579	0.0058		
051000112 017 d	7 735	687-2M15 0.10 pa/uL		Calibration	Vial 4	10.0				42.64				
P. 110 BI20261C0	102.2	28265C0.01R2	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	28.00	0.0751	0.0075		
P 010 51000130	7 735	28265C0.01R2	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	31.36	0.0842	0.0084	0.00797	80%
	7 725	29080	6C 0R405	Sample	P1-A4	0.01	0.100	10.0	0.1000	2448.08	6865.9	0.6599		
P-020 PIZ02CTC0	TCL L	L'YC&C	GC OR 405	Sample	P1 A4	10.0	0.100	10.0	0.1000	2458.33	6.6266	0.6627		
0.120_012020120	7 735	687-7M14 0 75 nn/11		Calibration	Vial 3	10.0				89.65				
D.220_6120261CU	SEL E	28568	GD OR405	Sample	PI-A5	10.0	0.100	10.0	0.1000	2440.35	6.5781	0.6578		
p.CZ0_BIZ0ZCICO	735	28268	GD-0R405	Sample	PI 45	10.0	0.100	10.0	0.1000	2438.41	6:2729	0.6573		
051020150 075 d	7 748	28267 (Flonicamid)	GC-OR405	Sample	P1-A6	10.0	0.100	400.0	0.0025	63.11	0.1698	0.6792		
05192021a_025.d	7.735	28267 (Flonicamid)	GC-OR405	Sample	: P1-A6	10.0	0.100	400.0	0.0025	63.41	0.1706	0.6823	0.68	
05192021a 027.d	7.735	687-2M15 0.10 pg/µL		Calibration	i Vial 4	10.0				35.20				
05192021a 028.d	7.735	28268 (Flonicamid)	GD-OR405	Sample	TA-19	10.0	0.100	400.0	0.0025	60.32	0.1623	0.6491		
05192021a 029.d	7.735	28268 (Flonicamid)	GD-0R405	Sample	7A-19	10.0	0.100	400.0	0.0025	71.98	0.1937	0.7748	0.71	
05192021a 030.d	7.735	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				90.55				
Calculated LOD at 0.0)45 pg/µL =	17												
Calculated LOO at 0.	10 pa/nf =	37												

80%

Strikethrough denotes data not used, dilutions used for flonicamid quantitation only ** Denotes data not used, does not meet reproducibility between injections threshold (20%), will reinject "----" denotes response below area threshold

Target Compound Flonicamid	CurveFit fitLinear	Weighting weightEqual	Integrator Agile	Smoothing Gaussian	Smoot	ningFunctio	nWidth	Smoo	otningcaussi	anwidtin 5
Flonicamid - 5 Le $\begin{array}{c} \text{Flonicamid} - 5 \text{ Le} \\ \text{e} \times 10^{2} & \text{y} = 3 \\ \text{R}^{2} 2 & \text{H} \\ \text{R}^{2} 2 & \text{H} \\ \text{R}^{2} 2 & \text{H} \end{array}$	vels, 5 Levels I 70.960689 * x = 0.99925876 :Linear, Origin:1	Used, 9 Points, + 0.128888 Ignore, Weight:	9 Points Used None	l, 0 QCs						
с В			5/20	/21 CON						
2.5 -										
2 -				•						
1.5-										
÷F		•								
0.5 -										
0						D SE D	0 75 0	8 0 85	0.9 0.95	1 1.05
0	0.05 0.1 0.	62.0 2.0 61.	0.3 0.33 0.4	+ 0.43 0.3	0.0				Concentr	ation (ng/ml)
								è		EverConc
Calibration STD					Cal Type	Level	Enabled			
D:\MassHunter\Flonica	mid\08550_Onion\Da	ata\Results\0519202	1\05192021a_012.		Calibration		2 5		185.81	0.5000
D:\MassHunter\Flonica	mid\08550_Onion\Da	ata/Results/0519202	1\05192021a_011.		Calibration	v 6	5		94.30	0.2500
D:/MassHunter/Flonica		iata/Results/0519202	1\05192021a_022		Calibration	ŝ			89.65	0.2500
D:/Masshunter/Flonica	mid/08550_Onion/Da	ata\Results\0519202	1\05192021a 030.		Calibration	e			90.55	0.2500
D. (Masshunter V Tomca	Mid/08550 Onion/Dim	ata\Results\0519202	1\05192021a 009.	q	Calibration	4			33.82	0.1000
D-\Macchunter\Flonica	mid/08550 Onion/Da	ata\Results\0519202	1\05192021a 017.	P	Calibration	4			42.64	0.1000
D.\MassHunter\Flonica	mid/08550 Onion/De	ata\Results\0519202	1\05192021a_027.	p	Calibration	4			35.20	0.1000
D:\MassHunter\Flonica	mid\08550_Onion\D	ata\Results\0519202	1\05192021a_008.	p	Calibration	S	Þ		21.83	0.0500



Printed at: 9:24 AM on: 5/20/2021

SmoothingGaussianWidth

SmoothingFunctionWidth

Gaussian Smoothing

weightEqual Weighting

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Injection Date 5/19/2021 Compound TFNA-AM 08550 - Flonicami

MSA WH ICOCI

Date His Rt Sample Vince Vince Val Pose (u) 9 nu bit per					Samula		Ini Vol					Conc		Ave	
Groups 5.38 Condition Sample P1-33 100 Grisson2.a 5.31 Condition Sample P1-33 100 Grisson2.a 5.324 Groupidu Sample P1-33 100 Grisson2.a 667-3016 5.324 667-30110 Sample P1-33 100 Grisson2.a 667-3016 5.334 667-30110 Sample P1-43 100 <	Data File	RT	SampleName	Sample Info	Type	Vial Pos	(11)	5	nL Vol	ini em	Resp ((Jul/6d)	mqq	udd	% Rec
Gispanta Jota S311 Condion Sample P1-33 L00 Gispanta Jota S234 Condion Sample P1-33 L00 Gispanta Jota S234 Condion Sample P1-33 L00 Gispanta Jota S234 Condion Sample P1-34 L00 Gispanta Jota S234 Condion Sample P1-34 L00 Gispanta Jota S234 Gordion Sample P1-34 L00 Gispanta Jota S311 Gir>Valua Jong Sample P1-44 L00 J4-12 Gispanta Jota S311 Gir>Valua Jong Sample P1-44 L00 J4-12 Gispanta Jota S234 Gir>Valua Jong Valua Jong J4-12 L00 J4-12 Gispanta Jota S234 Gir>Valua Jong Valua Jong J4-12 L00	05192021a 001.d	5.338	Condition		Sample	P1-A3	10.0								
Gispanta (01.4) 52.4 Condition Sample P1-33 100 Gispanta (00.4) 5.23 687-2016 Condition Sample P1-33 100 Gispanta (00.4) 5.311 687-2014 Condition Sample P1-41 100 P1-41	05192021a 002.d	5.311	Condition		Sample	P1-A3	10.0								
Gisspitza Onder Sande P1-43 100 Gisspitza Giszbarza <	05192021a 003.d	5.324	Condition		Sample	P1-A3	10.0								
Gispanza Josid S234 Condition Sample F1-33 100 Gispanza Josid S.334 Condition Sample F1-33 100 Gispanza Josid S.334 Gordition Sample F1-33 100 Gispanza Josid S.334 Gis7-NIIS Gispanza Condition Sample F1-33 100 Gispanza Josid S.311 Gis7-NIIS Gispanza Condition Nail 100 Gispanza Josid S.311 Gis7-NIIS Gispanza Condition Nail 100 Gispanza Josid S.311 Gis7-NIIS Gispanza Condition Nail 100 Gispanza Josid S.311 Gis7-NII Gispanza Condition Nail 100 Gispanza Josid S.334 Sassid Giordition Nail 100 1100 1100 Gispanza Josid S.334 Sassid Giordition Nail 100 1100 1100 100 100 100 100 1100 100 1001 100 100	05192021a 004.d	5.324	Condition		Sample	P1-A3	10.0								
Gissozia_066 5:34 Condition Sample P1-3 100 73.12 Gissozia_0064 5:34 667-2015 0.05 gill 534 000 73.12 53.12 Gissozia_0064 5:34 667-2015 0.05 gill Calibration val 100 73.43 Gissozia_0014 5:311 667-2015 0.05 gill Calibration val 100 73.43 Gissozia_0114 5:311 667-2012 0.05 gill Calibration val 100 274.30 Gissozia_0134 2385 Galibration val 100 274.30 Gissozia_0134 2385 Galibration val 100 274.30 Gissozia_0134 2385 Godong 241.1 100 210.0 211.0 201.0 Gissozia_0134 2385 Godong 241.1 100 211.0 201.0 211.0 211.1 211.1 211.1 211.0 211.1 211.1 211.1 211.1 211.1 211.	05192021a 005.d	5.324	Condition		Sample	P1-A3	10.0								
Gissolal Goodin Sample P1-3 100 7312 Sigsolal 5.234 687-2015 0.05 gglu 7312 73430 Sigsolal 5.234 687-2015 0.05 gglu 7312 73430 Sigsolal 5.234 687-2015 0.05 gglu 73120 73120 Sigsolal 5.234 687-2015 0.05 glu 741 000 0.000 1209 0.0035 0.0036 9274 Sigsolal 5.234 687-2015 0.0124 5.244 200 0.0100 1200 0.003 0.0035 0.0036 0.0035 0.0036 0.0036 0.0035 0.0036 0.0035 0.0036 0.0036 0.0036 0.0035 0.0036 0.0036 0.0036 0.	05192021a 006.d	5.324	Condition		Sample	P1-A3	10.0								
Gispanza_008d 5.234 687-2MI6 0.05 gold Calibration Val 3 100 17.31 6139203.a 5.331 687-3MI6 0.15 gold 5334 687-3MI6 0.15 gold 74.20 6139203.a 5.311 687-3MI6 0.15 gold Calibration Val 2 100 74.20 6139203.a 0.016 5.311 687-3MI3 0.5 gold Calibration Val 2 100 234.90 6139203.a 0.016 5.31 687-3MI3 0.5 gold Calibration Val 2 100 234.90 6139203.a 0.016 5.324 687-3MI2 0.5 gold Calibration Val 2 100 0.1000 0.1000 234.20 6193021.a 0.134 5.324 283560.01011 GA-08405 Sample P1-A1 100 0.1000 135.61 0.013 2001 205 6593021.a 5.324 283560.01012 GA-08405 Sample P1-A1 100 0.100 100 0.000 206 2003 2003 2003 20036 20035 206	05192021a_007.d	5.324	Condition		Sample	P1-A3	10.0								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05192021a_008.d	5.324	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				71.6/				
65192021a 637-2M14 0.25 pg/lt Calibration Val 2 100 741.20 741.20 65192021a 5.311 687-2M14 0.25 67.3012.0 g/lt 741.20 741.20 741.20 65192021a_012.d 5.311 687-2M13 0.5 g/gt Calibration Val 2 100 741.20 741.20 65192021a_013.d 28265 GA/04805 Sample P1-A1 100 0.1000 110 0.010 2003 0.0031 2014 65192021a_013.d 5.324 282650.01R1 GA/04805 Sample P1-A1 100 0.100 121.99 0.013 0.01 201	05192021a 009.d	5.324	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				154.58				
65/92021a 011d 5.311 667-2M13 0.50 p/lu Calibration Val 1 100 190.13 190.13 6.010 6.011 <th6.011< th=""> <th6< td=""><td>05192021a 010.d</td><td>5.311</td><td>687-2M14 0.25 pg/µL</td><td></td><td>Calibration</td><td>Vial 3</td><td>10.0</td><td></td><td></td><td></td><td>3/4.90</td><td></td><td></td><td></td><td></td></th6<></th6.011<>	05192021a 010.d	5.311	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				3/4.90				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05192021a 011.d	5.311	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				741.20				
51392011a	05192021a 012.d	5.297	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				1490.51	100	10.00		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05192021a 013.d		28265	GA-OR405	Sample	P1-A1	10.0	0.100	10.0	0.1000	l	<0.10	<0.01		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05102015 014 d	1	28265	GA-OR405	Sample	P1-A1	10.0	0.100	10.0	0.1000	l	<0.10	<0.01	<0.01	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0110_012026100	5 374	28265C0.01R1	GA-OR405	Sample	P1-A2	10.0	0.100	10.0	0.1000	121.99	0.0883	0.0088		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.010 BI2026100	5 374	28265C0.01R1	GA-OR405	Sample	P1-A2	10.0	0.100	10.0	0.1000	132.67	0.0955	0.0095	0.00919	92%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	P 210 -1000130	5 374	687-2M15 0 10 po/ul		Calibration	Vial 4	10.0				135.97				
Displace	P 810 CICUCULAU	5 374	28265C0.01R2	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	125.63	0.0908	0.0091		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	010_012020120	ACE 3	28265C0 0182	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	117.71	0.0855	0.0085	0.00881	88%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	n'610 PT70761C0	17C 1	19080	GC-0R405	Samole	P1-A4	10.0	0.100	10.0	0.1000	204.85	0.1438	0.0144		
	05192021a_020.d	5.324	10707	GC-OR405	Sample	P1-A4	10.0	0.100	10.0	0.1000	209.86	0.1471	0.0147	0.015	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05192021a_021.d	115.6	10202		Collibration	C Init	10.01				333.04				
05192021a_023.d 5.324 28268 00-00405 5 ample 71.45 10.0 0.100 15.26 0.1160 0.016 0.016 0.012 05192021a_023.d 5.324 53268 GD-07405 5 ample P1.45 10.0 0.100 15.26 0.1160 0.016	05192021a_022.d	5.324	687-2M14 0.25 pg/µL	CD OD40E	Calibiduoli	C IDIA	0.01	0 100	10.0	0.1000	165.63	0.1175	0.0118		
05192021a_023.4 5.324 28267 (floriezmid) 6C-004405 5ample P1-45 10.0 0.100 0.001 0.001	05192021a_023.d	5.324	28268	CUTAD-UD	aldilloc		0.01	00100	10.0	0 1000	163.26	0.1160	0.0116	0.012	
05192021a_025.4 — 28267 (Floricamid) GC 0R405 Sample P1.46 10.0 0.100 0.0025 — 0.010 0.0025 — 0.010 0.001 0.0101 0.011 0.0	05192021a_024.d	5.324	28268	GU-UK4U3	sample	CH-LT	0'0T	001.0	0.01	10000		010	20.01		
05192021a_025.d 28267 (Floricamid) GCGR405 Sample P1.46 10.0 0.1002.0	05192021a_025.d	1	28267 (Flonicamid)	GC-0R405	Sample	P1-A6	10.0	0.100	9.001	C700-0		010	10.02		
05192021a_027.d 5.338 687-2M15 0.10 pg/µL Calibration Vial 4 10.0 140.45 400.49 400.45 400.49 40.01 </td <td>05192021a 026.d</td> <td>1</td> <td>28267 (Flonicamid)</td> <td>GC OR405</td> <td>Sample</td> <td>P1-46</td> <td>10.0</td> <td>0.100</td> <td>400.0</td> <td>\$700.0</td> <td></td> <td></td> <td>10.07</td> <td></td> <td></td>	05192021a 026.d	1	28267 (Flonicamid)	GC OR405	Sample	P1-46	10.0	0.100	400.0	\$700.0			10.07		
051920218_028.d 28268 (Floricamid) GD-0R405 Sample P1.A7 10.0 0.1004 0.0025 40.01 40.01 051920218_0234 28268 (Floricamid) GD-0R405 Sample P1.A7 10.0 0.1004 0.0025 40.01 40.01	05192021a 027.d	5.338	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				146.45				
051920218-0294 28268 (Floriesmid) GD-OR405 Sample P1-A7 10-0 0-100 0-0025 -0.10 <0-10 <0-01 051920218_030.d 5.324 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 339.31 339.31 <0.01	05102021a-028.d	1	28268 (Flonicamid)	GD-0R405	Sample	PI A7	10.0	0.100	400.0	0.0025	l	€0: 10	10:0		
05192021a_030.d 5.324 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 339.31 Calculated LOD at 0.045 pg/µL = 57 Calculated LOQ at 0.10 pg/µL = 139 " _ docovers below area threshold	05102021a 029.d	1	28268 (Flonicamid)	GD-0R405	Sample	P1-A7	10.0	0.100	400.0	0.0025	l	<0.10	10:07		
Calculated LOD at 0.045 pg/µL = 57 Calculated LOQ at 0.10 pg/µL = 139 	05192021a 030.d	5.324	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				339.31				
Calculated LOQ at 0.10 pg/µL = 139	Calculated LOD at 0.1	045 pg/µL =	57												
"" doondes helow area threshold	Calculated LOQ at 0.	10 pg/µL =	139												
	" donotes resource	tee helow area	threshold												

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Strikethrough denotes data not used, dilutions used for flonicamid quantitation only

0.0500

79.12

 $\mathbf{\Sigma}$

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Calibration

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Injection Date 5/19/2021 Compound TFNA 1 08550 - Floni

- OR405 Field Samples - Extracted 5/19/2021 bv ASM

Otacing is class Sample tion contain Type tion contain					Samula		Thi Vol					Conc		Ave	
Gissona 0.01 Codion Sampe 7.43 100 Gissona 0.014 6.00 Codion Sampe 7-43 100 Gissona 0.014 6.00 Codion Sampe 7-43 100 Gissona 0.010 Codion Sampe 7-43 100 Gissona 0.010 Codion Sampe 7-43 100 Gissona 0.010 Gissona 0.010 Sampe 7-43 100 Gissona 0.010 Sampe 7-43 100 7-41 Gissona 0.010 Sampe 7-43 100 7-41 Gissona 0.010 Sampe 7-41 100 7-41 Gissona 0.010 Sampe 7-41 100 17/5 Gissona 0.014 Codion Sampe 7-41 17/5 Gissona 0.014 Gissona 0.010 Sampe 7-41 17/5 Gissona 0.014 Gissona 0.010 Sampe 7-41 17/5 17/5 Gissona 0.014 Gissona 0.010 Sampe 7-41 0.000	Data File	RT	SampleName	Sample Info	Type	Vial Pos	(hr)	5	IL Vol	ini gm	Resp ((JµL)	mqq	mqq	% Rec
S153021.00.01 G010 Contion Sample F1-31 100 S153021.00.01 6.00 Contion Sample F1-31 100 S133021.00.01 6.00 Contion Sample F1-31 100 S133021.00.01 5.00 Contion Sample F1-31 100 S133021.00.01 5.00 Contion Sample F1-31 100 S133021.00.01 5.93 667-MH3 C0 PG/H Contion Sample F1-31 100 S133021.00.01 5.83 667-MH3 C0 PG/H Contion Sample F1-41 100 17.11 S133021.01.01 5.83 677-MH3 C0 PG/H Contion Ma1 100 17.11 S139021.01.01 5.83 677-MH3 C0 PG/H Contion Ma1 100 17.11 S139021.01.01 5.83 677-MH3 C0 PG/H Contion Ma1 100 17.11 S139021.01.01 5.83 677-MH3 C0 PG/H Contion Ma1 100 17.11 <td< td=""><td>05192021a 001.d</td><td>6.024</td><td>Condition</td><td></td><td>Sample</td><td>P1-A3</td><td>10.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	05192021a 001.d	6.024	Condition		Sample	P1-A3	10.0								
5392013_0014 603 Contino Sample F1-33 100 51920213_0024 600 Contino Sample F1-33 100 51920213_0024 600 Contino Sample F1-33 100 51920213_0024 600 Contino Sample F1-33 100 51920213_0024 5993 687-2015 L0 pd/L Calibration Val 3 100 51920213_0024 5993 687-2015 L0 pd/L Calibration Val 3 100 711 51920213_0114 5893 687-2013 L0 pd/L Calibration Val 3 100 711 51920213_0114 5893 687-2013 L0 pd/L Calibration Val 3 100 1173-3 51920213_0114 5893 687-2011 L0 pd/L Calibration Val 3 100 1173-3 51920213_0114 5893 687-2011 C0 pd/L Calibration Val 3 100 100 100 100 51920213_0114 5893 687-2011 C0 pd/L Calibration Val 3 10	05192021a 002.d	6.010	Condition		Sample	P1-A3	10.0								
553213.004 6.00 Condition Sample P1-33 100 51920213.0054 6.00 Condition Sample P1-33 100 51920213.0054 6.00 Condition Sample P1-33 100 51920213.0054 6.00 Condition Sample P1-34 100 51920213.0054 5.97 687-2015.010 Sample P1-34 100 51920213.0054 5.93 687-2015.010 Sample P1-34 100 51920213.0014 5.83 687-2015.010 Calimation Val 100 27.11 51920213.0114 5.83 687-2015.010 Calimation Val 100 10.00 17.13 51920213.0114 5.83 687-2015.010 Calimation Val 100 10.00 17.13 51920213.0114 5.83 667-00405 Sample P1-41 100 10.00 10.00 10.01 51920213.0114 5.83 667-0117 667-01 20.00 10.00 10	05192021a 003.d	6.024	Condition		Sample	P1-A3	10.0								
6592013 0.00 Condition Sample P1-33 100 65920213_0064 6.00 Condition Sample P1-33 100 65920213_0014 6.00 Condition Sample P1-33 100 65920213_0014 5.89 667-2M16.05 gold Calibration Val 3 100 65920213_0014 5.89 667-2M16.05 gold Calibration Val 3 100 65920213_0114 5.89 667-2M16.05 gold Calibration Val 3 100 17754 65920213_0114 5.89 667-2M13.05 gold Calibration Val 3 100 1100 17754 65920213_0114 5.89 667-2M13.05 gold Calibration Val 3 100 100 1100 1100 11754 65920213_0124	05192021a 004.d	6.010	Condition		Sample	P1-A3	10.0								
553202.1.00cd 6010 Condition Sample F1-33 100 34.11 553202.1.00cd 5970 687-2415 0.05 gyd, 2018 molion 71.3 100 34.11 553202.1.00cd 5970 687-2415 0.05 gyd, 2018 molion 74.3 100 33.5.73 553202.1.00cd 5973 687-2411 0.05 gyd, 2018 molion 74.3 100 177.34 593202.1.010d 5883 687-2411 0.51 gyd, Calibration 74.3 100 177.34 513202.1.011d 5883 687-2411 0.51 gyd, Calibration 74.3 100 177.34 513202.1.011d 5883 687-2411 0.51 gyd, Calibration 74.1 100 177.34 513202.1.012d 5883 687-2411 0.51 gyd, Calibration 74.1 100 110.0 1000 100 1001 1001 1001 1001 1001 1001 1001 177.34 1001 177.34 1001 1001 1001 1001 1001 1001 1001 1001	05192021a 005.d	6.010	Condition		Sample	P1-A3	10.0								
S152021a_0074 6.010 Condition Sample S122021a_0084 5.97 667-2416-0.05 pq/L S111 311 S132021a_0084 5.997 667-2416-0.00 pq/L Condition Val 3 100 311 311 S132021a_0104 5.983 667-2415-0.0 pq/L Calibration Val 3 100 3175 3175 S132021a_0114 5.983 667-2411-0 pq/L Calibration Val 1 100 1173 3175 S132021a_0114 5.983 667-7411-0 pq/L Calibration Val 1 100 1100 1100 100 401 <td>05192021a 006.d</td> <td>6.010</td> <td>Condition</td> <td></td> <td>Sample</td> <td>P1-A3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	05192021a 006.d	6.010	Condition		Sample	P1-A3	10.0								
S1932021a_008d S97 687-2016 0.05 pg/L Calibration Val 100 7.11 S1932021a_003d 5.997 687-2014 0.05 pg/L Calibration Val 100 7.11 S1932021a_011d 5.893 687-2014 0.25 pg/L Calibration Val 100 177.54 177.54 S1932021a_011d 5.833 687-2011 0.00 fg/L Calibration Val 100 177.54 177.54 S1932021a_011d 5.933 687-2012 0.01 gg/L Calibration Val 100 0.100 177.54 0.01 0.01 S1932021a_011d 5.933 687-2011 0.001L Calibration Val 100 0.100 177.54 0.001 0.01	05192021a 007.d	6.010	Condition		Sample	P1-A3	10.0								
5192013_004 5.97 687-2M15.010 69/L Calibration Val 3 10.0 177.54 177.54 65130213_0114 5.883 687-2M12.10.96/L Calibration Val 3 10.0 335.75 65130213_0124 5.983 687-2M12.10.96/L Calibration Val 1 10.0 65.56 -0.10 -0.00 -0.00 -0.00 -0.01 -0.	05192021a 008.d	266.5	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				34.11				
051920214_0104 5.983 667-2M14.0.25 pg/lt Calibration Val 10.0 177.54 051920214_0114 5.983 667-2M14.0.25 pg/lt Calibration Val 10.0 133.23 051920214_0114 5.983 667-2M13.0.5 pg/lt Calibration Val 10.0 0.100 665.56 0.01 0.01 05192021a_0144 28355 64-07405 58mple F1-A1 10.0 0.1000 0.01 0.01 05192021a_0144 28355 64-07405 58mple F1-A1 10.0 0.1000 -0.10 -0.01 -0.01 0.01 05192021a_0134 6.010 288550.01R1 64-07405 58mple F1-A1 10.0 0.1000 F1-A 0.01	05192021a 009.d	266.5	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				71.11				
6592021a_011d 5.83 667-2M13.0.50 pc/lt Callberton Val 2 100 335.73 65192021a_012d 5.93 667-2M12.0.50 pc/lt Callberton Val 1 100 0.100 0.10 0.01 -0.01 <	05192021a 010.d	5.983	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				177.54				
65:9271a_012.d 5.983 687-2M12.10 pg/L Calibration Val 100 0.100 c.0.10 c.0.10 <thc.0.11< th=""> c.0.10 <thc.0.11< th=""></thc.0.11<></thc.0.11<>	05192021a 011.d	5.983	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				335.73				
0519271a_013.d	05192021a 012.d	5.983	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				665.56				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05192021a 013.d		28265	GA-OR405	Sample	P1-A1	10.0	0.100	10.0	0.1000	l	<0.10	<0.01		
0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:	05192021a 014 d		28265	GA-OR405	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01	
05132021a 010 28255C0.01R1 GA OR405 Sample P1-A2 10.0 0.100 54.69 0.0847 0.0087 0.0847 0.0087 0.0013 0.01	051920213 015 d	6.024	28265C0.01R1	GA-OR405	Sample	P1-A2	10.0	0.100	10.0	0.1000	58.35	0.0902	0600.0		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05192021a 016.d	6.010	28265C0.01R1	GA-OR405	Sample	P1-A2	10.0	0.100	10.0	0.1000	54.69	0.0847	0.0085	0.00874	87%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05192021a 017 d	2,997	687-2M15 0.10 pg/uL		Calibration	Vial 4	10.0				59.04				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05192021a 018.d	6.010	28265C0.01R2	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	58.68	0.0907	0.0091		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05192021a 019.d	6.010	28265C0.01R2	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	59.78	0.0923	0.0092	0.00915	91%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	051020130 020 d	6 010	28267	GC-OR405	Sample	P1-A4	10.0	0.100	10.0	0.1000	82.44	0.1262	0.0126		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	051920212020120 D.170 0212020120	266.5	28267	GC-OR405	Sample	P1-A4	10.0	0.100	10.0	0.1000	90.33	0.1381	0.0138	0.013	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05192021a 022.d	5,983	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				153.58				
05192021a_025.d 6.010 28268 GD-OR405 Sample P1-45 10.0 0.100 96.58 0.1474 0.0147 0.0147 05192021a_025.d 28267 (Flonicamid) GC-OR405 Sample P1-46 10.0 0.1000 96.58 0.1474 0.0147 0.014 05192021a_025.d 28267 (Flonicamid) GC-OR405 Sample P1-46 10.0 0.00025 <0.10	05192021a 023.d	6.010	28268	GD-OR405	Sample	P1-A5	10.0	0.100	10.0	0.1000	88.19	0.1349	0.0135		
05192021a_025.d — 28267 (Flonicamid) 6C 0R405 5smple P1 46 10.0 0.0025 — 40.40 40.41 05192021a_025.d — 28267 (Flonicamid) 6C 0R405 5smple P1 46 10.0 0.0025 — 40.41 40.41 05192021a_027.d 5.997 687-2M15 0.10 pg/µL Calibration Vial 4 10.0 0.0025 — 40.40 40.41 05192021a_027.d 5.997 687-2M15 0.10 pg/µL Calibration Vial 4 10.0 0.400.0 0.0025 — 40.41 05192021a_022.d 5.997 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 0.400.0 0.0025 — 40.41 05192021a_0201a_0204 5.997 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 0.400.0 0.0025 — 40.40 05192021a_0201a_0204 5.997 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 0.400.0 0.0025 — 40.40 05192021a_0201a_030.d 5.997 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 0.400.0	05192021a 024.d	6.010	28268	GD-OR405	Sample	P1-A5	10.0	0.100	10.0	0.1000	96.58	0.1474	0.0147	0.014	
65192021a_025.d — 28267 (Flonicamid) 6C OR405 53mple P1 46 10.0 0.400.0 0.6025 — 40.40 05192021a_027.d 5.997 687-2M15 0.10 pg/µL Calibration Vial 4 10.0 66.61 66.61 05192021a_022.4 — 28268 (Flonicamid) 6D-OR405 55mple P1 A7 10.0 6.100 66.61 05192021a_022.4 — 28268 (Flonicamid) 6D-OR405 55mple P1 A7 10.0 0.100 0.0025 — 40.10 6401 05192021a_0202.4 5.997 587-2M14 0.25 pg/µL 6D-OR405 55mple P1 A7 10.0 0.100 0.0025 — 40.10 64.01 05192021a_030.d 5.997 587-2M14 0.25 pg/µL Calibration Vial 3 10.0 0.100 0.0025 — 40.10 40.01 60.01 64.01 05192021a_030.d 5.997 587-2M14 0.25 pg/µL Calibration Vial 3 10.0 10.0 10.00 155.84 60.10 64.01 Calculated LOD at 0.10 pg/µL = 53 28 10.0 0.100	05192021a 025.d	1	28267 (Flonicamid)	6C OR405	Sample	PI-A6	10.0	0.100	400.0	0.0025	1	€0: <u>10</u>	€0:01		
05192021a_027.d 5.997 687-2M15 0.10 pg/uL Calibration Vial 4 10.0 66.61 05192021a_022.4 28268 (Floricamid) 6D-0R405 55mple P1 A7 10.0 0.100 0.0025 40.10 40.01 05192021a_022.4 28268 (Floricamid) 6D-0R405 55mple P1 A7 10.0 0.100 0.0025 40.10 40.01 05192021a_02021a_0202.4 28268 (Floricamid) GD-0R405 55mple P1 A7 10.0 0.100 400.0 0.0025 40.10 40.01 05192021a_030.4 5.997 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 10.0 155.84 40.10 0clulated LOD at 0.045 pg/µL 28 28 28 28 400.0 155.84 40.10 40.01 0.100 pg/µL 5 28 28 28 28 40.10 10.00 155.84 40.10 0.100 pg/µL 65 - 61.0 10.0 10.0 155.84 40.10 40.01 0.010 pg/µL <t< td=""><td>05192021a 026.d</td><td>1</td><td>28267 (Flonicamid)</td><td>6C-0R405</td><td>Sample</td><td>P1-46</td><td>10.0</td><td>0.100</td><td>400.0</td><td>0:0025</td><td>1</td><td><0.10</td><td>€0:01</td><td></td><td></td></t<>	05192021a 026.d	1	28267 (Flonicamid)	6C-0R405	Sample	P1-46	10.0	0.100	400.0	0:0025	1	<0.10	€0:0 1		
05192021a_028.d — 28268 (Floricamid) GD-0R405 55mple P1_A7 10.0 0.100 400.0 0.0025 — 40.10 4001 05192021a_029.d — 28268 (Floricamid) GD-0R405 55mple P1_A7 10.0 0.100 0.0025 — 40.10 40.01 05192021a_030.d 5.997 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 0.100 0.0025 — 40.01 40.01 05192021a_030.d 5.997 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 1.00 155.84 40.10 05192021a_030.d 5.997 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 1.00 155.84 40.10 Calculated LOD at 0.10 pg/µL = 28 28 10.00 10.0 1.00 155.84 40.10 40.01 0.10 pg/µL = 65 65 65 40.10 40.00 40.00 40.10 40.10 40.10 40.10 40.10 40.10 40.10 40.10 40.10	05192021a 027.d	5.997	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				66.61				
05192021a_029.d 28268 (Floricamid) GD-OR405 5ample P1_A7 10.0 0.100 0.0025 <0.10	05192021a 028.d	ļ	28268 (Flonicamid)	GD-0R405	Sample	P1-A7	10.0	0.100	400.0	0.0025	1	01.0>	€0:0 1		
05192021a_030.d 5.997 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 155.84 Calculated LOD at 0.045 pg/µL = 28 Calculated LOQ at 0.10 pg/µL = 65	05192021a 029.d	l	28268 (Flonicamid)	GD OR 105	Sample	P1-A7	10.0	0.100	400.0	0.0025	1	€0: 10	€0:0 1		
Calculated LOD at 0.045 pg/µL = 28 Calculated LOQ at 0.10 pg/µL = 65	05192021a_030.d	5.997	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				155.84				
Calculated LOQ at 0.10 pg/µL = 65	Calculated LOD at 0.1	045 pg/µL =	28												
i i i i i i i i i i i i i i i i i i i	Calculated LOQ at 0.	10 pg/µL =	65												
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Strikethrough denotes data not used, dilutions used for flonicamid quantitation only



