

## Cover Page

**Order ID :** Q1664

**Project ID :** RFP 905

**Client :** Weston Solutions, Inc.

### Lab Sample Number

Q1664-01  
Q1664-02  
Q1664-03  
Q1664-04  
Q1664-05  
Q1664-06  
Q1664-07  
Q1664-08  
Q1664-09  
Q1664-10  
Q1664-11  
Q1664-12  
Q1664-13  
Q1664-14  
Q1664-15  
Q1664-16  
Q1664-17  
Q1664-18  
Q1664-19  
Q1664-20  
Q1664-21  
Q1664-22

### Client Sample Number

P001-BBDGA-001-01  
P001-BBDGA-001-01MS  
P001-BBDGA-001-01MSD  
P001-BBDGA-001-01  
P001-BBDGA-001-01MS  
P001-BBDGA-001-01MSD  
P001-BBDGA-001-02  
P001-BBDGA-001-02  
P001-BBDGA-002-01  
P001-BBDGA-002-01  
P001-BBDGA-003-01  
P001-BBDGA-003-01  
P001-BBDGA-004-01  
P001-BBDGA-004-01  
P001-BBDGA-005-01  
P001-BBDGA-005-01  
P001-BBDGA-006-01  
P001-BBDGA-006-01  
P001-BBDGA-007-01  
P001-BBDGA-007-01  
P001-BBDGA-008-01  
P001-BBDGA-008-01

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : \_\_\_\_\_

Date: 4/7/2025

## **CASE NARRATIVE**

**Weston Solutions, Inc.**

**Project Name: RFP 905**

**Project # N/A**

**Chemtech Project # Q1664**

**Test Name: SPLP BNA**

### **A. Number of Samples and Date of Receipt:**

22 Solid samples were received on 03/27/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Mercury, Metals ICP-TAL, METALS TAL+CN, PCB, Pesticide-TCL, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP ICP Metals, SPLP Mercury, SPLP PCB, SPLP Pesticide, SPLP VOA, SPLP ZHE Ext, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for SPLP BNA.

### **C. Analytical Techniques:**

The samples were analyzed on instrument BNA\_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SPLP BNA was based on method 8270E and extraction was done based on method 3541.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for P001-BBDGA-005-01 [2,4 and 6-Tribromophenol - 138%], as per method two surrogates are allowed to failed, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q1664-05MS} with File ID: BG064135.D recoveries met the requirements for all compounds except for 1,4-Dioxane[30%], 2,3,4,6-Tetrachlorophenol[122%], 2,4,5-Trichlorophenol[123%], 2,4,6-Trichlorophenol[123%] and Hexachlorocyclopentadiene [230%], due to matrix interference, no corrective action is required.

The MSD {Q1664-06MSD} with File ID: BG064136.D recoveries met the acceptable requirements except for 1,2,4,5-Tetrachlorobenzene[103%], 1,4-Dioxane[32%], 2,3,4,6-Tetrachlorophenol[129%], 2,4,5-Trichlorophenol[125%], 2,4,6-Trichlorophenol[127%], Atrazine[164%], Hexachlorocyclopentadiene[240%] and Nitrobenzene[114%], due to matrix interference, no corrective action is required.

The RPD met criteria .

The Blank Spike for {PB167393BS} with File ID: BG064173.D met requirements for all samples except for 2,4,5-Trichlorophenol[107%], 2-Nitrophenol[118%], 3+4-Methylphenols[109%], 4,6-Dinitro-2-methylphenol[133%], Atrazine[135%], Butylbenzylphthalate[108%] and Hexachlorocyclopentadiene[230%], The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration (8270-BG030525.M) for Benzoic acid, 2,6-Dinitrotoluene, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, Butylbenzylphthalate, these compounds are passing on Linear Regression and 2-Nitrophenol, 2-Nitroaniline, are passing on Quadratic regression.

The Continuous Calibration File ID BG064130.D met the requirements except for Hexachlorocyclopentadiene, The associate samples have no positive hit for this compound therefore no corrective action was taken. .

The Continuous Calibration File ID BG064164.D met the requirements except for 2,4-Dinitrophenol, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol and Hexachlorocyclopentadiene, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

**E. Additional Comments:**

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

**F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

---



284 Sheffield Street, Mountainside, NJ 07092  
Phone: 908 789 8900 Fax: 908 789 8922

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature\_\_\_\_\_



## DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value | If the result is a value greater than or equal to the detection limit, report the value                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| U     | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.                                                                                                                                                                                                                                 |
| ND    | Indicates the analyte was analyzed for, but not detected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| J     | Indicates an estimated value. This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| B     | Indicates the analyte was found in the blank as well as the sample report as “12 B”.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| E     | Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| D     | This flag identifies all compounds identified in an analysis at a secondary dilution factor.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| P     | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.                                                                                                                                                                                                                                                                                                                        |
| N     | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.                                                                                                                                                                                                                  |
| A     | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Q     | Indicates the LCS did not meet the control limits requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

# **ALLIANCE** 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

## **GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY**

CHEMTECH PROJECT NUMBER: Q1664

MATRIX: Solid

METHOD: 8270E/3541

|                                                                                                                                                                                                                                                                                                                                    | NA | NO | YES |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)                                                                                                                                                                                                                                                   |    |    | ✓   |
| 2. GC/MS Tuning Specifications. DFTPP Meet Criteria.<br>(NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP,<br>CLP AND NJ)                                                                                                                                                                                                     |    |    | ✓   |
| 3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for<br>8000 Series.                                                                                                                                                                                                                               |    |    | ✓   |
| 4. GC/MS Calibration - Initial Calibration performed within 30 days before sample<br>analysis and continuing calibration performed within 24 hours of sample analysis for<br>600 series and 12 hours for 8000 series.                                                                                                              |    |    | ✓   |
| 5. GC/MS Calibration Requirements.                                                                                                                                                                                                                                                                                                 |    | ✓  |     |
| The % RSD is greater than 20% in the Initial Calibration (8270-BG030525.M) for Benzoic acid, 2,6-Dinitrotoluene, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, Butylbenzylphthalate, these compounds are passing on Linear Regression and 2-Nitrophenol, 2-Nitroaniline, are passing on Quadratic regression. |    |    |     |
| The Continuous Calibration File ID BG064130.D met the requirements except for Hexachlorocyclopentadiene, The associate samples have no positive hit for this compound therefore no corrective action was taken. .                                                                                                                  |    |    |     |
| The Continuous Calibration File ID BG064164.D met the requirements except for 2,4-Dinitrophenol, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol and Hexachlorocyclopentadiene, The associate samples have no positive hit for these compounds therefore no corrective action was taken.                                                 |    |    |     |
| 6. Blank Contamination - If yes, list compounds and concentrations in each blank:                                                                                                                                                                                                                                                  |    |    | ✓   |
| 7. Surrogate Recoveries Meet Criteria                                                                                                                                                                                                                                                                                              |    |    | ✓   |
| If not met, list those compounds and their recoveries which fall outside the acceptable ranges.                                                                                                                                                                                                                                    |    |    |     |
| The Surrogate recoveries met the acceptable criteria except for P001-BBDGA-005-01 [2,4 and 6-Tribromophenol - 138%], as per method two surrogates are allowed to failed, therefore no corrective action was taken.                                                                                                                 |    |    |     |

**ALLIANCE** 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

**GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY****(CONTINUED)**

|     |                                                                                                                                                                                                                                                                                                                                                                                                             | NA | NO | YES |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 8.  | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria                                                                                                                                                                                                                                                                                                                                                |    | ✓  |     |
|     | If not met, list those compounds and their recoveries which fall outside the acceptable range.                                                                                                                                                                                                                                                                                                              |    |    |     |
|     | The MS {Q1664-05MS} with File ID: BG064135.D recoveries met the requirements for all compounds except for 1,4-Dioxane[30%], 2,3,4,6-Tetrachlorophenol[122%], 2,4,5-Trichlorophenol[123%], 2,4,6-Trichlorophenol[123%] and Hexachlorocyclopentadiene[230%], due to matrix interference, therefore no corrective action is required.                                                                          |    |    |     |
|     | The MSD {Q1664-06MSD} with File ID: BG064136.D recoveries met the acceptable requirements except for 1,2,4,5-Tetrachlorobenzene[103%], 1,4-Dioxane[32%], 2,3,4,6-Tetrachlorophenol[129%], 2,4,5-Trichlorophenol[125%], 2,4,6-Trichlorophenol[127%], Atrazine[164%], Hexachlorocyclopentadiene[240%] and Nitrobenzene[114%], due to matrix interference, therefore no corrective action is required.         |    |    |     |
|     | The Blank Spike for {PB167393BS} with File ID: BG064173.D met requirements for all samples except for 2,4,5-Trichlorophenol[107%], 2-Nitrophenol[118%], 3+4-Methylphenols[109%], 4,6-Dinitro-2-methylphenol[133%], Atrazine[135%], Butylbenzylphthalate[108%] and Hexachlorocyclopentadiene[230%], The associate samples have no positive hit for these compounds therefore no corrective action was taken. |    |    |     |
| 9.  | Internal Standard Area/Retention Time Shift Meet Criteria                                                                                                                                                                                                                                                                                                                                                   |    |    | ✓   |
|     | Comments:                                                                                                                                                                                                                                                                                                                                                                                                   |    |    |     |
| 10. | Extraction Holding Time Met                                                                                                                                                                                                                                                                                                                                                                                 |    |    | ✓   |
|     | If not met, list number of days exceeded for each sample:                                                                                                                                                                                                                                                                                                                                                   |    |    |     |
| 11. | Analysis Holding Time Met                                                                                                                                                                                                                                                                                                                                                                                   |    |    | ✓   |
|     | If not met, list number of days exceeded for each sample:                                                                                                                                                                                                                                                                                                                                                   |    |    |     |

**ADDITIONAL COMMENTS:**

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

**ALLIANCE** 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

**GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY**

**(CONTINUED)**

NA NO YES

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

\_\_\_\_\_  
QA REVIEW

\_\_\_\_\_  
Date

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q1664

Completed

For thorough review, the report must have the following:

#### GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

#### COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

#### CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MOHAMMAD AHMED

Date: 04/07/2025

## LAB CHRONICLE

|                 |                        |                   |                       |
|-----------------|------------------------|-------------------|-----------------------|
| <b>OrderID:</b> | Q1664                  | <b>OrderDate:</b> | 3/27/2025 10:47:00 AM |
| <b>Client:</b>  | Weston Solutions, Inc. | <b>Project:</b>   | RFP 905               |
| <b>Contact:</b> | Smita Sumbaly          | <b>Location:</b>  | I31,VOA Ref. #2 Soil  |

| LabID             | ClientID                        | Matrix       | Test             | Method | Sample Date     | Prep Date | Anal Date | Received        |
|-------------------|---------------------------------|--------------|------------------|--------|-----------------|-----------|-----------|-----------------|
| <b>Q1664-01</b>   | <b>P001-BBDGA-001-01</b>        | <b>SOIL</b>  | SVOC-TCL BNA -20 | 8270E  | <b>03/26/25</b> | 03/28/25  | 03/31/25  | <b>03/27/25</b> |
| <b>Q1664-04</b>   | <b>P001-BBDGA-001-01</b>        | <b>Water</b> | SPLP BNA         | 8270E  | <b>03/26/25</b> | 03/31/25  | 04/01/25  | <b>03/27/25</b> |
| <b>Q1664-07</b>   | <b>P001-BBDGA-001-02</b>        | <b>SOIL</b>  | SVOC-TCL BNA -20 | 8270E  | <b>03/26/25</b> | 03/28/25  | 03/31/25  | <b>03/27/25</b> |
| <b>Q1664-07RE</b> | <b>P001-BBDGA-001-02R<br/>E</b> | <b>SOIL</b>  | SVOC-TCL BNA -20 | 8270E  | <b>03/26/25</b> | 03/28/25  | 04/02/25  | <b>03/27/25</b> |
| <b>Q1664-08</b>   | <b>P001-BBDGA-001-02</b>        | <b>Water</b> | SPLP BNA         | 8270E  | <b>03/26/25</b> | 03/31/25  | 04/01/25  | <b>03/27/25</b> |
| <b>Q1664-09</b>   | <b>P001-BBDGA-002-01</b>        | <b>SOIL</b>  | SVOC-TCL BNA -20 | 8270E  | <b>03/26/25</b> | 03/28/25  | 03/31/25  | <b>03/27/25</b> |
| <b>Q1664-09RE</b> | <b>P001-BBDGA-002-01R<br/>E</b> | <b>SOIL</b>  | SVOC-TCL BNA -20 | 8270E  | <b>03/26/25</b> | 03/28/25  | 04/02/25  | <b>03/27/25</b> |
| <b>Q1664-10</b>   | <b>P001-BBDGA-002-01</b>        | <b>Water</b> | SPLP BNA         | 8270E  | <b>03/26/25</b> | 03/31/25  | 04/01/25  | <b>03/27/25</b> |
| <b>Q1664-11</b>   | <b>P001-BBDGA-003-01</b>        | <b>SOIL</b>  | SVOC-TCL BNA -20 | 8270E  | <b>03/26/25</b> | 03/28/25  | 03/31/25  | <b>03/27/25</b> |
| <b>Q1664-12</b>   | <b>P001-BBDGA-003-01</b>        | <b>Water</b> | SPLP BNA         | 8270E  | <b>03/26/25</b> | 03/31/25  | 04/01/25  | <b>03/27/25</b> |
| <b>Q1664-13</b>   | <b>P001-BBDGA-004-01</b>        | <b>SOIL</b>  | SVOC-TCL BNA -20 | 8270E  | <b>03/26/25</b> | 03/28/25  | 03/31/25  | <b>03/27/25</b> |

## LAB CHRONICLE

|                   |                                 |              |                  |       |                 |          |          |                 |
|-------------------|---------------------------------|--------------|------------------|-------|-----------------|----------|----------|-----------------|
| <b>Q1664-14</b>   | <b>P001-BBDGA-004-01</b>        | <b>Water</b> |                  |       | <b>03/26/25</b> |          |          | <b>03/27/25</b> |
|                   |                                 |              | SPLP BNA         | 8270E |                 | 03/31/25 | 04/01/25 |                 |
| <b>Q1664-15</b>   | <b>P001-BBDGA-005-01</b>        | <b>SOIL</b>  |                  |       | <b>03/26/25</b> |          |          | <b>03/27/25</b> |
|                   |                                 |              | SVOC-TCL BNA -20 | 8270E |                 | 03/28/25 | 03/31/25 |                 |
| <b>Q1664-15RE</b> | <b>P001-BBDGA-005-01R<br/>E</b> | <b>SOIL</b>  |                  |       | <b>03/26/25</b> |          |          | <b>03/27/25</b> |
|                   |                                 |              | SVOC-TCL BNA -20 | 8270E |                 | 03/28/25 | 04/02/25 |                 |
| <b>Q1664-16</b>   | <b>P001-BBDGA-005-01</b>        | <b>Water</b> |                  |       | <b>03/26/25</b> |          |          | <b>03/27/25</b> |
|                   |                                 |              | SPLP BNA         | 8270E |                 | 03/31/25 | 04/01/25 |                 |
| <b>Q1664-17</b>   | <b>P001-BBDGA-006-01</b>        | <b>SOIL</b>  |                  |       | <b>03/26/25</b> |          |          | <b>03/27/25</b> |
|                   |                                 |              | SVOC-TCL BNA -20 | 8270E |                 | 03/28/25 | 03/31/25 |                 |
| <b>Q1664-17RE</b> | <b>P001-BBDGA-006-01R<br/>E</b> | <b>SOIL</b>  |                  |       | <b>03/26/25</b> |          |          | <b>03/27/25</b> |
|                   |                                 |              | SVOC-TCL BNA -20 | 8270E |                 | 03/28/25 | 04/02/25 |                 |
| <b>Q1664-18</b>   | <b>P001-BBDGA-006-01</b>        | <b>Water</b> |                  |       | <b>03/26/25</b> |          |          | <b>03/27/25</b> |
|                   |                                 |              | SPLP BNA         | 8270E |                 | 03/31/25 | 04/01/25 |                 |
| <b>Q1664-19</b>   | <b>P001-BBDGA-007-01</b>        | <b>SOIL</b>  |                  |       | <b>03/26/25</b> |          |          | <b>03/27/25</b> |
|                   |                                 |              | SVOC-TCL BNA -20 | 8270E |                 | 03/28/25 | 03/31/25 |                 |
| <b>Q1664-20</b>   | <b>P001-BBDGA-007-01</b>        | <b>Water</b> |                  |       | <b>03/26/25</b> |          |          | <b>03/27/25</b> |
|                   |                                 |              | SPLP BNA         | 8270E |                 | 03/31/25 | 04/01/25 |                 |
| <b>Q1664-21</b>   | <b>P001-BBDGA-008-01</b>        | <b>SOIL</b>  |                  |       | <b>03/26/25</b> |          |          | <b>03/27/25</b> |
|                   |                                 |              | SVOC-TCL BNA -20 | 8270E |                 | 03/28/25 | 03/31/25 |                 |
| <b>Q1664-22</b>   | <b>P001-BBDGA-008-01</b>        | <b>Water</b> |                  |       | <b>03/26/25</b> |          |          | <b>03/27/25</b> |
|                   |                                 |              | SPLP BNA         | 8270E |                 | 03/31/25 | 04/01/25 |                 |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

**Hit Summary Sheet**  
**SW-846**

**SDG No.:** Q1664

**Client:** Weston Solutions, Inc.

| Sample ID          | Client ID                | Parameter | Concentration               | C            | MDL   | RDL | Units |
|--------------------|--------------------------|-----------|-----------------------------|--------------|-------|-----|-------|
| <b>Client ID :</b> | <b>P001-BBDGA-003-01</b> |           |                             |              |       |     |       |
| Q1664-12           | P001-BBDGA-003-01        | WATER     | Dimethylphthalate           | 10.100       | 0.61  | 5   | ug/L  |
|                    |                          |           | <b>Total Svoc :</b>         | <b>10.10</b> |       |     |       |
|                    |                          |           | <b>Total Concentration:</b> | <b>10.10</b> |       |     |       |
| <b>Client ID :</b> | <b>P001-BBDGA-004-01</b> |           |                             |              |       |     |       |
| Q1664-14           | P001-BBDGA-004-01        | WATER     | Dimethylphthalate           | 8.400        | 0.61  | 5   | ug/L  |
|                    |                          |           | <b>Total Svoc :</b>         | <b>8.40</b>  |       |     |       |
|                    |                          |           | <b>Total Concentration:</b> | <b>8.40</b>  |       |     |       |
| <b>Client ID :</b> | <b>P001-BBDGA-005-01</b> |           |                             |              |       |     |       |
| Q1664-16           | P001-BBDGA-005-01        | WATER     | Dimethylphthalate           | 11.500       | 0.61  | 5   | ug/L  |
|                    |                          |           | <b>Total Svoc :</b>         | <b>11.50</b> |       |     |       |
|                    |                          |           | <b>Total Concentration:</b> | <b>11.50</b> |       |     |       |
| <b>Client ID :</b> | <b>P001-BBDGA-007-01</b> |           |                             |              |       |     |       |
| Q1664-20           | P001-BBDGA-007-01        | WATER     | Pentachlorophenol           | 3.800        | J 1.6 | 10  | ug/L  |
|                    |                          |           | <b>Total Svoc :</b>         | <b>3.80</b>  |       |     |       |
|                    |                          |           | <b>Total Concentration:</b> | <b>3.80</b>  |       |     |       |





# QC SUMMARY

## Surrogate Summary

SW-846

SDG No.: **Q1664**

Client: **Weston Solutions, Inc.**

Analytical Method: **8270E**

| Lab Sample ID | Client ID               | Parameter            | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|-------------------------|----------------------|-------------|--------------|--------------|------|------------|------|
|               |                         |                      |             |              |              |      | Low        | High |
| PB167393BL    | PB167393BL              | 2-Fluorophenol       | 150         | 138          | 92           |      | 10         | 139  |
|               |                         | Phenol-d6            | 150         | 139          | 93           |      | 10         | 134  |
|               |                         | Nitrobenzene-d5      | 100         | 98.8         | 99           |      | 49         | 133  |
|               |                         | 2-Fluorobiphenyl     | 100         | 85.7         | 86           |      | 52         | 132  |
|               |                         | 2,4,6-Tribromophenol | 150         | 164          | 109          |      | 44         | 137  |
|               |                         | Terphenyl-d14        | 100         | 91.8         | 92           |      | 48         | 125  |
| PB167393BS    | PB167393BS              | 2-Fluorophenol       | 150         | 143          | 96           |      | 10         | 139  |
|               |                         | Phenol-d6            | 150         | 141          | 94           |      | 10         | 134  |
|               |                         | Nitrobenzene-d5      | 100         | 97.8         | 98           |      | 49         | 133  |
|               |                         | 2-Fluorobiphenyl     | 100         | 85.6         | 86           |      | 52         | 132  |
|               |                         | 2,4,6-Tribromophenol | 150         | 171          | 114          |      | 44         | 137  |
|               |                         | Terphenyl-d14        | 100         | 93.3         | 93           |      | 48         | 125  |
| PB167393TB    | PB167393TB              | 2-Fluorophenol       | 150         | 134          | 89           |      | 10         | 139  |
|               |                         | Phenol-d6            | 150         | 132          | 88           |      | 10         | 134  |
|               |                         | Nitrobenzene-d5      | 100         | 97.9         | 98           |      | 49         | 133  |
|               |                         | 2-Fluorobiphenyl     | 100         | 85.4         | 85           |      | 52         | 132  |
|               |                         | 2,4,6-Tribromophenol | 150         | 157          | 105          |      | 44         | 137  |
|               |                         | Terphenyl-d14        | 100         | 92.1         | 92           |      | 48         | 125  |
| Q1664-04      | P001-BBDGA-001-01       | 2-Fluorophenol       | 150         | 55.8         | 37           |      | 10         | 139  |
|               |                         | Phenol-d6            | 150         | 31.5         | 21           |      | 10         | 134  |
|               |                         | Nitrobenzene-d5      | 100         | 112          | 112          |      | 49         | 133  |
|               |                         | 2-Fluorobiphenyl     | 100         | 100          | 100          |      | 52         | 132  |
|               |                         | 2,4,6-Tribromophenol | 150         | 195          | 130          |      | 44         | 137  |
|               |                         | Terphenyl-d14        | 100         | 102          | 102          |      | 48         | 125  |
| Q1664-05MS    | P001-BBDGA-001-01-05MS  | 2-Fluorophenol       | 150         | 59.4         | 40           |      | 10         | 139  |
|               |                         | Phenol-d6            | 150         | 33.5         | 22           |      | 10         | 134  |
|               |                         | Nitrobenzene-d5      | 100         | 114          | 114          |      | 49         | 133  |
|               |                         | 2-Fluorobiphenyl     | 100         | 105          | 105          |      | 52         | 132  |
|               |                         | 2,4,6-Tribromophenol | 150         | 184          | 123          |      | 44         | 137  |
|               |                         | Terphenyl-d14        | 100         | 102          | 102          |      | 48         | 125  |
| Q1664-06MSD   | P001-BBDGA-001-01-06MSD | 2-Fluorophenol       | 150         | 62.2         | 41           |      | 10         | 139  |
|               |                         | Phenol-d6            | 150         | 35.4         | 24           |      | 10         | 134  |
|               |                         | Nitrobenzene-d5      | 100         | 117          | 117          |      | 49         | 133  |
|               |                         | 2-Fluorobiphenyl     | 100         | 105          | 105          |      | 52         | 132  |
|               |                         | 2,4,6-Tribromophenol | 150         | 194          | 129          |      | 44         | 137  |
|               |                         | Terphenyl-d14        | 100         | 105          | 105          |      | 48         | 125  |
| Q1664-08      | P001-BBDGA-001-02       | 2-Fluorophenol       | 150         | 61.8         | 41           |      | 10         | 139  |
|               |                         | Phenol-d6            | 150         | 34.6         | 23           |      | 10         | 134  |
|               |                         | Nitrobenzene-d5      | 100         | 117          | 117          |      | 49         | 133  |
|               |                         | 2-Fluorobiphenyl     | 100         | 104          | 104          |      | 52         | 132  |
|               |                         | 2,4,6-Tribromophenol | 150         | 199          | 132          |      | 44         | 137  |
|               |                         | Terphenyl-d14        | 100         | 99.2         | 99           |      | 48         | 125  |
| Q1664-10      | P001-BBDGA-002-01       | 2-Fluorophenol       | 150         | 61.5         | 41           |      | 10         | 139  |
|               |                         | Phenol-d6            | 150         | 34.9         | 23           |      | 10         | 134  |
|               |                         | Nitrobenzene-d5      | 100         | 118          | 118          |      | 49         | 133  |
|               |                         | 2-Fluorobiphenyl     | 100         | 109          | 109          |      | 52         | 132  |
|               |                         | 2,4,6-Tribromophenol | 150         | 204          | 136          |      | 44         | 137  |
|               |                         | Terphenyl-d14        | 100         | 107          | 107          |      | 48         | 125  |
| Q1664-12      | P001-BBDGA-003-01       | 2-Fluorophenol       | 150         | 61.3         | 41           |      | 10         | 139  |
|               |                         | Phenol-d6            | 150         | 34.6         | 23           |      | 10         | 134  |
|               |                         | Nitrobenzene-d5      | 100         | 121          | 121          |      | 49         | 133  |