0.1000 0.1000 0.0500

59.04 66.61 34.11

4

Calibration Calibration Calibration

D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05192021\05192021a_017.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05192021\05192021a_027.d

D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05192021\05192021a_008.d

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Compound Injection Date TFNG 5/19/2021 08550 - Flonicamid/Onion - OR401

-NG J/19/20/21 Seed Samples - Extracted 5/19/2021 by ASM

Data File 05192021a_001.d													and and a	
05192021a_001.d	RT	SampleName	Sample Info	Type	Vial Pos	(hr)	6	nt Vol	ini gm	Resp	(Jµ/)	bpm	Indd	% Rec
	7.225	Condition		Sample	P1-A3	10.0								
05192021a 002.d	7.212	Condition		Sample	P1-A3	10.0								
05192021a 003.d	7.225	Condition		Sample	P1-A3	10.0								
05192021a 004.d	7.212	Condition		Sample	P1-A3	10.0								
05192021a_005.d	7.225	Condition		Sample	P1-A3	10.0								
05192021a_006.d	7.212	Condition		Sample	P1-A3	10.0								
05192021a 007.d	7.212	Condition		Sample	P1-A3	10.0								
05192021a 008.d	7.212	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				27.76				
05192021a 009.d	7.225	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				48.85				
05192021a 010.d	7.212	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				108.81				
05192021a 011.d	7.212	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				235.23				
05192021a 012.d	7.198	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				488.50				
05192021a 013.d	I	28265	GA-OR405	Sample	P1-A1	10.0	0.100	10.0	0.1000	l	<0.10	<0.01		
05192021a 014 d		28265	GA-OR405	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01	
05192021a 015.d	7.225	28265C0.01R1	GA-OR405	Sample	P1-A2	10.0	0.100	10.0	0.1000	44.27	0.0998	0.0100		10.00
05192021a 016.d	7.212	28265C0.01R1	GA-OR405	Sample	P1-A2	10.0	0.100	10.0	0.1000	44.46	0.1002	0.0100	0.0100	100%
05192021a 017.d	7.212	687-2M15 0.10 pg/nL		Calibration	Vial 4	10.0				44.69				
05192021a 018 d	7.212	28265C0.01R2	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	40.43	0.0919	0.0092		
010 CLC0C0120	7 212	28265C0.01R2	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	39.00	0.0890	0.0089	0.00904	%06
		28267	GC-OR405	Sample	P1-A4	10.0	0.100	10.0	0.1000		<0.10	<0.01		
051920218_021 d		28267	GC-OR405	Sample	P1-A4	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01	
	C1C L	687-2M14 0 25 nd/iil		Calibration	Vial 3	10.0				109.34				
0220_02202020100 h 200 c1000000000000000000000000000000000		28268	GD-OR405	Sample	P1-A5	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
051920215 024.d	I	28268	GD-OR405	Sample	P1-A5	10.0	0.100	10.0	0.1000	ł	<0.10	<0.01	<0.01	
051020215 025 d		28267 (Flonicamid)	6C OR405	Sample	P1-46	10.0	0.100	400.0	0.0025	I	€0:10	€0:01		
0510702150 076 d	1	28267 (Flonicamid)	GC-0R405	Sample	PI-A6	10.0	0.100	400.0	0.0025	l	€0:10	<0.01		
05192021a 027.d	7.225	687-2M15 0.10 pg/uL		Calibration	Vial 4	10.0				51.20				
051020213 028 d	ļ	28268 (Flonicamid)	GD-0R405	Sample	P1-A7	10.0	0.100	400.0	0:0025	1	€0: <u>10</u>	+0:0>		
00100012020100	J	28268 (Flonicamid)	GD-0R405	Sample	P1-A7	10.0	0.100	400.0	0.0025	L	€0:10	<0:01		
05192021a 030.d	7.225	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				113.08				
Calculated LOD at 0.045	= hg/hr =	18												
Calculated LOO at 0.10 p	pd/hr =	44												
" " donotoo rochoopea	holow area th	reshold												
periodeal salona	Delow al ca n	ונפוומו	1.00											

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0.1000 0.1000

44.69 51.20

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Calibration Calibration Calibration

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D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05192021\05192021a_008.d

				Sample		Inj Vol	1	I Mol	ini Ini	Decn	Conc Conc	maa	Ave ppm	% Rec
Data File	RT	SampleName	Sample Info	Iype	Vial Pos	(hr)	5	IF AOI	fur fill	depu	1-41641			
05202021a 001.d		Condition		Sample	P1-A2	10.0								
05202021a 002.d	7.721	Condition		Sample	P1-A2	10.0								
05202021a 003.d	7.735	Condition		Sample	P1-A2	10.0								
05202021a_004.d	7.735	Condition		Sample	P1-A2	10.0								
05202021a_005.d	7.735	Condition		Sample	P1-A2	10.0								
05202021a 006.d	7.735	Condition		Sample	P1-A2	10.0								
05202021a 007.d	7.735	Condition		Sample	P1-A2	10.0								
05202021a 008.d	7.721	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				20.79				
05202021a 009.d	7.735	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				39.47				
05202021a 010.d	7.735	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				93.27				
05202021a_011.d	7.735	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				189.99				
05202021a_012 d	7.735	687-2M12 1.0 pg/uL		Calibration	Vial 1	10.0				377.88				
*05202021a_013.d	Ī	28265	GA-OR405	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
*05202021a 014 d		28265	GA-OR405	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01	<0.01	
05202021a 015.d	7.735	28265C0.01R1	GA-OR405	Sample	P1-A2	10.0	0.100	10.0	0.1000	32.98	0.0902	0600.0		
05202021a_016.d	7.735	28265C0.01R1	GA-OR405	Sample	P1-A2	10.0	0.100	10.0	0.1000	33.79	0.0923	0.0092	0.00913	91%
05202021a 017.d	7.735	687-2M15 0.10 pd/µL		Calibration	Vial 4	10.0				33.46				
*05202021a 018.d	7.721	28265C0.01R2	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	29.27	0.0804	0.0080		
*05202021a_019.d	7.735	28265C0.01R2	GA-CA*20	Sample	P1-A3	10.0	0.100	10.0	0.1000	34.71	0.0948	0.0095	0.00876	
05202021a_020.d	7.721	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				89.35				

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Injection Date 5/20/2021

91%

Calculated LOD at 0.045 pg/µL = Calculated LOQ at 0.10 pg/µL = "----" denotes response below area threshold *Data previously reported

37

05202021a_020.d

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Calculated LOQ at 0.10 pg/µL = 30 "----" denotes response below area threshold Strikethrough denotes data not used, dilutions used for fionicamid quantitation only

Flonicamid 5/24/20	o21			SEIC	171 0	~								
08550 - Flonicamid/Onion - CA18 8	& CA*20 Fie	ld Samples - Extracted 5/24/	2021 by ASM											
	1	omeNelone2	Counter Info	Sample	vial Doc	Inj Vol	e	I Vol	ind Ini	Resp	Conc (pa/ul)	maa	Ave	% Rec
0011 a 100 d 100 d	7.450	Condition		Sample	P1-A3	10.0	•	5	•					
05242021a 002.d	7.735	Condition		Sample	P1-A3	10.0								
05242021a 003.d	7.721	Condition		Sample	P1-A3	10.0								
05242021a_004.d	7.721	Condition		Sample	P1-A3	10.0								
05242021a 005.d	7.721	Condition		Sample	P1-A3	10.0								
05242021a_006.d	7.735	Condition		Sample	P1-A3	10.0								
05242021a 007.d	7.735	Condition		Sample	P1-A3	10.0								
05242021a_008.d	7.735	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				20.94				
05242021a 009.d	7.735	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				29.50				
05242021a 010.d	7.735	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				84.25				
05242021a 011.d	7.735	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				159.89				
05242021a 012.d	7.721	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				314.53				
05242021a 013.d	1	28225	GA-CA18	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01		
05242021a 014.d	1	28225	GA-CA18	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01	<0.01	
05242021a_015.d	7.721	28225C0.01R3	GA-CA18	Sample	P1-A2	10.0	0.100	10.0	0.1000	26.81	0.0889	0.0089		
05242021a 016.d	7.721	28225C0.01R3	GA-CA18	Sample	P1-A2	10.0	0.100	10.0	0.1000	30.35	0.1001	0.0100	0.00945	94%
05242021a 017.d	7.735	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				26.46				
05242021a 018.d	7.735	28225C0.10R1	GA-CA18	Sample	P1-A3	10.0	0.100	40.0	0.0250	68.46	0.2206	0.0882		
05242021a 019.d	7.721	28225C0.10R1	GA-CA18	Sample	P1-A3	10.0	0.100	40.0	0.0250	74.43	0.2395	0.0958	0.0920	92%
05242021a 020.d	7.735	58557	6C-CA18	Sample	P1-A4	10.0	0.100	0.0E	0.1000	3609.75	11.4164	1.1416		
02420210-021-d	7.735	58557	6C-CA18	Sample	P1-A4	10.01	0.100	10.0	0.1000	3623.72	11.4605	1.1461		
05242021a 022.d	7.735	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				76.33				
05242021a-023.d	352.7	38238	6D-CA18	Sample	P1-A5	10.0	0.100	10.0	0.1000	3925.79	12.4155	1.2416		
05242021a 024.d	7.724	28228	GD-CA18	Sample	P1-45	10.0	0.100	10.0	0.1000	3947.29	12.4835	1.2483		
05242021a 025.d	3:735	28851	6C-CA*20	Sample	P1-46	10.0	0.100	10.0	0.1000	2328.99	7.3672	0.7367		
05242021a 026.d	3:735	28851	GC CA*20	Sample	P1-46	10.0	0.100	10.0	0.1000	2393.34	1.5707	0.7574		
05242021a_027.d	7.735	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				32.43				
05242021a_028.d	357.7	28852	6D-CA*20	Sample	FA-F4	10.0	0.100	10.0	0.1000	2984.82	9.4407	0.9441		
05242021a-029.d	56171	58852	GD-CA*20	Sample	P1-A7	10.0	0.100	10.0	0.1000	2965.69	9.3802	0.9380		
05242021a_030.d	7.735	28227 (Flonicamid)	GC-CA18	Sample	P1-A8	10.0	0.100	200.0	0.0050	203.41	0.6472	1.2945		
05242021a_031.d	7.735	28227 (Flonicamid)	GC-CA18	Sample	P1-A8	10.0	0.100	200.0	0.0050	214.64	0.6827	1.3655	1.3	
05242021a_032.d	7.735	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				77.04				
05242021a 033.d	7.735	28228 (Flonicamid)	GD-CA18	Sample	P1-A9	10.0	0.100	200.0	0.0050	219.29	0.6974	1.3949		
05242021a 034.d	7.735	28228 (Flonicamid)	GD-CA18	Sample	P1-A9	10.0	0.100	200.0	0.0050	216.28	0.6879	1.3758	1.4	
05242021a 035.d	7.735	28851 (Flonicamid)	GC-CA*20	Sample	P1-B1	10.0	0.100	200.0	0.0050	129.24	0.4127	0.8255		
05242021a 036.d	7.735	28851 (Flonicamid)	GC-CA*20	Sample	P1-B1	10.0	0.100	200.0	0.0050	140.20	0.4474	0.8948	0.86	
05242021a 037.d	7.735	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				27.05				
05242021a 038.d	7.735	28852 (Flonicamid)	GD-CA*20	Sample	P1-B2	10.0	0.100	200.0	0.0050	157.94	0.5035	1.0069		
05242021a_039.d	7.735	28852 (Flonicamid)	GD-CA*20	Sample	P1-B2	10.0	0.100	200.0	0.0050	172.57	0.5497	1.0995	1.1	
05242021a_040.d	7.735	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				70.26				
Calculated LOD at 0.045 pg/	,hr =	13												

SmoothingFunctionWidth

10

Gaussian

S/25/21 COM

Flonicamid - 5 Levels, 5 Levels Used, 11 Points, 11 Points Used, 0 QCs

y = 316.305591 * x - 1.311691

R^2 = 0.99757619

×10²

2.5-

2.75 ŝ

Sesponses

2.25-

1.75-1.5-

N

1.25

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weightEqual Weighting

Type:Linear, Origin:Ignore, Weight:None

Smoothing

Integrator Agile

CurveFit fitLinear

Target Compound Flonicamid



0.1000 0.1000

0.1000 0.1000 0.0500

0.2500 0.2500 0.2500 0.2500

0.85 0.9 0.95

0.8

0.75

0.7

0.65

0.6

0.55

0.5

0.35 0.4 0.45

0.3

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 5/24/2021

 08550 - Flonicamid/Onion - CA18 & CA*20 Field Samples - Extracted 5/24/2021 by ASM

													0.00	
	10	SamulaName	Samula Info	Sample	Vial Pos	Inj Vol (uL)		mL Vol	ini Ini	Resp	(pg/hf)	mdd	ppm °	/o Rec
05242021a 001.d	4.931	Condition		Sample	P1-A3	10.0	Ċ							
05242021a 002.d	5.324	Condition		Sample	P1-A3	10.0								
05242021a_003.d	5.324	Condition		Sample	P1-A3	10.0								
05242021a_004.d	5.324	Condition		Sample	P1-A3	10.0								
05242021a_005.d	5.324	Condition		Sample	P1-A3	10.0								
05242021a_006.d	5.311	Condition		Sample	P1-A3	10.0								
05242021a_007.d	5.324	Condition		Sample	P1-A3	10.0								
05242021a_008.d	5.324	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				65.20				
05242021a_009.d	5.324	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				127.50				
05242021a_010.d	5.324	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				306.08				
05242021a_011.d	5.324	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				633.60				
05242021a_012.d	5.297	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				1270.69				
05242021a 013.d	1	28225	GA-CA18	Sample	P1-A1	10.0	0.100	10.0	0.1000		<0.10	<0.01		
05242021a 014.d	l	28225	GA-CA18	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01	<0.01	
05242021a 015.d	5.324	28225C0.01R3	GA-CA18	Sample	P1-A2	10.0	0.100	10.0	0.1000	115.43	0.0994	6600.0		
05242021a 016.d	5.324	28225C0.01R3	GA-CA18	Sample	P1-A2	10.0	0.100	10.0	0.1000	108.90	0.0943	0.0094	0.00969	9%16
05242021a 017.d	5.324	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				122.26				
05242021a 018.d	5.311	28225C0.10R1	GA-CA18	Sample	P1-A3	10.0	0.100	40.0	0.0250	284.99	0.2323	0.0929		
05242021a 019.d	5.324	28225C0.10R1	GA-CA18	Sample	P1-A3	10.0	0.100	40.0	0.0250	286.38	0.2334	0.0933	0.0931	93%
05242021a 020.d	5.324	28227	GC-CA18	Sample	P1-A4	10.0	0.100	10.0	0.1000	535.38	0.4284	0.0428		
05242021a 021.d	5.311	28227	GC-CA18	Sample	P1-A4	10.0	0.100	10.0	0.1000	547.14	0.4376	0.0438	0.043	
05242021a 022.d	5.311	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				285.40				
05242021a 023.d	5.324	28228	GD-CA18	Sample	P1-A5	10.0	0.100	10.0	0.1000	616.44	0.4919	0.0492		
05242021a_024.d	5.324	28228	GD-CA18	Sample	P1-A5	10.0	0.100	10.0	0.1000	626.20	0.4995	0.0500	0.050	
05242021a_025.d	5.324	28851	GC-CA*20	Sample	P1-A6	10.0	0.100	10.0	0.1000	178.16	0.1486	0.0149		
05242021a_026.d	5.324	28851	GC-CA*20	Sample	P1-A6	10.0	0.100	10.0	0.1000	181.03	0.1508	0.0151	0.015	
05242021a_027.d	5.324	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				116.61				
05242021a_028.d	5.324	28852	GD-CA*20	Sample	P1-A7	10.0	0.100	10.0	0.1000	270.78	0.2211	0.0221		
05242021a 029.d	5.324	28852	GD-CA*20	Sample	P1-A7	10.0	0.100	10.0	0.1000	277.44	0.2264	0.0226	0.022	
05242021a_030.d	1	28227 (Flonicamid)	6C-CA18	Sample	P1-A8	10.0	0.100	200.0	0:0050	l	+0 1 .0+	10.01		
05242021a_031.d	1	28227 (Flonicamid)	6C-CA18	Sample	P1-A8	10.0	0.100	200.0	0:0050	1	01.0>	+0.01		
05242021a_032.d	5.324	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				281.94				
05242021a 033.d		28228 (Flonicamid)	GD-CA18	Sample	PI-A9	0.0E	0.100	200.0	0:0050	1	+0.10	€0:01		
05242021a 034.d	1	28228 (Flonicamid)	6D-CA18	Sample	64-14	0.0E	0.100	200.0	0:0050	1	+0.10	+0.01		
05242021a 035.d	1	28851 (Flonicamid)	6C-CA*20	Sample	P1-B1	10.0	0.100	200.0	0:0050	1	+0.10	€0:01		
05242021a_036.d	ļ	28851 (Flonicamid)	6C CA*20	Sample	P1-81	10.0	0.100	200.0	0:0050	1	+0.10	€0:01		
05242021a_037.d	5.324	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				120.17				
05242021a 038.d	-	28852 (Flonicamid)	6D-CA*20	Sample	P1-82	10.0	0.100	200.0	0:0050	l	€0.10	+0.01		
05242021a_039.d	1	28852 (Flonicamid)	6D-CA*20	Sample	P1-82	10.0	0.100	200.0	0:0050	1	€0:10	+0.01		
05242021a_040.d	5.324	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				309.82				

Calculated LOD at 0.045 pg/µL = 46 Calculated LOQ at 0.10 pg/µL = 116 "---" denotes response below area threshold Strikethrough denotes data not used, dilutions used for flonicamid quantitation only

Printed at: 9:16 AM on: 5/25/2021



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Strikethrough denotes data not used, dilutions used for flonicamid quantitation only

Calculated LOQ at U.JU pg/pt =	n
"" denotes response below area	threshold

50 - Flonicamid/Onion - CA	18 & CA*20 Fi	eld Samples - Extracted 5/24/2	2021 by ASM								Conc		Ave	
Data File	RT	SampleName	Sample Info	Type	Vial Pos	(hr)	5	mL Vol	ini gm	Resp	(hd/pd)	mqq	mdd	% Rec
05242021a 001.d	1	Condition		Sample	P1-A3	10.0								
05242021a_002.d	5.983	Condition		Sample	P1-A3	10.0								
05242021a_003.d	5.983	Condition		Sample	P1-A3	10.0								
05242021a_004.d	5.983	Condition		Sample	P1-A3	10.0								
05242021a_005.d	5.983	Condition		Sample	P1-A3	10.0								
05242021a 006.d	5.983	Condition		Sample	P1-A3	10.0								
05242021a 007.d	5.983	Condition		Sample	P1-A3	10.0								
05242021a 008.d	5.969	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				31.15				
05242021a 009.d	5.983	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				61.38				
05242021a_010.d	5.969	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				142.31				
05242021a_011.d	5.969	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				276.05				
05242021a 012.d	5.956	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				581.81				
05242021a 013.d]	28225	GA-CA18	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
014 d		28225	GA-CA18	Sample	P1-A1	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
05242021a 015 d	2997	28225C0.01R3	GA-CA18	Sample	P1-A2	10.0	0.100	10.0	0.1000	52.56	0.1003	0.0100		
05747071a 016 d	5 997	2822500.0183	GA-CA18	Sample	P1-A2	10.0	0.100	10.0	0.1000	46.36	0.0896	0600'0	0.00949	92%
0.010_012021_200	5 969	687-2M15 0 10 nn/iil		Calibration	Vial 4	10.0				52.86				
P 010 01007170	200.3		GA-CA18	Samula	P1-43	10.01	0 100	40.0	0.0250	123.91	0.2231	0.0892		
D.810_512024200	COC.C	TUDT ODJECOC	GA-CA18	Cample	EV-10	0.01	0 100	40.0	0.0250	126.83	0.2281	0.0912	0.0902	%06
05242021a_019.0	166.5	20222UU1UK1		Sample		0.01	0010	0.01	00010	167 74	0 7985	0 0799		
05242021a_020.d	266.5	78771	0C-CA10	Sample	PI-A4	0.01	001.0	0.01	0001.0	L1.101	CPUC 0	POCO O	020 0	
05242021a_021.d	5.983	28227	GC-CA18	Sample	P1-A4	10.0	0.100	10.0	0.1000	165.23	0.2942	1.0274	000.0	
05242021a_022.d	5.969	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				130.89				
05242021a_023.d	5.997	28228	GD-CA18	Sample	P1-A5	10.0	0.100	10.0	0.1000	209.86	0.3710	0.0371		
05242021a_024.d	5.997	28228	GD-CA18	Sample	P1-A5	10.0	0.100	10.0	0.1000	225.62	0.3981	0.0398	0.038	
05242021a 025.d	1	28851	GC-CA*20	Sample	P1-A6	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
05242021a 026.d	1	28851	GC-CA*20	Sample	P1-A6	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
05242021a 027.d	5.983	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				53.41				
05242021a 028.d	ł	28852	GD-CA*20	Sample	P1-A7	10.0	0.100	10.0	0.1000	-	<0.10	<0.01		
05242021a 029.d	1	28852	GD-CA*20	Sample	P1-A7	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01	
05242021a 030.d	1	28227 (Flonicamid)	GC-CA18	Sample	P1-A8	10.0	0.100	200.0	0:0050	1	<0.10	+0.01		
05242021a_031.d	1	28227 (Flonicamid)	6C-CA18	Sample	P1-A8	10.0	0.100	200.0	0:0050	t	01.0>	+0.01		
05242021a 032.d	5,969	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				137.37				
05242021a 033.d	Î	28228 (Flonicamid)	GD-CA18	Sample	P1-A9	10.0	0.100	200.0	0:0050	1	+0:10	€0:0 1		
05242021a 034.d	Ì	28228 (Flonicamid)	GD-CA18	Sample	P1-49	10.0	0.100	200.0	0:0050	1	+0.10	+0:01		
05242021a 035.d	1	28851 (Flonicamid)	6C-CA*20	Sample	P1-81	10.0	0.100	200.0	0500.0	1	01.0 ≯	<0.01		
05242021a-036.d	I	28851 (Flonicamid)	6C-CA*20	Sample	P1-B1	10.0	0.100	200.0	0:0050	l	<0.10	<0.01		
05242021a 037.d	5.983	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				49.42				
05242021a 038.d	Ĭ	28852 (Flonicamid)	GD-CA*20	Sample	P1-82	10.0	0.100	200.0	0:0050	Į.	<0.10	+0:0+		
05242021a_039.d	1	28852 (Flonicamid)	GD-CA*20	Sample	P1-B2	10.0	0.100	200.0	0:0050	l	<0.10	+0:0+		
05242021a_040.d	5.983	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				134.67				
Calculated LOD at 0.045	= ht/pd	20												
Calculated LOQ at 0.10 p	= Jul /go	52												

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 08550 - Flonicamid/Onion - CA18



Responses

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D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05242021\05242021a_027.d
D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05242021\05242021a_017.d
D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05242021\05242021a_009.d
D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05242021\05242021a_040.d
D:\/MassHunter\Flonicamid\08550_Onion\Data\Results\05242021\05242021a_032.d
D:\/MassHunter\Flonicamid\08550_Onion\Data\Results\05242021\05242021a_022.d
D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05242021\05242021a_010.d
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Calibration

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134.67 61.38 52.86 53.41 49.42

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Data File	RT	SampleName	Sample Info	Sample	Vial Pos	(hr)	0	mL Vol	ing Inj	Resp	(bg/hr)	mdd	bhm	% Rec
12021a 001.d	6.832	Condition		Sample	P1-A3	10.0								
2021a 002.d	7.212	Condition		Sample	P1-A3	10.0								
2021a_003.d	7.212	Condition		Sample	P1-A3	10.0								
2021a_004.d	7.212	Condition		Sample	P1-A3	10.0								
2021a_005.d	7.212	Condition		Sample	P1-A3	10.0								
2021a 006.d	7.212	Condition		Sample	P1-A3	10.0								
2021a 007.d	7.212	Condition		Sample	P1-A3	10.0								
2021a 008.d	7.212	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				26.18				
2021a_009.d	7.212	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				43.50				
2021a_010.d	7.212	687-2M14 0.25 pg/pL		Calibration	Vial 3	10.0				106.62				
12021a_011.d	7.212	687-2M13 0.50 pg/pt		Calibration	Vial 2	10.0				207.33				
12021a_012.d	7.198	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				443.86				
12021a 013.d	1	28225	GA-CA18	Sample	P1-A1	10.01	0.100	10.0	0.1000	-	<0.10	<0.01		
12021a 014.d	[28225	GA-CA18	Sample	P1-A1	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
2021a 015.d	7.212	28225C0.01R3	GA-CA18	Sample	P1-A2	10.0	0.100	10.0	0.1000	42.55	0.1067	0.0107		
12021a 016.d	7.212	28225C0.01R3	GA-CA18	Sample	P1-A2	10.0	0.100	10.0	0.1000	35.00	0.0897	0600.0	0.00982	0%86
12021a 017.d	7.212	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				40.25				
42021a 018.d	7.212	28225C0.10R1	GA-CA18	Sample	P1-A3	10.0	0.100	40.0	0.0250	114.71	0.2700	0.1080		
12021a 019.d	7.212	28225C0.10R1	GA-CA18	Sample	P1-A3	10.0	0.100	40.0	0.0250	102.80	0.2430	0.0972	0.103	103%
12021a 020.d	7.212	28227	GC-CA18	Sample	P1-A4	10.0	0.100	10.01	0.1000	195.00	0.4516	0.0452		
12021a 021.d	7.212	28227	GC-CA18	Sample	P1-A4	10.0	0.100	10.0	0.1000	202.19	0.4678	0.0468	0.046	
12021a 022.d	7.212	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				101.25				
42021a 023.d	7.212	28228	GD-CA18	Sample	P1-A5	10.0	0.100	10.0	0.1000	229.52	0.5296	0.0530		
42021a 024.d	7.212	28228	GD-CA18	Sample	P1-A5	10.0	0.100	10.0	0.1000	241.50	0.5567	0.0557	0.054	
42021a 025.d	7.212	28851	GC-CA*20	Sample	P1-A6	10.0	0.100	10.0	0.1000	51.93	0.1279	0.0128		
12021a 026.d	7.212	28851	GC-CA*20	Sample	P1-A6	10.0	0.100	10.0	0.1000	51.28	0.1265	0.0126	0.013	
12021a 027.d	7.212	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				40.28				
12021a 028.d	7.212	28852	GD-CA*20	Sample	P1-A7	10.0	0.100	10.0	0.1000	80.91	0.1935	0.0194		
f2021a 029.d	7.212	28852	GD-CA*20	Sample	P1-A7	10.0	0.100	10.0	0.1000	87.69	0.2088	0.0209	0.020	
12021a 030.d	1	28227 (Flonicamid)	6C-CA18	Sample	P1-A8	10.0	0.100	200.0	0:0050	T	<0.10	+0.01		
12021a 031.d	1	28227 (Flonicamid)	GC-CA18	Sample	P1-A8	10.0	0.100	200.0	0:0050		40.10	+0:0+		
42021a 032.d	7.212	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				102.10				
42021a 033.d	I	28228 (Flonicamid)	GD-CA18	Sample	PI-A9	10.0	0.100	200.0	0:0050		<0.10	+0.0+		
12021a 034.d		28228 (Flonicamid)	GD-CA18	Sample	64-14	10.0	0.100	200.0	0:0050		€0:10	+0:0+		
42021a 035.d	1	28851 (Flonicamid)	6C-CA*20	Sample	P1-B1	10.0F	0.100	200.0	0:0050	1	+0.10	+0.0+		
42021a_036.d	1	28851 (Flonicamid)	6C-CA*20	Sample	P1-B1	10.0	0.100	200.0	0:0050	1	<0.10	+0:0+		
42021a 037.d	7.212	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				39.38				
42021a_038.d	1	28852 (Flonicamid)	GD-CA*20	Sample	P1-B2	10.0	0.100	200.0	0:0050	l	-0.10	€0:01		
42021a_039.d	1	28852 (Flonicamid)	6D-CA*20	Sample	P1-82	10.0	0.100	200.0	0:0050	1	<0:10	€0.01		
42021a_040.d	7.225	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				102.44				
lated LOD at 0.045 c	= Th/bc	15												

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5/25/2021 by ASM Extra WA404 Compound Injection Date Flonicamid 5/25/2021 08550 - Flonicamid/Onton - Picture

Data File Rt Sample F1A3 L00 g muto in the integration Rt Sample F1A3 L00 g muto integration Rt Sample F1A3 L00 Rt Rt Sample F1A3 L00 Rt					Sample		Inj Vol		1001	int Ini	Docn	Conc	a maa	we nom	% Rec
GS250214_0014 7735 Condition Sample P1-A3 100 GS250214_0024 7721 Condition Sample P1-A3 100 GS250214_0054 7721 Gondition Sample P1-A3 100 GS250214_0054 7721 GS7-M15 0.10 pplut Condition Sample P1-A3 100 GS250214_0054 7721 GS7-M15 0.10 pplut Calibration Val 4 100 1100 1132.24 GS250214_0114 7721 GS7-M15 0.10 pplut Calibration Val 4 100 1100 1132.24 GS250214_0114 7721 GS7-M15 0.10 pplut Calibration Val 4 100 1100 1132.24 GS250214_0124 7721 GS65(010 GS4-M4-03 Sample P1-A	Data File	RT	SampleName	Sample Info	Type	Vial Pos	(hr)	6	mL voi	fur fiu	deau	1-14/1641			
GistSi2Dia 7721 Condition Sample P1-A3 100 GistSi2Dia 7721 Condition Sample P1-A3 100 GistSi2Dia 0054 7721 Condition Sample P1-A3 100 GistSi2Dia 0054 7721 Condition Sample P1-A3 100 GistSi2Dia 0054 7721 Gondition Sample P1-A3 100 GistSi2Dia 0054 7721 GistPint Loba Sample P1-A3 100 GistSi2Dia 014 7721 GistPint Loba Sample P1-A3 100 GistSi2Dia 014 7721 GistPint Loba Calibration Val 100 1134 GistSi2Dia 014 7721 GistPint Loba Sample P1-A1 100 1000 1134 GistSi2Dia 014 7721 GistPint Loba Sample P1-A1 100 1000 1000 1134 GistSi2Dia 014 0110 <td>5252021a 001.d</td> <td>7.735</td> <td>Condition</td> <td></td> <td>Sample</td> <td>P1-A3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	5252021a 001.d	7.735	Condition		Sample	P1-A3	10.0								
Gissizable Jond T.ZI Condition Sample P1-A3 100 Gissizable Jond 7.721 Gissizable Jond 7.731 Gissizable Jond 7.731 Gissizable Jond 7.731 Gissizable Michano Vail A 100 100 Gissizable Jond 7.731 Gissizable Michano Vail A 100 100 118.24 Gissizable Jond 7.771 Gissizable Michano Vail A 100 100 100 118.24 Gissizable Jond 7.771 Gissizable Michano Vail A 100 100 100 100 100 100 100 100 118.24 Gissizable Jond 7.771 Gissizable Michano Vail A 100 100 100 100 100 100	15252021a 002.d	7.721	Condition		Sample	P1-A3	10.0								
G5320214 7.721 Condition Sample F1-A3 100 05520214 7.721 Condition Sample F1-A3 100 05520214 7.721 Condition Sample F1-A3 100 05520214 0.721 Condition Sample F1-A3 100 05520214_005d 7.721 667-2415 0.05 gylu Sample F1-A3 100 05520214_001d 7.731 667-2415 0.05 gylu Calibration Val 3 100 05520214_011d 7.731 667-2415 0.05 gylu Calibration Val 3 100 100 055520214_011d 7.731 667-2415 0.05 gylu Calibration Val 3 100 100 100 05550214_014d 7.711 687-2415 0.05 gylu Calibration Val 3 100 0.100 7.13 05550214_014d 7.721 687-2415 0.10 gylu Sample F1-A1 100 0.100 100 100 100 100 100 100 100 100 100	15252021a 003.d	I	Condition		Sample	P1-A3	10.0								
Gissionia 0054 7721 Condition Sample F1-A3 100 05520021a_0004 7721 687-2411 0.05 pg(L Sample F1-A3 100 05520021a_0004 7721 687-2411 0.05 pg(L Sample F1-A3 100 05520021a_0004 7723 687-2411 0.05 pg(L Calibration Val 1 100 110 05552021a_0104 7721 687-2411 0.05 pg(L Calibration Val 1 100 1100 05552021a_01134 7721 687-2411 0.05 pg(L Calibration Val 1 100 100 100 05552021a_0134 7721 687-2411 0.05 pg(L Calibration Val 1 100 100 100 0555021a_0134 7721 687-2411 0.05 pg(L DB4-WA-403 Sample F1-A1 100 0100 0100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 1000 100 100	15252021a 004.d	7.721	Condition		Sample	P1-A3	10.0								
5532021a_006d 7721 Condition Sample P1-A3 100 5532021a_003d 7723 687-2M15 0.05 pglut Condition Val3 100 5532021a_003d 7735 687-2M15 0.05 pglut Calibration Val3 100 5532021a_013d 7.735 687-2M14 0.25 pglut Calibration Val3 100 5552021a_013d 7.731 687-2M14 0.25 pglut Calibration Val3 100 7.134 5552021a_013d 7.721 687-2M14 0.25 pglut Calibration Val3 100 100 1000 5552021a_013d 7.721 687-2M15 0.10 pglut Calibration Val3 100 100 1000 5552021a_013d 7.721 687-2M15 0.10 pglut Sample P1-A1 100 0.100 1000	15252021a 005.d	7.721	Condition		Sample	P1-A3	10.0								
6552021a_007d 7721 Condition Sample P1-A3 100 1687 0552021a_003d 7.735 687-2M15 0.005 gp(L Calibration Vial 5 100 3313 0552021a_010d 7.735 687-2M15 0.005 gp(L Calibration Vial 5 100 3313 0552021a_010d 7.735 687-2M15 0.10 gp(L Calibration Vial 7 100 100 100 0552021a_013d 7.721 687-2M12 10 gp(L Calibration Vial 7 100 0.100 1010	15252021a 006.d	7.721	Condition		Sample	P1-A3	10.0								
0532021a_008d 7721 667-2M16 0.05 Fg/Lt Calibration Vial 5 10.0 11.68 0532021a_001d 7.735 667-2M16 0.05 Fg/Lt Calibration Vial 3 10.0 71.34 0532021a_001d 7.731 667-2M13 0.50 Fg/Lt Calibration Vial 3 10.0 11.00 11.83 0532021a_013d 7.721 687-2M13 0.50 Fg/Lt Calibration Vial 3 10.0 10.0 0.1000 11.83 0532021a_013d 7.721 687-2M13 0.50 Fg/Lt Calibration Vial 3 10.0 0.1000 0.1000 11.83 0532021a_013d 7.721 687-2M15 0.10 Fg/Lt Calibration Vial 3 10.0 0.1000 0.1000 10.00 0.1000 10.00 0.1000 25.43 0532021a_013d 7.721 58861C0.0183 D64-Wt+03 Sample F1-A1 10.0 0.1000 0.1000 21.45 20.00 25.45 0532021a_013d 7.721 58861C0.0183 D64-Wt+03 Sample F1-A1 10.0 0.1000 <	15252021a 007.d	7.721	Condition		Sample	P1-A3	10.0				197				
0532021a_009d 7.735 687-2M15 0.10 pg/lt Calibration Val 4 10.0 3.313 05325021a_011d 7.721 687-2M13 0.55 pg/lt Calibration Val 3 10.0 10.0 10.0 05325021a_011d 7.721 687-2M13 0.55 pg/lt Calibration Val 1 10.0 0.1000 10.0 0.1000 138.14 05325021a_013d 28861 DBA-WA+03 Sample P1-A1 10.0 0.1000 0.1000 202.65 05352021a_013d 28861 DBA-WA+03 Sample P1-A2 10.0 0.1000 0.1000 20.66 05352021a_013d 28861 DBA-WA+03 Sample P1-A2 10.0 0.1000 0.1000 20.00 20.66 05352021a_012d 7.721 8861C001R3 DBA-WA+03 Sample P1-A3 10.0 0.100 0.1000 20.00 20.66 05352021a_012d 7.721 28861C001R3 DBA-WA+03 Sample P1-A3 10.0 <td>)5252021a 008.d</td> <td>7.721</td> <td>687-2M16 0.05 pg/µL</td> <td></td> <td>Calibration</td> <td>Vial 5</td> <td>10.0</td> <td></td> <td></td> <td></td> <td>16.82</td> <td></td> <td></td> <td></td> <td></td>)5252021a 008.d	7.721	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				16.82				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	15252021a 009.d	7.735	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				33.13				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	010.412021a 010.4	7.735	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				71.34				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	75252021a 011.d	7.721	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				138.24				
05252021a_013.d 28861 DBA-WA+03 Sample P1-A1 10.0 0.100 0.100 05252021a_016.d 28861 DBA-WA+03 Sample P1-A1 10.0 0.100 0.100 0.100 05252021a_016.d 2885 DBA-WA+03 Sample P1-A2 10.0 0.100 0.100 0.100 0.100 0.100 05252021a_018.d 7.721 28861C0.01R3 DBA-WA+03 Sample P1-A3 10.0 0.100 0.100 2.000 2.552 05252021a_0214.d 7.721 28861C0.01R3 DBA-WA+03 Sample P1-A3 10.0 0.100 0.100 2.523 05252021a_022.d 7.721 28861C0.01R3 DBA-WA+03 Sample P1-A4 10.0 0.100 0.100 2.523 05252021a_022.d 7.721 28861C0.01R3 DBA-WA+03 Sample P1-A4 10.0 0.100 0.100 2.523 05252021a_022.d 7.721	15252021a 012.d	7.721	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				302.63				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	15752021a 013.d	1	28861	DBA-WA*403	Sample	P1-A1	10.0	0.100	10.0	0.1000		<0.10	<0.01	1.1	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	01270711 = 114 d		28861	DBA-WA*403	Sample	P1-A1	10.0	0.100	10.0	0.1000	l	<0.10	<0.01	<0.01	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	D.1 10 21000000		28654	DBA-WA404	Sample	P1-A2	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	D.CTU_BIZUZUZU		28654	DBA-WA404	Sample	P1-A2	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	P 210 -1002000	107 1	687-2M15 0.10 po/ul		Calibration	Vial 4	10.0				28.40				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	P 010 -1002220	101.1	28861CD 0183	DBA-WA*403	Sample	P1-A3	10.0	0.100	10.0	0.1000	27.45	0.0962	0.0096		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	P.010_PIZ02520	12/-1	2886100 0103	DBA-WA*403	Sample	P1-A3	10.0	0.100	10.0	0.1000	25.92	0.0911	0.0091	0.00937	94%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	n.610_b12026260	17/1	2000100100	DBA-WA*403	Sample	P1-A4	10.0	0.100	400.0	0.0025	78.83	0.2678	1.0712		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	052520213_020.0	17/1		DRA-WA*403	Samue	D1-44	10.0	0.100	400.0	0.0025	76.37	0.2596	1.0384	1.05	105%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_021.d	7.735	28861C1.0K3			CITA	0.01				79.98				
05252021a_023.d 28863 DBC-WA*403 Sample P1-A5 10.0 0.100 0.00 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 0.100 27.38 05552021a_025.d 7.721 28864 DBD-WA*403 Sample P1-A6 10.0 0.100 10.0 0.100 27.98 05552021a_025.d 7.721 28864 DBD-WA*403 Sample P1-A6 10.0 0.100 10.0 0.1000 25.79 05552021a_028.d 7.735 687-2M15 0.10 pg/µL 28856 DBC-WA404 Sample P1-A7 10.0 0.100 10.0 0.1000 25.92 05552021a_029.d 7.721 28656 DBC-WA404 Sample P1-A7 10.0 0.100 10.0 0.1000 25.92 05552021a_03.d 7.721 28657 DBC-WA404 Sample P1-A7 10.0 0.100 10.0	05252021a_022.d	7.721	687-2M14 0.25 pg/pL		Calibration	CIPIA	0.01	0010	0.01	00010		-n 10	<0.01		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_023.d		28863	DBC-WA*403	Sample	CA-IY	0.01	00T-0	0.01	0001.0		~010	10.02	<0.01	
05252021a_025.d 7.721 28864 DBD-Wx*403 Sample P1-A6 10.0 0.100 10.0 0.100 2.000 2.573 05552021a_026.d 7.721 28864 DBD-Wx*403 Sample P1-A6 10.0 0.100 10.0 0.100 2.573 05552021a_028.d 7.735 687-2M15 0.10 pg/µL Calibration Vial 4 10.0 0.100 10.0 0.1000 25.73 05552021a_029.d 7.735 687-2M15 0.10 pg/µL Calibration Vial 4 10.0 0.100 10.0 0.1000 25.73 05552021a_029.d 7.721 28656 DBC-WA404 Sample P1-A7 10.0 0.100 10.0 0.100 31.13 05552021a_030.d 7.721 28657 DBD-WA404 Sample P1-A7 10.0 0.100 10.0 0.100 31.19 05552021a_031.d 7.721 28657 DBD-WA404 Sample P1-A7 10.0 0.100 10.0 0.100 31.10 05255021a_031.d	05252021a_024.d	1	28863	DBC-WA*403	Sample	CA-IN	10.0	001.0	0.01	0001.0	00 22	-0 10	10.07		
05252021a_026.d 7.721 28864 DBD-WA*403 Sample P1-A6 10.0 0.100 10.0 0.1000 25.92 05525021a_027.d 7.735 687-2M15 0.10 pg/µL Calibration Vial 4 10.0 0.100 10.0 0.1000 25.92 05552021a_029.d 7.735 687-2M15 0.10 pg/µL Calibration Vial 4 10.0 0.100 10.0 0.1000 31.34 05552021a_029.d 7.721 28656 DBC-WA404 Sample P1-A7 10.0 0.100 10.0 0.1000 31.49 05252021a_030.d 7.721 28657 DBD-WA404 Sample P1-A7 10.0 0.100 10.0 0.1000 31.49 05252021a_031.d 7.721 28657 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 31.49 05252021a_031.d 7.735 687-2M14 0.25 pg/µL Zalibration Vial 3 10.0 0.100 10.0 0.1000 33.41 05252021a_032.d 7.735 <td>05252021a_025.d</td> <td>7.721</td> <td>28864</td> <td>DBD-WA*403</td> <td>Sample</td> <td>P1-A6</td> <td>10.0</td> <td>0.100</td> <td>10.0</td> <td>0001.0</td> <td>06.12</td> <td>01.01</td> <td>10.01</td> <td>10.01</td> <td></td>	05252021a_025.d	7.721	28864	DBD-WA*403	Sample	P1-A6	10.0	0.100	10.0	0001.0	06.12	01.01	10.01	10.01	
05252021a_027.d 7.735 687-2M15 0.10 pg/µL Calibration Vial 4 10.0 25.92 05252021a_028.d 7.735 687-2M15 0.10 pg/µL Calibration Vial 4 10.0 0.1000 31.34 05252021a_029.d 7.721 28656 DBC-WA404 Sample P1-A7 10.0 0.1000 10.0 31.34 05252021a_029.d 7.721 28656 DBC-WA404 Sample P1-A7 10.0 0.1000 31.49 05252021a_030.d 7.721 28657 DBD-WA404 Sample P1-A8 10.0 0.1000 10.0 0.1000 23.41 05252021a_031.d 28657 DBD-WA404 Sample P1-A8 10.0 0.1000 10.0 0.1000 23.41 05252021a_031.d 28657 DBD-WA404 Sample P1-A8 10.0 0.1000 10.0 0.1000 23.41 05252021a_032.d 7.735 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 0.1000 10.00 0	05252021a_026.d	7.721	28864	DBD-WA*403	Sample	P1-A6	10.0	0.100	10.0	0.1000	1/.02	NT'N>	10.02	10.02	
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05252021a 0.100 1.721 28657 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 23.41 05252021a 031.d 28657 DBD-WA404 Sample P1-A8 10.0 0.100 0.1000 23.41 05252021a 031.d 28657 DBD-WA404 Sample P1-A8 10.0 0.100 0.1000 05252021a 031.d 28657 DBD-WA404 Sample P1-A8 10.0 0.1000 0.1000 05252021a 032.d 7.735 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 0.100 0.1000 69.82 Calculated LOD at 0.0 pg/µL = 12 29 29 29 29 20 20 20 20 20 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 </td <td>05752021a 029.d</td> <td>7.721</td> <td>28656</td> <td>DBC-WA404</td> <td>Sample</td> <td>P1-A7</td> <td>10.0</td> <td>0.100</td> <td>10.0</td> <td>0.1000</td> <td>31.19</td> <td>0.1087</td> <td>6010'0</td> <td>110.0</td> <td></td>	05752021a 029.d	7.721	28656	DBC-WA404	Sample	P1-A7	10.0	0.100	10.0	0.1000	31.19	0.1087	6010'0	110.0	
05252021a_031.d	05752021a 030 d	1.77.7	28657	DBD-WA404	Sample	P1-A8	10.0	0.100	10.0	0.1000	23.41	<0.10	<0.01	10.00	
002220213_022.d 7.735 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 69.82 calculated LOD at 0.045 pg/µL = 12 calculated LOQ at 0.10 pg/µL = 29	05252021a 031.d		28657	DBD-WA404	Sample	P1-A8	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01	
Calculated LOD at 0.045 pg/µL = 12 Calculated LOD at 0.10 pg/µL = 29	05252021a 032.d	7.735	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				69.82				
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	Calculated LOO at 0.10 pc	a/nr =	29												
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IR-4 Western Region Laboratory, University of California, Davis



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Compound Injection Date TFNA-AM 5/25/2021 08550 - Flonicamid/Onion - Field Samples WA*403, WA404 - Extracted 5/25/2021 by ASM