## Surrogate Summary

SW-846

SDG No.: **Q1664**

Client: **Weston Solutions, Inc.**

Analytical Method: **8270E**

| Lab Sample ID | Client ID         | Parameter            | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|-------------------|----------------------|-------------|--------------|--------------|------|------------|------|
|               |                   |                      |             |              |              |      | Low        | High |
| Q1664-12      | P001-BBDGA-003-01 | 2-Fluorobiphenyl     | 100         | 109          | 109          |      | 52         | 132  |
|               |                   | 2,4,6-Tribromophenol | 150         | 206          | 137          |      | 44         | 137  |
|               |                   | Terphenyl-d14        | 100         | 110          | 110          |      | 48         | 125  |
| Q1664-14      | P001-BBDGA-004-01 | 2-Fluorophenol       | 150         | 37.8         | 25           |      | 10         | 139  |
|               |                   | Phenol-d6            | 150         | 22.8         | 15           |      | 10         | 134  |
|               |                   | Nitrobenzene-d5      | 100         | 111          | 111          |      | 49         | 133  |
| Q1664-16      | P001-BBDGA-005-01 | 2-Fluorobiphenyl     | 100         | 99.5         | 100          |      | 52         | 132  |
|               |                   | 2,4,6-Tribromophenol | 150         | 126          | 84           |      | 44         | 137  |
|               |                   | Terphenyl-d14        | 100         | 97.4         | 97           |      | 48         | 125  |
| Q1664-18      | P001-BBDGA-006-01 | 2-Fluorophenol       | 150         | 64.7         | 43           |      | 10         | 139  |
|               |                   | Phenol-d6            | 150         | 36.2         | 24           |      | 10         | 134  |
|               |                   | Nitrobenzene-d5      | 100         | 121          | 121          |      | 49         | 133  |
| Q1664-20      | P001-BBDGA-007-01 | 2-Fluorobiphenyl     | 100         | 112          | 112          |      | 52         | 132  |
|               |                   | 2,4,6-Tribromophenol | 150         | 207          | 138          | *    | 44         | 137  |
|               |                   | Terphenyl-d14        | 100         | 106          | 106          |      | 48         | 125  |
| Q1664-22      | P001-BBDGA-008-01 | 2-Fluorophenol       | 150         | 63.7         | 42           |      | 10         | 139  |
|               |                   | Phenol-d6            | 150         | 38.2         | 25           |      | 10         | 134  |
|               |                   | Nitrobenzene-d5      | 100         | 119          | 119          |      | 49         | 133  |
| Q1664-20      | P001-BBDGA-007-01 | 2-Fluorobiphenyl     | 100         | 109          | 109          |      | 52         | 132  |
|               |                   | 2,4,6-Tribromophenol | 150         | 206          | 137          |      | 44         | 137  |
|               |                   | Terphenyl-d14        | 100         | 105          | 105          |      | 48         | 125  |
| Q1664-20      | P001-BBDGA-007-01 | 2-Fluorophenol       | 150         | 61.6         | 41           |      | 10         | 139  |
|               |                   | Phenol-d6            | 150         | 35.0         | 23           |      | 10         | 134  |
|               |                   | Nitrobenzene-d5      | 100         | 117          | 117          |      | 49         | 133  |
| Q1664-20      | P001-BBDGA-007-01 | 2-Fluorobiphenyl     | 100         | 104          | 104          |      | 52         | 132  |
|               |                   | 2,4,6-Tribromophenol | 150         | 186          | 124          |      | 44         | 137  |
|               |                   | Terphenyl-d14        | 100         | 104          | 104          |      | 48         | 125  |
| Q1664-22      | P001-BBDGA-008-01 | 2-Fluorophenol       | 150         | 77.3         | 52           |      | 10         | 139  |
|               |                   | Phenol-d6            | 150         | 47.2         | 31           |      | 10         | 134  |
|               |                   | Nitrobenzene-d5      | 100         | 119          | 119          |      | 49         | 133  |
| Q1664-22      | P001-BBDGA-008-01 | 2-Fluorobiphenyl     | 100         | 106          | 106          |      | 52         | 132  |
|               |                   | 2,4,6-Tribromophenol | 150         | 199          | 132          |      | 44         | 137  |
|               |                   | Terphenyl-d14        | 100         | 103          | 103          |      | 48         | 125  |

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q1664

**Client:** Weston Solutions, Inc.

**Analytical Method:** SW8270E

| Parameter                        | Spike | Sample Result                                   | Result | Units                       | Rec | Rec Qual | RPD | RPD Qual | Low | Limits High | RPD |
|----------------------------------|-------|-------------------------------------------------|--------|-----------------------------|-----|----------|-----|----------|-----|-------------|-----|
| <b>Lab Sample ID: Q1664-05MS</b> |       | <b>Client Sample ID: P001-BBDGA-001-01-05MS</b> |        | <b>DataFile: BG064135.D</b> |     |          |     |          |     |             |     |
| Benzaldehyde                     | 50    | 0                                               | 46.4   | ug/L                        | 93  |          |     |          | 10  | 137         |     |
| Phenol                           | 50    | 0                                               | 12.9   | ug/L                        | 26  |          |     |          | 10  | 130         |     |
| bis(2-Chloroethyl)ether          | 50    | 0                                               | 46.5   | ug/L                        | 93  |          |     |          | 29  | 141         |     |
| 2-Chlorophenol                   | 50    | 0                                               | 38.6   | ug/L                        | 77  |          |     |          | 23  | 127         |     |
| 2-Methylphenol                   | 50    | 0                                               | 32.9   | ug/L                        | 66  |          |     |          | 60  | 131         |     |
| 2,2-oxybis(1-Chloropropane)      | 50    | 0                                               | 44.3   | ug/L                        | 89  |          |     |          | 36  | 141         |     |
| Acetophenone                     | 50    | 0                                               | 50.9   | ug/L                        | 102 |          |     |          | 31  | 164         |     |
| 3+4-Methylphenols                | 50    | 0                                               | 29.0   | ug/L                        | 58  |          |     |          | 54  | 136         |     |
| N-Nitroso-di-n-propylamine       | 50    | 0                                               | 49.7   | ug/L                        | 99  |          |     |          | 36  | 147         |     |
| Hexachloroethane                 | 50    | 0                                               | 38.0   | ug/L                        | 76  |          |     |          | 19  | 146         |     |
| Nitrobenzene                     | 50    | 0                                               | 55.6   | ug/L                        | 111 |          |     |          | 62  | 112         |     |
| Isophorone                       | 50    | 0                                               | 54.7   | ug/L                        | 109 |          |     |          | 39  | 146         |     |
| 2-Nitrophenol                    | 50    | 0                                               | 59.0   | ug/L                        | 118 |          |     |          | 30  | 148         |     |
| 2,4-Dimethylphenol               | 50    | 0                                               | 65.4   | ug/L                        | 131 |          |     |          | 17  | 143         |     |
| bis(2-Chloroethoxy)methane       | 50    | 0                                               | 51.1   | ug/L                        | 102 |          |     |          | 39  | 143         |     |
| 2,4-Dichlorophenol               | 50    | 0                                               | 52.3   | ug/L                        | 105 |          |     |          | 22  | 146         |     |
| Naphthalene                      | 50    | 0                                               | 45.7   | ug/L                        | 91  |          |     |          | 17  | 157         |     |
| 4-Chloroaniline                  | 50    | 0                                               | 21.1   | ug/L                        | 42  |          |     |          | 10  | 95          |     |
| Hexachlorobutadiene              | 50    | 0                                               | 42.2   | ug/L                        | 84  |          |     |          | 52  | 125         |     |
| Caprolactam                      | 50    | 0                                               | 9.40   | ug/L                        | 19  |          |     |          | 10  | 130         |     |
| 4-Chloro-3-methylphenol          | 50    | 0                                               | 47.8   | ug/L                        | 96  |          |     |          | 17  | 148         |     |
| 2-Methylnaphthalene              | 50    | 0                                               | 45.4   | ug/L                        | 91  |          |     |          | 38  | 146         |     |
| Hexachlorocyclopentadiene        | 100   | 0                                               | 230    | ug/L                        | 230 | *        |     |          | 20  | 153         |     |
| 2,4,6-Trichlorophenol            | 50    | 0                                               | 61.6   | ug/L                        | 123 | *        |     |          | 78  | 112         |     |
| 2,4,5-Trichlorophenol            | 50    | 0                                               | 61.5   | ug/L                        | 123 | *        |     |          | 71  | 111         |     |
| 1,1-Biphenyl                     | 50    | 0                                               | 53.0   | ug/L                        | 106 |          |     |          | 38  | 154         |     |
| 2-Chloronaphthalene              | 50    | 0                                               | 53.4   | ug/L                        | 107 |          |     |          | 41  | 145         |     |
| 2-Nitroaniline                   | 50    | 0                                               | 59.1   | ug/L                        | 118 |          |     |          | 39  | 151         |     |
| Dimethylphthalate                | 50    | 0                                               | 54.8   | ug/L                        | 110 |          |     |          | 42  | 147         |     |
| Acenaphthylene                   | 50    | 0                                               | 56.3   | ug/L                        | 113 |          |     |          | 40  | 141         |     |
| 2,6-Dinitrotoluene               | 50    | 0                                               | 55.4   | ug/L                        | 111 |          |     |          | 43  | 148         |     |
| 3-Nitroaniline                   | 50    | 0                                               | 27.7   | ug/L                        | 55  |          |     |          | 10  | 111         |     |
| Acenaphthene                     | 50    | 0                                               | 53.0   | ug/L                        | 106 |          |     |          | 37  | 146         |     |
| 2,4-Dinitrophenol                | 100   | 0                                               | 140    | ug/L                        | 140 |          |     |          | 14  | 167         |     |
| 4-Nitrophenol                    | 100   | 0                                               | 36.4   | ug/L                        | 36  |          |     |          | 10  | 130         |     |
| Dibenzofuran                     | 50    | 0                                               | 50.6   | ug/L                        | 101 |          |     |          | 41  | 145         |     |
| 2,4-Dinitrotoluene               | 50    | 0                                               | 59.5   | ug/L                        | 119 |          |     |          | 74  | 137         |     |
| Diethylphthalate                 | 50    | 0                                               | 52.9   | ug/L                        | 106 |          |     |          | 41  | 148         |     |
| 4-Chlorophenyl-phenylether       | 50    | 0                                               | 51.1   | ug/L                        | 102 |          |     |          | 38  | 149         |     |
| Fluorene                         | 50    | 0                                               | 53.7   | ug/L                        | 107 |          |     |          | 39  | 144         |     |
| 4-Nitroaniline                   | 50    | 0                                               | 53.7   | ug/L                        | 107 |          |     |          | 27  | 138         |     |
| 4,6-Dinitro-2-methylphenol       | 50    | 0                                               | 70.3   | ug/L                        | 141 |          |     |          | 32  | 175         |     |
| N-Nitrosodiphenylamine           | 50    | 0                                               | 55.9   | ug/L                        | 112 |          |     |          | 40  | 150         |     |
| 4-Bromophenyl-phenylether        | 50    | 0                                               | 57.4   | ug/L                        | 115 |          |     |          | 42  | 151         |     |
| Hexachlorobenzene                | 50    | 0                                               | 55.4   | ug/L                        | 111 |          |     |          | 72  | 115         |     |
| Atrazine                         | 50    | 0                                               | 79.3   | ug/L                        | 159 |          |     |          | 20  | 162         |     |

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q1664

**Client:** Weston Solutions, Inc.

**Analytical Method:** SW8270E

| Parameter                  | Spike | Sample<br>Result | Result | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low | Limits<br>High | RPD |
|----------------------------|-------|------------------|--------|-------|-----|-------------|-----|-------------|-----|----------------|-----|
| Pentachlorophenol          | 100   | 0                | 130    | ug/L  | 130 |             |     |             | 52  | 162            |     |
| Phenanthrene               | 50    | 0                | 56.7   | ug/L  | 113 |             |     |             | 40  | 147            |     |
| Anthracene                 | 50    | 0                | 57.6   | ug/L  | 115 |             |     |             | 41  | 146            |     |
| Carbazole                  | 50    | 0                | 58.7   | ug/L  | 117 |             |     |             | 37  | 154            |     |
| Di-n-butylphthalate        | 50    | 0                | 60.0   | ug/L  | 120 |             |     |             | 40  | 151            |     |
| Fluoranthene               | 50    | 0                | 58.8   | ug/L  | 118 |             |     |             | 42  | 146            |     |
| Pyrene                     | 50    | 0                | 53.3   | ug/L  | 107 |             |     |             | 41  | 149            |     |
| Butylbenzylphthalate       | 50    | 0                | 61.4   | ug/L  | 123 |             |     |             | 39  | 155            |     |
| 3,3-Dichlorobenzidine      | 50    | 0                | 33.0   | ug/L  | 66  |             |     |             | 10  | 114            |     |
| Benzo(a)anthracene         | 50    | 0                | 57.2   | ug/L  | 114 |             |     |             | 41  | 147            |     |
| Chrysene                   | 50    | 0                | 54.8   | ug/L  | 110 |             |     |             | 44  | 144            |     |
| bis(2-Ethylhexyl)phthalate | 50    | 0                | 65.3   | ug/L  | 131 |             |     |             | 33  | 160            |     |
| Di-n-octyl phthalate       | 50    | 0                | 64.8   | ug/L  | 130 |             |     |             | 36  | 158            |     |
| Benzo(b)fluoranthene       | 50    | 0                | 56.0   | ug/L  | 112 |             |     |             | 40  | 150            |     |
| Benzo(k)fluoranthene       | 50    | 0                | 55.4   | ug/L  | 111 |             |     |             | 40  | 147            |     |
| Benzo(a)pyrene             | 50    | 0                | 60.0   | ug/L  | 120 |             |     |             | 42  | 147            |     |
| Indeno(1,2,3-cd)pyrene     | 50    | 0                | 59.7   | ug/L  | 119 |             |     |             | 30  | 166            |     |
| Dibenz(a,h)anthracene      | 50    | 0                | 60.0   | ug/L  | 120 |             |     |             | 23  | 172            |     |
| Benzo(g,h,i)perylene       | 50    | 0                | 56.7   | ug/L  | 113 |             |     |             | 27  | 167            |     |
| 1,2,4,5-Tetrachlorobenzene | 50    | 0                | 50.9   | ug/L  | 102 |             |     |             | 89  | 102            |     |
| 1,4-Dioxane                | 50    | 0                | 15.1   | ug/L  | 30  | *           |     |             | 38  | 130            |     |
| 2,3,4,6-Tetrachlorophenol  | 50    | 0                | 60.9   | ug/L  | 122 | *           |     |             | 91  | 111            |     |

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q1664

**Client:** Weston Solutions, Inc.

**Analytical Method:** SW8270E

| Parameter                   | Spike              | Sample Result            | Result                         | Units | Rec | Rec Qual | RPD | RPD Qual         | Low               | Limits High | RPD |
|-----------------------------|--------------------|--------------------------|--------------------------------|-------|-----|----------|-----|------------------|-------------------|-------------|-----|
| <b>Lab Sample ID:</b>       | <b>Q1664-06MSD</b> | <b>Client Sample ID:</b> | <b>P001-BBDGA-001-01-06MSD</b> |       |     |          |     | <b>DataFile:</b> | <b>BG064136.D</b> |             |     |
| Benzaldehyde                | 50                 | 0                        | 51.2                           | ug/L  | 102 |          | 9   |                  | 10                | 137         | 20  |
| Phenol                      | 50                 | 0                        | 13.8                           | ug/L  | 28  |          | 7   |                  | 10                | 130         | 20  |
| bis(2-Chloroethyl)ether     | 50                 | 0                        | 47.0                           | ug/L  | 94  |          | 1   |                  | 29                | 141         | 20  |
| 2-Chlorophenol              | 50                 | 0                        | 42.2                           | ug/L  | 84  |          | 9   |                  | 23                | 127         | 20  |
| 2-Methylphenol              | 50                 | 0                        | 35.2                           | ug/L  | 70  |          | 6   |                  | 60                | 131         | 20  |
| 2,2-oxybis(1-Chloropropane) | 50                 | 0                        | 47.3                           | ug/L  | 95  |          | 7   |                  | 36                | 141         | 20  |
| Acetophenone                | 50                 | 0                        | 51.4                           | ug/L  | 103 |          | 1   |                  | 31                | 164         | 20  |
| 3+4-Methylphenols           | 50                 | 0                        | 30.6                           | ug/L  | 61  |          | 5   |                  | 54                | 136         | 20  |
| N-Nitroso-di-n-propylamine  | 50                 | 0                        | 53.0                           | ug/L  | 106 |          | 7   |                  | 36                | 147         | 20  |
| Hexachloroethane            | 50                 | 0                        | 38.4                           | ug/L  | 77  |          | 1   |                  | 19                | 146         | 20  |
| Nitrobenzene                | 50                 | 0                        | 56.9                           | ug/L  | 114 | *        | 3   |                  | 62                | 112         | 20  |
| Isophorone                  | 50                 | 0                        | 56.1                           | ug/L  | 112 |          | 3   |                  | 39                | 146         | 20  |
| 2-Nitrophenol               | 50                 | 0                        | 60.6                           | ug/L  | 121 |          | 3   |                  | 30                | 148         | 20  |
| 2,4-Dimethylphenol          | 50                 | 0                        | 67.8                           | ug/L  | 136 |          | 4   |                  | 17                | 143         | 20  |
| bis(2-Chloroethoxy)methane  | 50                 | 0                        | 51.4                           | ug/L  | 103 |          | 1   |                  | 39                | 143         | 20  |
| 2,4-Dichlorophenol          | 50                 | 0                        | 55.7                           | ug/L  | 111 |          | 6   |                  | 22                | 146         | 20  |
| Naphthalene                 | 50                 | 0                        | 46.6                           | ug/L  | 93  |          | 2   |                  | 17                | 157         | 20  |
| 4-Chloroaniline             | 50                 | 0                        | 21.6                           | ug/L  | 43  |          | 2   |                  | 10                | 95          | 20  |
| Hexachlorobutadiene         | 50                 | 0                        | 42.7                           | ug/L  | 85  |          | 1   |                  | 52                | 125         | 20  |
| Caprolactam                 | 50                 | 0                        | 10.2                           | ug/L  | 20  |          | 5   |                  | 10                | 130         | 20  |
| 4-Chloro-3-methylphenol     | 50                 | 0                        | 49.7                           | ug/L  | 99  |          | 3   |                  | 17                | 148         | 20  |
| 2-Methylnaphthalene         | 50                 | 0                        | 46.8                           | ug/L  | 94  |          | 3   |                  | 38                | 146         | 20  |
| Hexachlorocyclopentadiene   | 100                | 0                        | 240                            | ug/L  | 240 | *        | 4   |                  | 20                | 153         | 20  |
| 2,4,6-Trichlorophenol       | 50                 | 0                        | 63.4                           | ug/L  | 127 | *        | 3   |                  | 78                | 112         | 20  |
| 2,4,5-Trichlorophenol       | 50                 | 0                        | 62.4                           | ug/L  | 125 | *        | 2   |                  | 71                | 111         | 20  |
| 1,1-Biphenyl                | 50                 | 0                        | 54.2                           | ug/L  | 108 |          | 2   |                  | 38                | 154         | 20  |
| 2-Chloronaphthalene         | 50                 | 0                        | 53.6                           | ug/L  | 107 |          | 0   |                  | 41                | 145         | 20  |
| 2-Nitroaniline              | 50                 | 0                        | 62.1                           | ug/L  | 124 |          | 5   |                  | 39                | 151         | 20  |
| Dimethylphthalate           | 50                 | 0                        | 57.2                           | ug/L  | 114 |          | 4   |                  | 42                | 147         | 20  |
| Acenaphthylene              | 50                 | 0                        | 59.4                           | ug/L  | 119 |          | 5   |                  | 40                | 141         | 20  |
| 2,6-Dinitrotoluene          | 50                 | 0                        | 60.0                           | ug/L  | 120 |          | 8   |                  | 43                | 148         | 20  |
| 3-Nitroaniline              | 50                 | 0                        | 30.5                           | ug/L  | 61  |          | 10  |                  | 10                | 111         | 20  |
| Acenaphthene                | 50                 | 0                        | 53.7                           | ug/L  | 107 |          | 1   |                  | 37                | 146         | 20  |
| 2,4-Dinitrophenol           | 100                | 0                        | 150                            | ug/L  | 150 |          | 7   |                  | 14                | 167         | 20  |
| 4-Nitrophenol               | 100                | 0                        | 40.0                           | ug/L  | 40  |          | 11  |                  | 10                | 130         | 20  |
| Dibenzofuran                | 50                 | 0                        | 52.5                           | ug/L  | 105 |          | 4   |                  | 41                | 145         | 20  |
| 2,4-Dinitrotoluene          | 50                 | 0                        | 62.7                           | ug/L  | 125 |          | 5   |                  | 74                | 137         | 20  |
| Diethylphthalate            | 50                 | 0                        | 56.3                           | ug/L  | 113 |          | 6   |                  | 41                | 148         | 20  |
| 4-Chlorophenyl-phenylether  | 50                 | 0                        | 54.2                           | ug/L  | 108 |          | 6   |                  | 38                | 149         | 20  |
| Fluorene                    | 50                 | 0                        | 56.1                           | ug/L  | 112 |          | 5   |                  | 39                | 144         | 20  |
| 4-Nitroaniline              | 50                 | 0                        | 59.3                           | ug/L  | 119 |          | 11  |                  | 27                | 138         | 20  |
| 4,6-Dinitro-2-methylphenol  | 50                 | 0                        | 71.3                           | ug/L  | 143 |          | 1   |                  | 32                | 175         | 20  |
| N-Nitrosodiphenylamine      | 50                 | 0                        | 55.7                           | ug/L  | 111 |          | 1   |                  | 40                | 150         | 20  |
| 4-Bromophenyl-phenylether   | 50                 | 0                        | 57.3                           | ug/L  | 115 |          | 0   |                  | 42                | 151         | 20  |
| Hexachlorobenzene           | 50                 | 0                        | 56.1                           | ug/L  | 112 |          | 1   |                  | 72                | 115         | 20  |
| Atrazine                    | 50                 | 0                        | 82.2                           | ug/L  | 164 | *        | 3   |                  | 20                | 162         | 20  |

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q1664

**Client:** Weston Solutions, Inc.

**Analytical Method:** SW8270E

| Parameter                  | Spike | Sample<br>Result | Result | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low | Limits<br>High | RPD |
|----------------------------|-------|------------------|--------|-------|-----|-------------|-----|-------------|-----|----------------|-----|
| Pentachlorophenol          | 100   | 0                | 130    | ug/L  | 130 |             | 0   |             | 52  | 162            | 20  |
| Phenanthrene               | 50    | 0                | 58.2   | ug/L  | 116 |             | 3   |             | 40  | 147            | 20  |
| Anthracene                 | 50    | 0                | 59.1   | ug/L  | 118 |             | 3   |             | 41  | 146            | 20  |
| Carbazole                  | 50    | 0                | 60.3   | ug/L  | 121 |             | 3   |             | 37  | 154            | 20  |
| Di-n-butylphthalate        | 50    | 0                | 62.3   | ug/L  | 125 |             | 4   |             | 40  | 151            | 20  |
| Fluoranthene               | 50    | 0                | 58.6   | ug/L  | 117 |             | 1   |             | 42  | 146            | 20  |
| Pyrene                     | 50    | 0                | 54.7   | ug/L  | 109 |             | 2   |             | 41  | 149            | 20  |
| Butylbenzylphthalate       | 50    | 0                | 61.7   | ug/L  | 123 |             | 0   |             | 39  | 155            | 20  |
| 3,3-Dichlorobenzidine      | 50    | 0                | 33.8   | ug/L  | 68  |             | 3   |             | 10  | 114            | 20  |
| Benzo(a)anthracene         | 50    | 0                | 57.9   | ug/L  | 116 |             | 2   |             | 41  | 147            | 20  |
| Chrysene                   | 50    | 0                | 54.8   | ug/L  | 110 |             | 0   |             | 44  | 144            | 20  |
| bis(2-Ethylhexyl)phthalate | 50    | 0                | 65.1   | ug/L  | 130 |             | 1   |             | 33  | 160            | 20  |
| Di-n-octyl phthalate       | 50    | 0                | 65.5   | ug/L  | 131 |             | 1   |             | 36  | 158            | 20  |
| Benzo(b)fluoranthene       | 50    | 0                | 54.7   | ug/L  | 109 |             | 3   |             | 40  | 150            | 20  |
| Benzo(k)fluoranthene       | 50    | 0                | 55.7   | ug/L  | 111 |             | 0   |             | 40  | 147            | 20  |
| Benzo(a)pyrene             | 50    | 0                | 59.9   | ug/L  | 120 |             | 0   |             | 42  | 147            | 20  |
| Indeno(1,2,3-cd)pyrene     | 50    | 0                | 59.3   | ug/L  | 119 |             | 0   |             | 30  | 166            | 20  |
| Dibenz(a,h)anthracene      | 50    | 0                | 59.0   | ug/L  | 118 |             | 2   |             | 23  | 172            | 20  |
| Benzo(g,h,i)perylene       | 50    | 0                | 56.3   | ug/L  | 113 |             | 0   |             | 27  | 167            | 20  |
| 1,2,4,5-Tetrachlorobenzene | 50    | 0                | 51.7   | ug/L  | 103 | *           | 1   |             | 89  | 102            | 20  |
| 1,4-Dioxane                | 50    | 0                | 16.0   | ug/L  | 32  | *           | 6   |             | 38  | 130            | 20  |
| 2,3,4,6-Tetrachlorophenol  | 50    | 0                | 64.5   | ug/L  | 129 | *           | 6   |             | 91  | 111            | 20  |

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: 8270E

DataFile: BG064173.D

| Lab Sample ID | Parameter                   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Limits |      | RPD |
|---------------|-----------------------------|-------|--------|------|-----|-----|------|------|--------|------|-----|
|               |                             |       |        |      |     |     |      | Qual | Low    | High |     |
| PB167393BS    | Benzaldehyde                | 50    | 44.2   | ug/L | 88  |     |      |      | 10     | 162  |     |
|               | Phenol                      | 50    | 51.7   | ug/L | 103 |     |      |      | 66     | 118  |     |
|               | bis(2-Chloroethyl)ether     | 50    | 43.9   | ug/L | 88  |     |      |      | 62     | 103  |     |
|               | 2-Chlorophenol              | 50    | 51.6   | ug/L | 103 |     |      |      | 70     | 117  |     |
|               | 2-Methylphenol              | 50    | 53.6   | ug/L | 107 |     |      |      | 69     | 109  |     |
|               | 2,2-oxybis(1-Chloropropane) | 50    | 46.6   | ug/L | 93  |     |      |      | 65     | 100  |     |
|               | Acetophenone                | 50    | 42.2   | ug/L | 84  |     |      |      | 60     | 104  |     |
|               | 3+4-Methylphenols           | 50    | 54.3   | ug/L | 109 |     | *    |      | 67     | 106  |     |
|               | N-Nitroso-di-n-propylamine  | 50    | 47.6   | ug/L | 95  |     |      |      | 57     | 107  |     |
|               | Hexachloroethane            | 50    | 52.8   | ug/L | 106 |     |      |      | 76     | 118  |     |
|               | Nitrobenzene                | 50    | 48.0   | ug/L | 96  |     |      |      | 58     | 106  |     |
|               | Isophorone                  | 50    | 46.4   | ug/L | 93  |     |      |      | 61     | 102  |     |
|               | 2-Nitrophenol               | 50    | 58.8   | ug/L | 118 |     | *    |      | 70     | 115  |     |
|               | 2,4-Dimethylphenol          | 50    | 71.2   | ug/L | 142 |     |      |      | 42     | 142  |     |
|               | bis(2-Chloroethoxy)methane  | 50    | 44.9   | ug/L | 90  |     |      |      | 58     | 109  |     |
|               | 2,4-Dichlorophenol          | 50    | 53.9   | ug/L | 108 |     |      |      | 66     | 115  |     |
|               | Naphthalene                 | 50    | 44.0   | ug/L | 88  |     |      |      | 64     | 107  |     |
|               | 4-Chloroaniline             | 50    | 11.0   | ug/L | 22  |     |      |      | 10     | 85   |     |
|               | Hexachlorobutadiene         | 50    | 47.2   | ug/L | 94  |     |      |      | 69     | 101  |     |
|               | Caprolactam                 | 50    | 54.6   | ug/L | 109 |     |      |      | 58     | 128  |     |
|               | 4-Chloro-3-methylphenol     | 50    | 55.4   | ug/L | 111 |     |      |      | 65     | 114  |     |
|               | 2-Methylnaphthalene         | 50    | 43.1   | ug/L | 86  |     |      |      | 64     | 107  |     |
|               | Hexachlorocyclopentadiene   | 100   | 230    | ug/L | 230 |     | *    |      | 36     | 160  |     |
|               | 2,4,6-Trichlorophenol       | 50    | 51.7   | ug/L | 103 |     |      |      | 61     | 110  |     |
|               | 2,4,5-Trichlorophenol       | 50    | 53.5   | ug/L | 107 |     | *    |      | 70     | 106  |     |
|               | 1,1-Biphenyl                | 50    | 44.4   | ug/L | 89  |     |      |      | 72     | 98   |     |
|               | 2-Chloronaphthalene         | 50    | 44.9   | ug/L | 90  |     |      |      | 59     | 106  |     |
|               | 2-Nitroaniline              | 50    | 52.9   | ug/L | 106 |     |      |      | 73     | 114  |     |
|               | Dimethylphthalate           | 50    | 47.5   | ug/L | 95  |     |      |      | 64     | 103  |     |
|               | Acenaphthylene              | 50    | 49.4   | ug/L | 99  |     |      |      | 79     | 103  |     |
|               | 2,6-Dinitrotoluene          | 50    | 49.7   | ug/L | 99  |     |      |      | 64     | 110  |     |
|               | 3-Nitroaniline              | 50    | 20.6   | ug/L | 41  |     |      |      | 28     | 100  |     |
|               | Acenaphthene                | 50    | 45.0   | ug/L | 90  |     |      |      | 59     | 113  |     |
|               | 2,4-Dinitrophenol           | 100   | 140    | ug/L | 140 |     |      |      | 36     | 166  |     |
|               | 4-Nitrophenol               | 100   | 110    | ug/L | 110 |     |      |      | 45     | 147  |     |
|               | Dibenzofuran                | 50    | 44.1   | ug/L | 88  |     |      |      | 65     | 106  |     |
|               | 2,4-Dinitrotoluene          | 50    | 54.2   | ug/L | 108 |     |      |      | 60     | 115  |     |
|               | Diethylphthalate            | 50    | 48.4   | ug/L | 97  |     |      |      | 63     | 105  |     |
|               | 4-Chlorophenyl-phenylether  | 50    | 46.3   | ug/L | 93  |     |      |      | 61     | 104  |     |
|               | Fluorene                    | 50    | 47.0   | ug/L | 94  |     |      |      | 64     | 107  |     |
|               | 4-Nitroaniline              | 50    | 50.5   | ug/L | 101 |     |      |      | 55     | 125  |     |
|               | 4,6-Dinitro-2-methylphenol  | 50    | 66.5   | ug/L | 133 |     | *    |      | 62     | 132  |     |
|               | N-Nitrosodiphenylamine      | 50    | 48.6   | ug/L | 97  |     |      |      | 61     | 109  |     |
|               | 4-Bromophenyl-phenylether   | 50    | 50.8   | ug/L | 102 |     |      |      | 73     | 103  |     |



## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: 8270E

DataFile: BG064173.D

| Lab Sample ID | Parameter                  | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Limits |      | RPD |  |
|---------------|----------------------------|-------|--------|------|-----|-----|------|------|--------|------|-----|--|
|               |                            |       |        |      |     |     |      | Qual | Low    | High |     |  |
| PB167393BS    | Hexachlorobenzene          | 50    | 48.8   | ug/L | 98  |     |      |      |        | 73   | 106 |  |
|               | Atrazine                   | 50    | 67.3   | ug/L | 135 |     | *    |      |        | 76   | 120 |  |
|               | Pentachlorophenol          | 100   | 100    | ug/L | 100 |     |      |      |        | 47   | 114 |  |
|               | Phenanthrene               | 50    | 47.4   | ug/L | 95  |     |      |      |        | 62   | 109 |  |
|               | Anthracene                 | 50    | 49.3   | ug/L | 99  |     |      |      |        | 65   | 110 |  |
|               | Carbazole                  | 50    | 46.7   | ug/L | 93  |     |      |      |        | 62   | 106 |  |
|               | Di-n-butylphthalate        | 50    | 49.4   | ug/L | 99  |     |      |      |        | 64   | 106 |  |
|               | Fluoranthene               | 50    | 45.8   | ug/L | 92  |     |      |      |        | 64   | 110 |  |
|               | Pyrene                     | 50    | 47.4   | ug/L | 95  |     |      |      |        | 71   | 103 |  |
|               | Butylbenzylphthalate       | 50    | 53.8   | ug/L | 108 |     | *    |      |        | 61   | 105 |  |
|               | 3,3-Dichlorobenzidine      | 50    | 23.4   | ug/L | 47  |     |      |      |        | 43   | 108 |  |
|               | Benzo(a)anthracene         | 50    | 48.1   | ug/L | 96  |     |      |      |        | 62   | 107 |  |
|               | Chrysene                   | 50    | 45.7   | ug/L | 91  |     |      |      |        | 61   | 108 |  |
|               | bis(2-Ethylhexyl)phthalate | 50    | 54.5   | ug/L | 109 |     |      |      |        | 59   | 110 |  |
|               | Di-n-octyl phthalate       | 50    | 54.4   | ug/L | 109 |     |      |      |        | 52   | 139 |  |
|               | Benzo(b)fluoranthene       | 50    | 47.7   | ug/L | 95  |     |      |      |        | 77   | 113 |  |
|               | Benzo(k)fluoranthene       | 50    | 45.3   | ug/L | 91  |     |      |      |        | 77   | 105 |  |
|               | Benzo(a)pyrene             | 50    | 51.0   | ug/L | 102 |     |      |      |        | 72   | 131 |  |
|               | Indeno(1,2,3-cd)pyrene     | 50    | 50.8   | ug/L | 102 |     |      |      |        | 72   | 105 |  |
|               | Dibenz(a,h)anthracene      | 50    | 51.0   | ug/L | 102 |     |      |      |        | 78   | 115 |  |
|               | Benzo(g,h,i)perylene       | 50    | 47.1   | ug/L | 94  |     |      |      |        | 75   | 118 |  |
|               | 1,2,4,5-Tetrachlorobenzene | 50    | 43.3   | ug/L | 87  |     |      |      |        | 72   | 101 |  |
|               | 1,4-Dioxane                | 50    | 28.2   | ug/L | 56  |     |      |      |        | 38   | 125 |  |
|               | 2,3,4,6-Tetrachlorophenol  | 50    | 55.5   | ug/L | 111 |     |      |      |        | 63   | 116 |  |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167393BL

Lab Name: CHEMTECH

Contract: ROYF02

Lab Code: CHEM Case No.: Q1664

SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: BG064171.D

Lab Sample ID: PB167393BL

Instrument ID: BNA\_G

Date Extracted: 03/31/2025

Matrix: (soil/water) Water

Date Analyzed: 04/03/2025

Level: (low/med) LOW

Time Analyzed: 17:56

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA<br>SAMPLE NO.       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-------------------------|------------------|----------------|------------------|
| PB167393BS              | PB167393BS       | BG064173.D     | 04/03/2025       |
| P001-BBDGA-001-01       | Q1664-04         | BG064134.D     | 04/01/2025       |
| P001-BBDGA-001-01-05MS  | Q1664-05MS       | BG064135.D     | 04/01/2025       |
| P001-BBDGA-001-01-06MSD | Q1664-06MSD      | BG064136.D     | 04/01/2025       |
| P001-BBDGA-001-02       | Q1664-08         | BG064137.D     | 04/01/2025       |
| P001-BBDGA-002-01       | Q1664-10         | BG064138.D     | 04/01/2025       |
| P001-BBDGA-003-01       | Q1664-12         | BG064139.D     | 04/01/2025       |
| P001-BBDGA-004-01       | Q1664-14         | BG064140.D     | 04/01/2025       |
| P001-BBDGA-005-01       | Q1664-16         | BG064141.D     | 04/01/2025       |
| P001-BBDGA-006-01       | Q1664-18         | BG064142.D     | 04/01/2025       |
| P001-BBDGA-007-01       | Q1664-20         | BG064143.D     | 04/01/2025       |
| P001-BBDGA-008-01       | Q1664-22         | BG064144.D     | 04/01/2025       |
| PB167393TB              | PB167393TB       | BG064169.D     | 04/03/2025       |

COMMENTS: \_\_\_\_\_



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ROYF02Lab Code: CHEMSAS No.: Q1664SDG NO.: Q1664Lab File ID: BG064044.DDFTPP Injection Date: 03/05/2025Instrument ID: BNA\_GDFTPP Injection Time: 08:15

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 55.3                 |
| 68  | Less than 2.0% of mass 69          | 0.4 ( 1.1 ) 1        |
| 69  | Mass 69 relative abundance         | 38                   |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 47                   |
| 197 | Less than 2.0% of mass 198         | 0.6                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.4                  |
| 275 | 10.0 - 60.0% of mass 198           | 26.2                 |
| 365 | Greater than 1% of mass 198        | 4.5                  |
| 441 | Present, but less than mass 443    | 13.7                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 17.2 (20.2) 2        |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDICC2.5        | SSTDICC2.5       | BG064045.D     | 03/05/2025       | 09:02            |
| SSTDICC005        | SSTDICC005       | BG064046.D     | 03/05/2025       | 09:42            |
| SSTDICC010        | SSTDICC010       | BG064047.D     | 03/05/2025       | 10:22            |
| SSTDICC020        | SSTDICC020       | BG064048.D     | 03/05/2025       | 11:03            |
| SSTDICCC040       | SSTDICCC040      | BG064049.D     | 03/05/2025       | 11:43            |
| SSTDICC050        | SSTDICC050       | BG064050.D     | 03/05/2025       | 12:23            |
| SSTDICC060        | SSTDICC060       | BG064051.D     | 03/05/2025       | 13:04            |
| SSTDICC080        | SSTDICC080       | BG064052.D     | 03/05/2025       | 13:44            |



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ROYF02Lab Code: CHEMSAS No.: Q1664SDG NO.: Q1664Lab File ID: BG064129.DDFTPP Injection Date: 04/01/2025Instrument ID: BNA\_GDFTPP Injection Time: 10:13

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 57                   |
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 38.6                 |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 47.9                 |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.9                  |
| 275 | 10.0 - 60.0% of mass 198           | 29.4                 |
| 365 | Greater than 1% of mass 198        | 5.4                  |
| 441 | Present, but less than mass 443    | 15.5                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 18.1 (19.2) 2        |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO.       | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------------|------------------|----------------|------------------|------------------|
| SSTDCCC040              | SSTDCCC040       | BG064130.D     | 04/01/2025       | 11:38            |
| P001-BBDGA-001-01       | Q1664-04         | BG064134.D     | 04/01/2025       | 14:23            |
| P001-BBDGA-001-01-05MS  | Q1664-05MS       | BG064135.D     | 04/01/2025       | 15:03            |
| P001-BBDGA-001-01-06MSD | Q1664-06MSD      | BG064136.D     | 04/01/2025       | 15:44            |
| P001-BBDGA-001-02       | Q1664-08         | BG064137.D     | 04/01/2025       | 16:24            |
| P001-BBDGA-002-01       | Q1664-10         | BG064138.D     | 04/01/2025       | 17:04            |
| P001-BBDGA-003-01       | Q1664-12         | BG064139.D     | 04/01/2025       | 17:45            |
| P001-BBDGA-004-01       | Q1664-14         | BG064140.D     | 04/01/2025       | 18:25            |
| P001-BBDGA-005-01       | Q1664-16         | BG064141.D     | 04/01/2025       | 19:05            |
| P001-BBDGA-006-01       | Q1664-18         | BG064142.D     | 04/01/2025       | 19:45            |
| P001-BBDGA-007-01       | Q1664-20         | BG064143.D     | 04/01/2025       | 20:26            |
| P001-BBDGA-008-01       | Q1664-22         | BG064144.D     | 04/01/2025       | 21:06            |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ROYF02Lab Code: CHEMSAS No.: Q1664 SDG NO.: Q1664Lab File ID: BG064163.DDFTPP Injection Date: 04/03/2025Instrument ID: BNA\_GDFTPP Injection Time: 12:24

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51  | 10.0 - 80.0% of mass 198           | 56                   |
| 68  | Less than 2.0% of mass 69          | 0.3 ( 0.8 ) 1        |
| 69  | Mass 69 relative abundance         | 40.6                 |
| 70  | Less than 2.0% of mass 69          | 0.3 ( 0.8 ) 1        |
| 127 | 10.0 - 80.0% of mass 198           | 48.4                 |
| 197 | Less than 2.0% of mass 198         | 0.5                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 7.7                  |
| 275 | 10.0 - 60.0% of mass 198           | 28.1                 |
| 365 | Greater than 1% of mass 198        | 4.6                  |
| 441 | Present, but less than mass 443    | 14.4                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 16.4 (20.2) 2        |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDCCC040        | SSTDCCC040       | BG064164.D     | 04/03/2025       | 13:04            |
| PB167393TB        | PB167393TB       | BG064169.D     | 04/03/2025       | 16:34            |
| PB167393BL        | PB167393BL       | BG064171.D     | 04/03/2025       | 17:56            |
| PB167393BS        | PB167393BS       | BG064173.D     | 04/03/2025       | 19:17            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/01/2025

Lab File ID: BG064130.D Time Analyzed: 11:38

Instrument ID: BNA\_G GC Column: ZB-GR ID: 0.25 (mm)

|                            | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #   | IS3 (ANT)<br>AREA # | RT #   |
|----------------------------|---------------------|-------|---------------------|--------|---------------------|--------|
| 12 HOUR STD                | 35250               | 7.864 | 155899              | 10.65  | 116262              | 14.49  |
| UPPER LIMIT                | 70500               | 8.364 | 311798              | 11.149 | 232524              | 14.985 |
| LOWER LIMIT                | 17625               | 7.364 | 77949.5             | 10.149 | 58131               | 13.985 |
| EPA SAMPLE NO.             |                     |       |                     |        |                     |        |
| 01 P001-BBDGA-001-01       | 36149               | 7.86  | 145902              | 10.65  | 100632              | 14.48  |
| 02 P001-BBDGA-001-01-05MS  | 35803               | 7.86  | 150441              | 10.65  | 102278              | 14.48  |
| 03 P001-BBDGA-001-01-06MSD | 32445               | 7.86  | 141900              | 10.65  | 97582               | 14.49  |
| 04 P001-BBDGA-001-02       | 33101               | 7.86  | 138071              | 10.65  | 94366               | 14.48  |
| 05 P001-BBDGA-002-01       | 32858               | 7.86  | 138416              | 10.64  | 91944               | 14.48  |
| 06 P001-BBDGA-003-01       | 34101               | 7.86  | 141057              | 10.65  | 95411               | 14.48  |
| 07 P001-BBDGA-004-01       | 35625               | 7.86  | 147982              | 10.65  | 101170              | 14.48  |
| 08 P001-BBDGA-005-01       | 32945               | 7.86  | 139968              | 10.65  | 95119               | 14.48  |
| 09 P001-BBDGA-006-01       | 34864               | 7.86  | 141203              | 10.64  | 96364               | 14.48  |
| 10 P001-BBDGA-007-01       | 34800               | 7.86  | 145195              | 10.65  | 100676              | 14.48  |
| 11 P001-BBDGA-008-01       | 34102               | 7.86  | 146359              | 10.64  | 99405               | 14.48  |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/01/2025

Lab File ID: BG064130.D Time Analyzed: 11:38

Instrument ID: BNA\_G GC Column: ZB-GR ID: 0.25 (mm)

|                            | IS4 (PHN)<br>AREA # | RT #   | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|----------------------------|---------------------|--------|---------------------|--------|---------------------|--------|
| 12 HOUR STD                | 250435              | 17.223 | 243510              | 21.459 | 261203              | 24.468 |
| UPPER LIMIT                | 500870              | 17.723 | 487020              | 21.959 | 522406              | 24.968 |
| LOWER LIMIT                | 125218              | 16.723 | 121755              | 20.959 | 130602              | 23.968 |
| EPA SAMPLE NO.             |                     |        |                     |        |                     |        |
| 01 P001-BBDGA-001-01       | 238066              | 17.22  | 264272              | 21.45  | 280516              | 24.47  |
| 02 P001-BBDGA-001-01-05MS  | 228948              | 17.23  | 259874              | 21.46  | 281028              | 24.47  |
| 03 P001-BBDGA-001-01-06MSD | 230185              | 17.22  | 254217              | 21.45  | 279147              | 24.46  |
| 04 P001-BBDGA-001-02       | 226571              | 17.22  | 263789              | 21.45  | 282032              | 24.46  |
| 05 P001-BBDGA-002-01       | 218786              | 17.22  | 249872              | 21.45  | 272575              | 24.46  |
| 06 P001-BBDGA-003-01       | 229133              | 17.22  | 251581              | 21.45  | 271745              | 24.46  |
| 07 P001-BBDGA-004-01       | 235772              | 17.22  | 265131              | 21.45  | 282446              | 24.46  |
| 08 P001-BBDGA-005-01       | 227404              | 17.22  | 259176              | 21.45  | 276065              | 24.47  |
| 09 P001-BBDGA-006-01       | 230878              | 17.22  | 262499              | 21.45  | 281469              | 24.46  |
| 10 P001-BBDGA-007-01       | 224548              | 17.22  | 255840              | 21.45  | 278315              | 24.46  |
| 11 P001-BBDGA-008-01       | 239679              | 17.22  | 275927              | 21.45  | 287353              | 24.46  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/03/2025

Lab File ID: BG064164.D Time Analyzed: 13:04

Instrument ID: BNA\_G GC Column: ZB-GR ID: 0.25 (mm)

|                | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #   | IS3 (ANT)<br>AREA # | RT #   |
|----------------|---------------------|-------|---------------------|--------|---------------------|--------|
| 12 HOUR STD    | 32960               | 7.856 | 151982              | 10.65  | 113011              | 14.48  |
| UPPER LIMIT    | 65920               | 8.356 | 303964              | 11.152 | 226022              | 14.983 |
| LOWER LIMIT    | 16480               | 7.356 | 75991               | 10.152 | 56505.5             | 13.983 |
| EPA SAMPLE NO. |                     |       |                     |        |                     |        |
| 01 PB167393BL  | 25692               | 7.86  | 118561              | 10.65  | 97336               | 14.48  |
| 02 PB167393BS  | 28326               | 7.86  | 137392              | 10.65  | 107393              | 14.48  |
| 03 PB167393TB  | 29004               | 7.86  | 129149              | 10.65  | 102109              | 14.49  |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.