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GSZ0213_011 538 Contine Sample F1-A3 100 GSZ0213_0044 5.11 Contine Sample F1-A3 100 GSZ0213_0044 5.11 Contine Sample F1-A3 100 GSZ0213_0045 5.11 Contine Sample F1-A3 100 GSZ0213_0046 5.21 Contine Sample F1-A3 100 GSZ0213_0046 5.21 Contine Sample F1-A3 100 GSZ0213_0046 5.21 Contine Sample F1-A3 100 GSZ0213_0145 5.21 Contine Sample F1-A3 100 GSZ0213_0145 5.21 GOMUN Sample F1-A3 100 GSZ0213_0145 5.21 GOMUN Sample F1-A1 100 107.83 GSZ0213_0145 5.21 GOMUN Sample F1-A1 100 100 101 GSZ011_0145 5.21 GOMUN Sample F1-A1 100 101 <t< th=""><th>Data File</th><th>RT</th><th>SampleName</th><th>Sample Info</th><th>Type \</th><th>fial Pos</th><th>(hr)</th><th>6</th><th>IL Vol</th><th>ing Inj</th><th>Resp</th><th>(ht/bd)</th><th>bpm A</th><th>uidd an</th><th>NO NOC</th></t<>	Data File	RT	SampleName	Sample Info	Type \	fial Pos	(hr)	6	IL Vol	ing Inj	Resp	(ht/bd)	bpm A	uidd an	NO NOC
GSSRB12,013 511 Contion Sample P,143 100 GSSRD12,0054 5311 Contion Sample P,143 100 GSSRD12,0054 5311 Contion Sample P,143 100 GSSRD12,0064 5311 Contion Sample P,143 100 GSSRD12,0064 5311 Gervine Sample P,143 100 GSSRD12,0064 5311 Gervine Sample P,143 100 GSSRD12,0064 5311 Gervine Sample P,143 100 11738 GSSRD12,0104 5311 G87-2M15.50.0pll Contion M12 100 100 11138 GSSRD12,0124 5311 G87-2M15.50.0pll Contion M12 100 100 100 100 100 GSSRD12,0124 5311 G87-2M16.55.pll Contion Sample P+14 100 100 100 100 100 100 100 100 100 100 100	001.d	5.352	Condition		Sample	P1-A3	10.0								
632302.001 5311 Condin Sample P-1A 100 632302.003.006 5314 Condin Sample P-1A 100 632302.003.006 5314 Condin Sample P-1A 100 632302.003.006 5314 Condin Sample P-1A 100 632302.004 5314 Ge7/MIG Sample P-1A 100 632302.004 5314 Ge7/MIG Sample P-1A 100 632302.0011 5314 Ge7/MIG Sample P-1A 100 2555 632302.011 5311 Ge7/MIG Sample P-1A 100 100 100 100 632302.01 531 Ge7/MIG Sample P-1A 100 <	05252021a 002 d	5.311	Condition		Sample	P1-A3	10.0								
CS22012.006 S11 Condino Smalle F1-3 100 CS22012.0064 S31 G87-2M16.05 gpld F1-3 100 CS22012.0014 S31 G87-2M16.05 gpld Calmenton Wall 100 CS22012.0114 S11 G87-2M16.05 gpld Calmenton Wall 100 S555 CS22012.0114 S11 G87-2M16.05 gpld Calmenton Wall 100 S555 CS22012.0114 S11 G87-7M16.01 gpld Calmenton Wall 100 S555 CS22012.0114 S11 G87-7M16.01 gpld Smalle F1-41 10.0 D100 D10 <	012020202020000 d	5 311	Condition		Sample	P1-A3	10.0								
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Customent Sample F1-A3 100 65.13 Current 65.13 C532013_0004 5.33 667-MHG 056 yill Calibration Val 3 100 65.13 Condition 55.34 Condition 55.34 Condition 55.31 667-MHG 056 yill Calibration Val 3 100 25.55 657-MHG 056 yill Condition 235.65 660.17 235.65 660.17 235.65 600.17 235.65 600.17 200.12	P'LOO PIZOZCZCO	110.0	Condition		Sample	P1-A3	10.0								
CSZ2021a Old S334 Genzine S14 Condition S13	D.CUU_B12026260	TTC'C	Condition		Sample	P1-A3	10.0								
C0252021a C001 S311 C002001 C0010 C0010 <thc0010< th=""> <thc00< td=""><td>05252021a_006.d</td><td>5.324</td><td></td><td></td><td>olame</td><td>D1-12</td><td>10.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thc00<></thc0010<>	05252021a_006.d	5.324			olame	D1-12	10.0								
Constration 637-344 667-7-MIG 505-90/L Collipation Val 100 2005 107-36 505-50 05522011a 5311 667-2M14 0.056 90/L Collibration Val 100 505-50 667-2M12 0.059 90/L 600.1	05252021a_007.d	5.311	Condition		alunbe	CK-TL	0.01				65.19				
G323071a G374 G872M15 0.0 pdl 5.34 G872M15 0.0 pdl 311 G00.17 3555 G3220071a 5.311 667-2M13 0.05 pglL Callbration Mai 100 3555 600.17 3555 G3252071a 5.311 667-2M13 0.05 pglL Callbration Mai 100 2550 600.17 600.17 600.17 G3252071a 5.311 667-2M13 0.05 pglL 2861 D84-WA403 Sample P1-41 100 0.100 0.100 0.010 600.17 G3252071a 5.311 667-2M13 0.10 pglL Sample P1-41 100 0.100 0.100 0.010 0.01 600.17 600.17 G325071a 5.311 567-M14 0.3 Sample P1-43 100 0.100 0.100 0.010 0.01	05252021a_008.d	5.324	687-2M16 0.05 pg/µL		Calibration	c IBIV	10.01				107 88				
05323021a 010 60.17 60.17 05323021a 5311 687-2M13 10.590µL 5011 60.17 60.17 05323021a 5311 687-2M13 10.500µL 5881 D8A-WA+03 58m1 P1-41 100 1203.58 05323021a 0136 531 687-2M13 10.50µL D8A-WA+03 58m16 P1-41 100 0.100 0.100 0.010	05252021a_009.d	5.324	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				201 6E				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a 010.d	5.311	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				C0.007				
OSS2001a 5.397 667-2M12.10.pg/L Collection Val 1.00 1.00 1.00 1.00 0.00 <th< td=""><td>05252021a 011.d</td><td>5.311</td><td>687-2M13 0.50 pg/µL</td><td></td><td>Calibration</td><td>Vial 2</td><td>10.0</td><td></td><td></td><td></td><td>/T-009</td><td></td><td></td><td></td><td></td></th<>	05252021a 011.d	5.311	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				/T-009				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05757011 017 d	797 2	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				1203.58				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.210 ELCOCACAC		28861	DBA-WA*403	Sample	P1-A1	10.0	0.100	10.0	0.1000	l	<0.10	10.0>		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	P FFO = FCOCJCJO		78861	DBA-WA*403	Sample	P1-A1	10.0	0.100	10.0	0.1000	l	<0.10	<0.01	T0.U>	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	n'+10_612026260		1966	DBA-WA404	Sample	P1-A2	10.0	0.100	10.0	0.1000		<0.10	<0.01		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_015.d	l	F002	DRA-WA404	Sample	P1-A7	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01	
0552001a_017d 5.334 687-3015 0.0091 0444-03 Sample 1-4.3 1.00 0.100 106.47 0.0915 0.0091 9.092 0.00915 9.0091 9.095 9.0951 0.00915 0.0010 0.01	05252021a_016.d	I	+c007		-tit-tit-	V I-IN	10.01				116.19				
65252021a_018.d 5.311 288610.0183 DBA.WA*403 Sample Sample 5.324 F1-A3 10.0 0.100 10.0 0.100 10.0 0.0001 65.74 0.0917 0.0092 0.0917 0.0092 0.0917 0.0091 0.0917 0.0091 0.0917 0.0091 0.0917 0.0091 0.0917 0.0091 0.0917 0.0091 0.0917 0.0091 0.0917 0.0091 0.0917 0.0091 0.0917 0.0091 0.0917 0.0091 0.0917 0.0091 0.0917 0.0091 0.0917 0.0091 0.0917 0.0091 0.0917 0.0091 0.0091 0.0091 0.0091 0.0091 0.0917 0.0091 0.0917 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0109 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0091 0.0010 0.0010	05252021a_017.d	5.324	687-2M15 0.10 pg/µL		Calibration	Vidi 4	0.01	001 0	0.01	01001	106.47	0.0915	0.0091		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a 018.d	5.311	28861C0.01R3	DBA-WA*403	Sample	FA-IN	10.0	007.0	10.U	0001.0	AF 201	F100 0	0 000	0 00916	92%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05757071a 019 d	5.311	28861C0.01R3	DBA-WA*403	Sample	P1-A3	10.0	0.100	10.0	0001.0	1/10/14	ATED.D	20000	0.10000	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		5 374	28861C1.0R3	DBA-WA*403	Sample	P1-A4	10.0	0.100	400.0	0.0025	314.76	0.2639	1.025		.010.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	P-100 -12002220	VCC 1	2861C1 0R3	DBA-WA*403	Sample	P1-A4	10.0	0.100	400.0	0.0025	309.67	0.2597	1.0387	1.05	0% CDT
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.120_612026260	120.0			Calibration	Vial 3	10.0				298.80				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_022.d	5.311	11/6d 67:0 +TWZ-/89	DBC-MA*403	Camelo	D1-45	10.01	0.100	10.0	0.1000	-	<0.10	<0.01		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_023.d	-	78863	201 AV 202	Jampa	DI AC	0.01	0 100	10.01	0.1000	-	<0.10	<0.01	<0.01	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_024.d		28863	DBC-WA 403	alquinc	CATT	0.01	0 100	10.0	0.1000	1	<0.10	<0.01		
05252021a_026.d 28864 DBD-WAT-4U3 Sample P1-A6 LU0 0.100 112.62 05552021a_027.d 5.324 687-2M15 0.10 pg/uL Callbration Vial 10.0 0.100 112.62 05552021a_028.d 28556 DBC-WA404 Sample P1-A7 10.0 0.1000 <0.01	05252021a_025.d		28864	DBU-WA*403	sample	DA-17	0.01	00100	10.01	0 1000		<0.10	<0.01	<0.01	
05252021a_027.d 5.324 687-2M15 0.10 pg/µL Calibration Val 4 10.0 05252021a_028.d 28656 DBC-WA404 Sample P1-A7 10.0 0.1000 <0.01	05252021a_026.d		28864	DBD-WA*403	sample	OF-IN	10.01	not'n	10.01		112 62				
05252021a_028.d 28656 DBC-WA404 Sample P1-A7 10.0 0.100 0.000 0.01 0.01 0.01 0.0	05252021a_027.d	5.324	687-2M15 0.10 pg/µL		Calibration	Vial 4	TUL	1.144		0001 0		~0 1U	<0.01		
05552021a_029.d 28656 DBC-WA404 Sample P1-A7 10.0 0.100 0.100 0.1000 0.10 0.01 05552021a_030.d 28657 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 0.10 0.01 05552021a_031.d 28657 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 0.10 -0.01 05552021a_031.d 28557 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 0.10 -0.01 05552021a_031.d 28557 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 0.10 -0.01 05552021a_031.d 28557 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 0.10 -0.01 05552021a_031.d 28557 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 0.10 -0.01 05552021a_031.d 28557 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 0.10 -0.01 05552021a_031.d 28557 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 0.10 -0.01 05552021a_031.d 28557 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 0.10 -0.01 05552021a_031.d 28557 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 0.10 -0.01 0555021a_031.d 28557 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 0.10 -0.01 05550210 0.100 0.100 0.10 -0.01 0510 0.10 0.100 0.100 0.01 0510 0.10 0.100 0.10 -0.01 0510 0.10 0.10 0.10 0.01 0510 0.01 05	05252021a 028.d	1	28656	DBC-WA404	Sample	P1-A7	10.0	0.100	10.0	0001 0		0107	10.07	<0.01	
05252021a_030.d 28657 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 <0.10 <0.01 05552021a_030.d 28657 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 <0.10 <0.01 05552021a_032.d 5.311 687-2M14.0.25 pg/µL Calibration Vial 3 10.0 0.100 10.0 0.1000 <0.10 <0.01 <0.01 Calculated LOD at 0.045 pg/µL = 117 Calculated LOD at 0.10 pg/µL = 117	05752021a 020 d		28656	DBC-WA404	Sample	P1-A7	10.0	0.100	10.0	0.1000		01.02	10.0		
05252021a_001.0 0.1000 28657 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 <0.10 <0.01 <0.01 0.0555021a_031.4 0.25 pg/µL Calibration Vial 3 10.0 0.100 10.0 314.58 Calculated LOD at 0.045 pg/µL = 50 Calculated LOD at 0.045 pg/µL = 117	020 e1002200]	28657	DBD-WA404	Sample	P1-A8	10.0	0.100	10.0	0.1000		<0.10	10.0>	100	
05252021a_032.d 5.311 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 314.58 05252021a_032.d 5.311 687-2M14 0.25 pg/µL = 50 Calculated LOD at 0.045 pg/µL = 117 Calculated LOD at 0.10 pg/µL = 117	P 100 - 1001010		28657	DBD-WA404	Sample	P1-A8	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	IN'N>	
0.2220212_02.42 Calculated LOD at 0.045 pg/µL = 50 Calculated LOD at 0.10 pg/µL = 117 = 1177	0.150_BI2026260	5 311	687-2M14 0.25 pg/uL		Calibration	Vial 3	10.0				314.58				
Calculated LOD at 0.045 pg/µL = 50 Calculated LOQ at 0.10 pg/µL = 117 " " decenter events on below area threehold	n.200 BT 2020200														
Calculated LOQ at 0.10 pg/µL = 117	Calculated LOD at 0.	045 pg/pL =	nc												
II I decenter connerce heliuw area threshold	Calculated LOQ at 0.	10 pg/µL =	117												
	" " denotes respon	see helow area	a threshold												

Calibration

D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05252021\05252021a_008.d

Printed at: 9:02 AM on: 5/26/2021



IR-4 Western Region Laboratory, University of California, Davis

les WA*403, WA404 - Extracted 5/25/2021 by ASM Compound Injection Date TFNA 5/25/2021 08550 - Flonicamid/Onion - Field 5

Date R: Sampelane					andimoc		in fut			int fai	Docu	(Indian)	A maa	ve pom	% Rec
Condition Sample separation F+13 (10) 100 (10) F+13 (10) 100 (10) SESTRIAL 0014 5880 Condition (10) Sample separation F+13 (10) 100 SESTRIAL 0014 5880 Condition (10) Sample separation F+13 (10) 100 SESTRIAL 0014 5880 Condition (10) Sample separation F+13 (10) 100 SESTRIAL 0014 5890 667-7014 Sample separation F+13 (10) 100 SESTRIAL 0014 5890 667-7014 Sample separation F+13 (10) 100 100 SESTRIAL 0014 5890 667-7014 Sample separation F+13 (10) 100 100 100 SESTRIAL 0114 5890 667-7014 Sample separation F+14 100 100 100 100 SESTRIAL 0114 5890 667-7014 Sample separation F+14 100 100 100 100 SESTRIAL 0114 5890 667-7014 Sample separation F+14 100 100 100	Data File	RT	SampleName	Sample Info	Type \	/ial Pos	(hr)	D	INT VOI	fur fuu	deav				
STATULE SEG Condime Fava 100 STATULE OUL SEG SEG Condime Sample F1-3 100 STATULE OUL SEG SEG SCTANILS OUL SEG Seg SCTANILS OUL SEG Sample F1-3 100 STATULE OUL SEG Seg SCTANILS OUL SEG Sample F1-3 100 T1-3 100 STATULE OUL SEG Seg SCTANILS OUL SEG Sample F1-4 100	C7071a 001 d	6.010	Condition		Sample	P1-A3	10.0								
STATIAL DUIL Send P1-33 DID STATIAL DUIL 583 Condition Sample P1-33 DID STATIAL DUIL 590 687-2015 DID Sample P1-34 DID STATIAL DUIL 590 687-2015 DID Sample P1-31 DID STATIAL DUIL 590 687-2015 DID Valit 2 DID Zample STATIAL DUIL 590 687-2015 DID Valit 2 DID Zample STATIAL DUIL 590 687-2015 DID Valit 2 DID Zample P1-31 DID Zample STATIAL DUIL 590 687-2015 DID DM-44403 Sample P1-31 DID DID DID DID DID DID DID DID DID		5 983	Condition		Sample	P1-A3	10.0								
STATIAL JOUND Sample F1-33 100 STATIAL JOUND 593 Condinon Sample F1-33 100 STATIAL JOUND 593 Condinon Sample F1-33 100 STATIAL JOUND 596 G87-2M15 L0 FG Sample F1-33 100 STATIAL JOUND 596 G87-2M15 L0 FG Sample F1-33 100 STATIAL JOUND 596 687-2M15 L0 FG Sample F1-33 100 STATIAL JOUND 596 687-2M15 L0 FG Sample F1-31 100 STATIAL JOUND 596 687-2M15 L0 FG Sample F1-31 100 24.89 STATIAL JOND 596 687-2M15 L0 FG Sample F1-31 100 21.86 0.00 0.01	P-200 - FC0222	E 002	Condition		Sample	P1-A3	10.0								
S2532013_004 593 Condition Simple F-3 100 S2532013_004 593 Condition Simple F-3 100 S2532013_004 593 667-2M15 0.05 g)ill Simple F-3 100 S2532013_004 599 667-2M15 0.05 g)ill Condition Val 100 S2532013_004 599 667-2M15 0.05 g)ill Condition Val 100 S2532013_0104 599 667-2M13 0.55 g)ill Condition Val 100 1155.53 S2532013_0104 596 667-2M13 0.57 g)ill Condition Val 100 0.100 1155.53 S2532013_0104 595 667-2M13 0.57 g)ill Condition Val 100 0.100 1155.53 S2532013_0104 595 667-2M13 0.57 g)ill Condition Same Fra 2010 2011 S2532013_0104 596 677-2M13 0.57 g)ill Condition Val 100 0.100 1100 0.100 1101 0.101 0.101 0.10	D.CUU_BL2U2220	000.0			Samula	P1-A3	10.0								
SIZTORIAL LOGG Seal Condition Sample FT-A Log SIZTORIAL LOGG 598 Condition Sample FT-A 100 24.88 SIZTORIAL LOGG 599 687-2M15 LO Siguit Sample FT-A 100 SIZTORIAL LOGG 599 687-2M15 LO Siguit Condition Wall 100 SIZTORIAL LOGG 599 687-2M15 LO Siguit Condition Wall 100 SIZTORIAL LOGG 599 687-2M15 LO Siguit Condition Wall 100 SIZTORIAL LOGG 599 687-2M15 LO Siguit Condition Wall 100 SIZTORIAL LO Siguit DRA-WARG Sample FT-A1 100 0.100 0.100 0.011 SIZTORIAL LO Siguit DRA-WARG Sample FT-A1 100 0.100 0.010 0.011 SIZTORIAL LO Siguit DRA-WARG Sample FT-A1 100 0.100 0.010 0.010 0.010 0.010 0.010 0.011 0.011 0.010 0.01)5252021a_004.d	5.983	CONTINUE		Semale	CV 10	10.01								
SYS2012_006 598 Condino Sample F1A3 LUU 548 SYS2012_007 5.99 687-2416.0.05 gglu Condino 581 Condino 589 687-2416.0.5 gglu 580 687-2416.0.5 gglu 581	15252021a_005.d	5.983	Condition		Sample	CH-IT	0.01								
S352011_001 599 Gradion Sample F1-31 100 24,89 S352011_001 599 687-2415.010 giul Calibration Val 100 135.50 46.80 S352011_0104 599 687-2415.010 giul Calibration Val 100 215.50 511.00 24.89 S352011_0104 5995 687-2413.010 giul Calibration Val 100 215.50 213.50 S352011_0104 5995 687-2413.010 giul Calibration Val 100 0.100 0.100 0.10 0.01	15252021a_006.d	5.983	Condition		Sample	PI-A3	10.01								
53520121 0667 6972 66727415.005401 Calibration Val 100 6580 66727413.0104 5560 66727413.0104 5560 66727414.025 pglt 6672411.0 pglt 6630 677241.0 2 mgl 6673 5731.30 573	15252021a 007.d	5.983	Condition		Sample	P1-A3	10.0				00 10				
Sizzolata GB/2011 Calibration Val 100 155.33 Sizzolata GB/2010 Val 100 251.30 251.30 Sizzolata GB/2010 Val 100 251.30 2010 2010 Sizzolata GB/2010 See GB/2010.0001 Calibration Val 100 251.30 2010 2010 2010 2010 2010 2010 2010 2011 <	15252021a 008.d	5.969	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				40.42				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	15252021a 009.d	5.969	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				40.00				
$5525021a_{10}11d$ 5.96 $687-2M13.050$ pp(l. Calibration Val 100 5.343 5.343 6.010	05252021a 010.d	5.969	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				135.00				
5552011a 012 5503 667-2M12.10 pg/u Calibration Vial 1.00 5503 5503 60-10 60.01 <td>15252021a 011.d</td> <td>5.956</td> <td>687-2M13 0.50 pg/µL</td> <td></td> <td>Calibration</td> <td>Vial 2</td> <td>10.0</td> <td></td> <td></td> <td></td> <td>05.162</td> <td></td> <td></td> <td></td> <td></td>	15252021a 011.d	5.956	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				05.162				
Discription	05252021a 012.d	5.942	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				56.826		10.01		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	013.d	1	28861	DBA-WA*403	Sample	P1-A1	10.0	0.100	10.0	0.001		01.02	10.07	1004	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	014 d		28861	DBA-WA*403	Sample	P1-A1	10.0	0.100	10.0	0.1000		01.0>	10.02	10:04	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	P IL TO FILOCICIO		28654	DBA-WA404	Sample	P1-A2	10.0	0.100	10.0	0.1000	-	<0.10	In'n>		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	D.CIU_BI2026260		28654	DBA-WA404	Sample	P1-A2	10.0	0.100	10.0	0.1000		<0.10	<0.01	10.0>	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	D-010_B12026260	E DED	687-7M15 0 10 m0/m		Calibration	Vial 4	10.0				56.66				
0525021a_018.d 5.943 Constructions DBA-WA*403 Sample P1-A3 10.0 0.100 45.74 0.0867 0.0087 0.00860 0525021a_0101 5.997 28861(1.0,83 DBA-WA*403 Sample P1-A4 10.0 0.100 45.74 0.0857 0.0867 0.0087 0.00860 05252021a_020.d 5.969 28861(1.0,83 DBA-WA*403 Sample P1-A4 10.0 0.100 40.00 0.0255 136.01 0.2586 10.34 10.3 1 0.3 1	05252021a_01/.0	606.0	11/6d otto CTL/2-/00	DRA-WA*403	Samula	P1-A3	10.0	0.100	10.0	0.1000	44.93	0.0852	0.0085		
0525021a_019.d 5.997 28861CL0R3 DBA-WA*403 Sample P1-A4 10.0 0.100 400.0 0.025 134.77 0.2586 10.342 05252021a_021.d 5.969 5881CL0R3 DBA-WA*403 Sample P1-A4 10.0 0.0025 134.77 0.2562 1.0248 1.03 0525021a_021.d 5.969 687-2M14 0.25 pqL DBA-WA*403 Sample P1-A5 10.0 0.0100 0.0100 60.10 <0.01	05252021a_018.d	5.983	CNIU.U010882		Cample	D1-43	10.01	0.100	10.0	0.1000	45.74	0.0867	0.0087	0.00860	869
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	052552021a_019.d	2.997	28801CU.UIKS		olamed	D1-A4	10.01	0.100	400.0	0.0025	136.01	0.2586	1.0342		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_020.d	5.983	28861C1.0K3	COT AW-MOU	aldillac		0.01	0 100	400.0	0.0025	134.77	0.2562	1.0248	1.03	103
O5252021a_022.d 5.969 $687-2M14 0.25 pq/tL$ Calibration Val 3 100 0.100 0.100 -10 (0.10) <	05252021a_021.d	5.969	28861C1.0R3	CUP-WA-ABU	Sample	the-IT	0.01	001.0	2.001		133.17				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_022.d	5.969	687-2M14 0.25 pg/µL		Calibration	C IDIA	0.01	0010	10.01	0 1000		<0.10	<0.01		
05252021a_024.d 28863 DBC-WA*403 Sample Sample P_1 -AS D_{100} D_{100} D_{100} D_{100} O_{100}	05252021a_023.d		28863	DBC-WA 403	Sample	CY-14	0.01	0010	10.0	01001 0	1	<0.10	<0.01	<0.01	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_024.d	I	28863	DBC-WA*403	Sample	CA-14	0.01	001.0	0.01	0001.0		<0.10	<0.01		
05252021a_026.d 28864 DBD-WA*403 Sample P1-A6 10.0 0.0.00 9.0.0 5.30 05252021a_027.d 5.969 687-2M15 0.10 pg/µL Calibration Val 4 10.0 0.0.00 43.01 6.0.10 6.0.10 05252021a_028.d 5.997 28656 DBC-WA404 Sample P1-A7 10.0 0.1000 41.05 <0.01	05252021a_025.d	1	28864	DBD-WA*403	Sample	9Y-14	0.01	001.0	0.01	01000		<0.10	<0.01	<0.01	
05252021a_027.d 5.969 687-2M15 0.10 pg/µL Callbration Vial 4 10.0 05252021a_027.d 5.997 28656 DBC-WA404 Sample P1-A7 10.0 0.100 40.01 40.01 6.01 05252021a_028.d 5.997 28656 DBC-WA404 Sample P1-A7 10.0 0.100 41.05 40.01 40.01 05252021a_029.d 5.997 28657 DBC-WA404 Sample P1-A7 10.0 0.100 41.05 40.01 40.01 05252021a_030.d 5.997 28657 DBD-WA404 Sample P1-A8 10.0 0.100 10.00 41.94 40.01 40.01 05252021a_030.d 5.969 687-2M14 0.25 DBD-WA404 Sample P1-A8 10.0 0.100 10.00 41.91 <0.01	05252021a_026.d		28864	DBD-WA*403	Sample	PI-A6	0.01	DOT-D	D'OT	0001-0	57 30				
05252021a_028.d 5.997 28656 DBC-WA404 Sample P1-A7 10.0 0.100 10.0 0.100 0.100 0.100 0.10 0.00 0.10 0.00 0	05252021a_027.d	5.969	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0		0.07	0001.0	43 01	<0.10	<0.01		
05252021a_029.d 5.997 28656 DBC-WA404 Sample P1-A7 10.0 0.100 10.0 0.100 71.00 71.00 0.10 0.00 0.0	05252021a_028.d	5.997	28656	DBC-WA404	Sample	PI-A7	10.0	0.100	0.01	0001-0	10.01	0107	<0.01	<0.01	
05252021a_030.d 5.997 28657 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.100 71.07 0.01 <0.01 05252021a_031.d 5.983 28657 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.1000 41.91 <0.10 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.0	05252021a 029.d	5.997	28656	DBC-WA404	Sample	P1-A7	10.0	0.100	0.0I	0001.0	PO IV	01.02	<0.01		
05252021a_031.d 5.983 28657 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.100 41.51 50.0 50.0 5252021a_032.d 5.969 687-2M14.0.25 pg/µL Calibration Vial 3 10.0 10.0 10.0 138.22 Calculated LOD at 0.045 pg/µL 24 24 24 24 24 24 24 24 24 24 24 24 24	05252021a 030.d	5.997	28657	DBD-WA404	Sample	P1-A8	10.0	001.0	10.0	0001-0	10 1V	0102	10.07	<0.01	
05252021a_032.d 5.969 687-2M14.0.25 pg/µL Calibration Vial 3 10.0 L38.22 Calculated LOD at 0.045 pg/µL = 24	05252021a 031.d	5,983	28657	DBD-WA404	Sample	P1-A8	10.0	0.100	10.0	00010	16.14	01.02	10.04		
Calculated LOD at 0.045 pg/µL = 24	05252021a_032.d	5.969	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				77.001				
	Calculated LOD at 0.0	145 pg/pL =	24												
Carrieted IOD at 0.10 $n0/01 \approx 0.3$	G. 00		1												

Analytical Summary Report, PR# 08550

Printed at: 9:24 AM on: 5/26/2021



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Calibration

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oles WA*403. WA404 - Extracted 5/25/2021 by ASM Compound Injection Date TFNG 5/25/2021 08550 - Flonicamid/Onion - Field S

Durity It Durity Durit Durit Durity <th>- FIONICAMIQ/UNION - FIELU</th> <th>AN Saldilloc</th> <th>India another LAUAN ICAL</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>į</th> <th></th> <th></th> <th></th> <th></th> <th></th>	- FIONICAMIQ/UNION - FIELU	AN Saldilloc	India another LAUAN ICAL							į					
Deniet Rt Sample from Sample from Prior					Sample		Inj Vol	5	I vol	ma Ini	Resp	(pa/nf)	ppm A	ve ppm	% Rec
CSSORIA D014 7135 Condion Sample P1-A3 100 CSSORIA D024 7196 Condion Sample P1-A3 100 CSSORIA D034 7136 Condion Sample P1-A3 100 CSSORIA D036 7121 Condion Sample P1-A3 100 CSSORIA D036 7121 Condion Sample P1-A3 100 CSSORIA D036 7121 Condion Sample P1-A3 100 CSSORIA D036 7138 687-7015 G10 Fp(L Condion Sample P1-A3 100 CSSORIA D036 7138 687-7015 G10 Fp(L Condion No 200 No 200 CSSORIA D036 7138 687-7015 G10 Fp(L Condion No 200 2010 2010 CSSORIA D136 FM-M040 Sample P1-A1 100 100 2010 2010 2010 CSSORIA D14 7138 687-7011 G10 Fp(L Condion No 100 2010 110	Data File	RT	SampleName	Sample Into	1 Ape	VIAI POS	(hr)	- 7							
CSS2012.0012 2138 Condition Samele P.A.8 100 CSS2012.0012 7213 Condition Samele P.A.3 100 CSS2012.0012 7213 667-7MIG LOGIU Samele P.A.3 100 CSS2012.01012 7138 667-7MIG LOGIU Samele P.A.4 100 2053 CSS2012.01012 7138 667-7MIG LOGIU VIII 100 2000 VIIII 2003 CSS2012.01014 TH 2000 100 100 100 2010 4011 2013 CSS2012.01014 TH 2000 100 100 100 2010 100 2010 100 2010 4011 100 2014 4011 100 2013 2014 <	05252021a 001.d	7.225	Condition		Sample	P1-A3	10.0								
Gizzonta Jost 718 Continio sample P1-A3 100 0522021a Jost 7212 Continio sample P1-A3 100 0522021a Jost 7212 Continio sample P1-A3 100 0522021a Jost 7213 Continio sample P1-A3 100 0522021a Jost 7213 Continio sample P1-A3 100 0522021a Jost 7213 667-7415 Lost Calmeton Val 100 0522021a Jost 7213 667-7415 Lost Calmeton Val 100 35.57 0522021a Jost 719 667-7415 Lost Calmeton Val 100 35.57 0522021a Jost 7213 667-7415 Lost Calmeton Val 100 100 100 0522021a Jost 7213 667-7415 Lost 7212 2661 600 100 100 100 100 100 100 100 100 100 100 100 100 100 1	05252021a 002.d	7.198	Condition		Sample	P1-A3	10.0								
GSS2031a Order Sample F1-A3 L00 GSS2031a 7.212 Condino Sample F1-A3 L00 GSS2031a 0.66 7.212 Condino Sample F1-A3 L00 GSS2031a 0.66 7.213 Condino Sample F1-A3 L00 GSS2031a 0.66 7.139 687-2415 (0.6 GP)L Condino Sample F1-A1 L00 GSS2031a 0.110 7.139 687-2415 (0.6 Pp)L Colmetrino Val 100 Sin Sample F1-A1 L00 L100 L100 Colmetrino Sin Sample F1-A1 L100 L100 L100 Colmetrino Sin Sample F1-A1 L100 L100 <td>05252021a 003.d</td> <td>7.198</td> <td>Condition</td> <td></td> <td>Sample</td> <td>P1-A3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	05252021a 003.d	7.198	Condition		Sample	P1-A3	10.0								
Sample (552021a, 0054 7.21 (51) Condition (52) Sample (57) FAA3 (51) 100 (52) 0522021a, 0054 7.21 (51) 667-Mit (50) 58-Mit (50) 58-Mit (50) 58-Mit (50) 58-Mit (50) 0522021a, 0054 7.21 (52) 667-Mit (50) 58-Mit (50) 58-	05252021a 004.d	7.212	Condition		Sample	P1-A3	10.0								
Sample F1-M3 D00 05525021a_0064 7.212 Condien 58.75 05525021a_0014 7.138 667-24110.00plL Calibration Val 20.75 05525021a_0014 7.138 667-24110.00plL Calibration Val 100 05525021a_0014 7.138 667-24110.00plL Calibration Val 100 05525021a_0104 7.138 667-24110.00plL Calibration Val 100 05525021a_0104 7.138 667-24110.0pplL Calibration Val 100 100 100 100 05525021a_0104 7.138 667-24110.0pplL Calibration Val 100 100 100 100 05525012a_0104 7.138 667-24110.0pplL Sample F+1.4 100 100 100 100 100 05525012a_0104 7.138 667-24110.0pplL Sample F+1.4 100 100 100 100 05525012a_0104 7.128 667-24110.0pplL Sample F+1.4 <td>05752021a 005.d</td> <td>7.212</td> <td>Condition</td> <td></td> <td>Sample</td> <td>P1-A3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	05752021a 005.d	7.212	Condition		Sample	P1-A3	10.0								
Sizzozza (0):138 Gyzyny (0):139 Sizzozza (0):138 Gyzyny (0):139 Sizzozza (0):136	05252021a_006 d	7.212	Condition		Sample	P1-A3	10.0								
3753073.4 (06.6 7.1% 667-2M16.005 gpl. Calibration Vial 100 30.75 30.75 05253073.4 (06.6 7.19 667-2M16.005 gpl. 7.19 667-2M16.005 gpl. 100 05253073.4 (06.6 7.19 667-2M13.005 gpl. Calibration Vial 100 100 100.25 05253073.4 (06.7 7.19 667-2M13.05 gpl. Calibration Vial 100 100 0.100 0.01 0.01 05253073.4 (06.7 7.19 667-2M13.05 gpl. 2866 0.010 0.100 0.100 0.010 0.01 </td <td>05752021a 007 d</td> <td>7.212</td> <td>Condition</td> <td></td> <td>Sample</td> <td>P1-A3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	05752021a 007 d	7.212	Condition		Sample	P1-A3	10.0								
OSS2031a OSS SS SS <thss< th=""> SS SS <</thss<>	P 000 = 10020200	7 108	687-2M16 0.05 pg/ul		Calibration	Vial 5	10.0				20.75				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.000_B1202220	7.198	687-2M15 0.10 pg/uL		Calibration	Vial 4	10.0				35.57				
Observation 7.190 677-2011.0 pp/L Collevation Val 100.20 053203.1a 7.198 677-2011.0 pp/L BA-WA*03 Sample P1-1 100	010 e1002520	7.712	687-2M14 0.25 pd/uL		Calibration	Vial 3	10.0				105.59				
OSS20213_0124 7.19 Constrained (SS20213_0124 67.2M12.10 rg/M (SS20213_0124 667.2M12.10 rg/M (SS20213_0124 667.3M12.10 rg/M (SS20213_0124 670.10 rg/M (SS20213_0124	010 E10025200	7 198	687-2M13 0.50 pg/uL		Calibration	Vial 2	10.0				190.28				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	D.110_B1202520	7 198	687-2M12 1.0 pg/uL		Calibration	Vial 1	10.0				406.58				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.210_B12020200		28861	DBA-WA*403	Sample	P1-A1	10.0	0.100	10.0	0.1000	-	<0.10	<0.01		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	P 10 - 100-200		28861	DBA-WA*403	Sample	P1-A1	10.0	0.100	10.0	0.1000	I	<0.10	<0,01	<0.01	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	P'LTO_BIZOZCZCO		28654	DBA-WA404	Sample	P1-A2	10.0	0.100	10.0	0.1000	ļ	<0.10	<0.01		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.210_B1202220		28654	DBA-WA404	Sample	P1-A2	10.0	0.100	10.0	0.1000	-	<0.10	<0.01	<0.01	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	n.010_612026260		1000 01 0 1 MC-200		Calibration	Vial 4	10.0				37.74				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0.110_B12026260	061.1		DRA-WA*403	Sample	P1-A3	10.0	0.100	10.0	0.1000	41.71	0.1040	0.0104		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_018.d	1.212	2800100.0102	DBA-WA*403	Sample	D1-43	10.0	0.100	10.0	0.1000	37.72	0.0942	0.0094	0.00991	%66
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_019.d	1.212	CUTOTO 10000	DBA-WA*403	olome2	D1-A4	10.0	0 100	400.0	0.0025	123.47	0.3065	1.2262		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_020.d	7.212	28861C1.0K3	COF AV AD	aldilloc	LA LA	0.01	0 100	400.0	0 0025	114.50	0.2843	1.1373	1.18	118%
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_021.d	7.212	28861C1.0R3	DBA-WA"403	Sample		10.01	001.0	0.001		00 64				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_022.d	7.212	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0			00010	10.00	0107	<0.01		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a_023.d	1	28863	DBC-WA*403	Sample	P1-A5	10.0	0.100	10.0	00010		010	<0.01	<0.01	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05252021a 024.d	1	28863	DBC-WA*403	Sample	P1-A5	10.0	0.100	10.01	0001-0		01.01	10.01		
05252021a_026.d 28864 DBD-WA*403 Sample P1-A6 10.0 0.100 0.0100 0.010	05252021a_025.d	l	28864	DBD-WA*403	Sample	P1-A6	10.0	0.100	10.0	0.1000		01.02	10.02	<0.01	
05252021a_027.d 7.212 687-2M15 0.10 pg/µL Calibration Val 4 10.0 -42 05252021a_028.d 7.212 28656 DBC-WA404 Sample P1-A7 10.0 0.1000 27.86 <0.10	05252021a_026.d		28864	DBD-WA*403	Sample	P1-A6	10.0	0.100	10.01	nnnT'n		01.04			
05252021a_028.d 7.212 28656 DBC-WA404 Sample P1-A7 10.0 0.100 0.1000 27.08 -0.10 0.01 05252021a_029.d 28656 DBC-WA404 Sample P1-A7 10.0 0.100 0.1000	05252021a_027.d	7.212	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				42.34	010	10.01		
05552021a_029.d 28656 DBC-WA404 Sample P1-A7 10.0 0.100 0.1000 <0.10 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01	05252021a 028.d	7.212	28656	DBC-WA404	Sample	P1-A7	10.0	0.100	10.0	0.1000	09.17	01.05	10.02	10.01	
0552021a_000d 28657 DBD-WA404 Sample P1-A8 10.0 0.100 0.1000 <0.10 <0.01 05552021a_031.d 28657 DBD-WA404 Sample P1-A8 10.0 0.100 0.100 0.1000 <0.10 <0.01 <0.01 05552021a_032.d 7.212 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 10.0 0.1000 10.00 0.1000 <0.10 <0.01 <0.01 Calculated LOD at 0.045 pg/µL = 18 Calculated LOQ at 0.045 pg/µL = 40	05252021a 029.d	1	28656	DBC-WA404	Sample	P1-A7	10.0	0.100	10.0	0.1000		01.0>	10.05	10.04	
05252021a_031.d 28657 DBD-WA404 Sample P1-A8 10.0 0.100 10.0 0.100 <0.10 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <	05252021a 030 d	1	28657	DBD-WA404	Sample	P1-A8	10.0	0.100	10.0	0.1000	1	<01.0>	10.0>		
05552012_032.d 7.212 687-2M14 0.25 pg/µL Calibration Vial 3 10.0 108.67 Calculated LOD at 0.045 pg/µL = 18 Calculated LOQ at 0.10 pg/µL = 40	05252021a 031.d	I	28657	DBD-WA404	Sample	P1-A8	10.0	0.100	10.0	0.1000		<01.0>	10.0>	In'n>	
Calculated LOD at 0.045 pg/µL = 18 Calculated LOQ at 0.10 pg/µL = 40	05252021a 032.d	7.212	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				108.67				
Calculated LOQ at 0.10 $pg/\mu t = 40$	Calculated LOD at 0.	045 pg/µL =	18												
	Calculated LOO at 0.	10 pg/nf =	40												
			thread a												