8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/03/2025

Lab File ID: BG064164.D Time Analyzed: 13:04

Instrument ID: BNA\_G GC Column: ZB-GR ID: 0.25 (mm)

|                | IS4 (PHN)<br>AREA # | RT #   | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|----------------|---------------------|--------|---------------------|--------|---------------------|--------|
| 12 HOUR STD    | 257861              | 17.227 | 259274              | 21.457 | 274699              | 24.471 |
| UPPER LIMIT    | 515722              | 17.727 | 518548              | 21.957 | 549398              | 24.971 |
| LOWER LIMIT    | 128931              | 16.727 | 129637              | 20.957 | 137350              | 23.971 |
| EPA SAMPLE NO. |                     |        |                     |        |                     |        |
| 01 PB167393BL  | 234504              | 17.22  | 246421              | 21.45  | 258720              | 24.47  |
| 02 PB167393BS  | 248813              | 17.22  | 248832              | 21.45  | 264036              | 24.47  |
| 03 PB167393TB  | 242395              | 17.22  | 251465              | 21.45  | 271920              | 24.47  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.



# SAMPLE DATA

## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/31/25     |
| Project:           | RFP 905                | Date Received:  | 03/31/25     |
| Client Sample ID:  | PB167393TB             | SDG No.:        | Q1664        |
| Lab Sample ID:     | PB167393TB             | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064169.D        | 1         | 03/31/25 11:00 | 04/03/25 16:34 | PB167393      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|-----------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                             |       |           |      |            |       |
| 100-52-7       | Benzaldehyde                | 3.90  | U         | 3.90 | 10.0       | ug/L  |
| 108-95-2       | Phenol                      | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.81  | U         | 0.81 | 5.00       | ug/L  |
| 95-57-8        | 2-Chlorophenol              | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 95-48-7        | 2-Methylphenol              | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 98-86-2        | Acetophenone                | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 65794-96-9     | 3+4-Methylphenols           | 1.10  | UQ        | 1.10 | 10.0       | ug/L  |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 1.40  | U         | 1.40 | 2.50       | ug/L  |
| 67-72-1        | Hexachloroethane            | 0.65  | U         | 0.65 | 5.00       | ug/L  |
| 98-95-3        | Nitrobenzene                | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 78-59-1        | Isophorone                  | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 88-75-5        | 2-Nitrophenol               | 1.80  | UQ        | 1.80 | 5.00       | ug/L  |
| 105-67-9       | 2,4-Dimethylphenol          | 1.90  | U         | 1.90 | 5.00       | ug/L  |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 120-83-2       | 2,4-Dichlorophenol          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 91-20-3        | Naphthalene                 | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 106-47-8       | 4-Chloroaniline             | 0.84  | U         | 0.84 | 5.00       | ug/L  |
| 87-68-3        | Hexachlorobutadiene         | 0.54  | U         | 0.54 | 5.00       | ug/L  |
| 105-60-2       | Caprolactam                 | 1.10  | U         | 1.10 | 10.0       | ug/L  |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 91-57-6        | 2-Methylnaphthalene         | 0.56  | U         | 0.56 | 5.00       | ug/L  |
| 77-47-4        | Hexachlorocyclopentadiene   | 3.60  | UQ        | 3.60 | 10.0       | ug/L  |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.51  | U         | 0.51 | 5.00       | ug/L  |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.62  | UQ        | 0.62 | 5.00       | ug/L  |
| 92-52-4        | 1,1-Biphenyl                | 0.53  | U         | 0.53 | 5.00       | ug/L  |
| 91-58-7        | 2-Chloronaphthalene         | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 88-74-4        | 2-Nitroaniline              | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 131-11-3       | Dimethylphthalate           | 0.61  | U         | 0.61 | 5.00       | ug/L  |

### Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/31/25 |
| Project:           | RFP 905                | Date Received:  | 03/31/25 |
| Client Sample ID:  | PB167393TB             | SDG No.:        | Q1664    |
| Lab Sample ID:     | PB167393TB             | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064169.D        | 1         | 03/31/25 11:00 | 04/03/25 16:34 | PB167393      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|------------|----------------------------|-------|-----------|------|------------|-------|
| 208-96-8   | Acenaphthylene             | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 99-09-2    | 3-Nitroaniline             | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 83-32-9    | Acenaphthene               | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 51-28-5    | 2,4-Dinitrophenol          | 6.00  | U         | 6.00 | 10.0       | ug/L  |
| 100-02-7   | 4-Nitrophenol              | 2.40  | U         | 2.40 | 10.0       | ug/L  |
| 132-64-9   | Dibenzofuran               | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 121-14-2   | 2,4-Dinitrotoluene         | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 84-66-2    | Diethylphthalate           | 0.69  | U         | 0.69 | 5.00       | ug/L  |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 86-73-7    | Fluorene                   | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 100-01-6   | 4-Nitroaniline             | 1.50  | U         | 1.50 | 5.00       | ug/L  |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 2.90  | UQ        | 2.90 | 10.0       | ug/L  |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.40  | U         | 0.40 | 5.00       | ug/L  |
| 118-74-1   | Hexachlorobenzene          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 1912-24-9  | Atrazine                   | 1.00  | UQ        | 1.00 | 5.00       | ug/L  |
| 87-86-5    | Pentachlorophenol          | 1.60  | U         | 1.60 | 10.0       | ug/L  |
| 85-01-8    | Phenanthrene               | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 120-12-7   | Anthracene                 | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 86-74-8    | Carbazole                  | 0.72  | U         | 0.72 | 5.00       | ug/L  |
| 84-74-2    | Di-n-butylphthalate        | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 206-44-0   | Fluoranthene               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 129-00-0   | Pyrene                     | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 85-68-7    | Butylbenzylphthalate       | 1.90  | UQ        | 1.90 | 5.00       | ug/L  |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.93  | U         | 0.93 | 10.0       | ug/L  |
| 56-55-3    | Benzo(a)anthracene         | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 218-01-9   | Chrysene                   | 0.44  | U         | 0.44 | 5.00       | ug/L  |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 1.60  | U         | 1.60 | 5.00       | ug/L  |
| 117-84-0   | Di-n-octyl phthalate       | 2.30  | U         | 2.30 | 10.0       | ug/L  |
| 205-99-2   | Benzo(b)fluoranthene       | 0.49  | U         | 0.49 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/31/25 |
| Project:           | RFP 905                | Date Received:  | 03/31/25 |
| Client Sample ID:  | PB167393TB             | SDG No.:        | Q1664    |
| Lab Sample ID:     | PB167393TB             | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064169.D        | 1         | 03/31/25 11:00 | 04/03/25 16:34 | PB167393      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|----------------------------|--------|-----------|----------|------------|----------|
| 207-08-9                  | Benzo(k)fluoranthene       | 0.48   | U         | 0.48     | 5.00       | ug/L     |
| 50-32-8                   | Benzo(a)pyrene             | 0.55   | U         | 0.55     | 5.00       | ug/L     |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 0.59   | U         | 0.59     | 5.00       | ug/L     |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 0.67   | U         | 0.67     | 5.00       | ug/L     |
| 191-24-2                  | Benzo(g,h,i)perylene       | 0.69   | U         | 0.69     | 5.00       | ug/L     |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 0.52   | U         | 0.52     | 5.00       | ug/L     |
| 123-91-1                  | 1,4-Dioxane                | 1.00   | U         | 1.00     | 5.00       | ug/L     |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 0.72   | U         | 0.72     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                            |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol             | 134    |           | 10 - 139 | 89%        | SPK: 150 |
| 13127-88-3                | Phenol-d6                  | 132    |           | 10 - 134 | 88%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5            | 97.9   |           | 49 - 133 | 98%        | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl           | 85.4   |           | 52 - 132 | 85%        | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol       | 157    |           | 44 - 137 | 105%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14              | 92.1   |           | 48 - 125 | 92%        | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 29000  | 7.858     |          |            |          |
| 1146-65-2                 | Naphthalene-d8             | 129000 | 10.649    |          |            |          |
| 15067-26-2                | Acenaphthene-d10           | 102000 | 14.486    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10           | 242000 | 17.224    |          |            |          |
| 1719-03-5                 | Chrysene-d12               | 251000 | 21.454    |          |            |          |
| 1520-96-3                 | Perylene-d12               | 272000 | 24.468    |          |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
Data File : BG064169.D  
Acq On : 3 Apr 2025 16:34  
Operator : RC/JU  
Sample : PB167393TB  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
PB167393TB

Quant Time: Apr 03 17:13:10 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.858  | 152  | 29004    | 20.000  | ng    | # 0.00   |
| 21) Naphthalene-d8          | 10.649 | 136  | 129149   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.486 | 164  | 102109   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.224 | 188  | 242395   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.454 | 240  | 251465   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 24.468 | 264  | 271920   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.449  | 112  | 248305   | 133.676 | ng    | 0.00     |
| 7) Phenol-d6                | 7.030  | 99   | 333662   | 132.042 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.010  | 82   | 228692   | 97.856  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.972 | 330  | 178343   | 157.129 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.111 | 172  | 574550   | 85.409  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.844 | 244  | 1145386  | 92.099  | ng    | 0.00     |

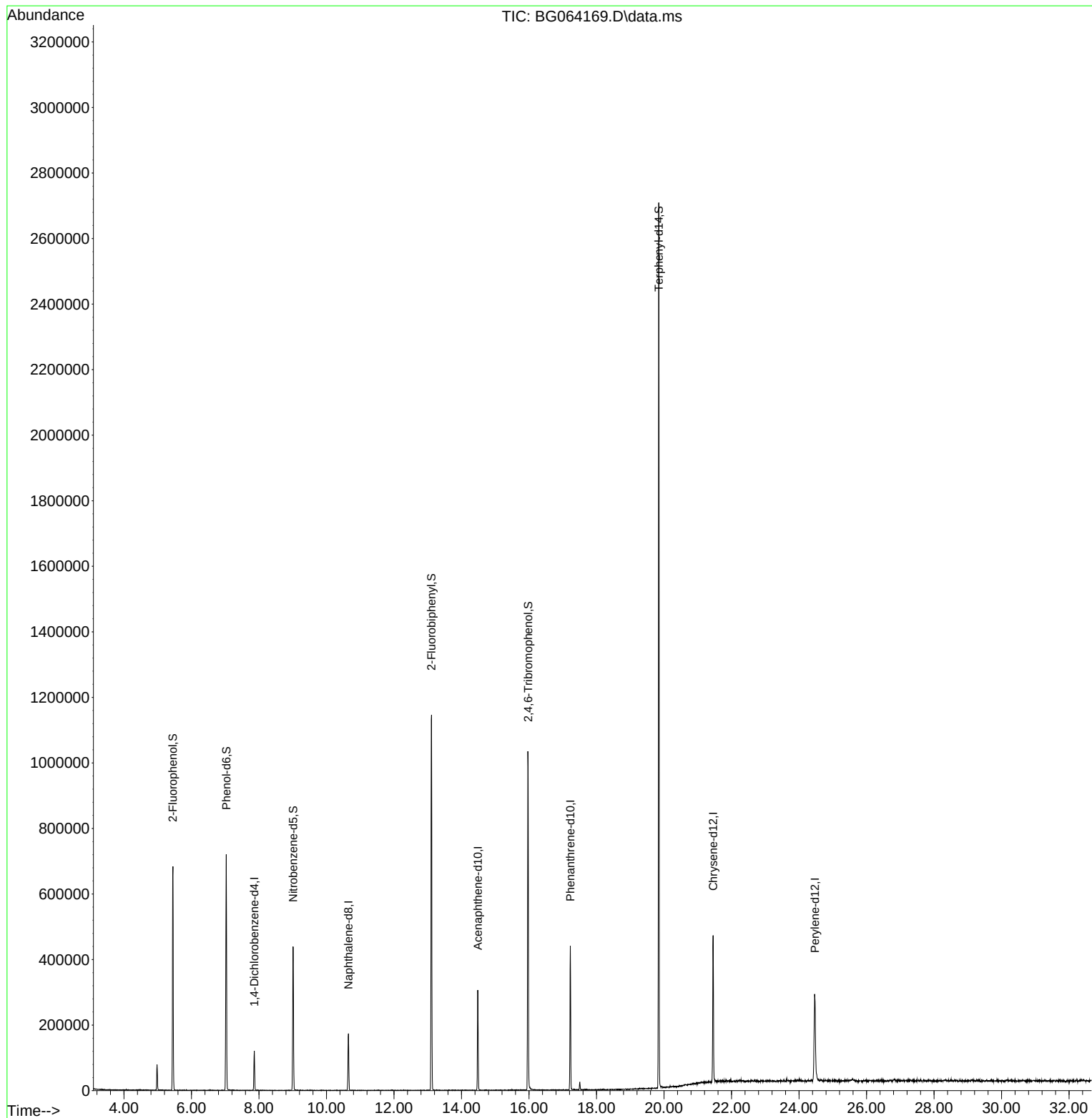
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

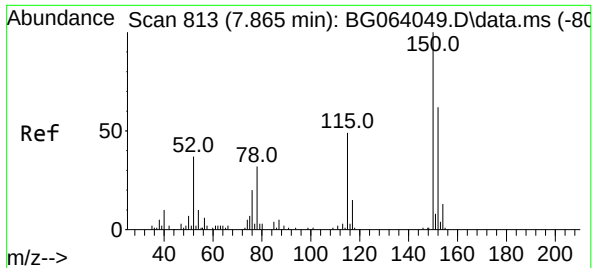
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
Data File : BG064169.D  
Acq On : 3 Apr 2025 16:34  
Operator : RC/JU  
Sample : PB167393TB  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
PB167393TB

Quant Time: Apr 03 17:13:10 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

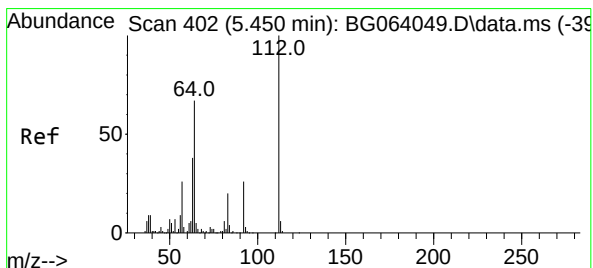
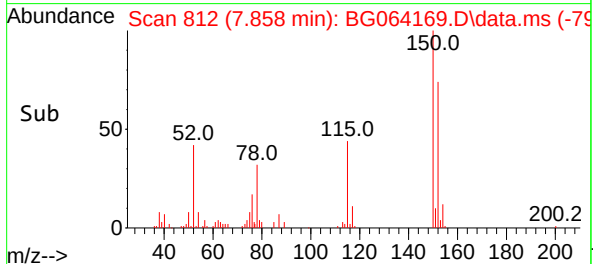
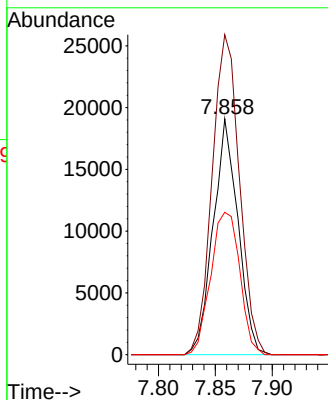
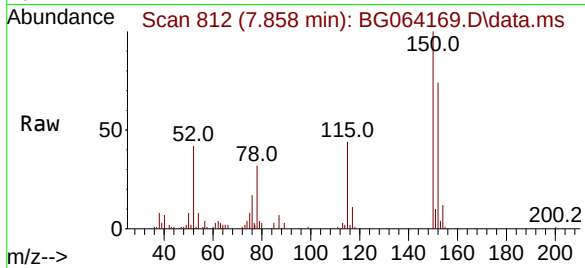




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.858 min Scan# 813  
Delta R.T. -0.007 min  
Lab File: BG064169.D  
Acq: 3 Apr 2025 16:34

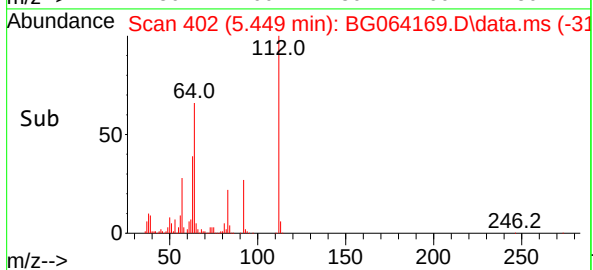
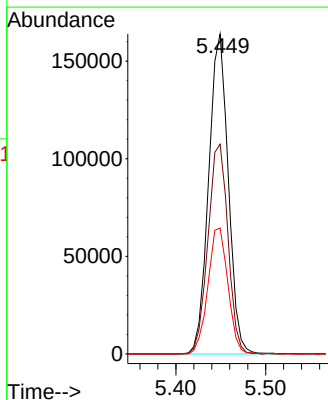
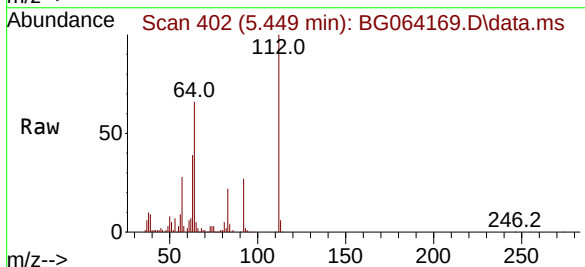
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393TB

Tgt Ion:152 Resp: 29004  
Ion Ratio Lower Upper  
152 100  
150 135.7 129.2 193.8  
115 60.4 63.0 94.6#

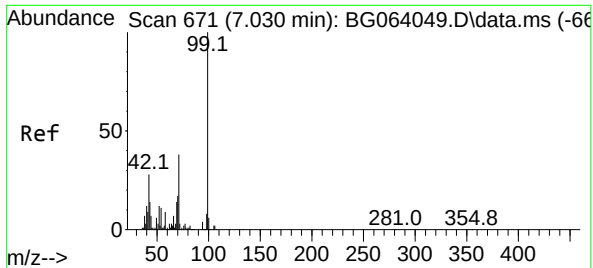


#5  
2-Fluorophenol  
Concen: 133.676 ng  
RT: 5.449 min Scan# 402  
Delta R.T. -0.001 min  
Lab File: BG064169.D  
Acq: 3 Apr 2025 16:34

Tgt Ion:112 Resp: 248305  
Ion Ratio Lower Upper  
112 100  
64 65.6 53.7 80.5  
63 39.4 30.2 45.4



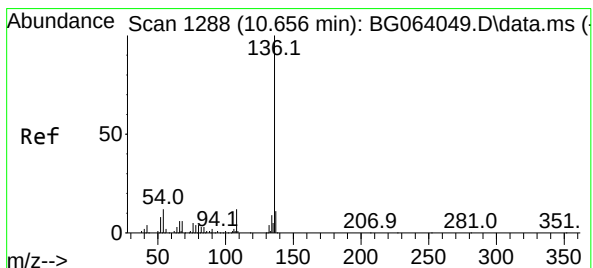
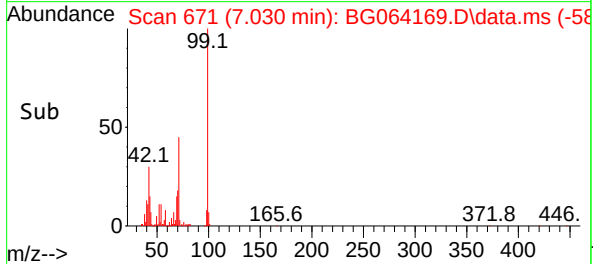
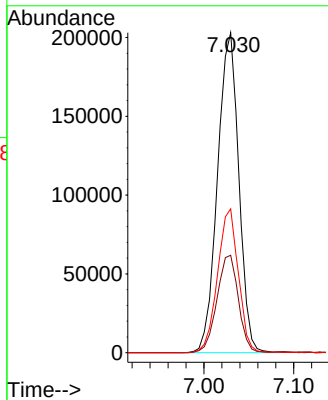
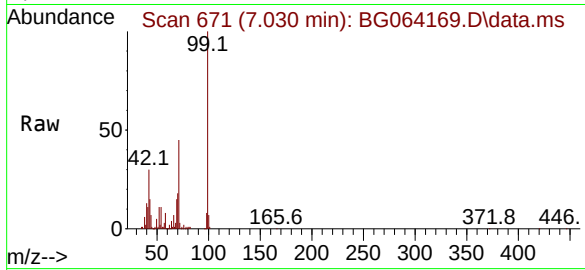




#7  
Phenol-d6  
Concen: 132.042 ng  
RT: 7.030 min Scan# 61  
Delta R.T. -0.001 min  
Lab File: BG064169.D  
Acq: 3 Apr 2025 16:34

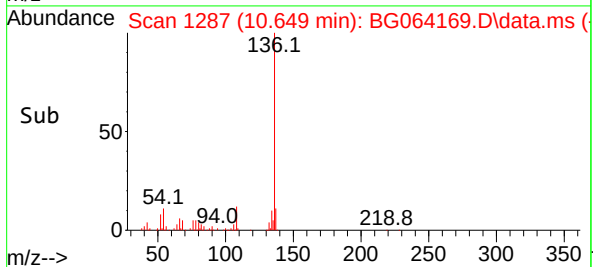
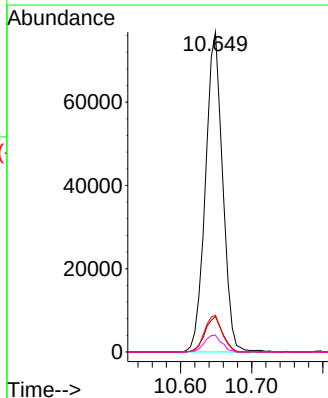
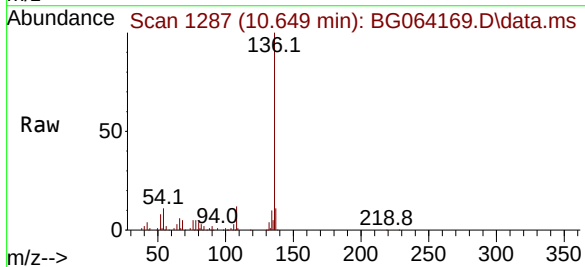
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393TB

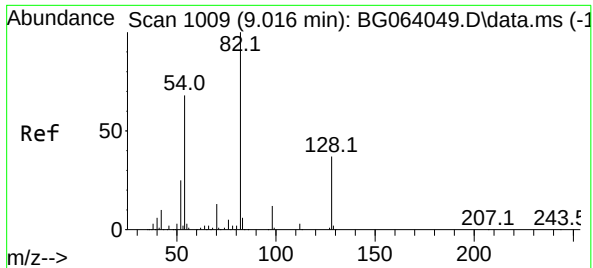
Tgt Ion: 99 Resp: 333662  
Ion Ratio Lower Upper  
99 100  
42 30.5 22.7 34.1  
71 45.0 30.6 46.0



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.649 min Scan# 1287  
Delta R.T. -0.007 min  
Lab File: BG064169.D  
Acq: 3 Apr 2025 16:34

Tgt Ion: 136 Resp: 129149  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.5 12.7  
54 11.5 9.9 14.9  
68 5.3 4.6 6.8

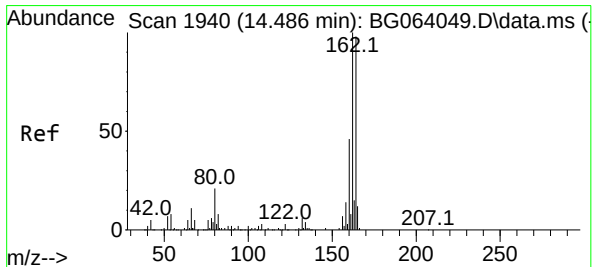
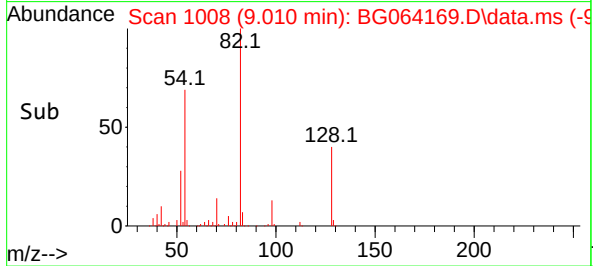
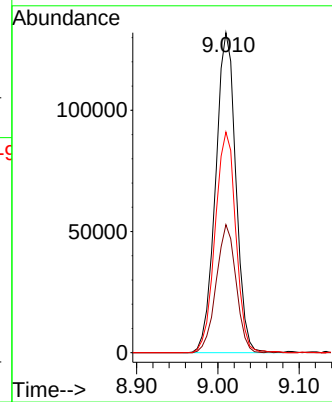
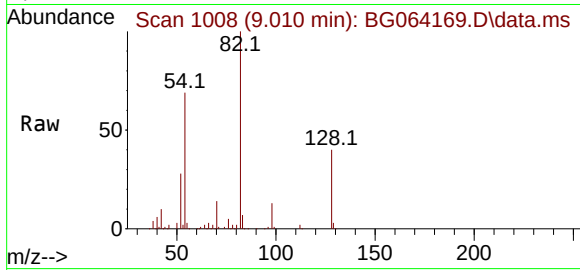




#23  
Nitrobenzene-d5  
Concen: 97.856 ng  
RT: 9.010 min Scan# 1009  
Delta R.T. -0.006 min  
Lab File: BG064169.D  
Acq: 3 Apr 2025 16:34

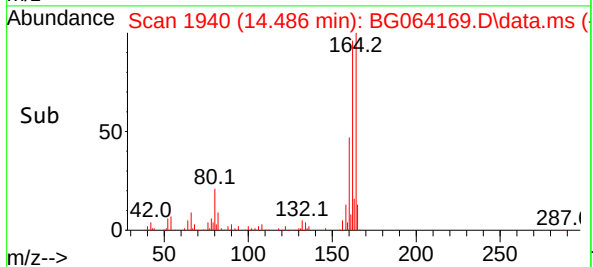
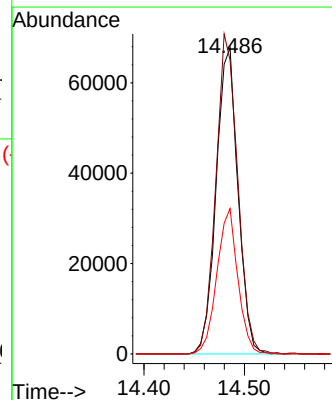
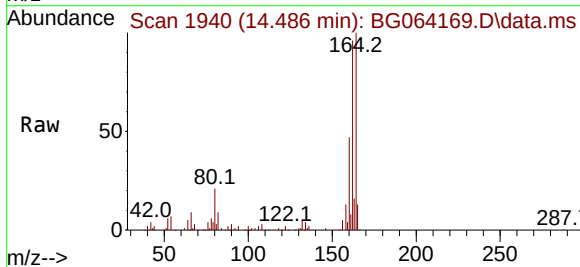
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393TB

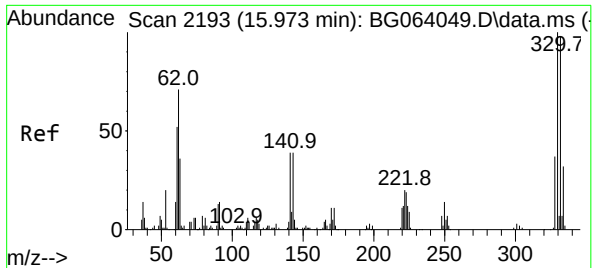
Tgt Ion: 82 Resp: 228692  
Ion Ratio Lower Upper  
82 100  
128 40.0 30.0 45.0  
54 69.0 54.7 82.1



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.486 min Scan# 1940  
Delta R.T. -0.000 min  
Lab File: BG064169.D  
Acq: 3 Apr 2025 16:34

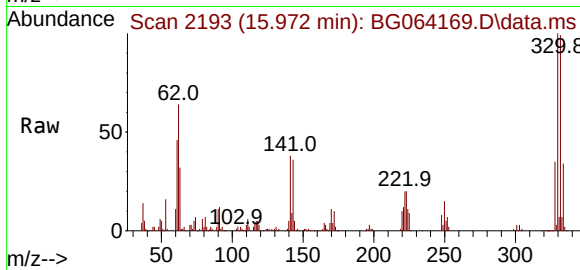
Tgt Ion:164 Resp: 102109  
Ion Ratio Lower Upper  
164 100  
162 95.9 81.4 122.0  
160 47.5 37.0 55.6



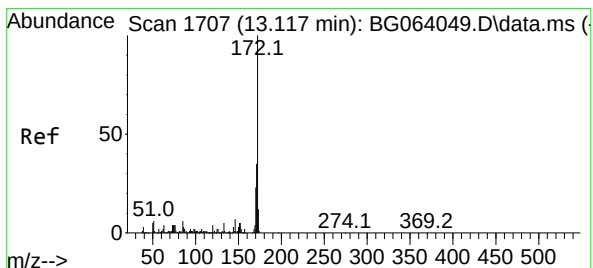
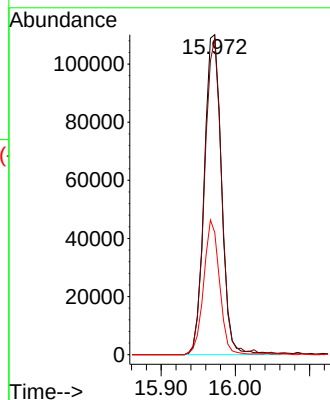
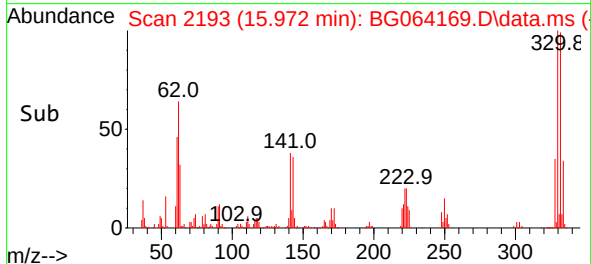


#42  
2,4,6-Tribromophenol  
Concen: 157.129 ng  
RT: 15.972 min Scan# 2193  
Delta R.T. -0.001 min  
Lab File: BG064169.D  
Acq: 3 Apr 2025 16:34

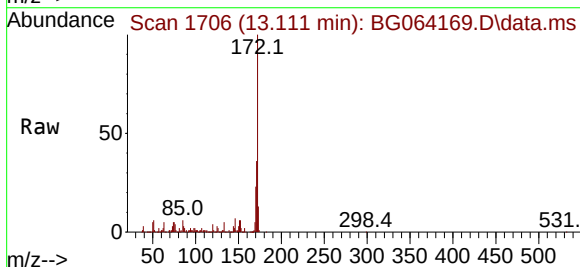
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393TB



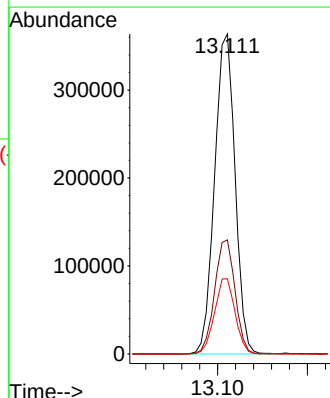
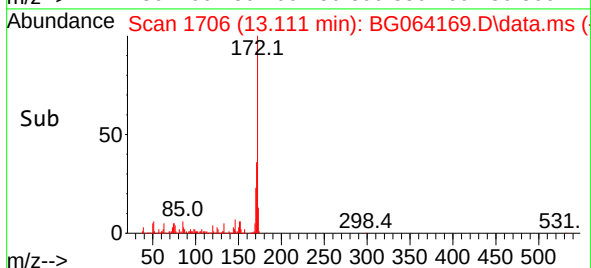
Tgt Ion:330 Resp: 178343  
Ion Ratio Lower Upper  
330 100  
332 96.9 76.7 115.1  
141 38.6 29.7 44.5

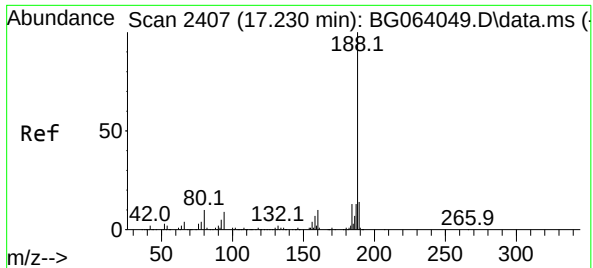


#45  
2-Fluorobiphenyl  
Concen: 85.409 ng  
RT: 13.111 min Scan# 1706  
Delta R.T. -0.007 min  
Lab File: BG064169.D  
Acq: 3 Apr 2025 16:34



Tgt Ion:172 Resp: 574550  
Ion Ratio Lower Upper  
172 100  
171 35.6 28.0 42.0  
170 23.5 18.7 28.1

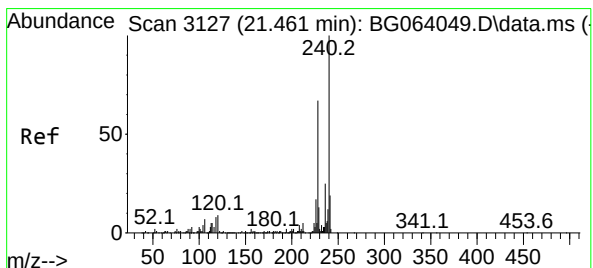
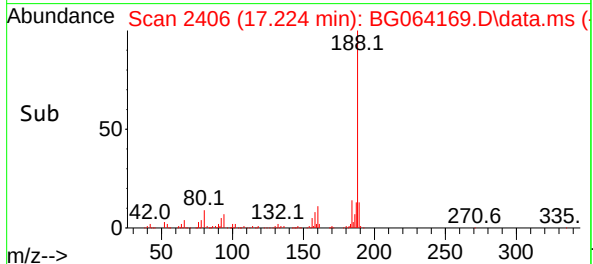
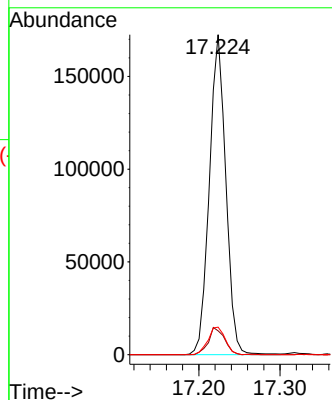
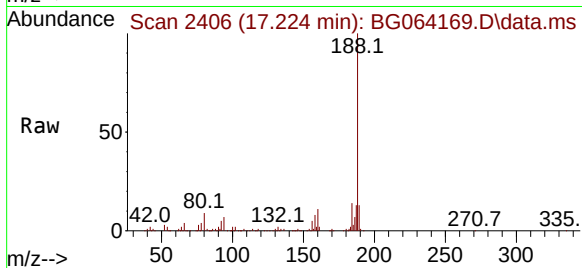




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.224 min Scan# 2406  
Delta R.T. -0.006 min  
Lab File: BG064169.D  
Acq: 3 Apr 2025 16:34

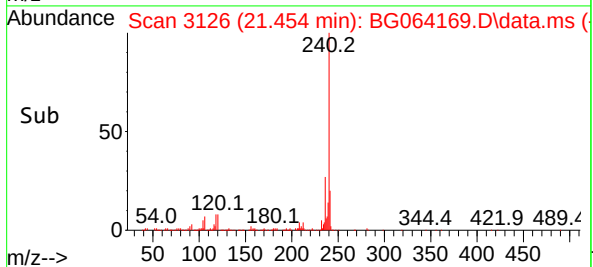
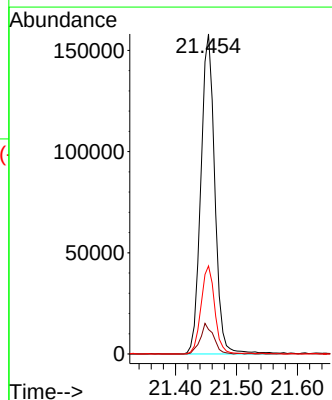
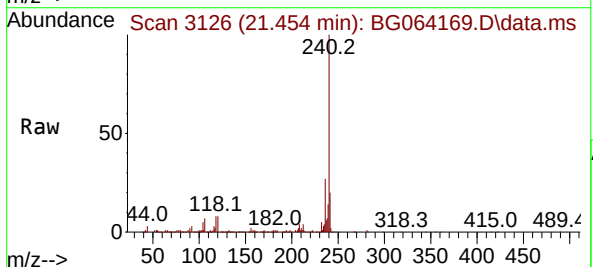
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393TB

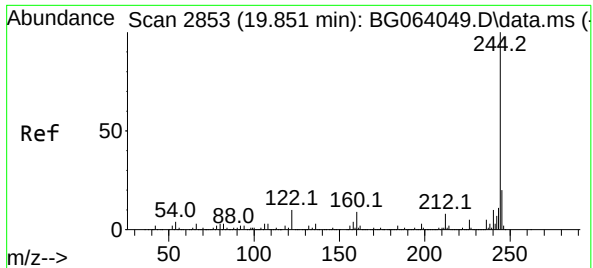
Tgt Ion:188 Resp: 242395  
Ion Ratio Lower Upper  
188 100  
94 7.5 6.9 10.3  
80 8.6 8.1 12.1



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.454 min Scan# 3126  
Delta R.T. -0.006 min  
Lab File: BG064169.D  
Acq: 3 Apr 2025 16:34

Tgt Ion:240 Resp: 251465  
Ion Ratio Lower Upper  
240 100  
120 7.6 7.2 10.8  
236 27.5 20.2 30.2





#79

Terphenyl-d14

Concen: 92.099 ng

RT: 19.844 min Scan# 21

Delta R.T. -0.007 min

Lab File: BG064169.D

Acq: 3 Apr 2025 16:34

Instrument :

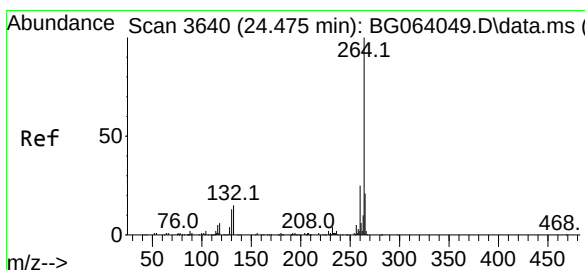
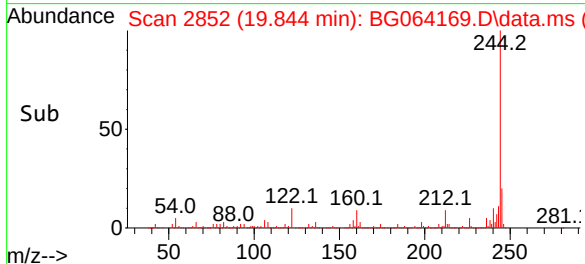
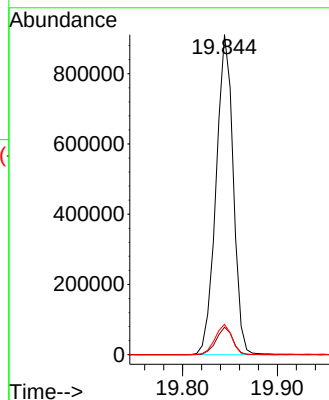
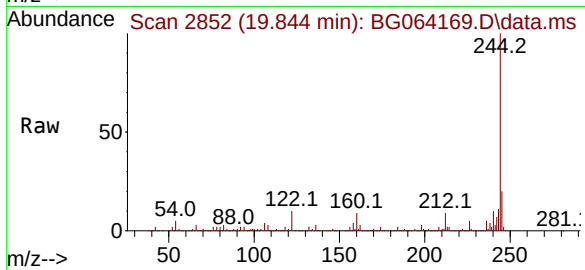
BNA\_G

ClientSampleId :

PB167393TB

Tgt Ion:244 Resp: 1145386

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.6   | 6.2   | 9.4   |
| 122 | 9.5   | 8.0   | 12.0  |



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.468 min Scan# 3639

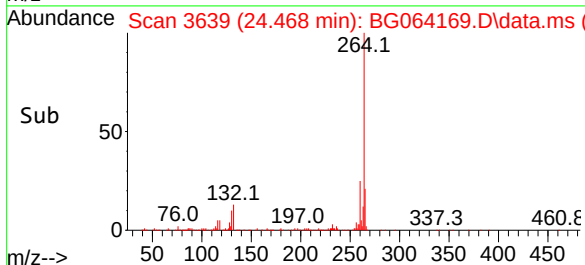
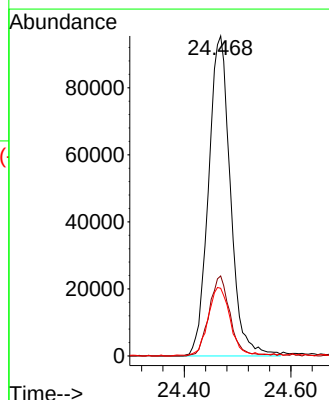
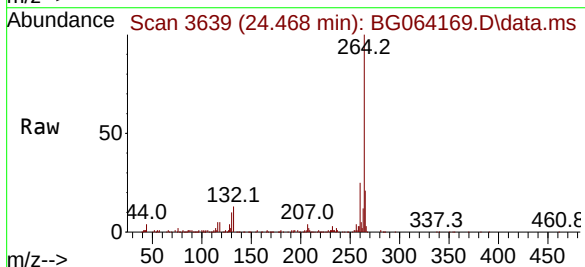
Delta R.T. -0.006 min

Lab File: BG064169.D

Acq: 3 Apr 2025 16:34

Tgt Ion:264 Resp: 271920

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 25.0  | 19.6  | 29.4  |
| 265 | 21.2  | 16.6  | 25.0  |



## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25 |
| Project:           | RFP 905                | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-001-01      | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-04               | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064134.D        | 1         | 03/31/25 11:00 | 04/01/25 14:23 | PB167393      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|-----------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                             |       |           |      |            |       |
| 100-52-7       | Benzaldehyde                | 3.90  | U         | 3.90 | 10.0       | ug/L  |
| 108-95-2       | Phenol                      | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.81  | U         | 0.81 | 5.00       | ug/L  |
| 95-57-8        | 2-Chlorophenol              | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 95-48-7        | 2-Methylphenol              | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 98-86-2        | Acetophenone                | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 65794-96-9     | 3+4-Methylphenols           | 1.10  | UQ        | 1.10 | 10.0       | ug/L  |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 1.40  | U         | 1.40 | 2.50       | ug/L  |
| 67-72-1        | Hexachloroethane            | 0.65  | U         | 0.65 | 5.00       | ug/L  |
| 98-95-3        | Nitrobenzene                | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 78-59-1        | Isophorone                  | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 88-75-5        | 2-Nitrophenol               | 1.80  | UQ        | 1.80 | 5.00       | ug/L  |
| 105-67-9       | 2,4-Dimethylphenol          | 1.90  | U         | 1.90 | 5.00       | ug/L  |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 120-83-2       | 2,4-Dichlorophenol          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 91-20-3        | Naphthalene                 | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 106-47-8       | 4-Chloroaniline             | 0.84  | U         | 0.84 | 5.00       | ug/L  |
| 87-68-3        | Hexachlorobutadiene         | 0.54  | U         | 0.54 | 5.00       | ug/L  |
| 105-60-2       | Caprolactam                 | 1.10  | U         | 1.10 | 10.0       | ug/L  |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 91-57-6        | 2-Methylnaphthalene         | 0.56  | U         | 0.56 | 5.00       | ug/L  |
| 77-47-4        | Hexachlorocyclopentadiene   | 3.60  | UQ        | 3.60 | 10.0       | ug/L  |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.51  | U         | 0.51 | 5.00       | ug/L  |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.62  | UQ        | 0.62 | 5.00       | ug/L  |
| 92-52-4        | 1,1-Biphenyl                | 0.53  | U         | 0.53 | 5.00       | ug/L  |
| 91-58-7        | 2-Chloronaphthalene         | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 88-74-4        | 2-Nitroaniline              | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 131-11-3       | Dimethylphthalate           | 0.61  | U         | 0.61 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-001-01      | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-04               | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064134.D        | 1         | 03/31/25 11:00 | 04/01/25 14:23 | PB167393      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|------------|----------------------------|-------|-----------|------|------------|-------|
| 208-96-8   | Acenaphthylene             | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 99-09-2    | 3-Nitroaniline             | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 83-32-9    | Acenaphthene               | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 51-28-5    | 2,4-Dinitrophenol          | 6.00  | U         | 6.00 | 10.0       | ug/L  |
| 100-02-7   | 4-Nitrophenol              | 2.40  | U         | 2.40 | 10.0       | ug/L  |
| 132-64-9   | Dibenzofuran               | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 121-14-2   | 2,4-Dinitrotoluene         | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 84-66-2    | Diethylphthalate           | 0.69  | U         | 0.69 | 5.00       | ug/L  |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 86-73-7    | Fluorene                   | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 100-01-6   | 4-Nitroaniline             | 1.50  | U         | 1.50 | 5.00       | ug/L  |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 2.90  | UQ        | 2.90 | 10.0       | ug/L  |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.40  | U         | 0.40 | 5.00       | ug/L  |
| 118-74-1   | Hexachlorobenzene          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 1912-24-9  | Atrazine                   | 1.00  | UQ        | 1.00 | 5.00       | ug/L  |
| 87-86-5    | Pentachlorophenol          | 1.60  | U         | 1.60 | 10.0       | ug/L  |
| 85-01-8    | Phenanthrene               | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 120-12-7   | Anthracene                 | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 86-74-8    | Carbazole                  | 0.72  | U         | 0.72 | 5.00       | ug/L  |
| 84-74-2    | Di-n-butylphthalate        | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 206-44-0   | Fluoranthene               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 129-00-0   | Pyrene                     | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 85-68-7    | Butylbenzylphthalate       | 1.90  | UQ        | 1.90 | 5.00       | ug/L  |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.93  | U         | 0.93 | 10.0       | ug/L  |
| 56-55-3    | Benzo(a)anthracene         | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 218-01-9   | Chrysene                   | 0.44  | U         | 0.44 | 5.00       | ug/L  |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 1.60  | U         | 1.60 | 5.00       | ug/L  |
| 117-84-0   | Di-n-octyl phthalate       | 2.30  | U         | 2.30 | 10.0       | ug/L  |
| 205-99-2   | Benzo(b)fluoranthene       | 0.49  | U         | 0.49 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25 |
| Project:           | RFP 905                | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-001-01      | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-04               | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064134.D        | 1         | 03/31/25 11:00 | 04/01/25 14:23 | PB167393      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|----------------------------|--------|-----------|----------|------------|----------|
| 207-08-9                  | Benzo(k)fluoranthene       | 0.48   | U         | 0.48     | 5.00       | ug/L     |
| 50-32-8                   | Benzo(a)pyrene             | 0.55   | U         | 0.55     | 5.00       | ug/L     |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 0.59   | U         | 0.59     | 5.00       | ug/L     |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 0.67   | U         | 0.67     | 5.00       | ug/L     |
| 191-24-2                  | Benzo(g,h,i)perylene       | 0.69   | U         | 0.69     | 5.00       | ug/L     |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 0.52   | U         | 0.52     | 5.00       | ug/L     |
| 123-91-1                  | 1,4-Dioxane                | 1.00   | U         | 1.00     | 5.00       | ug/L     |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 0.72   | U         | 0.72     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                            |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol             | 55.8   |           | 10 - 139 | 37%        | SPK: 150 |
| 13127-88-3                | Phenol-d6                  | 31.5   |           | 10 - 134 | 21%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5            | 112    |           | 49 - 133 | 112%       | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl           | 100    |           | 52 - 132 | 100%       | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol       | 195    |           | 44 - 137 | 130%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14              | 102    |           | 48 - 125 | 102%       | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 36100  | 7.861     |          |            |          |
| 1146-65-2                 | Naphthalene-d8             | 146000 | 10.646    |          |            |          |
| 15067-26-2                | Acenaphthene-d10           | 101000 | 14.483    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10           | 238000 | 17.221    |          |            |          |
| 1719-03-5                 | Chrysene-d12               | 264000 | 21.451    |          |            |          |
| 1520-96-3                 | Perylene-d12               | 281000 | 24.465    |          |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064134.D  
Acq On : 1 Apr 2025 14:23  
Operator : RC/JU  
Sample : Q1664-04  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01