IR-4 Western Region Laboratory, University of California, Davis



Target Compound TFNG

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0.2500 0.1000 0.1000 0.1000 0.0500

108.67 35.57 37.74 42.32 20.75

Calibration Calibration Calibration Calibration Calibration

Actional Contention Sample Fixe Jui Voi g mil Voi g mil Voi mil Voi mol Voi	Pinotin Findin	FCOCI															
Date File R1 Sample File Lot Vise Condition Sample File Lot Vise Condition Con	0 - Flonicamid/Onion - Meth	od Validation E	oxtension (2.0 ppm) - Green O	nion - Extracted 5/2	6/2021 by ASI	5											
					Sample	I	nj Vol					Conc		Ave		Ave %	
5550213_001d Condition Sample P1-3 100 5550213_003d 7721 Condition Sample P1-3 100 5550213_013_d 7735 687-MH 0.5 gpt/L Condition Sample P1-4 100 5550213_013_d 7735 687-MH 0.5 gpt/L Calibration Val 200 203 5550213_013_d 7735 687-MH 0.5 gpt/L Calibration Val 200 201 201 201 5550213_013_d 7735 687-MH 0.5 gpt/L Calibration Val 200 201 201 201 201	Data File	RT	SampleName	Sample Info	Type /	fial Pos	(hr)	5	nL Vol	ful gm	Resp	(Jul/gd)	mdd	mdd	% Kec	Kec	sta per
G552021a OR2 771 Condition Sample F1-3 100 G552021a OR3 7721 Condition Sample F1-3 100 G552021a OR4 7731 G677-M16.05 pu/lt Condition Sample F1-3 100 G552021a OR4 7731 G677-M14.05 pu/lt Calibration Wa1 100 73.13 G552021a OR4 7731 G677-M14.05 pu/lt Calibration Wa1 100 73.13 G552021a OR4 771 G677-M14.05 pu/lt Calibration Wa1 100 73.13 G552021a OR4 772 <	05262021a_001.d	1	Condition		Sample	P1-A3	10.0										
S55021a O31 771 Condition Sample F1-3 100 S55021a 0054 7721 G672M15.01 pg/H Calibration Val<1	05262021a_002.d	7.721	Condition		Sample	P1-A3	10.0										
S55021a_0044 7721 Condition Sample P1-A3 100 5550021a_0054 7721 G67-MH0 055 pq/H Calibration Val 3 100 5550021a_0114 7721 687-MH3 055 pg/H Calibration Val 3 100 731 5550021a_0114 7721 687-MH3 055 pg/H Calibration Val 3 100 731 5550021a_0134 7721 687-MH3 055 pg/H Calibration Val 3 100 731 5550021a_0134 7721 687-MH3 055 pg/H Calibration Val 3 100 731 5550021a_0134 7721 687-MH3 055 pg/H Calibration Val 3 100 731 2395 234 231 1316 5550021a_0134 7735 687-M13 056 774	05262021a_003.d	7.721	Condition		Sample	P1-A3	10.0										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05262021a_004.d	7.721	Condition		Sample	P1-A3	10.0										
6536013_006d 7721 Condition Sample P1-A3 100 6553013_003d 7721 687-M16 0.0040 135 687-M16 0.0040 1552 6552013_003d 7721 687-M16 0.0740 Calibration Val3 100 1552 65520313_011d 7721 687-M16 0.05 pg/u Calibration Val3 100 2955 65520313_011d 7721 687-M13 0.50 pg/u Calibration Val3 100 1447 100 65520313_011d 7721 687-M14 0.55 pg/u Calibration Val3 100 1247 2395 6522031_011d 7721 687-M14 0.55 pg/u Calibration Val3 100 1100 1100 1100 1246 0556031_011d 7735 589+90.2081 64-CM-20 58mple P1-A1 100 1100 1100 1100 1236 0556031_012d 7735 28999/2081 64-CM-20 58mple P1-A1 100 1100 1200 1246 1231 1316% <	05262021a_005.d	7.721	Condition		Sample	P1-A3	10.0										
	05262021a_006.d	7.721	Condition		Sample	P1-A3	10.0										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05262021a_007.d	7.721	Condition		Sample	P1-A3	10.0										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05262021a 008.d	7,735	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				15.52						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05262021a 009.d	7.721	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				29.95						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05262021a 010.d	7.735	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				78.19						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05262021a 011.d	7.721	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				144.77						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05262021a 012.d	7.721	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				312.98						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	05262021a 013.d	1	28849	GA-CA*20	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01				
05262021a_015.d 7.735 28849V2.0R1 GA-CA*20 Sample P1-A2 10.0 0.000.0 6.949 0.2364 2.3644 05262021a_016.d 7.735 58849V2.0R1 GA-CA*20 Sample P1-A2 10.0 0.000.0 6.54 0.2364 2.3644 05262021a_017.d 7.735 6887-2M15 0.10 pg/uL Calibration Vial 10.0 0.000.0 6.010 66.74 0.2277 2.2769 2.32 116% 05262021a_017.d 7.721 28849V2.0R2 GA-CA*20 Sample P1-A3 10.0 0.100 0.0010 65.74 0.2277 2.364 05262021a_014.d 7.721 28849V2.0R2 GA-CA*20 Sample P1-A3 10.0 0.100 0.0010 67.44 0.2297 2.324 116% 05262021a_020.d 7.721 28849V2.0R3 GA-CA*20 Sample P1-A4 10.0 0.100 67.44 0.2299 2.1391 2.23 111% 05262021a_020.d 7.771 28849V2.0R3 GA-CA*20<	05262021a 014.d		28849	GA-CA*20	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01			
05262021a_016.d 7.735 28849V2.0R1 GA-Ca*20 Sample P1-A2 10.0 0.0010 66.74 0.2277 2.2769 2.32 116% 05262021a_017.d 7.735 687-2MI5 0.10 pg/uL Calibration Vial 4 10.0 25.83 2.2769 2.32 116% 05262021a_013.d 7.721 28849V2.0R2 Ga-Ca*20 Sample P1-A3 10.0 10.00.10 6.5.92 0.2155 2.1548 05262021a_019.d 7.721 28849V2.0R2 GA-Ca*20 Sample P1-A3 10.0 10.00.10 6.7.44 0.2299 2.2991 2.23 111% 05262021a_020.d 7.721 28849V2.0R3 GA-Ca*20 Sample P1-A4 10.0 0.1001 6.7.44 0.2299 2.23 111% 05262021a_020.d 7.771 28849V2.0R3 GA-Ca*20 Sample P1-A4 10.0 0.1001 6.7.73 0.1999 1.993 79 05262021a_021.d 7.773 0.1080 0.0010 0.0010 6.0109	05262021a 015.d	7.735	28849V2.0R1	GA-CA*20	Sample	P1-A2	10.0	0.100	1000.0	0.0010	69.49	0.2364	2.3644				
05262021a_017.d 7.735 687-2MI 5 0.10 pg/uL Calibration Vial 4 10.0 25.83 25.83 05262021a_018.d 7.721 28849V2.0R2 G4-CA*20 Sample P1-A3 10.0 10.00.0 0.0010 65.292 0.2155 2.1548 05262021a_019.d 7.721 28849V2.0R2 G4-CA*20 Sample P1-A3 10.0 0.100 0.0010 67.92 0.2155 2.1548 05262021a_020.d 7.721 28849V2.0R3 G4-CA*20 Sample P1-A4 10.0 0.100 0.0010 67.44 0.2299 2.291 2.23 111% 05262021a_020.d 7.771 28849V2.0R3 GA-CA*20 Sample P1-A4 10.0 0.100 0.0010 57.73 0.1989 1.9893 10.9% 10.0% 0.5262021a_0210 0.7119 2.1189 2.05 103% 110% 77 05262021a_021d_021d_071 7.735 687-2M14.0.25 5ample P1-A4 10.0 0.1000.0 0.0010 57.73 0.1199 2.013% 110% 76 05262021a_021d_071 7.735 687-2M14.0.25	05262021a 016.d	7.735	28849V2.0R1	GA-CA*20	Sample	P1-A2	10.0	0.100	1000.0	0.0010	66.74	0.2277	2.2769	2.32	116%		
05262071a_018.d 7.721 28849V2.0R2 GA-CA*20 Sample P1-A3 10.0 0.100 1000.0 0.0010 65.92 0.2155 2.1548 05262071a_019.d 7.735 28849V2.0R2 GA-CA*20 Sample P1-A3 10.0 0.100 1000.0 0.0010 67.44 0.2299 2.2991 2.23 111% 05262071a_020.d 7.721 28849V2.0R3 GA-CA*20 Sample P1-A4 10.0 0.100 1000.0 0.0010 57.73 0.1389 1.9893 05262071a_021.d 7.721 28849V2.0R3 GA-CA*20 Sample P1-A4 10.0 0.100 1000.0 0.0010 57.73 0.1389 1.9893 05262071a_021.d 7.735 687-2M14.0.25 pg/µL Calibration Vial 3 10.0 1000.0 0.0010 61.79 0.2119 2.1189 2.05 103% 110% 79 Calculated LOD at 0.045 pg/µL 9 Calculated LOD at 0.045 pg/µL 2 Calibration Vial 3 10.0 1000.0 0.0010 61.79 0.2119 2.1189 2.05 110% 79 Calculated LOD at 0.045 pg/µL = 9	05262021a_017.d	7.735	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				25.83						
05262071a_019.d 7.735 28849V2.0R2 GA-CA*20 Sample P1-A3 10.0 0.1000.0 0.0010 67.44 0.2299 2.2991 2.23 111% 05262071a_020.d 7.721 28849V2.0R3 GA-CA*20 Sample P1-A4 10.0 0.100 1000.0 0.0010 57.73 0.1389 1.9893 05262071a_021.d 7.721 28849V2.0R3 GA-CA*20 Sample P1-A4 10.0 0.100 1000.0 0.0010 61.79 0.1189 2.05 103% 110% 79 05262021a_022.d 7.735 687-2M14.0.25 pg/µL Calibration Vial 3 10.0 0.100 1000.0 0.0010 61.79 0.2119 2.1189 2.05 103% 110% 79 Calculated LOD at 0.045 pg/µL 9 2.05 103% 110% 10.0 0.100 1000.0 0.0010 61.79 0.2119 2.1189 2.05 103% 110% 79 Calculated LOD at 0.045 pg/µL 9 2.05 103% 110% 10.0 0.000 0.0010 61.79 0.2119 2.1189 2.05 103% 110% 79 Calculated LOD at 0.045 pg/µL 9 2.05 103% 110% 10.0 0.000 0.0010 61.79 0.2119 2.1189 2.05 103% 110% 79	05262021a_018.d	7.721	28849V2.0R2	GA-CA*20	Sample	P1-A3	10.0	0.100	1000.0	0.0010	62.92	0.2155	2,1548				
05262071a_020.d 7.721 28849V2.0R3 GA-CA*20 Sample P1-A4 10.0 0.100 1000.0 0.0010 57.73 0.1989 1.9893 05262021a_021.d 7.721 28849V2.0R3 GA-CA*20 Sample P1-A4 10.0 0.100 1000.0 0.0010 61.79 0.2119 2.1189 2.05 113% 110% 79 05262021a_022.d 7.735 687-2M14.0.25 pg/µL Calibration Vial 3 10.0 Calculated LOD at 0.045 pg/µL 9 Calculated LOD at 0.00 pg/µL 2 Calculated LOD at 0.00 pg/µL 2 2000 Calcu	05262021a_019.d	7.735	28849V2.0R2	GA-CA*20	Sample	P1-A3	10.0	0.100	1000.0	0.0010	67.44	0.2299	2.2991	2.23	111%		
05262021a_021.d 7.721 28849V2.0R3 GA-CA*20 Sample P1-A4 10.0 0.100 1000.0 0.0010 61.79 0.2119 2.1189 2.05 103% 110% 79 05262021a_022.d 7.735 687-2M14.0.25 pg/µL Calibration Vial 3 10.0 Calculated LOD at 0.045 pg/µL = 9 Calculated LOD at 0.045 pg/µL = 2 Calculated LOO at 0.10 pg/µL = 27	05262021a 020.d	7.721	28849V2.0R3	GA-CA*20	Sample	P1-A4	10.0	0.100	1000.0	0.0010	57.73	0.1989	1.9893			1000	i
05262021a_022.d 7.735 687-2M14.0.25 pg/µL Calibration Vial 3 10.0 Cakulated LOD at 0.045 pg/µL = 9 Cakulated LOD at 0.10 pg/µL = 27	05262021a_021.d	7.721	28849V2.0R3	GA-CA*20	Sample	P1-A4	10.0	0.100	1000.0	0.0010	61.79	0.2119	2.1189	2.05	103%	110%	
Calculated LOD at 0.045 pg/µL = 9 Calculated LOO at 0.10 $pg/\mu L = 27$	05262021a_022.d	7.735	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				65.68						
Calculated LOO at 0.10 $pq/\mu L = 27$	Calculated LOD at 0.0	45 pg/µL =	6														
	Calculated LOO at 0.1	0 pg/pL =	27														

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Target Compound Flonicamid	CurveFit	Weighting weightEqual	Integrator Agile	Smoothing Gaussian	Smoot	hingFunctio 10	nWidth	Smooth	ningGaussia 5	anWidth
Flonicamid - 5 Levi 3 K 2 = 315 Responses ×10 2 Y = 315 R 2 = 1 1.75 + Type:L 1.75 + 1 1.55 + 1 0.75 + 0.25 + 1 0.25 + 100	els, 5 Levels 5506110 * x 0.99718627 inear, Origin:	Used, 7 Points, - 4.638995 Ignore, Weight:	7 Points Used None 5/2	,0 QCs						
) -0 	0.05 0.1 0	.15 0.2 0.25	0.3 0.35 0.4	0.45 0.5	0.55 0.6	0.65 0.7	0.75 0.8	3 0.85 0	.9 0.95 Concentra	1 1.05 tion (ng/ml)
Calibration STD					Cal Type	Level	Enabled	Res	onse	Exp Conc
D-\MassHunter\Flonicamic	1\08550 Onion\D	ata/Results/0526202	1\05262021a 012.d		Calibration	1		(°)	312.98	1.0000
D:\MassHunter\Flonicami	1\08550 Onion\D	ata\Results\0526202	1\05262021a 011.d		Calibration	2	D	-	44.77	0.5000
D:\MassHunter\Flonicami	d/08550 Onion/D	ata\Results\0526202	1\05262021a_010.d		Calibration	3			78.19	0.2500
D:\MassHunter\Flonicami	d/08550 Onion/D	ata\Results\0526202	1\05262021a 022.d		Calibration	ñ			65.68	0.2500
D:\MassHunter\Flonicami	d/08550 Onion/D	ata\Results\0526202	1\05262021a_009.d		Calibration	4			29.95	0.1000
D:\MassHunter\Flonicami	d/08550 Onion/D	ata\Results\0526202	1\05262021a_017.c		Calibration	4			25.83	0.1000
D:/MassHunter/Flonicami	AVARESO Onion/D	ata\Results\0526202	1\05262021a 008.c		Calibration	S			15.52	0.0500



D:\/MassHunter/Flonicamid/08550_Onion/Data/Results/052620211/05262021a_017.d D:\/MassHunter/Flonicamid\08550_Onion\Data\Results\05262021a_010.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05262021\05262021a_022.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05262021\05262021a_009.d D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05262021\05262021a_008.d D:\MassHunter\ D:\MassHunter\

Calibration Calibration

Compound Injection Date TFNA-AM 5/26/2021 08550 - Flonicamid/Onion - Method Validatio

3550 - Flonicamid/Onion - Method Validation Extension (2.0 ppm) - Green Onion - Extracted 5/26/2021 by ASM

ו ומווורמוווח/חווומוו - וגובח	Innaniia noi	ryclipici (zin ppin) alcei o	אווחו רעומרורה א	in in transing												
				Sample		Inj Vol					Conc		Ave		Ave %	
Data File	RT	SampleName	Sample Info	Type	/ial Pos	(11)	5	mL Vol	ini gm	Resp	(hg/µL)	mdd	mdd	% Rec	Rec	std Dev
05262021a_001.d	1	Condition		Sample	P1-A3	10.0										
05262021a_002.d	5.311	Condition		Sample	P1-A3	10.0										
05262021a_003.d	5.311	Condition		Sample.	P1-A3	10.0										
05262021a_004.d	5.324	Condition		Sample	P1-A3	10.0										
05262021a_005.d	5.311	Condition		Sample	P1-A3	10.0										
05262021a_006.d	5.311	Condition		Sample	P1-A3	10.0										
05262021a_007.d	5.311	Condition		Sample	P1-A3	10.0										
05262021a_008.d	5.324	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				69.28						
05262021a_009.d	5.324	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				126.88						
05262021a_010.d	5.311	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				320.43						
05262021a_011.d	5.311	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				663.01						
05262021a_012.d	5.297	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				1305.08						
05262021a_013.d		28849	GA-CA*20	Sample	P1-A1	10.0	0.100	10.0	0.1000		<0.10	<0.01				
05262021a_014.d	1	28849	GA-CA*20	Sample	P1-A1	10.0	0.100	10.0	0.1000	l	<0.10	<0.01	<0.01			
05262021a 015.d	5.324	28849V2.0R1	GA-CA*20	Sample	P1-A2	10.0	0.100	1000.0	0.0010	279.07	0.2188	2.1881				
05262021a_016.d	5.324	28849V2.0R1	GA-CA*20	Sample	P1-A2	10.0	0.100	1000.0	0.0010	274.17	0.2151	2.1509	2.17	108%		
05262021a_017.d	5.324	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				128.00						
05262021a_018.d	5.324	28849V2.0R2	GA-CA*20	Sample	P1-A3	10.0	0.100	1000.0	0.0010	246.47	0.1940	1.9399				
05262021a_019.d	5.324	28849V2.0R2	GA-CA*20	Sample	P1-A3	10.0	0.100	1000.0	0.0010	257.00	0.2020	2.0201	1.98	%66		
05262021a_020.d	5.324	28849V2.0R3	GA-CA*20	Sample	P1-A4	10.0	0.100	1000.0	0.0010	276.50	0.2169	2.1686				
05262021a_021.d	5.324	28849V2.0R3	GA-CA*20	Sample	P1-A4	10.0	0.100	1000.0	0.0010	274.93	0.2157	2.1567	2.16	108%	105%	2%
05262021a_022.d	5.311	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				284,16						
Calculated LOD at 0.0	45 pg/µL =	51														
Calculated LOO at 0.1	0 pa/nf =	123														

Laiculated LUQ at 0.10 pg/µL = 1.22 "----" denotes response below area threshold

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				Sample		Inj Vol					Conc		Ave		Ave %	
Data File	RT	SampleName	Sample Info	Type	Vial Pos	(11)	6	mL Vol	[n] gm	Resp	(bg/µL)	mdd	mdd	% Rec	Rec	td Dev
05262021a_001.d	1	Condition		Sample	P1-A3	10.0										
05262021a_002.d	5.969	Condition		Sample	P1-A3	10.0										
05262021a_003.d	5.969	Condition		Sample	P1-A3	10.0										
05262021a_004.d	5.969	Condition		Sample	P1-A3	10.0										
05262021a_005.d	5.969	Condition		Sample	P1-A3	10.0										
05262021a_006.d	5.969	Condition		Sample	P1-A3	10.0										
05262021a_007.d	5.969	Condition		Sample	P1-A3	10.0										
05262021a_008.d	5.969	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				31.28						
05262021a_009.d	5.969	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				55.29						
05262021a_010.d	5.969	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				143.56						
05262021a_011.d	5.969	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				284.44						
05262021a_012.d	5.956	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				574.45						
05262021a_013.d		28849	GA-CA*20	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01				
05262021a_014.d		28849	GA-CA*20	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01			
05262021a_015.d	5.969	28849V2.0R1	GA-CA*20	Sample	P1-A2	10.0	0.100	1000.0	0.0010	125.93	0.2218	2.2183				
05262021a_016.d	5.983	28849V2.0R1	GA-CA*20	Sample	P1-A2	10.0	0.100	1000.0	0.0010	116.20	0.2049	2.0488	2.13	107%		
05262021a_017.d	5.969	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				57.05						
05262021a_018.d	5.983	28849V2.0R2	GA-CA*20	Sample	P1-A3	10.0	0.100	1000.0	0.0010	114.78	0.2024	2.0241				
05262021a_019.d	5.983	28849V2.0R2	GA-CA*20	Sample	P1-A3	10.0	0.100	1000.0	0.0010	117.93	0.2079	2.0791	2.05	103%		
05262021a_020.d	5.969	28849V2.0R3	GA-CA*20	Sample	P1-A4	10.0	0.100	1000.0	0.0010	120.16	0.2118	2.1179				
05262021a_021.d	5.969	28849V2.0R3	GA-CA*20	Sample	P1-A4	10.0	0.100	1000.0	0.0010	121.17	0.2135	2.1353	2.13	106%	105%	2%
05262021a_022.d	5.969	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				135.87						
Calculated LOD at 0.04	$H_{5} pg/pl =$	24														
Calculated LOQ at 0.1(= 'hd/bt =	56														
"" denotes responsi	e below area thr	eshold														

S/27/21 abr

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0.0500

31.28

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Calibration

D:\MassHunter\Flonicamid\08550_Onion\Data\Results\05262021\05262021a_008.d

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				Sample		Inj Vol					Conc		Ave		Ave %	
Data File	RT	SampleName	Sample Info	Type \	/ial Pos	(11)	D	mL Vol	ini gm	Resp	(Jrd/6d)	mdd	mdd	% Rec	Rec	Std Dev
05262021a_001.d		Condition		Sample	P1-A3	10.0										
05262021a_002.d	7.198	Condition		Sample	P1-A3	10.0										
05262021a_003.d	7.198	Condition		Sample	P1-A3	10.0										
05262021a_004.d	7.212	Condition		Sample	P1-A3	10.0										
05262021a_005.d	7.198	Condition		Sample	P1-A3	10.0										
05262021a_006.d	7.198	Condition		Sample	P1-A3	10.0										
05262021a_007.d	7.198	Condition		Sample	P1-A3	10.0										
05262021a_008.d	7.212	687-2M16 0.05 pg/µL		Calibration	Vial 5	10.0				24.80						
05262021a_009.d	7.212	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				48.00						
05262021a_010.d	7.198	687-2M14 0.25 pg/ µL		Calibration	Vial 3	10.0				106.69						
05262021a_011.d	7.198	687-2M13 0.50 pg/µL		Calibration	Vial 2	10.0				207.99						
05262021a_012.d	7.198	687-2M12 1.0 pg/µL		Calibration	Vial 1	10.0				424.01						
05262021a 013.d	1	28849	GA-CA*20	Sample	P1-A1	10.0	0.100	10.0	0.1000	I	<0.10	<0.01				
05262021a 014.d	1	28849	GA-CA*20	Sample	P1-A1	10.0	0.100	10.0	0.1000	ŀ	<0.10	<0.01	<0.01			
05262021a 015.d	7.212	28849V2.0R1	GA-CA*20	Sample	P1-A2	10.0	0.100	1000.0	0.0010	98.82	0.2357	2.3568				
05262021a_016.d	7.212	28849V2.0R1	GA-CA*20	Sample	P1-A2	10.0	0.100	1000.0	0.0010	97.94	0.2336	2.3361	2.35	117%		
05262021a_017.d	7.212	687-2M15 0.10 pg/µL		Calibration	Vial 4	10.0				36.37						
05262021a 018.d	7.212	28849V2.0R2	GA-CA*20	Sample	P1-A3	10.0	0.100	1000,0	0.0010	95.58	0.2280	2.2802				
05262021a_019.d	7.212	28849V2.0R2	GA-CA*20	Sample	P1-A3	10.0	0.100	1000.0	0.0010	95.04	0.2267	2.2673	2.27	114%		
05262021a_020.d	7.198	28849V2.0R3	GA-CA*20	Sample	P1-A4	10.0	0.100	1000.0	0.0010	97.49	0.2325	2.3254				
05262021a_021.d	7.198	28849V2.0R3	GA-CA*20	Sample	P1-A4	10.0	0.100	1000.0	0.0010	101.12	0.2411	2,4114	2.37	118%	116%	2%
05262021a_022.d	7.198	687-2M14 0.25 pg/µL		Calibration	Vial 3	10.0				97.46						
Calculated LOD at 0.04	12 pg/pL =	18														
Calculated LOQ at 0.1(= Jul/pd (41														
"" denotes respons-	e below area th	reshold														