Quant Time: Apr 01 15:14:16 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.861  | 152  | 36149    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.646 | 136  | 145902   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.483 | 164  | 100632   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.221 | 188  | 238066   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.451 | 240  | 264272   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 24.465 | 264  | 280516   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.446  | 112  | 129141   | 55.782  | ng    | 0.00     |
| 7) Phenol-d6                | 7.021  | 99   | 99308    | 31.532  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.013  | 82   | 296088   | 112.146 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.969 | 330  | 218053   | 194.935 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.108 | 172  | 664307   | 100.201 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.847 | 244  | 1338604  | 102.419 | ng    | 0.00     |

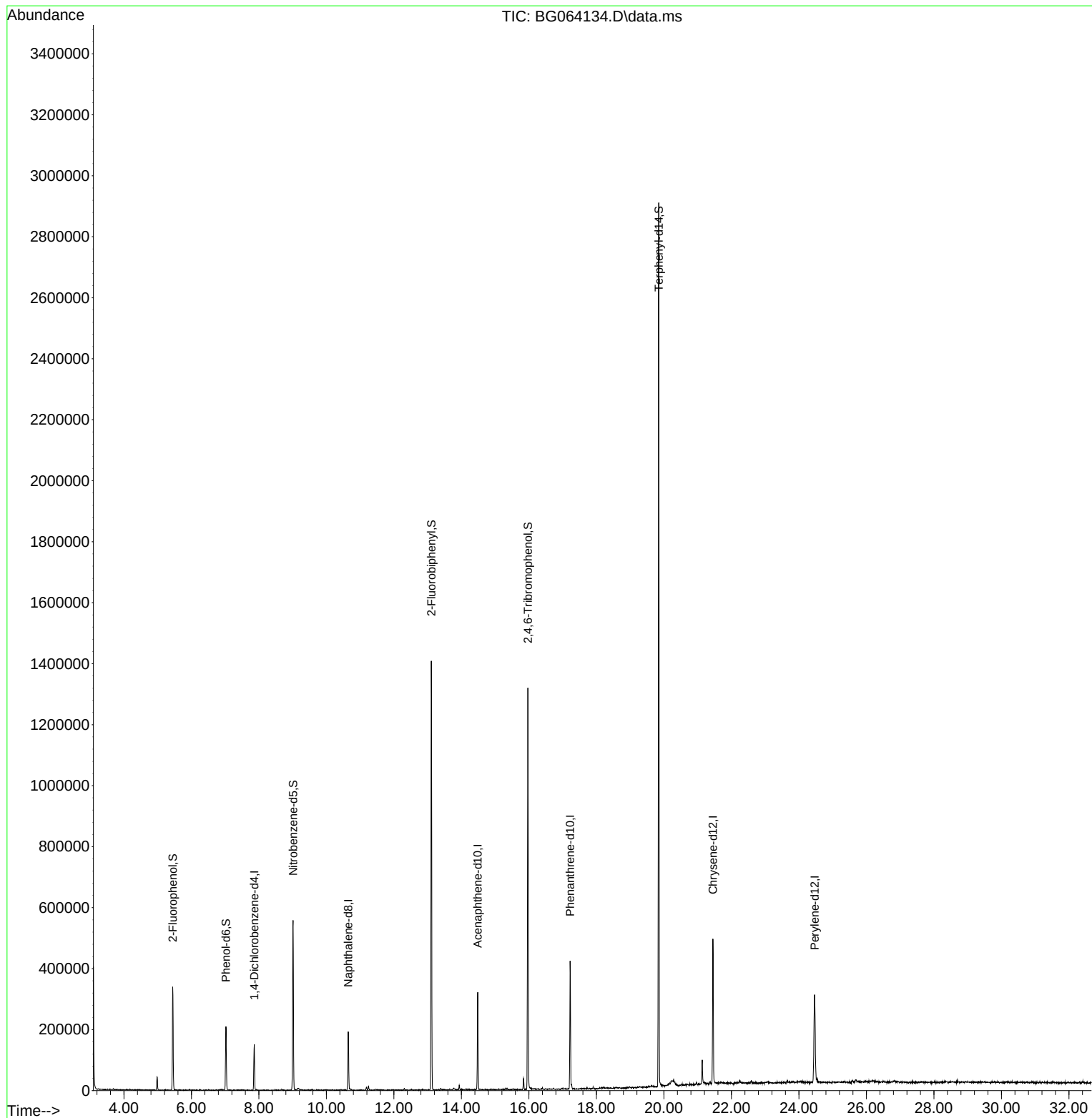
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

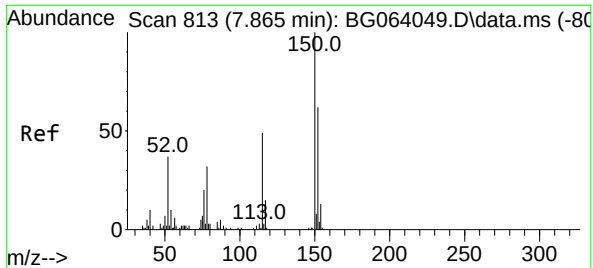
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064134.D  
Acq On : 1 Apr 2025 14:23  
Operator : RC/JU  
Sample : Q1664-04  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01

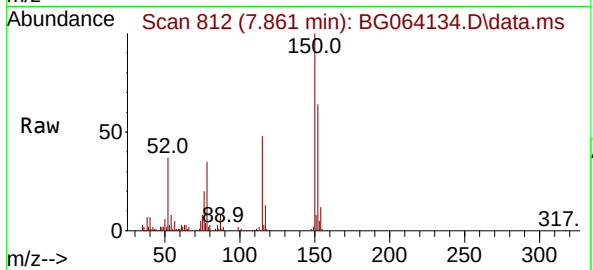
Quant Time: Apr 01 15:14:16 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration



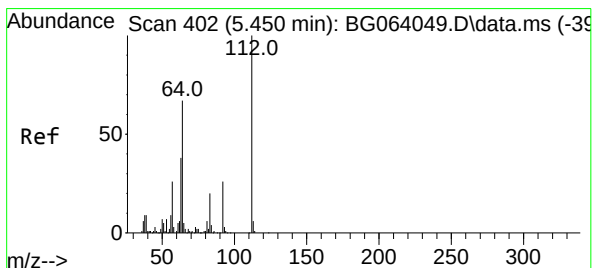
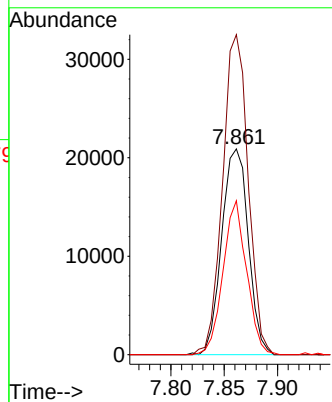
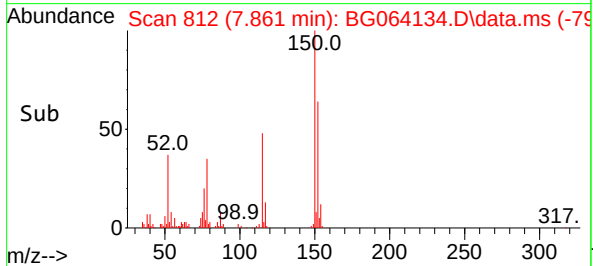


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.861 min Scan# 813  
Delta R.T. -0.004 min  
Lab File: BG064134.D  
Acq: 1 Apr 2025 14:23

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01

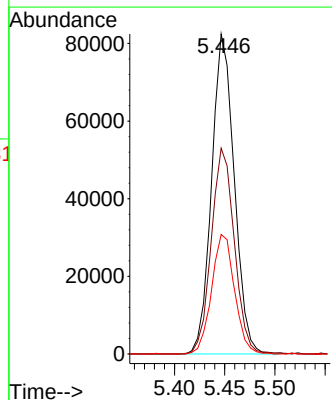
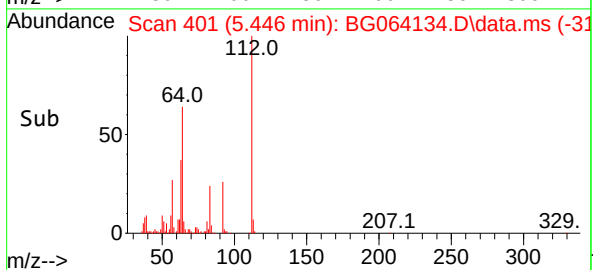
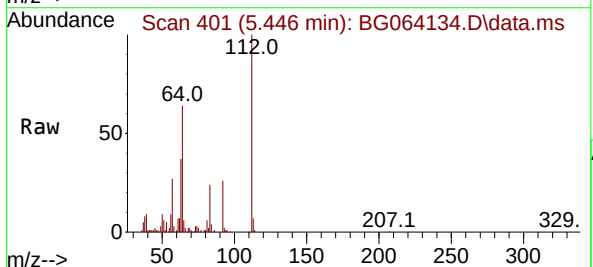


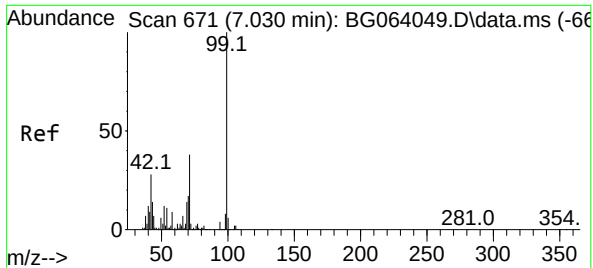
Tgt Ion:152 Resp: 36149  
Ion Ratio Lower Upper  
152 100  
150 155.5 129.2 193.8  
115 74.8 63.0 94.6



#5  
2-Fluorophenol  
Concen: 55.782 ng  
RT: 5.446 min Scan# 401  
Delta R.T. -0.003 min  
Lab File: BG064134.D  
Acq: 1 Apr 2025 14:23

Tgt Ion:112 Resp: 129141  
Ion Ratio Lower Upper  
112 100  
64 64.3 53.7 80.5  
63 37.4 30.2 45.4

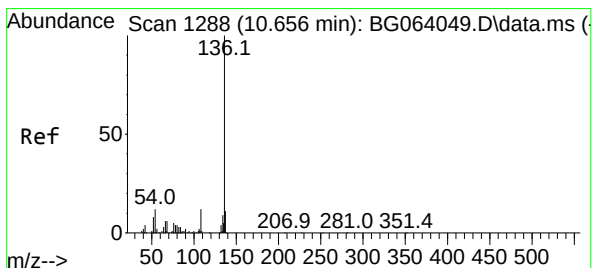
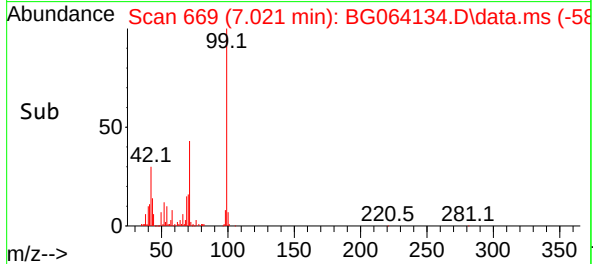
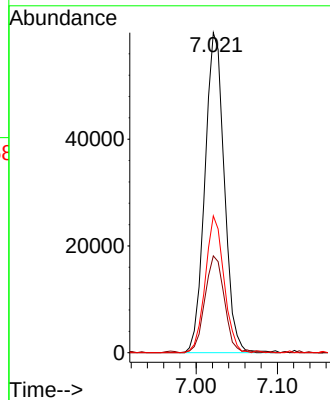
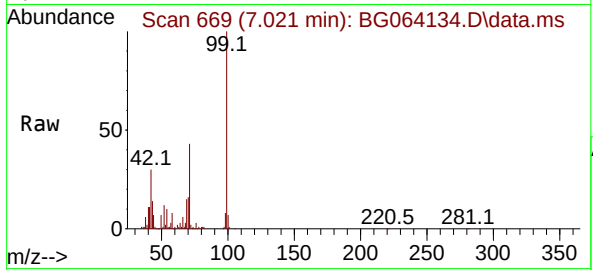




#7  
Phenol-d6  
Concen: 31.532 ng  
RT: 7.021 min Scan# 60  
Delta R.T. -0.009 min  
Lab File: BG064134.D  
Acq: 1 Apr 2025 14:23

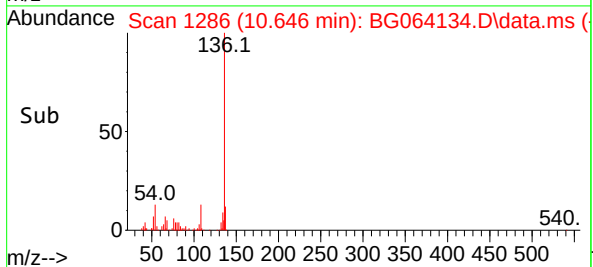
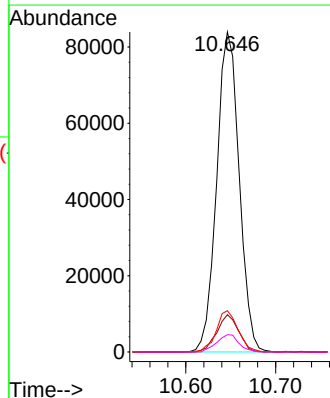
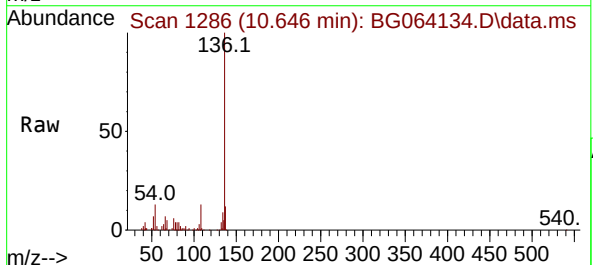
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01

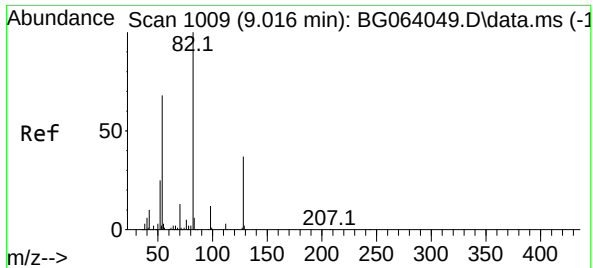
Tgt Ion: 99 Resp: 99308  
Ion Ratio Lower Upper  
99 100  
42 30.3 22.7 34.1  
71 42.7 30.6 46.0



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.646 min Scan# 1286  
Delta R.T. -0.010 min  
Lab File: BG064134.D  
Acq: 1 Apr 2025 14:23

Tgt Ion:136 Resp: 145902  
Ion Ratio Lower Upper  
136 100  
137 11.7 8.5 12.7  
54 12.9 9.9 14.9  
68 5.4 4.6 6.8





#23

Nitrobenzene-d5

Concen: 112.146 ng

RT: 9.013 min Scan# 1009

Delta R.T. -0.003 min

Lab File: BG064134.D

Acq: 1 Apr 2025 14:23

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01

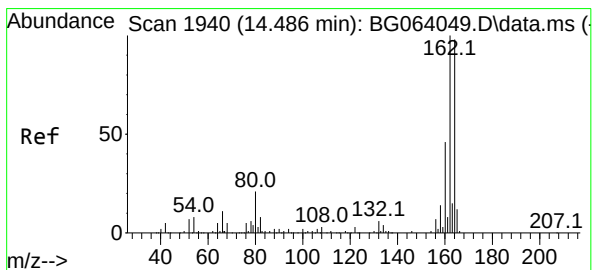
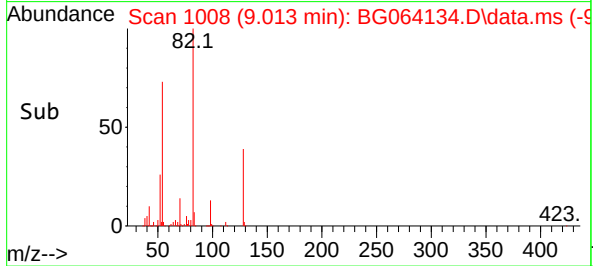
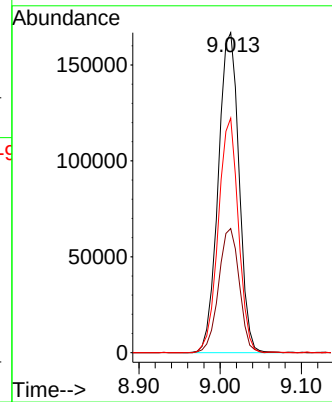
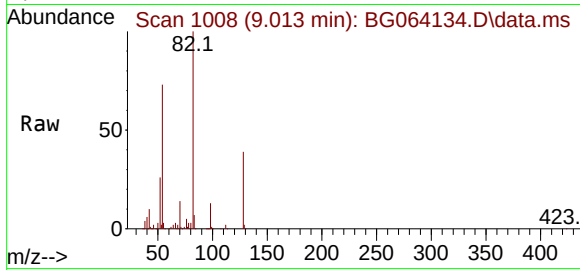
Tgt Ion: 82 Resp: 296088

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|    |     |  |  |
|----|-----|--|--|
| 82 | 100 |  |  |
|----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 128 | 38.8 | 30.0 | 45.0 |
|-----|------|------|------|

|    |      |      |      |
|----|------|------|------|
| 54 | 73.3 | 54.7 | 82.1 |
|----|------|------|------|



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.483 min Scan# 1939

Delta R.T. -0.003 min

Lab File: BG064134.D

Acq: 1 Apr 2025 14:23

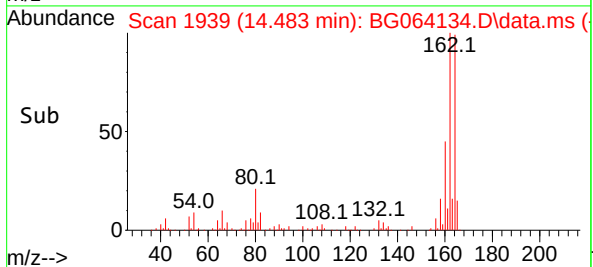
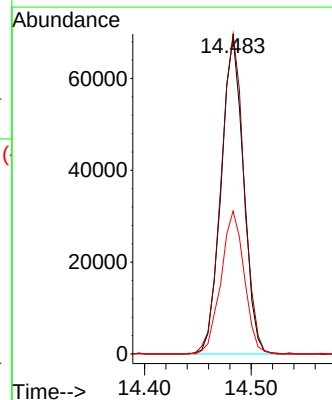
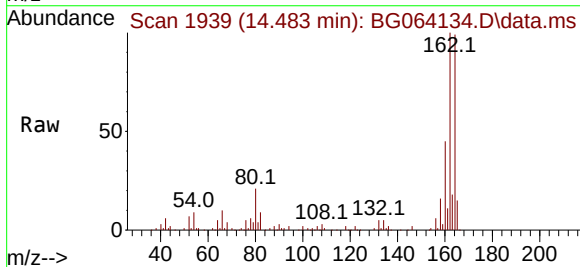
Tgt Ion:164 Resp: 100632

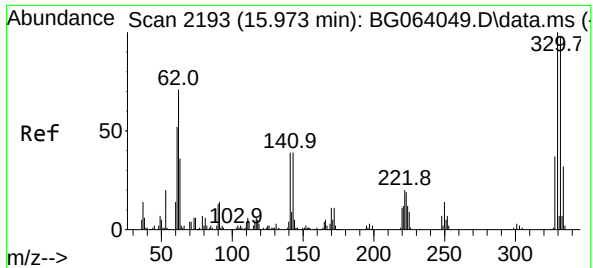
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 164 | 100 |  |  |
|-----|-----|--|--|

|     |       |      |       |
|-----|-------|------|-------|
| 162 | 100.9 | 81.4 | 122.0 |
|-----|-------|------|-------|

|     |      |      |      |
|-----|------|------|------|
| 160 | 45.1 | 37.0 | 55.6 |
|-----|------|------|------|





#42

2,4,6-Tribromophenol

Concen: 194.935 ng

RT: 15.969 min Scan# 21

Delta R.T. -0.003 min

Lab File: BG064134.D

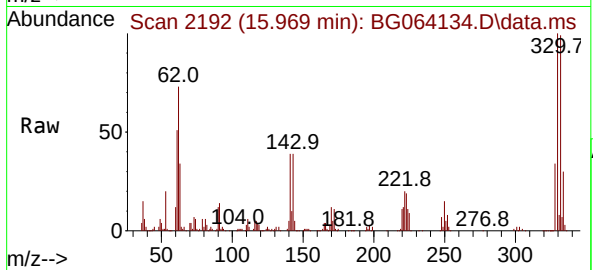
Acq: 1 Apr 2025 14:23

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01



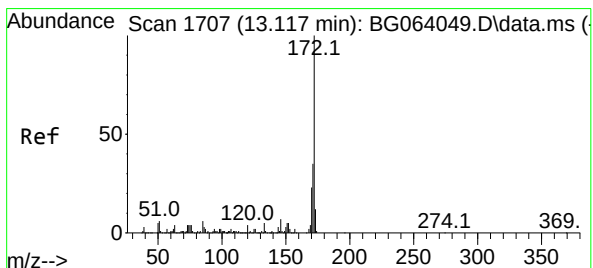
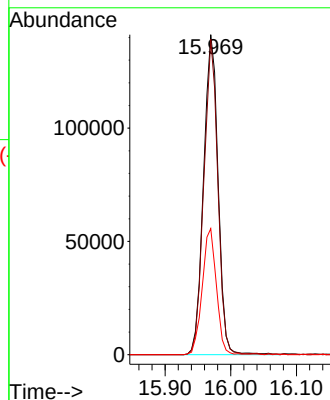
Tgt Ion:330 Resp: 218053

Ion Ratio Lower Upper

330 100

332 94.4 76.7 115.1

141 38.4 29.7 44.5



#45

2-Fluorobiphenyl

Concen: 100.201 ng

RT: 13.108 min Scan# 1705

Delta R.T. -0.009 min

Lab File: BG064134.D

Acq: 1 Apr 2025 14:23

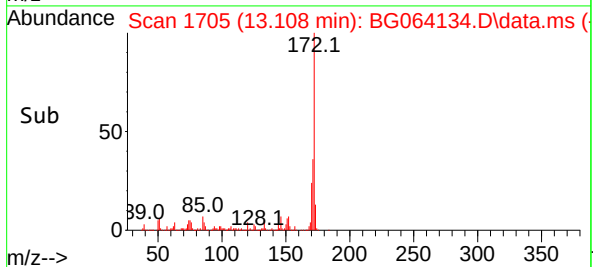
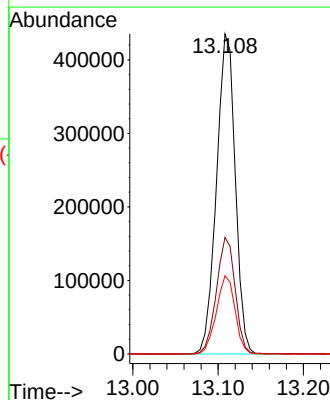
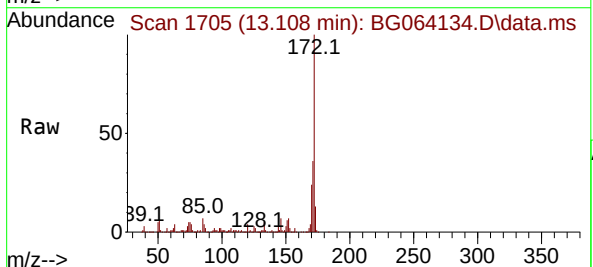
Tgt Ion:172 Resp: 664307

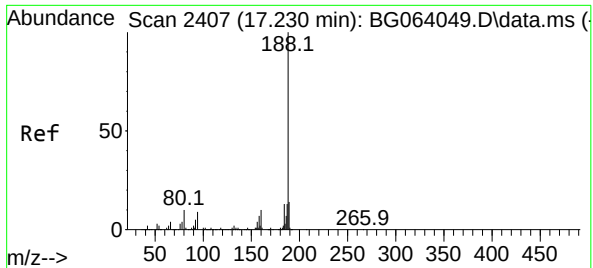
Ion Ratio Lower Upper

172 100

171 36.4 28.0 42.0

170 24.5 18.7 28.1

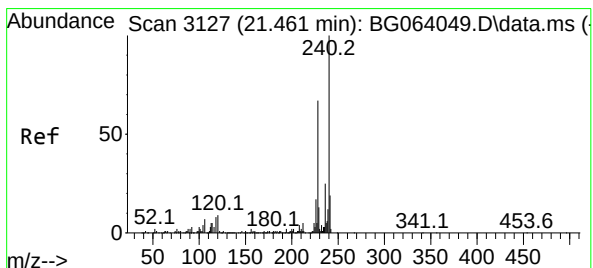
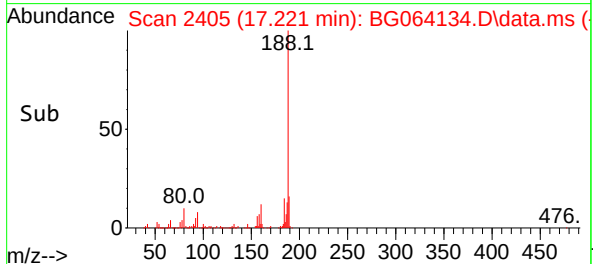
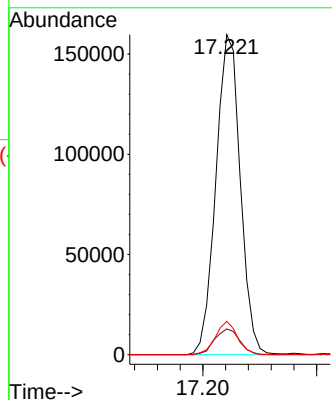
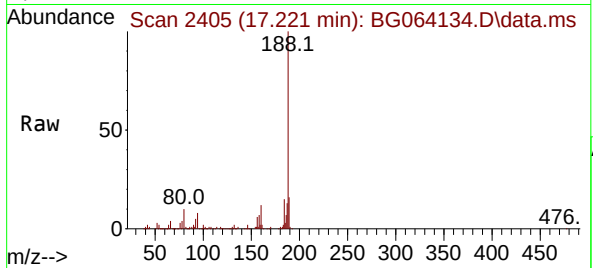




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.221 min Scan# 2405  
Delta R.T. -0.009 min  
Lab File: BG064134.D  
Acq: 1 Apr 2025 14:23

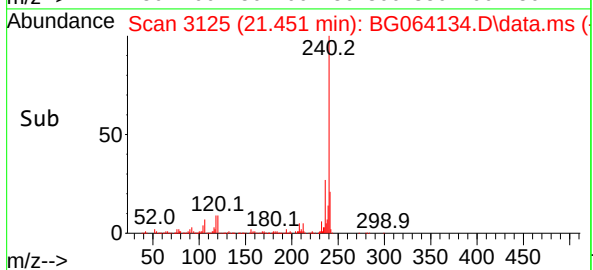
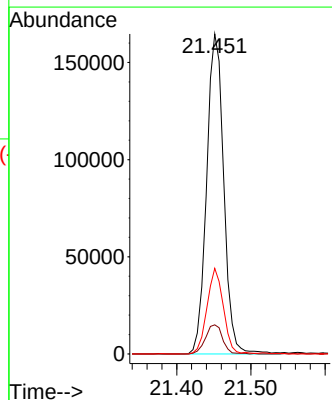
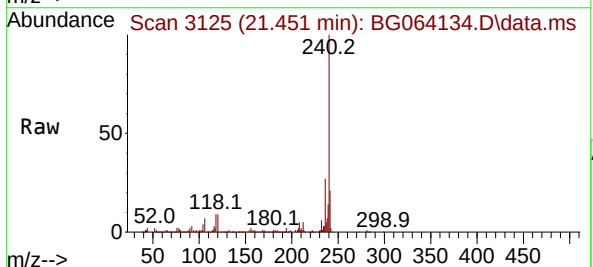
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01

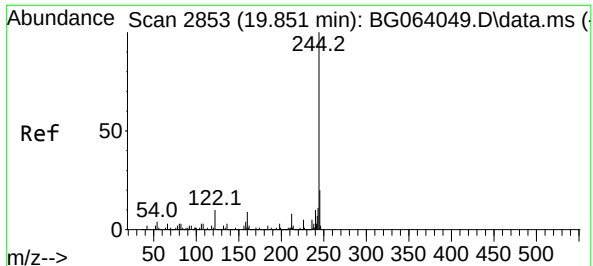
Tgt Ion:188 Resp: 238066  
Ion Ratio Lower Upper  
188 100  
94 8.0 6.9 10.3  
80 10.4 8.1 12.1



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.451 min Scan# 3125  
Delta R.T. -0.009 min  
Lab File: BG064134.D  
Acq: 1 Apr 2025 14:23

Tgt Ion:240 Resp: 264272  
Ion Ratio Lower Upper  
240 100  
120 9.1 7.2 10.8  
236 26.7 20.2 30.2

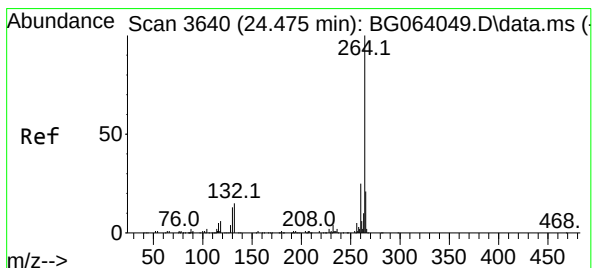
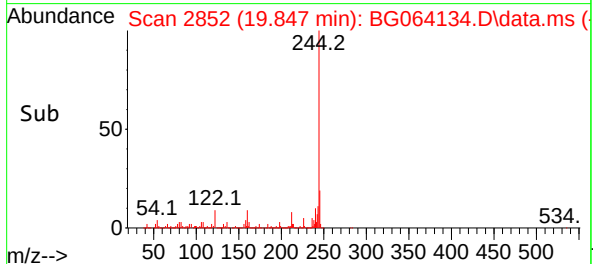
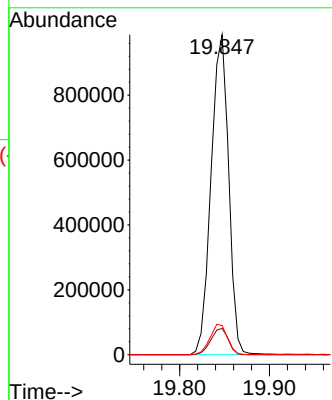
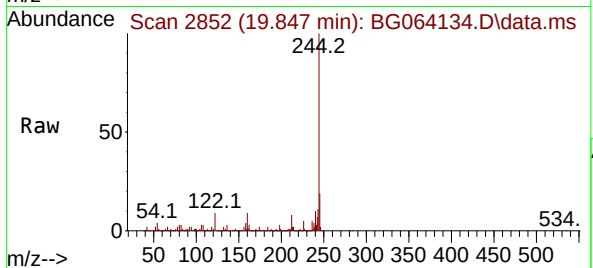




#79  
Terphenyl-d14  
Concen: 102.419 ng  
RT: 19.847 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BG064134.D  
Acq: 1 Apr 2025 14:23

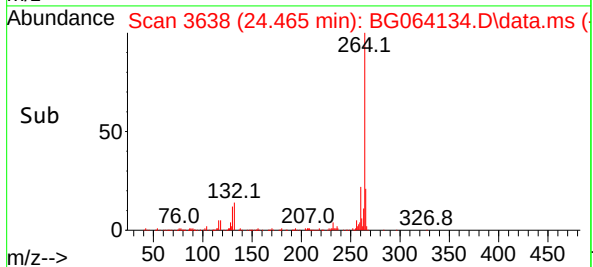
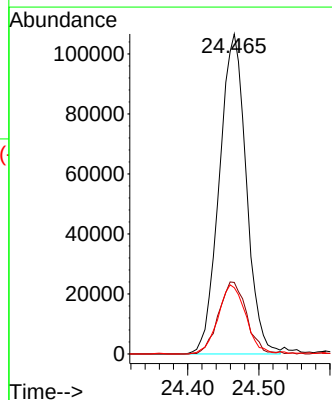
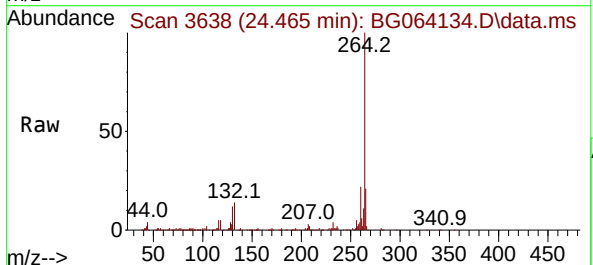
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01

Tgt Ion:244 Resp: 1338604  
Ion Ratio Lower Upper  
244 100  
212 8.2 6.2 9.4  
122 9.1 8.0 12.0



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.465 min Scan# 3638  
Delta R.T. -0.009 min  
Lab File: BG064134.D  
Acq: 1 Apr 2025 14:23

Tgt Ion:264 Resp: 280516  
Ion Ratio Lower Upper  
264 100  
260 22.4 19.6 29.4  
265 20.7 16.6 25.0





## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-001-02      | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-08               | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064137.D        | 1         | 03/31/25 11:00 | 04/01/25 16:24 | PB167393      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|-----------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                             |       |           |      |            |       |
| 100-52-7       | Benzaldehyde                | 3.90  | U         | 3.90 | 10.0       | ug/L  |
| 108-95-2       | Phenol                      | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.81  | U         | 0.81 | 5.00       | ug/L  |
| 95-57-8        | 2-Chlorophenol              | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 95-48-7        | 2-Methylphenol              | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 98-86-2        | Acetophenone                | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 65794-96-9     | 3+4-Methylphenols           | 1.10  | UQ        | 1.10 | 10.0       | ug/L  |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 1.40  | U         | 1.40 | 2.50       | ug/L  |
| 67-72-1        | Hexachloroethane            | 0.65  | U         | 0.65 | 5.00       | ug/L  |
| 98-95-3        | Nitrobenzene                | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 78-59-1        | Isophorone                  | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 88-75-5        | 2-Nitrophenol               | 1.80  | UQ        | 1.80 | 5.00       | ug/L  |
| 105-67-9       | 2,4-Dimethylphenol          | 1.90  | U         | 1.90 | 5.00       | ug/L  |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 120-83-2       | 2,4-Dichlorophenol          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 91-20-3        | Naphthalene                 | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 106-47-8       | 4-Chloroaniline             | 0.84  | U         | 0.84 | 5.00       | ug/L  |
| 87-68-3        | Hexachlorobutadiene         | 0.54  | U         | 0.54 | 5.00       | ug/L  |
| 105-60-2       | Caprolactam                 | 1.10  | U         | 1.10 | 10.0       | ug/L  |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 91-57-6        | 2-Methylnaphthalene         | 0.56  | U         | 0.56 | 5.00       | ug/L  |
| 77-47-4        | Hexachlorocyclopentadiene   | 3.60  | UQ        | 3.60 | 10.0       | ug/L  |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.51  | U         | 0.51 | 5.00       | ug/L  |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.62  | UQ        | 0.62 | 5.00       | ug/L  |
| 92-52-4        | 1,1-Biphenyl                | 0.53  | U         | 0.53 | 5.00       | ug/L  |
| 91-58-7        | 2-Chloronaphthalene         | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 88-74-4        | 2-Nitroaniline              | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 131-11-3       | Dimethylphthalate           | 0.61  | U         | 0.61 | 5.00       | ug/L  |

### Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25 |
| Project:           | RFP 905                | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-001-02      | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-08               | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064137.D        | 1         | 03/31/25 11:00 | 04/01/25 16:24 | PB167393      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|------------|----------------------------|-------|-----------|------|------------|-------|
| 208-96-8   | Acenaphthylene             | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 99-09-2    | 3-Nitroaniline             | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 83-32-9    | Acenaphthene               | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 51-28-5    | 2,4-Dinitrophenol          | 6.00  | U         | 6.00 | 10.0       | ug/L  |
| 100-02-7   | 4-Nitrophenol              | 2.40  | U         | 2.40 | 10.0       | ug/L  |
| 132-64-9   | Dibenzofuran               | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 121-14-2   | 2,4-Dinitrotoluene         | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 84-66-2    | Diethylphthalate           | 0.69  | U         | 0.69 | 5.00       | ug/L  |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 86-73-7    | Fluorene                   | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 100-01-6   | 4-Nitroaniline             | 1.50  | U         | 1.50 | 5.00       | ug/L  |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 2.90  | UQ        | 2.90 | 10.0       | ug/L  |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.40  | U         | 0.40 | 5.00       | ug/L  |
| 118-74-1   | Hexachlorobenzene          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 1912-24-9  | Atrazine                   | 1.00  | UQ        | 1.00 | 5.00       | ug/L  |
| 87-86-5    | Pentachlorophenol          | 1.60  | U         | 1.60 | 10.0       | ug/L  |
| 85-01-8    | Phenanthrene               | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 120-12-7   | Anthracene                 | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 86-74-8    | Carbazole                  | 0.72  | U         | 0.72 | 5.00       | ug/L  |
| 84-74-2    | Di-n-butylphthalate        | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 206-44-0   | Fluoranthene               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 129-00-0   | Pyrene                     | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 85-68-7    | Butylbenzylphthalate       | 1.90  | UQ        | 1.90 | 5.00       | ug/L  |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.93  | U         | 0.93 | 10.0       | ug/L  |
| 56-55-3    | Benzo(a)anthracene         | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 218-01-9   | Chrysene                   | 0.44  | U         | 0.44 | 5.00       | ug/L  |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 1.60  | U         | 1.60 | 5.00       | ug/L  |
| 117-84-0   | Di-n-octyl phthalate       | 2.30  | U         | 2.30 | 10.0       | ug/L  |
| 205-99-2   | Benzo(b)fluoranthene       | 0.49  | U         | 0.49 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25 |
| Project:           | RFP 905                | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-001-02      | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-08               | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064137.D        | 1         | 03/31/25 11:00 | 04/01/25 16:24 | PB167393      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|----------------------------|--------|-----------|----------|------------|----------|
| 207-08-9                  | Benzo(k)fluoranthene       | 0.48   | U         | 0.48     | 5.00       | ug/L     |
| 50-32-8                   | Benzo(a)pyrene             | 0.55   | U         | 0.55     | 5.00       | ug/L     |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 0.59   | U         | 0.59     | 5.00       | ug/L     |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 0.67   | U         | 0.67     | 5.00       | ug/L     |
| 191-24-2                  | Benzo(g,h,i)perylene       | 0.69   | U         | 0.69     | 5.00       | ug/L     |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 0.52   | U         | 0.52     | 5.00       | ug/L     |
| 123-91-1                  | 1,4-Dioxane                | 1.00   | U         | 1.00     | 5.00       | ug/L     |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 0.72   | U         | 0.72     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                            |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol             | 61.8   |           | 10 - 139 | 41%        | SPK: 150 |
| 13127-88-3                | Phenol-d6                  | 34.6   |           | 10 - 134 | 23%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5            | 117    |           | 49 - 133 | 117%       | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl           | 104    |           | 52 - 132 | 104%       | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol       | 199    |           | 44 - 137 | 132%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14              | 99.2   |           | 48 - 125 | 99%        | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 33100  | 7.859     |          |            |          |
| 1146-65-2                 | Naphthalene-d8             | 138000 | 10.649    |          |            |          |
| 15067-26-2                | Acenaphthene-d10           | 94400  | 14.48     |          |            |          |
| 1517-22-2                 | Phenanthrene-d10           | 227000 | 17.224    |          |            |          |
| 1719-03-5                 | Chrysene-d12               | 264000 | 21.454    |          |            |          |
| 1520-96-3                 | Perylene-d12               | 282000 | 24.463    |          |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064137.D  
Acq On : 1 Apr 2025 16:24  
Operator : RC/JU  
Sample : Q1664-08  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-02

Quant Time: Apr 01 17:00:59 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.859  | 152  | 33101    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.649 | 136  | 138071   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.480 | 164  | 94366    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.224 | 188  | 226571   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.454 | 240  | 263789   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 24.463 | 264  | 282032   | 20.000  | ng    | -0.01    |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.450  | 112  | 130931   | 61.763  | ng    | 0.00     |
| 7) Phenol-d6                | 7.024  | 99   | 99886    | 34.636  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.010  | 82   | 291075   | 116.501 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.967 | 330  | 208468   | 198.741 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.111 | 172  | 648499   | 104.311 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.844 | 244  | 1294502  | 99.226  | ng    | 0.00     |

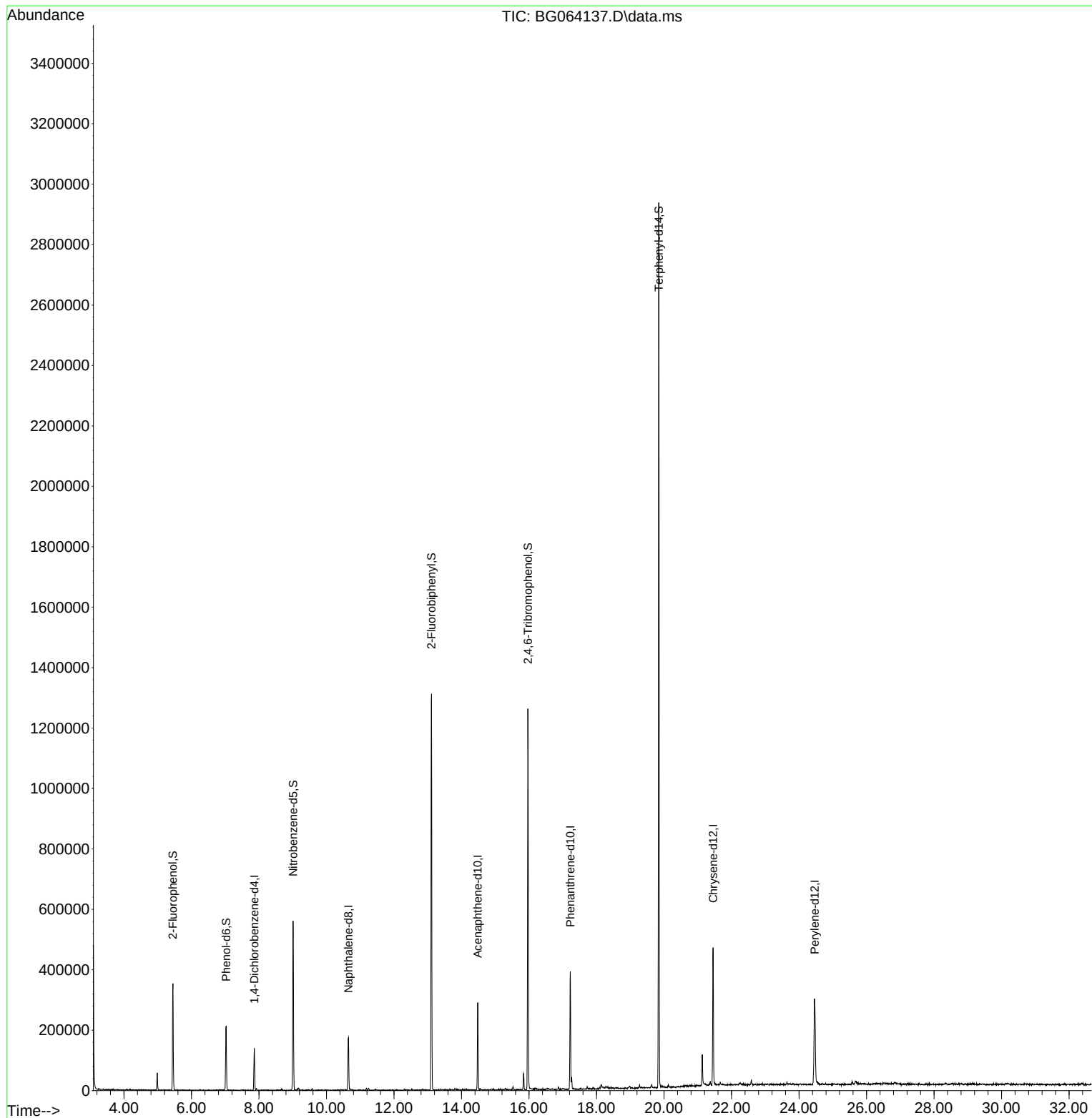
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

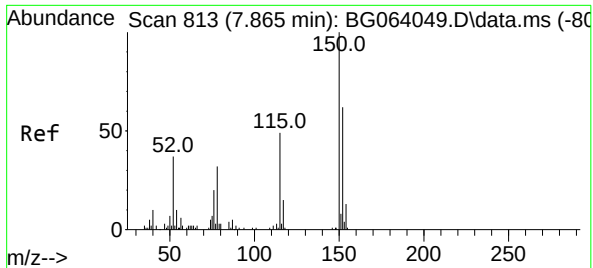
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064137.D  
Acq On : 1 Apr 2025 16:24  
Operator : RC/JU  
Sample : Q1664-08  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-02

Quant Time: Apr 01 17:00:59 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

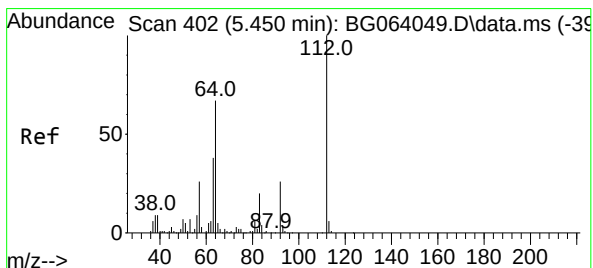
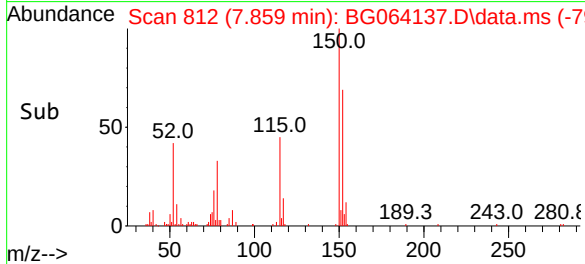
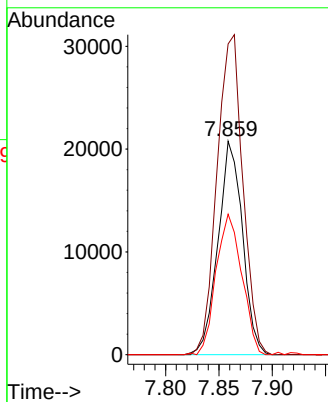
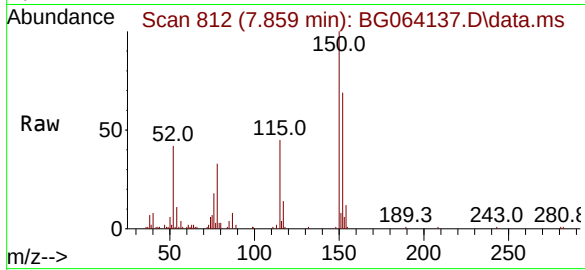