5/27/21 april

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Compound Injection Date TFNG 5/26/2021 08550 - Flonicamid/Onion - Meth

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Data File Rt Sample Info Type Inj Vol mg Inj Nes 0720021a_001.d 7.39 Condition Sample Finfo Type Fi A3 100 mg Inj Nes 0720021a_002.d 7.694 Condition Sample Finfo Sample Finfo Sample Findo Sample Findo No	Onicamid 7/20, 3550 - Flonicamid/Onion - Fiel	d Samples TX38	30 - Extracted 7/20/2021 by A	SM											
0720201a 7.287 Condition Sample P1A3 10.0 07202021a 7.694 Gondition Sample P1A3 10.0 07202021a_005.d 7.694 G87-2M10.05 pg/uL Calibration Vial<5 10.0 07202021a_001.d 7.694 687-2M10.05 pg/uL Calibration Vial<5 10.0 11.57 07202021a_011.d 7.694 687-2M10.05 pg/uL Calibration Vial<5 10.0 11.57 07202021a_012.d 7.694 687-2M11.0 G87-2M12.0.0 11.0 10.0 11.00 07202021a_012.d 7.694 687-2M12.1.0	Data File	RT	SampleName	Sample Info	Sample Tvpe	Vial Pos	Inj Vol (uL)		mL Vol	ma Ini	Resp	Conc (pg/uL)	maa	Ave	% Re
	07202021a_001.d	7.287	Condition		Sample	P1-A3	10.0								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	07202021a_002.d	7.694	Condition		Sample	P1-A3	10.0								
0720201a 7.694 Condition Sample P1-A3 10.0 07202021a 006.d 7.694 Condition Sample P1-A3 10.0 07202021a 005.d 7.694 Condition Sample P1-A3 10.0 07202021a 005.d 7.694 687-2M10.0 0700001 28.7 07202021a 001.d 7.694 687-2M10.0 59.9 58.7 07202021a_003.d 7.694 687-2M10.0.5 pg/µL Calibration Vial 3 10.0 07202021a_011.d 7.694 687-2M10.0.5 pg/µL Calibration Vial 3 10.0 71.46 07202021a_011.d 7.694 687-2M10.0.5 pg/µL Calibration Vial 1 10.0 71.46 07202021a_011.d 7.694 687-2M10.0.5 pg/µL Calibration Vial 1 10.0 71.46 07202021a_013.d 7.694 687-2M10.0.5 pg/µL Calibration Vial 1 10.0 71.46 07202021a_013.d 7.694 687-2M10.0.10 pg/µL Calibration Vial 1 </td <td>07202021a_003.d</td> <td>7.694</td> <td>Condition</td> <td></td> <td>Sample</td> <td>P1-A3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	07202021a_003.d	7.694	Condition		Sample	P1-A3	10.0								
07202021a_005.d 7.694 Condition Sample P1-A3 10.0 07202021a_006.d 7.694 Condition Sample P1-A3 10.0 07202021a_008.d 7.694 Gondition Sample P1-A3 10.0 07202021a_008.d 7.694 687-2M21 0.05 pt/L Calibration Vial 5 10.0 07202021a_01.d 7.694 687-2M11 0.05 pt/L Calibration Vial 1 10.0 28.5 07202021a_01.d 7.694 687-2M11 0.05 pt/L Calibration Vial 1 10.0 28.5 07202021a_01.d 7.694 687-2M11 0.05 pt/L Calibration Vial 1 10.0 28.5 07202021a_01.d 7.694 687-2M11 0.05 pt/L Calibration Vial 1 10.0 28.5 07202021a_01.d 7.694 687-2M12 0.05 pt/L Calibration Vial 1 10.0 28.7 07202021a_01.d 7.694 29148C.0164 D8-77380 Sample P1-A1 10.0 0.1000 0.1000 28.7 07202021a_017.d	07202021a_004.d	7.694	Condition		Sample	P1-A3	10.0								
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	07202021a_005.d	7.694	Condition		Sample	P1-A3	10.0								
07202021a_007.d 7.694 Condition Sample P1-A3 10.0 07202021a_008.d 7.694 687-2M12 0.05 pg/uL Calibration vial 5 10.0 28.73 07202021a_009.d 7.694 687-2M12 0.05 pg/uL Calibration vial 5 10.0 28.73 07202021a_010.d 7.694 687-2M12 0.05 pg/uL Calibration vial 3 10.0 28.73 07202021a_013.d 7.708 687-2M12 0.05 pg/uL Calibration vial 1 10.0 11.00 115.24 07202021a_013.d 7.694 687-2M12 0.05 pg/uL Calibration vial 1 10.0 10.100 110.00 07202021a_013.d 7.694 687-2M12 0.05 pg/uL Calibration vial 1 10.0 10.100 115.24 07202021a_013.d 7.694 587-2M12 0.010 pg/uL Calibration vial 1 10.0 10.00 110.00 115.24 07202021a_013.d 7.694 587-2M12 0.010 pg/uL Calibration vial 1 10.0 0.100 115.24 07202021a_013.d	07202021a_006.d	7.694	Condition		Sample	P1-A3	10.0								
07202021a_008.d 7.694 687-2M21 0.05 g/µL Calibration Vial 5 10.0 15.77 07202021a_009.d 7.694 687-2M12 0.05 g/µL Calibration Vial 4 10.0 28.73 07202021a_010.d 7.708 687-2M17 0.0 g/µL Calibration Vial 3 10.0 28.73 07202021a_011.d 7.694 687-2M17 0.0 g/µL Calibration Vial 3 10.0 21.43 07202021a_012.d 7.694 687-2M17 0.0 g/µL Calibration Vial 1 10.0 0.100 10.00 10.00 10.00 07202021a_013.d 7.694 687-2M12 0.0 g/µL Calibration Vial 4 10.0 0.100 10.00 10.00 10.00 07202021a_013.d 7.694 587-2M12 0.0 g/µL Calibration Vial 4 10.0 0.100 10.00 <td>07202021a_007.d</td> <td>7.694</td> <td>Condition</td> <td></td> <td>Sample</td> <td>P1-A3</td> <td>10.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	07202021a_007.d	7.694	Condition		Sample	P1-A3	10.0								
07202021a_009.d 7.694 687-2M10 0.10 pg/µL Calibration Vial 4 10.0 23.73 07202021a_010.d 7.708 687-2M19 0.25 pg/µL Calibration Vial 3 10.0 11.40 07202021a_011.d 7.694 687-2M19 0.25 pg/µL Calibration Vial 1 10.0 11.40 07202021a_011.d 7.694 687-2M17 1.0 pg/µL Calibration Vial 1 10.0 0.100 11.00 07202021a_013.d 29148 0.50 pg/µL Calibration Vial 1 10.0 0.100 0.1000 11.33 07202021a_013.d 29148 0.010 pg/µL Calibration Vial 1 10.0 0.100 0.1000 11.33 07202021a_014.d 29148 0.010 pg/µL Calibration Vial 1 10.0 0.100 0.1000 13.33 07202021a_014.d 7.694 29148 0.010 pg/µL Calibration Vial 1 10.0 0.100 0.1000 13.33 07202021a_014.d 7.694 29148 0.010 pg/µL 29148 0.010 pg/µL 29148 0.010	07202021a_008.d	7.694	687-2M21 0.05 pg/µL		Calibration	Vial 5	10.0				15.77				
07202021a_010.d 7.708 687-2M19 0.25 pq/ut Calibration Vial 2 10.0 71.40 07202021a_011.d 7.694 687-2M18 0.50 pq/ut Calibration Vial 2 10.0 152.34 07202021a_011.d 7.694 687-2M17 1.0 pg/ut Calibration Vial 2 10.0 10.00 152.34 07202021a_012.d 7.694 687-2M17 1.0 pg/ut Calibration Vial 1 10.0 0.1000 10.0 0.1000 152.34 07202021a_013.d 29148 DBA-TX380 Sample P1-A1 10.0 0.1000 10.0 0.1000 31.35 07202021a_013.d 7.694 29148C0.0184 DBA-TX380 Sample P1-A2 10.0 0.1000 31.35 07202021a_013.d 7.694 29148C0.0184 DBA-TX380 Sample P1-A2 10.0 0.1000 31.35 07202021a_013.d 7.694 29148C0.0184 DBA-TX380 Sample P1-A2 10.0 0.100 0.1000 31.35 07202021a_013.d 7.6	07202021a_009.d	7.694	687-2M20 0.10 pg/µL		Calibration	Vial 4	10.0				28.79				
07202021a_011.d 7.694 687-2M18 0.50 pg/µL Calibration Vial 2 10.0 152.34 07202021a_012.d 7.694 687-2M17 1.0 pg/µL Calibration Vial 1 10.0 317.95 07202021a_013.d 29148 DBA-TX380 Sample P1-A1 10.0 0.100 0.1000 07202021a_013.d 29148 DBA-TX380 Sample P1-A1 10.0 0.100 0.1000 31.35 07202021a_015.d 7.694 29148C0.0184 DBA-TX380 Sample P1-A1 10.0 0.100 0.1000 31.35 07202021a_015.d 7.694 29148C0.0184 DBA-TX380 Sample P1-A2 10.0 0.100 0.1000 31.35 07202021a_019.d 7.694 29148C1.0184 DBA-TX380 Sample P1-A2 10.0 0.100 0.1000 31.35 07202021a_021.d 7.694 29148C1.0184 DBA-TX380 Sample P1-A3 10.0 0.100 0.1000 0.1000 31.35	07202021a_010.d	7.708	687-2M19 0.25 pg/µL		Calibration	Vial 3	10.0				71.40				
07202021a_012.d 7.694 687-2M17 1.0 pg/µL Calibration Vial 1 10.0 0.100 10.0 317.95 07202021a_013.d 29148 DBA-TX380 Sample P1-A1 10.0 0.100 10.0 0.1000 07202021a_015.d 7.694 29148C0.01R4 DBA-TX380 Sample P1-A1 10.0 0.100 10.0 0.1000 3.272 07202021a_015.d 7.694 29148C0.01R4 DBA-TX380 Sample P1-A2 10.0 0.100 10.0 0.1000 3.272 07202021a_015.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A2 10.0 0.100 10.0 0.1000 3.35 07202021a_017.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 0.1000 3.35 07202021a_012.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 0.000 3.05 07202021a_012.d 7.694 29148C1.0R4 <td>07202021a_011.d</td> <td>7.694</td> <td>687-2M18 0.50 pg/µL</td> <td></td> <td>Calibration</td> <td>Vial 2</td> <td>10.0</td> <td></td> <td></td> <td></td> <td>152.84</td> <td></td> <td></td> <td></td> <td></td>	07202021a_011.d	7.694	687-2M18 0.50 pg/µL		Calibration	Vial 2	10.0				152.84				
07202021a_013.d 29148 DBA-TX380 Sample P1-A1 10.0 0.100 10.0 0.100 0.100 07202021a_014.d 29148 DBA-TX380 Sample P1-A1 10.0 0.100 10.0 0.100 0.100 3.272 07202021a_015.d 7.694 29148C0.01R4 DBA-TX380 Sample P1-A2 10.0 0.100 10.0 0.1000 3.135 07202021a_015.d 7.694 29148C0.01R4 DBA-TX380 Sample P1-A2 10.0 0.100 10.0 0.1000 3.135 07202021a_017.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 10.0 0.1000 3.135 07202021a_019.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 0.1000 3.135 07202021a_020.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 0.1000 0.1000 3.135	07202021a_012.d	7.694	687-2M17 1.0 pg/µL		Calibration	Vial 1	10.0				317.95				
07202021a_014.d 29148 DBA-TX380 Sample P1-A1 10.0 0.100 10.0 0.100 07202021a_015.d 7.694 29148C0.01R4 DBA-TX380 Sample P1-A2 10.0 0.100 10.0 0.100 3.273 07202021a_015.d 7.694 29148C0.01R4 DBA-TX380 Sample P1-A2 10.0 0.100 10.0 0.1000 3.135 07202021a_017.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A2 10.0 0.100 10.0 0.1000 3.135 07202021a_019.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 40.0 0.0025 74.91 07202021a_013.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 10.0 0.1000 3.135 07202021a_020.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 0.1000 3.145 07202021	07202021a_013.d	l	29148	DBA-TX380	Sample	P1-A1	10.0	0.100	10.0	0.1000]	<0.10	<0.01		
07202021a_015.d 7.694 29148C0.01R4 DBA-TX380 Sample P1-A2 10.0 0.100 10.0 0.1000 3.2.73 07202021a_016.d 7.694 29148C0.01R4 DBA-TX380 Sample P1-A2 10.0 0.100 10.0 0.1000 3.1.35 07202021a_017.d 7.694 687-2M20.01.0 pg/µL Calibration Vial 4 10.0 0.100 10.0 0.1000 3.1.35 07202021a_019.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 400.0 0.0025 74.91 07202021a_019.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 10.0 0.1000 38.17 07202021a_020.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A4 10.0 0.100 10.00 0.1000 38.17 07202021a_020.d 7.694 2872M19.0.25 pg/µL 2967 28.00 0.100 0.100 0.1000 0.1000 0.100 0.100	07202021a_014.d		29148	DBA-TX380	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01	
07202021a_016.d 7.694 29148C0.01R4 DBA-TX380 Sample P1-A2 10.0 0.100 10.0 0.1000 31.35 07202021a_017.d 7.694 687-2M20.010 pg/µL Calibration Vial 4 10.0 0.100 10.0 0.100 3.075 07202021a_018.d 7.694 687-2M20.010 pg/µL Calibration Vial 4 10.0 0.100 400.0 0.0025 74.91 07202021a_019.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 400.0 0.0025 74.91 07202021a_019.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A4 10.0 0.100 10.00 30.15 07202021a_020.d 7.694 29150 DBC-TX380 Sample P1-A4 10.0 0.100 10.00 30.10 07202021a_020.1.d 7.694 687-2M19.0.25 pg/µL 29151 DBD-TX380 Sample P1-A4 10.0 0.100 10.00 30.10 07202021a_020.d 7.694	07202021a_015.d	7.694	29148C0.01R4	DBA-TX380	Sample	P1-A2	10.0	0.100	10.0	0.1000	32.72	0.1057	0.0106		
07202021a_017.d 7.694 687-2M20.0.10 pg/µL Calibration Vial 4 10.0 39.75 07202021a_018.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 400.0 0.0025 74.91 07202021a_019.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 400.0 0.0025 74.91 07202021a_019.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A4 10.0 0.100 400.0 0.0025 73.87 07202021a_020.d 7.694 29150 DBC-TX380 Sample P1-A4 10.0 0.100 10.00 38.17 07202021a_020.1d 7.694 687-2M19 0.25 pg/µL Calibration Vial 3 10.0 0.100 10.00 0.1000 38.61 07202021a_022.4 7.694 687-2M19 0.25 pg/µL DBD-TX380 Sample P1-A5 10.0 0.100 10.00 0.1000 36.05 07202021a_022.4 7.694 687-2M19 0.25 pg/µL	07202021a_016.d	7.694	29148C0.01R4	DBA-TX380	Sample	P1-A2	10.0	0.100	10.0	0.1000	31.35	0.1014	0.0101	0.0104	1049
07202021a_018.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 400.0 0.0025 74.91 07202021a_019.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 400.0 0.0025 73.87 07202021a_019.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A4 10.0 0.100 400.0 0.0025 73.87 07202021a_020.d 7.694 29150 DBC-TX380 Sample P1-A4 10.0 0.100 10.00 38.87 07202021a_020.1a_021.d 7.694 687-2M19 0.25 pg/µL Calibration Vai 3 10.0 0.100 10.0 0.1000 38.69 07202021a_022.1a_022.1a_023.1d 7.694 687-2M19 0.25 pg/µL Calibration Vai 3 10.0 0.100 10.00 0.1000 56.05 07202021a_023.4d 7.694 687-2M20 0.10 pg/µL DBD-TX380 Sample P1-A5 10.0 0.1000 0.1000 56.05 07202021a_023.4d	07202021a_017.d	7.694	687-2M20 0.10 pg/µL		Calibration	Vial 4	10.0				39.79				
07202021a_019.d 7.694 29148C1.0R4 DBA-TX380 Sample P1-A3 10.0 0.100 400.0 0.0025 7.3.87 07202021a_020.d 7.694 29150 DBC-TX380 Sample P1-A4 10.0 0.100 10.0 0.1000 38.15 07202021a_020.d 7.694 29150 DBC-TX380 Sample P1-A4 10.0 0.100 10.0 0.1000 38.15 07202021a_022.d 7.694 687-2M19 0.25 pg/µL Calibration Vial 3 10.0 0.100 10.0 0.1000 38.69 07202021a_022.1a_022.d 7.694 687-2M19 0.25 pg/µL Calibration Vial 3 10.0 0.100 10.0 0.1000 56.05 07202021a_022.4 7.694 687-2M20 0.10 pg/µL DBD-TX380 Sample P1-A5 10.0 0.100 10.00 50.05 07202021a_025.d 7.694 687-2M20 0.10 pg/µL DBD-TX380 Sample P1-A5 10.0 0.100 10.00 6.291 07202021a_025.d 7.694	07202021a_018.d	7.694	29148C1.0R4	DBA-TX380	Sample	P1-A3	10.0	0.100	400.0	0.0025	74.91	0.2394	0.9575		
07202021a_020.d 7.694 29150 DBC-TX380 Sample P1-A4 10.0 0.100 10.0 0.1000 38.15 07202021a_021.d 7.694 29150 DBC-TX380 Sample P1-A4 10.0 0.100 10.0 0.1000 38.15 07202021a_022.d 7.694 687-2M19 0.25 g/µL DBC-TX380 Sample P1-A4 10.0 0.100 10.0 7.000 38.57 07202021a_022.d 7.694 687-2M19 0.25 g/µL DBD-TX380 Sample P1-A5 10.0 0.100 10.0 5.00 79.00 07202021a_022.1a_023.d 7.694 687-2M20 0.10 pd/µL DBD-TX380 Sample P1-A5 10.0 0.100 10.0 6.1000 5.6.05 07202021a_024.d 7.694 687-2M20 0.10 pd/µL DBD-TX380 Sample P1-A5 10.0 0.1000 6.2.91 0.2000 6.10.0 0.1000 6.2.91 0.1000 6.2.91 0720221a_025.d 7.694 687-2M20 0.10 pd/µL Ded/µL Calibration Via	07202021a_019.d	7.694	29148C1.0R4	DBA-TX380	Sample	P1-A3	10.0	0.100	400.0	0.0025	73.87	0.2361	0.9444	0.951	950
07202021a_021.d 7.694 29150 DBC-TX380 Sample P1-A4 10.0 0.100 10.0 0.1000 38.87 07202021a_022.d 7.694 687-2M19 0.25 gg/µL Calibration Vial 3 10.0 0.100 10.0 79.05 07202021a_022.d 7.694 687-2M19 0.25 gg/µL Calibration Vial 3 10.0 0.100 10.0 79.05 07202021a_022.1a 7.694 59151 DBD-TX380 Sample P1-A5 10.0 0.100 10.00 56.05 07202021a_024.d 7.694 687-2M20 0.10 pg/µL DBD-TX380 Sample P1-A5 10.0 0.100 10.00 62.291 07202021a_025.d 7.694 687-2M20 0.10 pg/µL Calibration Vial 4 10.0 0.100 0.1000 62.291	07202021a_020.d	7.694	29150	DBC-TX380	Sample	P1-A4	10.0	0.100	10.0	0.1000	38.19	0.1231	0.0123		
07202021a_022.d 7.694 687-2M19 0.25 pg/µL Calibration Vial 3 10.0 79.00 79.00 07202021a_023.d 7.694 687-2M19 0.25 pg/µL Sample P1-A5 10.0 0.100 10.0 0.1000 56.05 07202021a_024.d 7.694 29151 DBD-TX380 Sample P1-A5 10.0 0.100 10.0 0.1000 62.91 07202021a 025.d 7.694 687-2M2 0.10 pg/µL Calibration Vial 4 10.0 31.00	07202021a_021.d	7.694	29150	DBC-TX380	Sample	P1-A4	10.0	0.100	10.0	0.1000	38.87	0.1252	0.0125	0.012	
07202021a_023.d 7.694 29151 DBD-TX380 Sample P1-A5 10.0 0.100 10.0 0.1000 56.05 07202021a_024.d 7.694 29151 DBD-TX380 Sample P1-A5 10.0 0.100 10.0 0.1000 62.91 07202021a 025.d 7.694 687-2200.0 Dg/uL Calibration Vial 4 10.0 31.00	07202021a_022.d	7.694	687-2M19 0.25 pg/µL		Calibration	Vial 3	10.0				00.67				
07202021a_024.d 7.694 29151 DBD-TX380 Sample P1-A5 10.0 0.100 10.0 0.1000 62.91 07202021a 025.d 7.694 687-27720.0.10.04/L Calibration Vial 4 10.0 31.00	07202021a_023.d	7.694	29151	DBD-TX380	Sample	P1-A5	10.0	0.100	10.0	0.1000	56.09	0.1798	0.0180		
0720201a 025.d 7.694 687-2M20 0.10 pq/uL Calibration Vial 4 10.0 31.0C	07202021a_024.d	7.694	29151	DBD-TX380	Sample	P1-A5	10.0	0.100	10.0	0.1000	62.91	0.2014	0.0201	0.019	
	07202021a_025.d	7.694	687-2M20 0.10 pg/µL		Calibration	Vial 4	10.0				31.00				
Calculated LOD at 0.045 pg/µL = 14	Calculated LOD at 0.045 p	g/µL =	14												
Calculated LOQ at 0.10 pg/uL = 31	Calculated LOQ at 0.10 pg	/uL =	31												

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Compound Injection TFNA-AM 7/20/	n Date 2021			いた/た	0 1e/	Am								
08550 - Flonicamid/Onion - Fielc	Samples TX38	0 - Extracted 7/20/2021 by A	WS											
				Sample		Inj Vol	,	i wel	ins Tai	Dorn	Conc	muu	Ave	% Ber
Data File	RT	SampleName	Sample Info	Iype	VIAI POS	(hr)	51	IL VOI	fur fiu	deau	[]]]]	Indd		
07202021a_001.d	I	Condition		Sample	P1-A3	10.0								
07202021a_002.d	5.270	Condition		Sample	P1-A3	10.0								
07202021a_003.d	5.270	Condition		Sample	P1-A3	10.0								
07202021a_004.d	5.270	Condition		Sample	P1-A3	10.0								
07202021a_005.d	5.270	Condition		Sample	P1-A3	10.0								
07202021a_006.d	5.270	Condition		Sample	P1-A3	10.0								
07202021a 007.d	5.284	Condition		Sample	P1-A3	10.0								
07202021a_008.d	5.270	687-2M21 0.05 pg/µL		Calibration	Vial 5	10.0				55.89				
07202021a 009.d	5.270	687-2M20 0.10 pg/µL		Calibration	Vial 4	10.0				103.23				
07202021a_010.d	5.270	687-2M19 0.25 pg/µL		Calibration	Vial 3	10.0				301.87				
07202021a_011.d	5.256	687-2M18 0.50 pg/µL		Calibration	Vial 2	10.0				585.79				
07202021a_012.d	5.243	687-2M17 1.0 pg/µL		Calibration	Vial 1	10.0				1190.58				
07202021a_013.d		29148	DBA-TX380	Sample	P1-A1	10.0	0.100	10.0	0.1000]	<0.10	<0.01		
07202021a 014.d	1	29148	DBA-TX380	Sample	P1-A1	10.0	0.100	10.0	0.1000	l	<0.10	<0.01	<0.01	
07202021a_015.d	5.270	29148C0.01R4	DBA-TX380	Sample	P1-A2	10.0	0.100	10.0	0.1000	122.16	0.1033	0.0103		
07202021a_016.d	5.270	29148C0.01R4	DBA-TX380	Sample	P1-A2	10.0	0.100	10.0	0.1000	129.47	0.1095	0.0109	0.0106	106%
07202021a 017.d	5.270	687-2M20 0.10 pg/µL		Calibration	Vial 4	10.0				123.94				
07202021a_018.d	5.270	29148C1.0R4	DBA-TX380	Sample	P1-A3	10.0	0.100	400.0	0.0025	305.49	0.2575	1.0299		
07202021a_019.d	5.270	29148C1.0R4	DBA-TX380	Sample	P1-A3	10.0	0.100	400.0	0.0025	311.86	0.2628	1.0513	1.04	104%
07202021a 020.d	1	29150	DBC-TX380	Sample	P1-A4	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
07202021a 021.d		29150	DBC-TX380	Sample	P1-A4	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
07202021a_022.d	5.270	687-2M19 0.25 pg/µL		Calibration	Vial 3	10.0				300.87				
07202021a_023.d		29151	DBD-TX380	Sample	P1-A5	10.0	0.100	10.0	0.1000	-	<0.10	<0.01		
07202021a_024.d		29151	DBD-TX380	Sample	P1-A5	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.01	
07202021a_025.d	5.270	687-2M20 0.10 pg/µL		Calibration	Vial 4	10.0				126.98				
Calculated LOD at 0.045 p	g/µL =	53												
Calculated LOQ at 0.10 pg	/µL =	118												
"" denotes response be	low area thresh	plor												

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104%

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130

0.0500

Calibration

D:\MassHunter\Flonicamid\08550_Onion\Data\Results\07202021\0720201a_008.d

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	nevi condition	A LEXUALDED 1/20/2012 - U	1/10										
Data Elle	Ta	SampleName	Sample Info	Sample Type	Vial Pos	Inj Vol (uL)	0	nL Vol	ing Inj	Resp	Conc (pg/ µL)	mqq	A
DI DI CUCUCCO		Condition		Sample	P1-A3	10.0	•						
07202021a 002.d	5.956	Condition		Sample	P1-A3	10.0							
07202021a_003.d	5.956	Condition		Sample	P1-A3	10.0							
07202021a_004.d	5.956	Condition		Sample	P1-A3	10.0							
07202021a_005.d	5.956	Condition		Sample	P1-A3	10.0							
07202021a_006.d	5.956	Condition		Sample	P1-A3	10.0							
07202021a_007.d	5.956	Condition		Sample	P1-A3	10.0							
07202021a_008.d	5.956	687-2M21 0.05 pg/µL		Calibration	Vial 5	10.0				15.06			
07202021a_009.d	5.956	687-2M20 0.10 pg/µL		Calibration	Vial 4	10.0				32.94			
07202021a_010.d	5.942	687-2M19 0.25 pg/µL		Calibration	Vial 3	10.0				82.96			
07202021a_011.d	5.942	687-2M18 0.50 pg/µL		Calibration	Vial 2	10.0				177.30			
07202021a_012.d	5.929	687-2M17 1.0 pg/µL		Calibration	Vial 1	10.0				353.29			
07202021a_013.d		29148	DBA-TX380	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	
07202021a_014.d		29148	DBA-TX380	Sample	P1-A1	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.0
07202021a_015.d	5.969	29148C0.01R4	DBA-TX380	Sample	P1-A2	10.0	0.100	10.0	0.1000	34.81	0.1025	0.0102	
07202021a_016.d	5,969	29148C0.01R4	DBA-TX380	Sample	P1-A2	10.0	0.100	10.0	0.1000	35.97	0.1057	0.0106	0.010
07202021a 017.d	5.942	687-2M20 0.10 pg/µL		Calibration	Vial 4	10.0				37.02			
07202021a_018.d	5.956	29148C1.0R4	DBA-TX380	Sample	P1-A3	10.0	0.100	400.0	0.0025	96.55	0.2766	1.1063	
07202021a_019.d	5.956	29148C1.0R4	DBA-TX380	Sample	P1-A3	10.0	0.100	400.0	0.0025	98.84	0.2830	1.1321	-
07202021a_020.d		29150	DBC-TX380	Sample	P1-A4	10.0	0.100	10.0	0.1000	l	<0.10	<0.01	
07202021a_021.d		29150	DBC-TX380	Sample	P1-A4	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.0
07202021a_022.d	5.942	687-2M19 0.25 pg/µL		Calibration	Vial 3	10.0				85.85			
07202021a_023.d		29151	DBD-TX380	Sample	P1-A5	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	
07202021a_024.d]	29151	DBD-TX380	Sample	P1-A5	10.0	0.100	10.0	0.1000	1	<0.10	<0.01	<0.0
07202021a_025.d	5.942	687-2M20 0.10 pg/µL		Calibration	Vial 4	10.0				36.73			
Calculated LOD at 0.045 pg	/hr =	14											
Calculated LOO at 0.10 pg/i	ut =	34											

104%

112%

% Rec

Printed at: 9:21 AM on: 7/21/2021



0.1000 0.0500

15.06

LO I

Calibration

D:\MassHunter\Flonicamid\08550_Onion\Data\Results\07202021\0720201a_008.d

D:\MassHunter\Flonicamid\08550_Onion\Data\Results\07202021\0720201a_025.d

Calibration

36.73

	mL Vol							
	D							
	Inj Vol (µL)	10.0	10.0	10.0	10.0	10.0	10.0	10.0
ann	Vial Pos	P1-A3	P1-A3	P1-A3	P1-A3	P1-A3	P1-A3	P1-A3
12/12/	Sample Type	Sample	Sample	Sample	Sample	Sample	Sample	Sample
ţ,	Sample Info							
xtracted 7/20/2021 by ASt	SampleName	Condition	Condition	Condition	Condition	Condition	Condition	Condition
Samples TX380 - E	RT		7.171	7.158	7.158	7.171	7.171	7.171
Injection Date 7/20/2021 onicamid/Onion - Field	Data File	02021a_001.d	02021a_002.d	02021a_003.d	202021a_004.d	202021a_005.d	202021a_006.d	02021a 007.d
Compound TFNG 08550 - FI		072	072	072	072	072	07.	075

	רעו כאולווופר חומ	00 - FYN BCIER 1/ 50/ 5051 01 H												
				Sample		Inj Vol			1000		Conc	(acar	AVE	-
Data File	RT	SampleName	Sample Info	Type	Vial Pos	(hr)	D	mL Vol	fur 6m	Kesp	(bg/hr)	bpm	mdd	No Kec
07202021a_001.d		Condition		Sample	P1-A3	10.0								
07202021a_002.d	7.171	Condition		Sample	P1-A3	10.0								
07202021a_003.d	7.158	Condition		Sample	P1-A3	10.0								
07202021a_004.d	7.158	Condition		Sample	P1-A3	10.0								
07202021a_005.d	7.171	Condition		Sample	P1-A3	10.0								
07202021a_006.d	7.171	Condition		Sample	P1-A3	10.0								
07202021a_007.d	7.171	Condition		Sample	P1-A3	10.0								
07202021a 008.d	7.171	687-2M21 0.05 pg/µL		Calibration	Vial 5	10.0				19.97				
07202021a 009.d	7.171	687-2M20 0.10 pg/µL		Calibration	Vial 4	10.0				39.93				
07202021a_010.d	7.171	687-2M19 0.25 pg/µL		Calibration	Vial 3	10.0				89.23				
07202021a_011.d	7.158	687-2M18 0.50 pg/µL		Calibration	Vial 2	10.0				181.08				
07202021a_012.d	7.158	687-2M17 1.0 pg/pf		Calibration	Vial 1	10.0				368.18				
07202021a 013.d		29148	DBA-TX380	Sample	P1-A1	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
07202021a 014.d	ţ	29148	DBA-TX380	Sample	P1-A1	10.0	0.100	10.0	0.1000	l	<0.10	<0.01	<0.01	
07202021a 015.d	7.171	29148C0.01R4	DBA-TX380	Sample	P1-A2	10.0	0.100	10.0	0.1000	41.14	0.1080	0.0108		
07202021a 016.d	7.171	29148C0.01R4	DBA-TX380	Sample	P1-A2	10.0	0.100	10.0	0.1000	37.58	0.0983	0.0098	0.0103	103%
07202021a 017.d	7.158	687-2M20 0.10 pg/µL		Calibration	Vial 4	10.0				37.93				
07202021a_018.d	7.171	29148C1.0R4	DBA-TX380	Sample	P1-A3	10.0	0.100	400.0	0.0025	105.66	0.2854	1.1415		
07202021a 019.d	7.171	29148C1.0R4	DBA-TX380	Sample	P1-A3	10.0	0.100	400.0	0.0025	104.39	0.2819	1.1276	1.13	113%
07202021a_020.d	I	29150	DBC-TX380	Sample	P1-A4	10.0	0.100	10.0	0.1000	1	<0.10	<0.01		
07202021a_021.d	-	29150	DBC-TX380	Sample	P1-A4	10.0	0.100	10.0	0.1000		<0.10	<0.01	<0.01	
07202021a_022.d	7.171	687-2M19 0.25 pg/µL		Calibration	Vial 3	10.0				88.36				
07202021a_023.d	L	29151	DBD-TX380	Sample	P1-A5	10.0	0.100	10.0	0.1000	-	<0.10	<0.01		
07202021a_024.d	l	29151	DBD-TX380	Sample	P1-A5	10.0	0.100	10.0	0.1000	-	<0.10	<0.01	<0.01	
07202021a_025.d	7.171	687-2M20 0.10 pg/µL		Calibration	Vial 4	10.0				44.94				
Calculated LOD at 0.045	= h/pd	18												
Calculated LOQ at 0.10 p	og/hr =	38												

"----" denotes response below area threshold

-



0.0500

19.97

5

Calibration

D:\MassHunter\Flonicamid\08550_Onion\Data\Results\0720201\0720201a_008.d

ATTACHMENT C: STANDARD USE FORMS

IR-4 Western Trace Analytic	Region Labo cal Laborator	ratory and Y				Number: 601
	RE	FERENCE ST	ANDARD RI	ECEIPT	T/USE	
Chemical IK	.1-220				Standard #	687
Parent IKI-2	20				Date Receiv	ed 05/12/20
Source ¹ ISK Bi	osciences		Certifi	ed By _M	1RIGlobal	
Lot #9803			Physical	Form so	lid	
Original Exp	iration Date	² <u>11/06/23</u>	Original I	Purity ²	99.8%	
Extended Ex	piration Dat	e/Purity/Recer	tified By ³ :	•		
1)		%1		Initia	al D	ate
2)		% /		Initia	al D	ate
3)		%1	- -	Initia	al D	ate
4)		% /		Initia	al D	ate
Notes Rec'd wi	ith dry ice. AKA: H	Flonicamid. PAI stands	s for Pesticide Active	Ingredient.		
CoA Rec'd ?	Yes CoA a	nd label agree: Y	^{(es} (M)SDS:	Yes	Storage: Freeze	er
CoA Rec'd ?	Yes CoA an	nd label agree:	(es (M)SDS:	Yes	Storage: Freez	er
CoA Rec'd ? Signature	Yes CoA an Bronsen	nd label agree:	^{(es} (M)SDS:	Yes Date	Storage: Freez	er 2.0
CoA Rec'd ? Signature	Yes CoA an Bronson	nd label agree:	(M)SDS:	Yes Date	Storage: Freez	er 20
CoA Rec'd ? Signature/	Yes CoA an	Amount	(es (M)SDS: D SE RECORD Balance	Yes Date S Initial	Storage: Freeze 5/12/. Amount	er 2.0 Standard Stock #
CoA Rec'd ?	Yes CoA and Bron Series	nd label agree:	(M)SDS: D SE RECORD Balance ID	Yes Date S Initial	Storage: Freeze 5 /12 /2 Amount Left (g) 0.3249 g	er 2-0 Standard Stock #
CoA Rec'd ?	Yes CoA an Bron Son Date 5/12/20	Amount Used (g)	(M)SDS: D SE RECORD Balance ID	Yes Date S Initial BH	Storage: Freezon 5 / 12 Amount Left (g) 0.3249 g	er 20 Standard Stock #
CoA Rec'd ? Signature/ Location Freezer 6 Freezer 4 # 6	Yes CoA an Bron Ser Date 5/12/20 5/20/20	Amount Used (g) Initial	(M)SDS: E RECORD Balance ID Scroppy	Yes Date S Initial BH BH	Storage: Freeze 5 /12 /2 Amount Left (g) 0.3249 g 0.29993	2-0 Standard Stock # 687 - 1
CoA Rec'd ? Signature/ Location Freezer 6 Freezer 6 Freezer ± 6	Yes CoA an Bron Son Date 5/12/20 5/20/20 5/03/2021	nd label agree:	(M)SDS: D SE RECORD Balance ID Scroppy Scroppy	Yes Date S Initial BH BH BH	Storage: Freeze 5 /12 / Amount Left (g) 0.3249 g 0.29993 0.27488	er 20 Standard Stock # 687 - 1 687 - 2
CoA Rec'd ? Signature/ Location Freezer 6 Freezer 6 Freezer 4 4 6 Freezer 26	Yes CoA an Bronson Date 5/12/20 5/20/20 5/03/2021	nd label agree: d d d d d d d d	(es (M)SDS: D SE RECORD Balance ID Scroppy Scroppy	Yes Date S Initial BH BH Com	Storage: Freeze 5 /12 /2 Amount Left (g) 0.3249 g 0.29993 0.27488	er 2-0 Standard Stock # 687 - 1 <87 - 2
CoA Rec'd ? Signature Location Freezer 6 Freezer 6 Freezer ± 6	Yes CoA at Bron Ser Date 5/12/20 5/20/20 5/03/2021	nd label agree: D Amount Used (g) Initial 0.02497 0.02505	(M)SDS: D SE RECORD Balance ID Scroppy Scroppy	Yes Date S Initial BH BH BH	Storage: Freeze 5 /12 / Amount Left (g) 0.3249 g 0.29993 0.27488	er 20 Standard Stock # 687 - 1 687 - 2
CoA Rec'd ? Signature/ Location Freezer 6 Freezer 4 # 6 Freezer ± 6	Yes CoA at $Broase$ Date $5/12/20$ 5/20/20 5/03/2021	nd label agree:	(es (M)SDS: E RECORD Balance ID Scroppy Scroppy	Yes Date S Initial BH BH Com	Storage: Freeze 5 /12 /2 Amount Left (g) 0.3249 g 0.29993 0.29993 0.27488	er 20 Standard Stock # 687 - 1 687 - 2
CoA Rec'd ? Signature/ Location Freezer 6 Freezer 4 # 6 Freezer ± 6	Yes CoA and $Bron Sec.$ Date $5/12/20$ 5/20/20 5/03/2021	nd label agree: D	(es (M)SDS: E RECORD Balance ID Scroppy Scroppy	Yes Date S Initial BH BH Com	Storage: Freeze 5 /12 /2 Amount Left (g) 0.3249 g 0.29993 0.27488	er 2-0 Standard Stock # 687 - 1 687 - 2
CoA Rec'd ? Signature/ Location Freezer 6 Freezer 4 # 6 Freezer ± 6	Yes CoA an Bron Son Date 5/12/20 5/20/20 5/03/2021	nd label agree:	(es (M)SDS: E RECORD Balance ID Scroppy Scroppy	Yes Date S Initial BH BH Com	Storage: Freeze 5 /12 /2 Amount Left (g) 0.3249 g 0.29993 0.27488	er 20 Standard Stock # 687 - 1 687 - 2
CoA Rec'd ? Signature/ Location Freezer 6 Freezer 4 # 6 Freezer ± 6	Yes CoA at $Bron Sec.$ Date $5/12/20$ 5/20/20 5/03/2021	Amount Used (g) Initial 0.02497 0.02505	(es (M)SDS: E RECORD Balance ID Scroppy Scroppy	Yes Date S Initial BH BH Com	Storage: Freeze 5 /12 / Amount Left (g) 0.3249 g 0.29993 0.27488	Er 2.0 Standard Stock # 687 - 1 687 - 2

²Enter the original expiration date and purity and when the standard was received. ³When the standard is recertified enter the exfended expiration date, purity and company that recertified the standard.

*****Write Standard # on CoA and Original Standard Container****

Revised on: 08/21/15

Page_

IR-4 Western Region Laboratory and Trace Analytical Laboratory SOP Number: 601

REFERENCE STANDARD RECEIPT/USE

Chemical TF	NA-AM		100000-00000-0000000000000000000000000		Standard #	688
Parent IKI-2	20 (Flonicamid)	na an a		Date Received	05/12/20
Source ¹ ISK Bi	osciences		Certifie	d By M	IRIGlobal	
Lot # 0006			Physical I	form so	lid	
Original Exp	iration Date	² <u>11/19/20</u>	Original P	urity ²	99.9%	
Extended Exp 1) $11 5 2$	piration Date	e/Purity/Recer -9 %/ MR1	tified By ³ : Global	Initia	al BIH Dat	e 11/17/20
2)	1	% /		Initia	ul Dat	е
3)		% /		Initia	al Dat	
4)	/	% /		_ Initia	ul Dat	e
Notes Rec'd wi	th dry ice. AKA: 4	-Trifluoromethylnicoti	namide.			
CoA Rec'd ?	Yes CoA ar	id label agree: Y	es (M)SDS:	Yes	Storage: Freezer	
Signature	Brms	2 the	ne D	ate	5/12/2	.0
		US	SE RECORDS	3		4. <i>A</i>
Location	Date	Amount Used (g)	Balance ID	Initial	Amount Left (g)	Standard Stock #
Freezer 6	5/12/20	Initial		ßIJ	0.3035 g	
Freezer #6	5/20/20	0.02509	Scrappy	BH	0.27841	688-1
Freezer #6	5/03/21	0.02517	Scrippy	asm	0.25324	688-2

¹Enter the Registrant from the Protocol or the chemical company providing the standard.

²Enter the original expiration date and purity and when the standard was received.

³When the standard is recertified enter the extended expiration date, purity and company that recertified the standard.

*****Write Standard # on CoA and Original Standard Container*****

Revised on: 08/21/15

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R-4 Western Frace Analytic	Region Labo cal Laborator	ratory and			SOP	Number: 601
	RE	FERENCE ST	ANDARD RE	ссеірт	/USE	
C hemical TF	'NA				Standard #	689
Parent IKI-2	20 (Flonicamid)			Date Receive	i 05/12/20
Source ¹ ISK Bi	osciences		Certifie	ed By N	IRIGlobal	
Lot # 0006			Physical I	Form so	lid	
Original Exp	iration Date	² 11/17/20	— Original P	urity ²	100.0%	
Extended Exp 1) <u>11 5 2</u>	piration Date -025/100	e/Purity/Recer .0 % / MR	tified By ³ : IGIObal	. Initia	al_ <u>BH</u> _Da	te 11/17/2
2)		%/		Initia	ul Da	te
5) 1)				Initia	alDa	te
A) Rec'd w	ith drv ice. AKA: 4	-Trifluoromethylnicoti	nic acid.	Initia	al Da	
Notes	Var		/	Vaa	Excerce	
Signature	Brons	m) Hi US Amount	D SE RECORDS Balance	s	5 / 12 / 2 Amount	• Standard
Location	Date	Used (g)	ID		Left (g)	Stock #
Freezer 6	5/12/20	Initial		BH	0.3499 g	
Freezer #6	5/20/20	0.02503	Scrappy	BH	0.32487	689-1
Freezer #6	5/03/21	0.02514	Scrappy	asm	0.29973	689-2
				1		

²Enter the original expiration date and purity and when the standard was received.

³When the standard is recertified enter the extended expiration date, purity and company that recertified the standard.

*****Write Standard # on CoA and Original Standard Container*****

Revised on: 08/21/15

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IR-4 Western Region Laboratory and	SOP Number:	601
Trace Analytical Laboratory		

REFERENCE STANDARD RECEIPT/USE

Chemica	TFNG				Standard #	690
Parent	IKI-220 (Flonicamic	l) ·			Date Received	05/12/20
Source ¹	SK Biosciences		Certifie	d By C	ERI	
Lot # 20	1511		Physical I	Form so	id	******
Original	Expiration Date	² 10/31/21	Original P	urity ²	99.7%	
Extended	l Expiration Dat	e/Purity/Recert	tified By ³ :			
1)		% /	สารสารศาสตร์	Initia	l Dat	e
2)		% /	anne ann an	Initia	l Dat	e
3)		% /		Initia	Dat	e
4)		% /		Initia	l Dat	e
Notes c	ec'd with dry ice. AKA:	N-(4-trifluoromethylnico	otinoyl) glycine. CoA	did not inc	icate the original archi	val location. Will
CoA Rec'd	? Yes CoA a	nd label agree: Y	es (M)SDS:	Yes	Storage: Freezer	
Signatur	e Bronson	n Hug	D.	ate	5/12/20	
r			SE RECORDS	5		
Locat	ion Date	Amount Used (g)	Balance ID	Initial	Amount Left (g)	Standard Stock #
Freeze	r ⁶ 5/12/20	Initial		вН	0.3171 g	
Treez #6	or 5/20/20	0.02512	Scrappy	вH	0.29198	690-1
Freezer #6	5/03/21	0.02506	Scrappy	asm	0.26692	690-2
		· · · · ·				
· · · · · · · · · · · · · · · · · · ·						

¹Enter the Registrant from the Protocol or the chemical company providing the standard.

²Enter the original expiration date and purity and when the standard was received.

³When the standard is recertified enter the extended expiration date, purity and company that recertified the standard.

*****Write Standard # on CoA and Original Standard Container*****

Revised on: 08/21/15

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\sim	IR-4 Weste Trace Anal	ern Region L lytical Labor	aboratory and atory			SOP Number	: 602
			STANDARD	USE FORM	- STOCK		
	Name <u>IKI</u>	<u>-220*</u> Pu	rity99.8 %	Source MRIC	Global IS	& Biosciences	EE BH
	Date Rece	ived_05/12/	2020 Expirati	on Date11/6/	2023 Lot	#9803	11/10/24
	Stock Solu	ition:					
	0-02497 (g	, Χ <u>99.8%</u> Ρι	urity X 1000mg/§	g) /_25 _n	nL = 1.0	_mg/mL	
	Solvent: A	Acetonitrile	Storage:	Freezer		2.21	EE 01
	Stock Stan	ndard #	687-1	Expiration Date	5/20	12020	5/20/20
	Prepared b	y form	nsad Hu	Dat	e_5/20	12020	
		/		<i>O</i> ALIQUOTS			
\bigcirc	Date	mL Removed	Syringe/Pipette Size	Spike or Dilution	New Std #	Expiration Date	Initial
	5/20/20	2.5	5mh Pipetman	Ð	687-1M1	11/17/20	BH
Late Entry	- DIS 2/11/21	2.5	Smi Pipetmen	D	687-IM4	5/20/21	aem
	* Flonicar	nid					
\bigcirc	Revised on:	6/03/08				Page #	

IR-4 Western Region Laboratory and Trace Analytical Laboratory	SOP Number:	602
STANDARD USE FORM - STOCK	EE SA1/21 080	EE 11/16/21 000-
Name_IKI-220 (Floricarid) Purity_99.8 % Sour	M RE Globa l ce <u>ISK Biascia</u>	ISK Birsciences
Date Received 5/12/2020 Expiration Date 11/06/2023	Lot #9803	3
Stock Solution:		
0.02505 (g X <u>99.8 %</u> Purity X 1000mg/g) / _25mL) =	1.0 mg/mL	
Solvent <u>Acetonitrile</u> Storage: RT/R(F)Oth	ler	_
Stock Standard # 687-2 Expiration Date 5/03/20	22	
Prepared by ales Merfall Date 5/03/202	21	
ALIQUOTS		

Date	mL Removed	Syringe/Pipette Size	Spike or Dilution	New Std #	Expiration Date	Initial
5/3/21	2.5	5 mc Pipetman	D	687-2MI	11/03/21	asm

Revised on: 10/06/2020

Page #_____

1	IR-4 Weste Trace Anal	ern Region L lytical Labora	aboratory and atory			SOP Number	: 602
0			STANDARD	USE FORM	- STOCK	<i>ЕЕ</i> ВН Ш	1.6/24
	Name <u>TF</u>	NA-AM*	Purity 99.9 %	Source M	<u>RIGlobal</u> -	ISK Biosci	iences
	Date Rece	ived05/12/	2020 Expiration	on Date <u>11/19/</u>	2020 L	ot #0006	
	Stock Solu	ition:					
	0.02509 (g	X <u>99.9 %</u> P	urity X 1000mg/	g)/n	nL= <u>1.0</u>	_mg/mL	
	Solvent:	Acetonitrile	Storage:	Freezer	5/20	2021	New CoA
	Stock Stan	dard #	688-1	Expiration Date	11/19	12020	BH 2/10/21
	Prepared b	yBr	mson th	Tung Date	5/2	0/2020	
			2	ALIQUOTS			
\frown	Date	mL Removed	Syringe/Pipette Size	Spike or Dilution	New Std #	Expiration Date	Initial
	5/20/20	2.5	5 mL Pipetman	Ð	687-1M1	11/17/20	BH
Late Entry 5/3/21 april	DI 2/11/21	SCARDED	5/3/2021 all Sml Pipetman	D	687-1M4	5/20/21	asm
	* 4-triflu	oromethyli	nicotinamide				
	Revised on:	6/03/08				Page #	£

Trace Anal	ern Region L lytical Labora	aboratory and atory			SOP Number:	602
		STANDARD	USE FORM	- STOCK		
Name_T	ENA-AM	Pu	rity_ ৭৭.৭	<u>%</u> Sour	<u>FE SAH/2</u> ANRE GIDbo CC <u>ISK BiDbo</u>	toon EE II/II J ISK BID TSK BID
Date Rece	ived_5/12/	2020 Ex	piration Date	1/05/2025	Lot #	006
Stock Solu	tion:					
0.02517			/		/ -	
(g Solvent	Acetonitri	<u>%</u> Purity X 1000)mg/g)/25 Storage: RT	$\underline{mL} = \underline{mL}$	ner	L
(g Solvent Stock Stan	X <u>۹۹.۹ و</u> Ac eto مitri idard #69	<u>%</u> Purity X 1000 いっ 88-ス	mg/g)/25 Storage: RT _Expiration Dat	$mL) = _{mL}$ $F/R(F) Other o$	ו.סmg/ml	L
(g Solvent Stock Stan Prepared b	X <u>99.9</u> Acetonitri Idard # <u>69</u> y_ <i>Clesc</i>	26 Purity X 1000 31e 38-2 Montall	mg/g)/25 Storage: RT _ Expiration Dat	$mL) = _mL) = _$	<u>۱.۵ mg</u> /ml ner میک	L
(g Solvent Stock Stan Prepared b	X <u>99.9</u> Acetonitri Idard # <u>69</u> Dy <u>Clesc</u>	26 Purity X 1000 31e 88-2 M. Fall	mg/g)/25 Storage: RT _ Expiration Dat Date ALIQUOTS	$mL) = _mL) = _$	1.0 mg/ml	L
(g Solvent Stock Stan Prepared b	$\frac{Acetonitri}{Acetonitri}$ $\frac{Acetonitri}{adard \#69}$ $\frac{ML}{Removed}$	Ne Purity X 1000 Ste Ste Syringe/Pipette Size	mg/g)/ ٦٢ Storage: RT _ Expiration Dat Date ALIQUOTS Spike or Dilution	$mL) = _mL) = _$	۱.۵ mg/ml her میک کا Expiration Date	Initial

5/3/21	2.5	SML Pipetman	9	687-2MI	11/03/21	com
	· · · · ·					
		\				

Revised on: 10/06/2020

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	IR-4 Weste Trace Ana	ern Region Labora	aboratory and atory			SOP Number	602
0			STANDARD	USE FORM	- STOCK	FE BH 11/16	/2-(
	Name <u>TF</u>	NA* Puri	ty_100.0 % S	Source <u>MRIGI</u>	<u>obal</u> Is	K Bioscien	ces
	Date Rece	eived05/12/	2020 Expiratio	on Date <u>11/17/2</u>	.020 Lot	#0006	
	Stock Solu	ition:					
	0.0250 3 (g	X <u>100.0 %</u>	Purity X 1000	mg/g) /_25	mL =/	.o_mg/mL	
	Solvent:	Acetonitrile	Storage:	Freezer	5/20/	2021 No	en CoA
	Stock Star	ndard #	<u>689-1</u>	Expiration Date	11/17/	2020	BH 2/10/21
	Prepared b	y Bro	ison the	Date	5/20/	20	
				ALIQUOTS			
\frown	Date	mL Removed	Syringe/Pipette Size	Spike or Dilution	New Std #	Expiration Date	Initial
	5/20/20	2.5	5 mh Pipetman	D	687-1M1	11/17/20	B4
Lote Entry	2/11/21	DISCARDED	5/3/2021 agu 5 ml Pipetman	D	687-IM4	5/20/21	asm
	* 1 + fl.	loromathyl	picotinic acid				
	** 4- triiit	oromethyn					
	Revised on:	6/03/08			ą.	Page #	

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IR-4 Western Region La Trace Analytical Labora	aboratory and atory			S	OP Number:	602	
	STANDARD	USE FORM	- STO	СК	C. C. L. L.		= (1/16)
Name_TENA	Pu	rity_100.0	%	Source_	MRE GIGE ISK Bio	w Isk	Brose
Date Received 5/12	/2020 Ex	piration Date	105/2	1025	_ Lot # _ 22	006	
Stock Solution:							
0.02514 (g X 100.0 9	<u>%</u> Purity X 1000	0mg/g) /5	mL)	=	Omg/ml		
Solvent <u>Acetonitri</u>	le	Storage: R1	7 R (F) Other_			
Stock Standard #6	89-2	_Expiration Date	5/03	/2022			
Prepared by <u>Celes</u>	Metall	Date	5/03	5/2021			
		ALIQUOTS					
Date mL Removed	Syringe/Pipette Size	Spike or Dilution	New	v #	Expiration Date	Initial	

Date	Removed	Size	Dilution	Std #	Date	
5/3/21	2.5	5 mL Pipetman	D	687-2MI	11/03/21	asin
						0
					<i>2</i>	
,						
				×.	5	
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Revised on: 10/06/2020

Page #____

	Anal	ytical Labora	atory				
			STANDARD	USE FORM	- STOCK		
						EZ	Ĕ₿H
Name	TFN	NG* Puri	ity <u>99.7 %</u> S	Source <u>CERI</u>	ISK Bi	osciencos	
Date I	Recei	ived05/12/	2020 Expiration	on Date <u>10/31/2</u>	2021 Lot #	<u>‡ 201511</u>	
Stock	Solu	tion:					
0.02	512 g	L X 99.7% Pu	urity X 1000mg/s	g) / 25 n	nL= /.0	_mg/mL	
Solver	nt: A	cetonitrile	Storage:	Freezer			
Sonice	ited s	stock solutio	n for / mins				
Steele		dand #	(00.1	Expiration Data	5/20	12021	
Stock	Stan	dard #	090-1	Expiration Date	1	12021	
Prepar	ed by	yBro	nson Hung	Dat	e_5/20	2020	
			0	A XOXIOMO		EE	_1
				ALIQUOTS	A 687-1	MI BH 3	5/20
Dat	e	mL Removed	Syringe/Pipette Size	Spike or Dilution	A 687-1 New Std #	MI BH S Expiration Date	Ini
Dat 5/20/	e 120	mL Removed 2.5	Syringe/Pipette Size SmL Pipetman	Spike or Dilution	▲ 687-1 New Std #	MI Expiration Date	Ini B
Dat 5/20/	e /20	mL Removed	Syringe/Pipette Size 5mL Pipetman 5/3/2021 QE	Spike or Dilution	▲ 687-1 New Std # 687-15- ▲	MI BH \mathcal{B} Expiration Date $\mathcal{I}(\mathcal{I},\mathcal{I},\mathcal{I},\mathcal{I},\mathcal{I},\mathcal{I},\mathcal{I},\mathcal{I},$	Ini B
Dat 5/20/ 2/11/2	e /20 	mL Removed 2.5 DIJCARDED 2.5	Syringe/Pipette Size 5mt Pipetman 5/3/2021 Qe 5ml Pipetman	Spike or Dilution	▲ 687-1 New Std # 687-15-	M I BH 3 Expiration Date 11/17/20 5/20/21	Ini B
Dat 5/20/ 	e /20 	mL Removed 2.5 DISCARDED 2.5	Syringe/Pipette Size 5mL Pipetman 5/3/2021 at 5mL Pipetman	Spike or Dilution	△ 687-1 New Std # 687-15- [△] 687-1M4	M I BH 3 Expiration Date 11/17/20 5/20/21	Ini Bl
Dat 5/201		mL Removed 2.5 DISCARDED 2.5	Syringe/Pipette Size 5ml Pipetman 5/3/2021 at 5ml Pipetman	Spike or Dilution	△ 687-1 New Std # 687-15- [△] 687-1M4	M I BH 3 Expiration Date 11/17/20 5/20/21	Ini B
Dat		mL Removed 2.5 DE5 CARDED 2.5	Syringe/Pipette Size 5mt Pipetman 5/3/2021 at 5ml Pipetman	Spike or Dilution	△ 687-1 New Std # 687-15- [△] 687-1M4	M I BH 3 Expiration Date 11/17/20 5/20/21	Ini B)
Dat	e /20 	mL Removed 2.5 Dr.5 CARDED 2.5	Syringe/Pipette Size 5ml Pipetman 5/3/2021 QE 5ml Pipetman	ALIQUOTS Spike or Dilution D D D	△ 687-1 New Std # 687-15- △ 687-1M4	M I BH 3 Expiration Date 11/17/20 5/20/21	Ini β
Dat	e /20 	mL Removed 2.5 Dr.5 CARDED 2.5	Syringe/Pipette Size 5ml Pipetman 5/3/2021 QE 5ml Pipetman	ALIQUOTS Spike or Dilution D D D	△ 687-1 New Std # 687-15- △ 687-1M4	M I BH 3 Expiration Date 11/17/20 5/20/21	[Ini β]
Dat	e /20 	mL Removed 2.5 Dr.5 CARDED 2.5	Syringe/Pipette Size 5ml Pipetman 5/3/2021 QE 5ml Pipetman	ALIQUOTS Spike or Dilution D D D	△ 687-1 New Std # 687-15- △ 687-1M4	M I βH 3 Expiration Date 11/17/20 5/20/21	

		STANDARD	USE FORM	- STOCK	EE 5/11/21	ee 11/1
Name	TFNG	Pu	rity99-7_	<u>%</u> Sou	rce I SK Bros	Teres I
Date Rec	eived 5/12	/2020 Ex	piration Date	10/31/202	ر Lot # <u>م</u>	51511
Stock Sol	ution.					
	ution.					
(g	X 99.7	<u>%</u> Purity X 1000	mg/g)/25	mL) =	1.0 mg/m	L
Solvent _	Acetonit	rile	Storage: R	Γ/ R (F) Otl	ner	
Stock Sta	ndard #	590-2	Expiration Dat	e 10/31/2	(COA)	
		n , C , n	_ 1	5/07/07	ובמ	
Prepared	by ally	Midall	Date	<u> </u>	Earm	
			ALIQUOTS		5/3/21	
Date	mL	Syringe/Pipette	Spike or	New	Expiration	Initial
Date	mL Removed	Syringe/Pipette Size	Spike or Dilution	New Std #	Expiration Date	Initial
Date	mL Removed 2.5	Syringe/Pipette Size	Spike or Dilution	New Std # 687-2m1	Expiration Date	Initial oon
Date	mL Removed 2.5	Syringe/Pipette Size	Spike or Dilution	New Std # 687-2m1	Expiration Date	Initial com
Date 5/3/21	mL Removed 2.5	Syringe/Pipette Size	Spike or Dilution	New Std # 687-2m1	Expiration Date	Initial com
Date	mL Removed 2.5	Syringe/Pipette Size	Spike or Dilution	New Std # 687-2m1	Expiration Date	Initial com
Date	mL Removed 2.5	Syringe/Pipette Size	Spike or Dilution	New Std # 687-2m1	Expiration Date	Initial com
Date	mL Removed 2.5	Syringe/Pipette Size 5 ml Pipetman	Spike or Dilution	New Std # 687-2m1	Expiration Date	Initial com
Date	mL Removed 2.5	Syringe/Pipette Size 5 ml Pipetman	Spike or Dilution	New Std # 687-2m1	Expiration Date	Initial oom
Date	mL Removed 2.5	Syringe/Pipette Size 5 ml Pipetman	Spike or Dilution	New Std # 687-2m1	Expiration Date	Initial ozn
Date	mL Removed 2.5	Syringe/Pipette Size 5 ml Pipetman	Spike or Dilution	New Std # 687-2m1	Expiration Date	Initial ozv.

Revised on: 10/06/2020

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	laitials			abur.	B	Leven	am	alm	Cednar	Offer		Cadory	CAN	さ			
	Storage	RT/ R/F/ O		Ч	Н	Ч	L	Ľ	¥	2	Ч	ح	ч	wi to			
5	Exp. Date			5/20/21	5/20/21	5/20/21	12/02/5	12/02/5	5/6/21	5/6/21	5/6/21	5/6/21	516 121	r ced'd			
	JUSVIOL			ACN	ACN	ACN	ACN	Acu	0*	* *	▽*	⊲ *	∆ *	rcine	mage 1		
OP Number	New Std#			D 687-2MT	687-2M2	687-2M3	1002-289	Smot- +89 Smi	SMI-782	2012-289 01111	8x12-239	5×17-289	0001	cotinoyl) gly	4+ 5/03/2	Page	
S	Final Conc.			100µg/mL	10µg/mL	1.0µg/mL	Jm/gu(01.0	0.010,ug/ml	1.093/146	0.5 pg/pul	0.25 pg/ml	0.1 pg/mr	0.05 pg/ml	romethylnic		5/3/3/2 45 LE 45 LE	
	Final Vol (mL)			25	25	25	52	25	25	2.5	75	25	25	-trifluo			
	of Ids		mL		2.5	2.5	2.5	5.2	2.5	1.25	0.625	0.250	0.125	** N-(4		adm	
ILUTIONS	Mixture Compoun	Mixed	Std#		687-2MT	1.M5 687-2,M2	1m6 687-3m3	Hyde-289 Emi	SME-289	sure-t89	5472-289	SW2-289	5x12-239 8m1	nic acid, ***	اد: ناماد	14 22/h	
M - D	pui	* *	mL	2.5	0	_							- 11	Inicotii	HUNDER		
USE FOH	Compou 4	TFNG*:	Std#	690-1										loromethy	5:45	LE abri	
DARD	pun	* *	mL	2.5										4-trifl	4	*	
STAN	Compo 3	TFNA'	Std#	689-1										mide, ***		121	
pr	pui	M**	mL	2.5										icotina		&m 5/3	\$
boratory ar ory	Compou 2	TFNA-A	Std#	688-1				×						romethyln		g G	TA A
ion Lal	pu	*	mL	2.5										-trifluo)20	
Vestern Reg Analytical I	Compour 1	IKI-220	Std#	687-1										icamid, **4. =Acetonitrile		d on: 05/12/20	
IR-4 \ Trace	Date	Year 2021		11/10	3/11	וו/ד	4122	4/22						*Flon		Revise	

IR-4 Western Region Laboratory, University of California, Davis

602 SOP Number:

> IR-4 Western Region Laboratory and Trace Analytical Laboratory

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Storage	RT/ R/F/ O		Ľ.	ц	ц	Ľ.	ί Γ	ί τ ,
Exp. Date			5/06/21	5/06/21	5/06/21	5/06/21	5/06/21	5/06/21
Solvent			Δ	Φ	Δ	Δ	Δ	Δ
New Std#			111.087- B	11-15687- 2MT2	111-1687- 2MT3	11-15-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	111-1587- 23445	1
Final Conc.			1.0 pg/μL	0.50 pg/µL	0.25 pg/µL	0.10 pg/µL	0.05 pg/µL	1.0 pg/μL
Final Vol. (mL)			25	25	25	25	25	25
ure	ed	mL	2.5	1.25	0.625	0.250	0.125	2.5
Mixt	Mix	Std#	687- 2)45	687- 2M5	687- 2M5	687- 2M5	687- 2M5	687- 2M5
punc	* * *	mL	SWI	-)
Compe 4	TFNG	Std#						
punc	* *	mL						
Compo 3	TFNA	Std#						
punc	4M**	mL						
Comp 2	TFNA-	Std#						
ound	20*	mL						
Comp 1	IKI-2	Std#						
Date	Year 2021		4127	47/2	444	5-17	£2/h	4/28

* NOTE; Entire sheet completed as late entry 4/29/21 about

Revised on: 6/03/08

 Δ 5:95 Acetonitrile: Water

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SOP Number:

Trace	Analytical	Labora	tory		STAN	NDARD	USE FO	RM - D	NOLLULION	S							
Date	Compou	pun	Compc 2	punc	Comp. 3	puno	Compc 4	pune	Mixture Compou	of nds	Final Vol (mL)	Final Conc.	New Std#	tnavlo2	Exp. Date	Storage	Initials
Year 2020	IKI-22	* 0	TFNA-/	AM**	TFNA	***	TFNG	* * *	Mixe	p						RT/ R/F/ O	
	Std#	mL	Std#	mL	Std#	mL	Std#	mL	Std#	mL							
5/20	687-1	2.5	688-1	2.5	689-1	2.5	690-1	2.5			25	100µg/mL	687-1M1	ACN	11/17/20	Ц	НЯ
120									687-1M1	2.5	25	10µg/mL	687-1M2	ACN	11/17/20	ĹĿ.	BH
0/20									687-1M2	2.5	25	1.0µg/mL	687-1M3	ACN	11/17/20	ĹĿ,	BH
07/0																	
		_		_													
*Flor ACN		4-triflu ile	loromethy	Inicotin	amide, *	**4-trif	luorometh	iylnicot	inic acid, *')-N ***	4-triflu	oromethyln	icotinoyl) gl	ycine			

Revised on: 05/12/2020

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IR-4 Western Region Laboratory and Trace Analytical Laboratory

lnitials			Cen	OBW	WARD	Can	OBW		
Storage	RT/ R/F/ O		ίL.	н	F	Ľ,	ίĽι		
Exp. Date			10/31/21	10/31/21	10/31/21	10/31/21	10/31/21		
Solvent			ACN	ACN	ACN	ACN	ACN		
New Std#			687-2M1	687-2M2	687-2M3	687-2M4	687-2M5		
Final Conc.			100 μg/mL	10 μg/mL	1.0 μg/mL	0.10 μg/mL	0.010 μg/mL		
Final Vol. (mL)			25	25	25	25	25		
Ire	pa	mL		2.5	2.5	2.5	2.5		
Mixtu	Mixe	Std#		687- 2M1	687- 2M2	687- 2M3	687- 2M4		
punc	* * *	mL	2.5						
Compe 4	TFNG	Std#	690-2						
punc	***	mL	2.5						
Compo 3	TFNA	Std#	689-2						
ound	AM**	mL	2.5						
Comp 2	TFNA	Std#	688-2						
ound	20*	mL	2.5						
Comp 1	IKI-2	Std#	687-2						
Date	Year 2021		5/03	5/03	5/03	5/03	5/03		

Revised on: 6/03/08

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IR-4 Western Region	Laboratory,	University	of California,	Davis
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IR-4 Western Region Laboratory and Trace Analytical Laboratory

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STANDARD USE FORM - DILUTIONS

Initials			Odm	Com	am	Germ	Cerm
Storage	RT, R/F O		Ц	ц	L.	Ľ	L
Exp. Date			12/21/5	12/81/5	5/18/21	(2/8/2)	5/18/21
Solvent			Δ	Δ	γ	Δ	ν
New Std#			687-2M6	687-2M7	687-2M8	687-2M9	687- 2M10
Final Conc.			1.0 pg/μL	0.50 pg/µL	0.25 pg/µL	0.10 pg/µL	0.05 pg/µL
Final Vol. (mL)			25	25	25	25	25
ure	ed	mL	2.5	1.25	0.625	0.250	0.125
Mixt	Mix	Std#	687- 2M5	687- 2M5	687- 2M5	687- 2M5	687- 2M5
punc	* * *	mL					
Compo 4	TFNG	Std#					
ound	***\	mL					
Comp 3	TFNA	Std#					
punc	AM**	mL					
Comp 2	TFNA-	Std#					
puno	220*	mL					
Comp 1	IKI-2	Std#					
Date	Year 2021		40/5	ho/S	40/5	40/5	5 /or

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Revised on: 6/03/08

 Δ 5:95 Acetonitrile: Water

IR-4 Western Region Laboratory and Trace Analytical Laboratory

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SOP Number:

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adu Initials RT/ R/F/ O Storage L 5/25/21 Exp. Date Solvent \triangleleft New Std# 687-2M11 Final Conc. 1.0 pg/µL (mL) Final Vol. 25 STANDARD USE FORM - DILUTIONS mL 2.5 Mixture Mixed Std# 687-2M5 Compound mL TFNG**** 4 Std# Compound mL TFNA*** 3 Std# TFNA-AM** mL Compound 2 Std# mL Compound IKI-220* Std# 5/11 5/0 66 am 5/m/21 Date Year 2021

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*Flonicamid, **4-trifluoromethylnicotinamide, ***4-trifluoronicotinic acid, ****N-(4-trifluoromethylnicotinoyl) glycine

Δ 5:95 Acetonitrile: Water

Revised on: 6/03/08

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SOP Number:

IR-4 Western Region Laboratory and Trace Analytical Laboratory **STANDARD USE FORM - DILUTIONS**

Conr adm -mae -5 UNRO ABUM Ser adm S Initials RT/R/ F/O Storage L L L 1 12 L 11 11 11 11 6/2/2/ 8103/2-1 6/2/21 6/2/21 1 1/ EO/8 8/03/21 8/03/21 8/03/21 6/2/21 6/2/21 Exp. Date Solvent 4 4 4 ٩ ٩ 4 4 < 4 ۵ 81NE-239 EINE- 189 PIME- 189 0-1-VL- 689 EIN2-289 0.05 pg/m2-289 Jul/82 20.0 EINE- 683 / 74/ 8005.0 1-EWE- 289 PINE- 733 14/8920.0 51WZ-289 New Std# 0.5098/46 0.05 85/2010 71/8052.0 0-1085/146 1.0P8/ml Jul/881.0 1.098/201 Final Conc. Final Volume (mL)52 52 52 SC 52 25 Se 25 35 Sic 0.2.50 529:0 0.125 529.0 SWT-E89 0.250 0.125 5.6.1 mL 687-2M5 1.25 2.2 2.5 Compound * Mixed SWIT-189 SWZ-289 ent-tas SWI-189 SWC-289 SWZ-289 4 SMC- +89 Swit-tas Std# Compound 3 mL Std# Compound 2 mL Std# mL Compound Std# 12/02/2 5/12/21 1-c/ac/ E 12/ar/2 12/ac/2 5/19/21 5/19/2 5/19/21 12/00/2 Date 5/19/21

* Mix of Flowbowid, TFNA-AM, TFNA, and TFNG.

si ce < Δ 5:95 Acedonitrile: water 11/15/21 am Revised on: 6/03/08

5/19/21 abun

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ATTACHMENT D: CERTIFICATES OF ANALYSIS



MRIGlobal 425 Volker Boulevard Kansas City, Missouri 64110 Telephone (816) 753-7600 Telefax (816) 753-5519

Certificate of Analysis

IKI-220 PAI, Lot No. 9803

Original data and GLP reserve sample are archived under MRIGlobal Project No. 310260.01.203.09.

Data Requirement

Good Laboratory Practice Standards of the U.S. Environmental Protection Agency's Federal Insecticide, Fungicide and Rodenticide Act (40 CFR Part 160).

Performing Laboratory

MRIGlobal 425 Volker Boulevard Kansas City, Missouri 64110

Compound Identification Common Names: **IUPAC** Chemical Name: CA Chemical Name: Empirical Formula: Molecular Weight: CAS Number: Structure:

IKI-220 PAI; Flonicamid

N-(cyanomethyl)-4-(trifluoromethyl)nicotinamide N-(cyanomethyl)-4-(trifluoromethyl)-3-pyridinecarboxamide C9H6F3N3O 229.17 158062-67-0

Study Sponsor

Ishihara Sangyo Kaisha, Ltd.

Osaka 550-0002 JAPAN

3-15 Edobori 1-Chome, Nishi-ku

On 5/12/20 Rec'd with Std. Std # 687 ct 5/12/20 **Biosciences Business Headquarters**



Experimental Techniques

Purity was determined using HPLC purity profiling methodology. Water content was determined using Karl Fischer titrimetry. Identity was previously verified using direct infusion mass spectrometry.

Quality

Purity (%): Water Content (%): Identity (Direct Infusion): HPLC Analysis Date: Storage Conditions: **Expiration Date:**

 $99.8 \pm 0.0\%$ (w/w) $0.04 \pm 0.00\%$ (n = 2) Confirmed November 6, 2018 Frozen November 6, 2023

Approved: und OU Candice C. Dillon, Study Director

MRIGlobal

Date:



MRIGlobal 425 Volker Boulevard Kansas City, Missouri 64110 Telephone (816) 753-7600 Telefax (816) 753-5519

Certificate of Analysis

TFNA-AM, Lot No. 0006

Original data and GLP reserve sample are archived under MRIGlobal Project No. 310260.01.177.04.

Data Requirement

Good Laboratory Practice Standards (40 CFR Part 160) of the U.S. Environmental Protection Agency's Federal Insecticide, Fungicide, and Rodenticide Act.

Performing Laboratory

Study Sponsor

MRIGlobal 425 Volker Blvd Kansas City, MO 64110

Compound Identification

Common Name **IUPAC** Chemical Name **Empirical Formula** Molecular Weight: CAS Number: Lot No.

Structure:

TFNA-AM 4-Trifluoromethylnicotinamide C:HsF3N2O 190.12 158062-71-6 0006



Ishihara Sangyo Kaisha, Ltd. **Biosciences Business Headquarters** 3-15 Edobori 1-Chome, Nishi-ku Osaka 550-0002 JAPAN

On 5/12/20 Reid with std. Std# 688 CT 5/12/20

Experimental Techniques

Purity was determined using HPLC impurity profiling methodology Structure was previously verified by Fourier transform infrared spectroscopy.

Quality

Purity (%) Identity Storage Conditions: Date of HPLC Analysis: Expiration Date:

Approved:

Paul J. Weller, Study Director Program Manager **MRIGlobal**

99.9 ± 0.0 % Confirmed (FT-IR) Frozen (- -20°C) November 19, 2015 November 19, 2020

Date fransary 5, 2016



<u>MIRIGIcibal</u> 425 Volker Bouleyard Kansas City, Missouri 64110 Telephone (816) 753-7600 Telefax (816) 753-5519

Certificate of Analysis

TFNA-AM, Lot No. 0006

Original data and GLP reserve samples are archived under MRIGlobal Project No. 310260.01,225.02.

Study Sponsor

Ishihara Sangyo Kaisha, Ltd.

Osaka 550-0002 JAPAN

Biosciences Business Headquarters

3-15 Edobori 1-Chome, Nishi-ku

Data Requirement

Good Laboratory Practice Standards of the U.S. Environmental Protection Agency's Federal Insecticide, Fungicide and Rodenticide Act (40 *CFR* Part 160).

Performing Laboratory

MRIGlobal 425 Volker Boulevard Kansas City, Missouri 64110

Compound Identification Test Substance:

Common Name: IUPAC Chemical Name: Empirical Formula: Molecular Weight: CAS Number: Structure:

TFNA-AM Lot No. 0006

TFNA-AM 4-Trifluoromethylnicotinamide C7H5F3N2O 190.12 158062-71-6

CONH₂

Rei'd by e-mail on 11/17/20

std # 688

BI4 11/17/20

Experimental Techniques

Percent purity was determined using high performance liquid chromatography (HPLC) methodology. Identity was previously confirmed using Fourier transform infrared (FT-IR) spectroscopy.

Quality

Percent Purity: Identity (FT-IR): HPLC Analysis Date: Storage Conditions: Expiration Date: 99.9 ± 0.0% (w/w) Confirmed November 5, 2020 Frozen (~ -20°C) November 5, 2025 TRUE COPY OF OF AL

Approved: Condiel llou Candice C. Dillon, Study Director MRIGlobal

Date: 11/10/2020



MRIGlobal 425 Volker Boulevard Kansas City, Missouri 64110 Telephone (816) 753-7600 Telefax (816) 753-5519

Certificate of Analysis

TFNA, Lot No.0006

Original data and GLP reserve sample are archived under MRIGlobal Project No. 310260.01.177.01

Data Requirement

Good Laboratory Practice Standards (40 CFR 160) of the U.S. Environmental Protection Agency's Federal Insecticide, Fungicide and Rodenticide Act

Performing Laboratory

Study Sponsor

MRIGlobal 425 Volker Blvd Kansas City, MO 64110

Ishihara Sangyo Kaisha, Ltd. **Biosciences Business Headquarters** 3-15 Edobori 1-Chome, Nishi-ku Osaka 550-0002 JAPAN

Compound Identification

Common Name: **IUPAC** Chemical Name Empirical Formula: Molecular Weight: CAS Number: Lot No .:

Structure:

TFNA 4-TrifluoromethyInicotinic acid C-H4F1NO2 191.11 158063-66-2

0006

COOH

CF.

Read with Std on 5/12/20

Std# 689 CT 5/12/20

Experimental Techniques

Purity was determined using HPLC purity profiling methodology Identity was previously determined using Fourier transform infrared spectroscopy

Quality

Purity (%a): Identity Storage Conditions. Date of HPLC Analysis Expiration Date:

100.0 ± 0.0 % Confirmed (FT-IR) Frozen (- -20°C) November 17, 2015 November 17, 2020

Approved: 7

Paul J. Weller, Study Director Program Manager MRIGlobal

farmary 5, 2016 Date:



<u>MIRIGIc bal</u> 425 Volker Boulevard Kansas City, Missouri 64110 Telephone (816) 753-7600 Telefax (816) 753-5519

Certificate of Analysis

TFNA, Lot No. 0006

Original data and GLP reserve samples are archived under MRIGlobal Project No. 310260.01.225.01.

Data Requirement

Good Laboratory Practice Standards of the U.S. Environmental Protection Agency's Federal Insecticide, Fungicide and Rodenticide Act (40 *CFR* Part 160).

Study Sponsor

Ishihara Sangyo Kaisha, Ltd.

Osaka 550-0002 JAPAN

Biosciences Business Headquarters

3-15 Edobori 1-Chome. Nishi-ku

Performing Laboratory

MRIGlobal 425 Volker Boulevard Kansas City, Missouri 64110

Compound Identification Test Substance:

Common Name: IUPAC Chemical Name: Empirical Formula: Molecular Weight: CAS Number: Structure: TFNA Lot No. 0006

TFNA 4-Trifluoromethylnicotinic acid C₇H₆F₃NO₂ 191.11 158063-66-2



std # 689 Reald by e-mail on 11/17/20

BH 11/17/20

Experimental Techniques

Percent purity was determined using high performance liquid chromatography (HPLC) methodology. Identity was previously confirmed using Fourier transform infrared (FT-IR) spectroscopy.

Quality

Percent Purity: Identity (FT-IR): HPLC Analysis Date: Storage Conditions: Expiration Date:

100.0 ± 0.0% (w/w) Confirmed November 5, 2020 Frozen (~ -20°C) November 5, 2025

Approved: Candicul Candice C. Dillon, Study Director MRIGlobal

Date: 11 110 2020



5. Analytical result

Component	Purity (%)	Analytical method
TFNG	99.7 (%RSD=0.00, n=3)	High-performance liquid chromatography (HPLC)

Date of analysis 6.

November 1, 2018 October 31, 2021

Frozen

7. Expiration date 8.

Storage condition 9. GLP compliance

- This study was conducted in accordance with;
 - a) Notification on the Good Laboratory Practice for Agricultural Chemicals "(Annex) The Standards for the Good Laboratory Practice (GLP) for Agricultural Chemicals" (October 1, 1999, No. 11-Nousan-6283; latest revision; October 31, 2016, No. 28-Syouan-3225)
 - b) OECD Principles of Good Laboratory Practice, November 26, 1997, ENV/MC/CHEM (98)17

Chemicals Evaluation and Research Institute, Japan, Kurume

Date:

November 12, 2018 1. . M. Study Director Signature:

Yoichi Watanabe

Attachment 4

Checklist for Review of Analytical Summary Reports

Checklist for Review of Analytical Summary Reports

PR #:

Active Ingredient/Crop:

	Yes	No	NA	Notes
1)Sample Preparation				
1.1 For each sample, was the full sample ground, and mixed thoroughly?				
2)Instrument Condition				
2.1 For GC/MS, are tune files or other appropriate				
documentation available for each run, to show that the				
instrument was in good working order at the time the run				
was made?				
If 2.1 is no, or if the analyst has concerns regarding				
the instrument condition, the LRD must be consulted. Was				
the LRD consulted?				
2.2 For other detectors, was the instrument in good				
working order for each run? The answer to this question				
will rely on the analyst's professional judgment and will				
include an evaluation of appropriate data obtained				
throughout the study, for example, the standard curve, the				
peak retention times, the area counts of the standards and				
the signal to noise ratio. Note what data was considered.				
If 2.2 is no, or if the analyst has concerns regarding				
the instrument condition, the LRD must be consulted. Was				
the LRD consulted?				

NA Notes												
No												
Yes												
	3)Analysis	3.1 Is the peak of interest distinct on each chromatogram? (No shoulder peaks on the peak of interest and no interfering peaks.)	3.2 Is the S/N ratio adequate? For example, when viewing the chromatograms for the standards through the course of the study, are there any runs where the S/N ratio has	dropped significantly? A low S/N ratio is a concern. The answer to this question will rely on the analyst's professional judgment.	If 3.2 is no, or if the analyst has concerns regarding a change in S/N ratio during a study, the LRD must be consulted. Was the LRD consulted?	3.31 Are recoveries during method validation comparable to the recoveries in the reference method? (When the average recoveries are compared, the difference is <20%. Spot check the data, detailed calculations are not needed)	3.32 Are concurrent recoveries during analysis comparable to those seen in method validation? (When the average recoveries are compared the difference is <15%. Spot check the data, detailed calculations are not needed)	3.4 Did the r-squared value remain consistent during method validation and analysis of samples (Range ≤ 0.02)?	If 3.4 is no, what is the range of the r-squared values? Provide an explanation.	3.5 Are there manual integrations?	If 3.5 is yes, were any standards manually integrated?	If 3.5 is yes, is a reason provided in the ASR?

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	Yes	No	NA	Notes
3.61 Were duplicate injections used for concurrent fortifications?				
If 3.61 is yes, were duplicate injections within 30% of each other?				
3.62 Were duplicate injections used for unknowns?				
If 3.62 is yes, were duplicate injections within 30%				
4)Results				
4.1 Are control values non-detectable?				
If 4.1 is no, are they $<20\%$ of the highest residue value? (860 1340 n 2)				
If 4.1 is no, is this noted in the ASR and the				
pertinent chromatograms included?				
4.21 Are method validation recoveries and concurrent				
recoveries consistently >100%? (860.1340, p.2)				
4.22 For method validation and concurrent recoveries, is the CV (defined as the standard deviation/average) <20%?				
(860.1340, p.3)				

	AA	Notes
5)Analytical Summary Report		
5.1 Were any samples re-extracted and rerun?		
If 5.1 is yes, was the LRD consulted? The LRD		
judgment calls, for example, samples with unexpectedly		
high or low residue results, or a need for manual integration.)		
If 5.1 is yes, was the study director notified? (If the		
situation is covered in an SOP i.e. samples needing		
location was incorrect for injection, document in the study		
file. The study director does not need to be notified). If		
answer to this question is no, please note why.		
If 5.1 is yes, is there information explaining the		
situation and its resolution in the ASR?		
5.2 Is there documentation in the raw data regarding any		
unexpected circumstances during the run?		
If 5.2 is yes, was the LRD consulted? The LRD		
needs to approve judgment calls, for example, samples		
with unexpectedly high or low residue results, or a need for		
If 5.2 is yes, was the study director notified? (If the		
bower failure or the vial location was incorrect for		
injection, the study director does not need to be notified).		
If answer to this question is no, please note why.		
If 5.2 is yes, is there information explaining the		
situation and its resolution in the ASR?		
If 5.2 is yes, are chromatograms of samples with		
unusual or inconsistent results included in the ASR?		
(860.1000, p.18)		

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	Yes	No	NA	Notes
5.3 Are standard curves and peak heights/areas for all standards available in the ASR for each run? (860.1000, p. 18)				
If 5.3 is no, please attach a copy of any missing standard curves with peak heights/areas, so the study director may add them as an appendix to the final report.				
5.4 Are the dates the test compounds (standard solutions) were prepared included in the ASR? ($860.1500, #3$, p. 37)				
If 5.4 is no, please include this information with this checklist (A copy of the standards prep form(s) is fine).				
5.5Are all residue values reported in the ASR bracketed by the standard curve?				
If 5.5 is no, was the study director contacted?				

Analytical Summary Report Reviewed by:

Signature

Date