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.859 min Scan# 813  
Delta R.T. -0.006 min  
Lab File: BG064137.D  
Acq: 1 Apr 2025 16:24

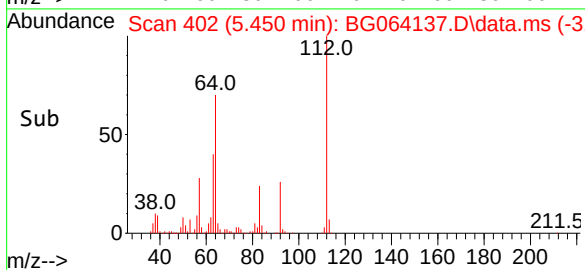
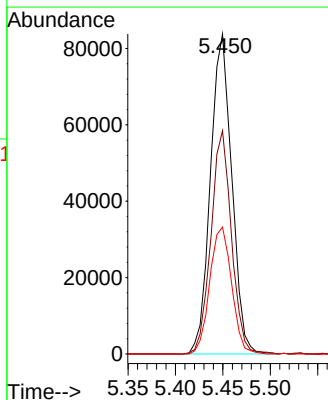
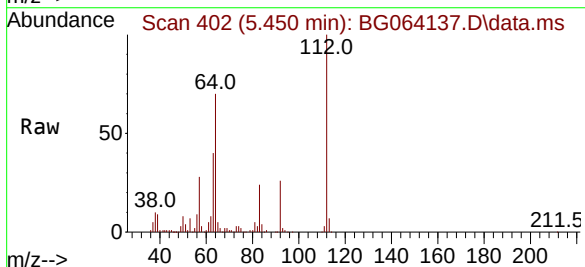
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-02

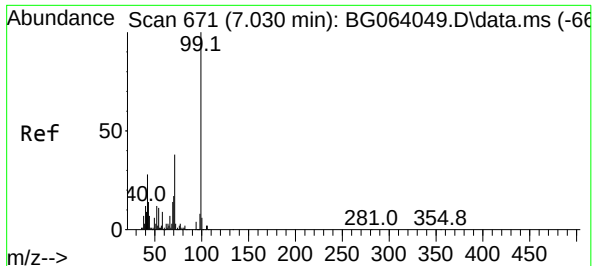
Tgt Ion:152 Resp: 33101  
Ion Ratio Lower Upper  
152 100  
150 145.6 129.2 193.8  
115 65.8 63.0 94.6



#5  
2-Fluorophenol  
Concen: 61.763 ng  
RT: 5.450 min Scan# 402  
Delta R.T. -0.000 min  
Lab File: BG064137.D  
Acq: 1 Apr 2025 16:24

Tgt Ion:112 Resp: 130931  
Ion Ratio Lower Upper  
112 100  
64 69.7 53.7 80.5  
63 39.6 30.2 45.4

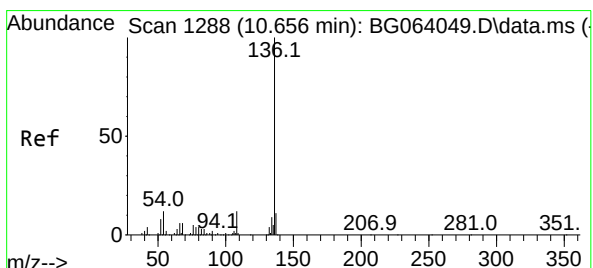
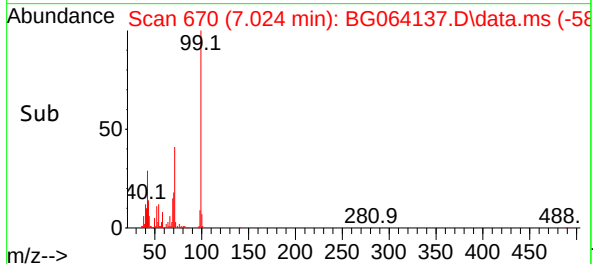
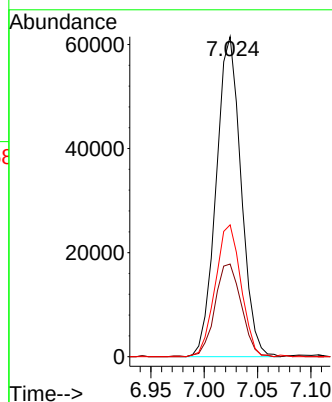
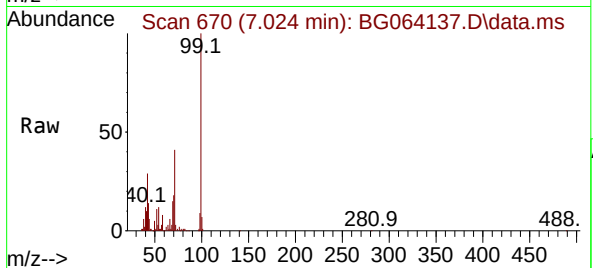




#7  
Phenol-d6  
Concen: 34.636 ng  
RT: 7.024 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BG064137.D  
Acq: 1 Apr 2025 16:24

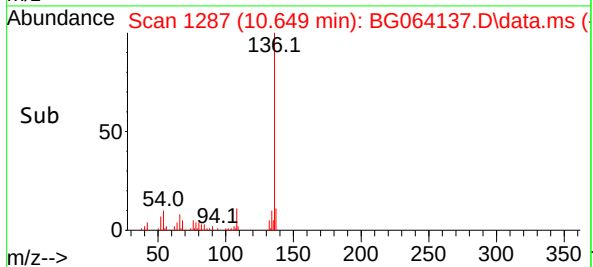
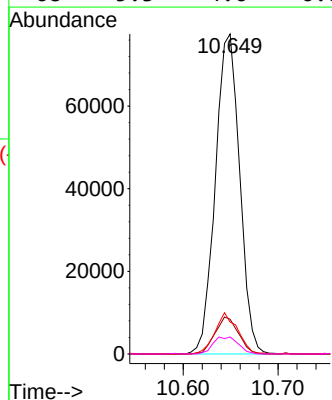
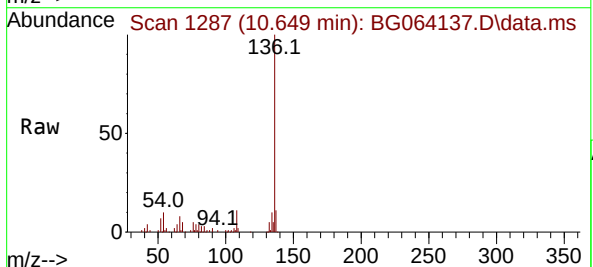
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-02

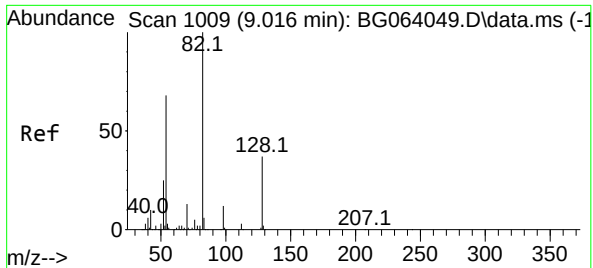
Tgt Ion: 99 Resp: 99886  
Ion Ratio Lower Upper  
99 100  
42 29.0 22.7 34.1  
71 41.2 30.6 46.0



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.649 min Scan# 1287  
Delta R.T. -0.007 min  
Lab File: BG064137.D  
Acq: 1 Apr 2025 16:24

Tgt Ion: 136 Resp: 138071  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.5 12.7  
54 10.0 9.9 14.9  
68 5.3 4.6 6.8





#23

Nitrobenzene-d5

Concen: 116.501 ng

RT: 9.010 min Scan# 10

Delta R.T. -0.006 min

Lab File: BG064137.D

Acq: 1 Apr 2025 16:24

Instrument :

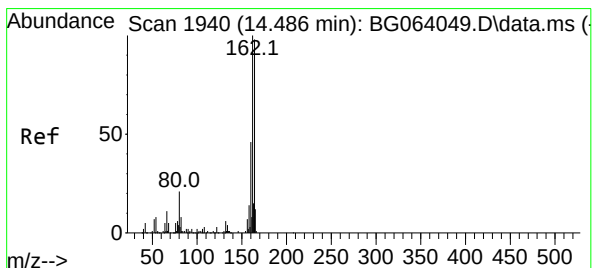
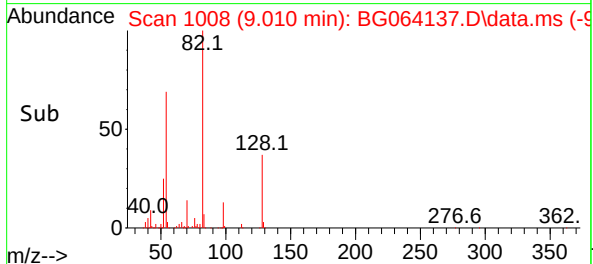
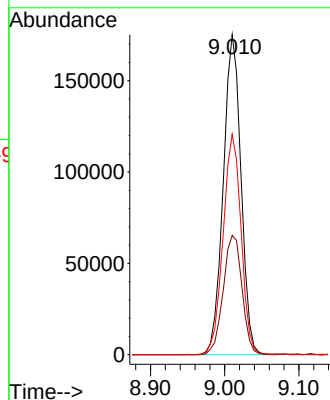
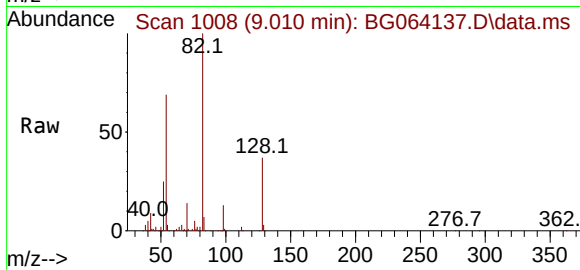
BNA\_G

ClientSampleId :

P001-BBDGA-001-02

Tgt Ion: 82 Resp: 291075

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 37.3  | 30.0  | 45.0  |
| 54  | 68.9  | 54.7  | 82.1  |



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.480 min Scan# 1939

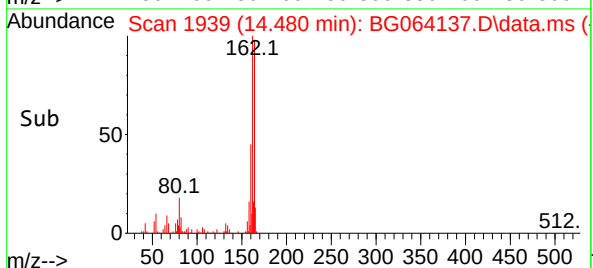
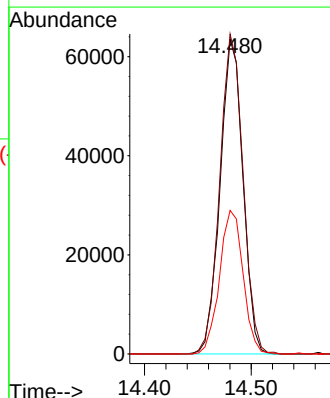
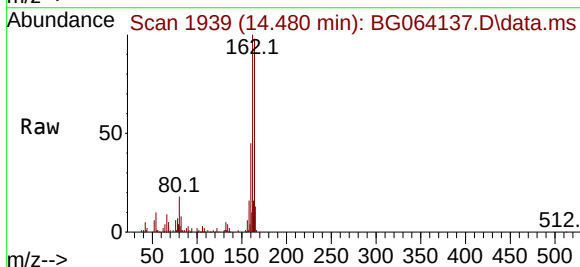
Delta R.T. -0.006 min

Lab File: BG064137.D

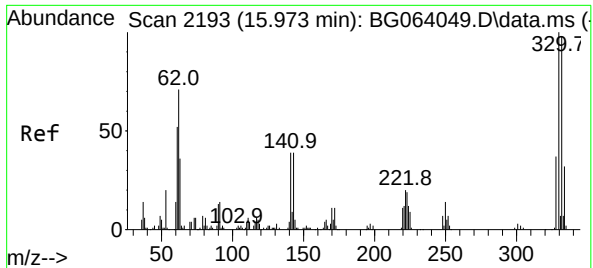
Acq: 1 Apr 2025 16:24

Tgt Ion:164 Resp: 94366

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 101.7 | 81.4  | 122.0 |
| 160 | 45.6  | 37.0  | 55.6  |

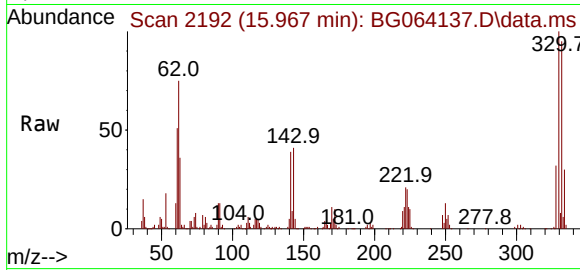




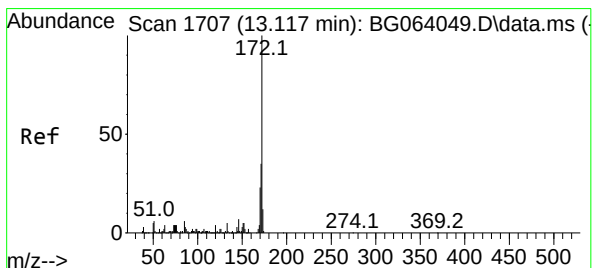
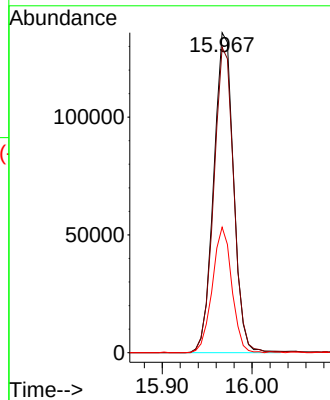
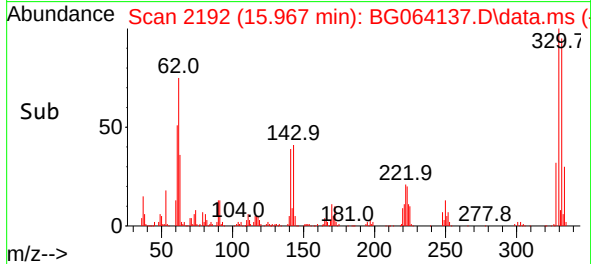


#42  
2,4,6-Tribromophenol  
Concen: 198.741 ng  
RT: 15.967 min Scan# 2192  
Delta R.T. -0.006 min  
Lab File: BG064137.D  
Acq: 1 Apr 2025 16:24

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-02

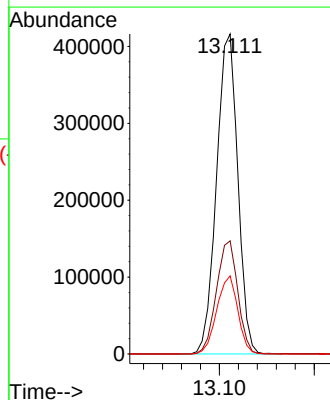
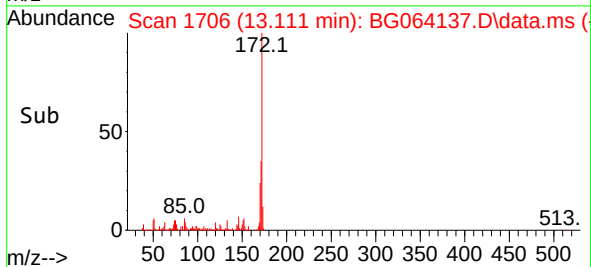
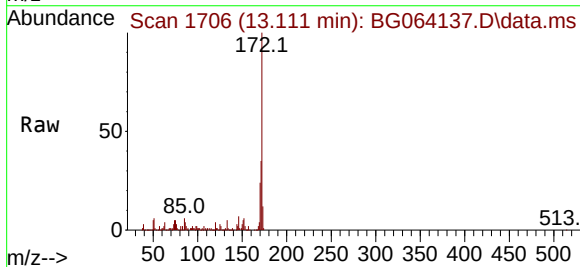


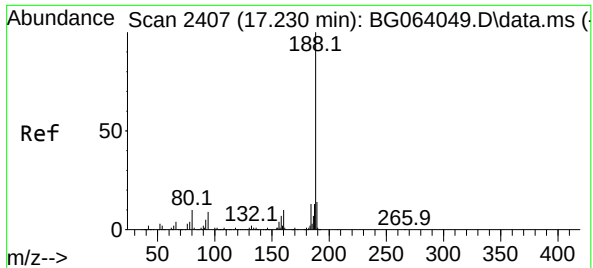
Tgt Ion:330 Resp: 208468  
Ion Ratio Lower Upper  
330 100  
332 96.4 76.7 115.1  
141 38.4 29.7 44.5



#45  
2-Fluorobiphenyl  
Concen: 104.311 ng  
RT: 13.111 min Scan# 1706  
Delta R.T. -0.006 min  
Lab File: BG064137.D  
Acq: 1 Apr 2025 16:24

Tgt Ion:172 Resp: 648499  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.0 42.0  
170 24.4 18.7 28.1

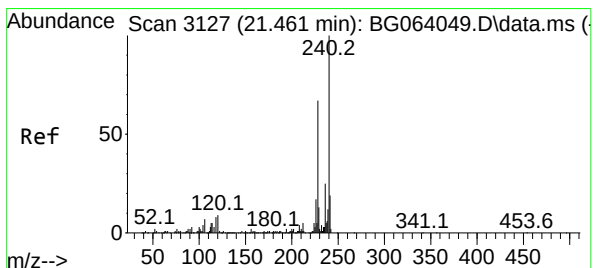
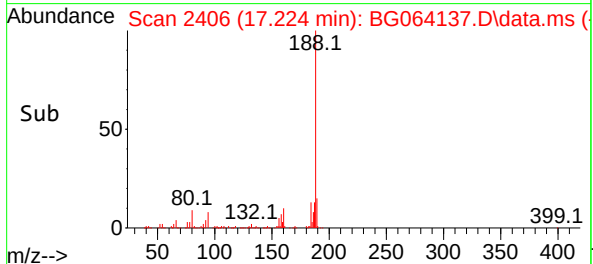
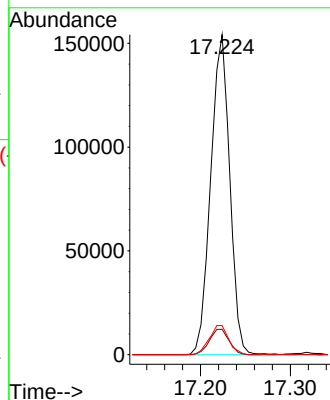
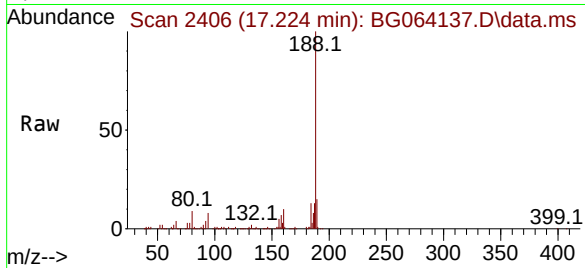




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.224 min Scan# 2406  
Delta R.T. -0.006 min  
Lab File: BG064137.D  
Acq: 1 Apr 2025 16:24

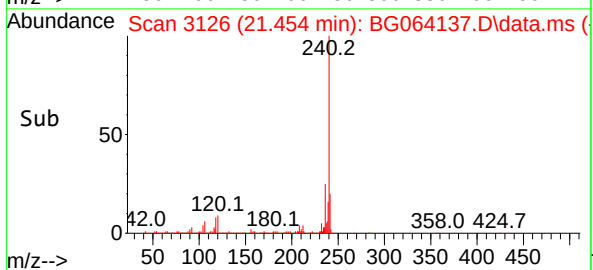
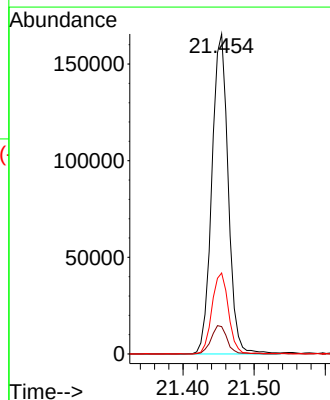
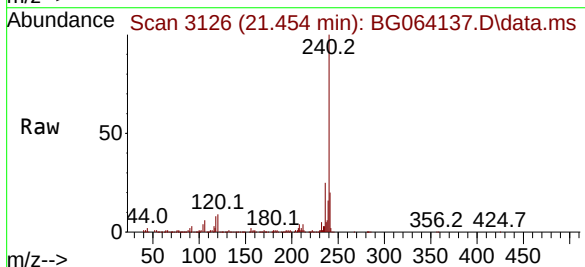
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-02

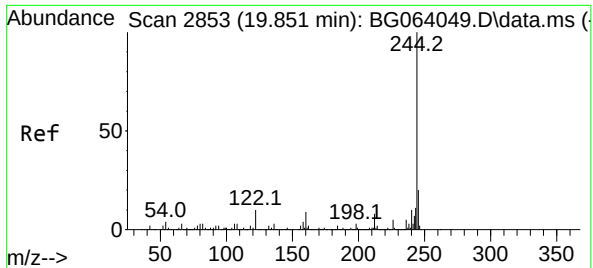
Tgt Ion:188 Resp: 226571  
Ion Ratio Lower Upper  
188 100  
94 8.0 6.9 10.3  
80 9.1 8.1 12.1



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.454 min Scan# 3126  
Delta R.T. -0.006 min  
Lab File: BG064137.D  
Acq: 1 Apr 2025 16:24

Tgt Ion:240 Resp: 263789  
Ion Ratio Lower Upper  
240 100  
120 8.6 7.2 10.8  
236 25.3 20.2 30.2

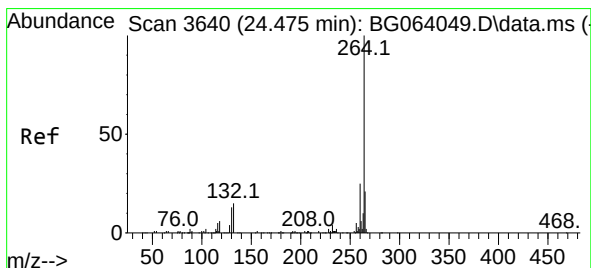
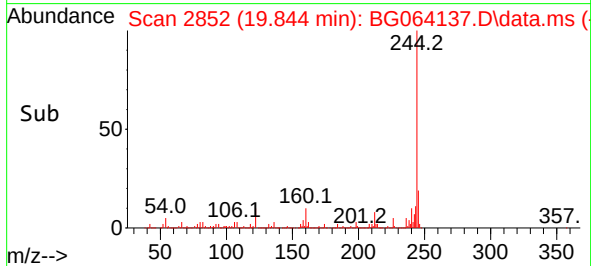
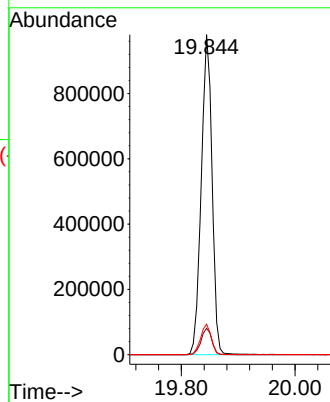
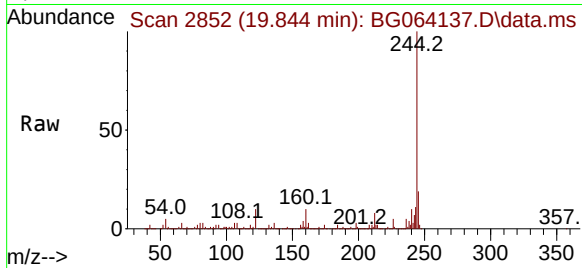




#79  
 Terphenyl-d14  
 Concen: 99.226 ng  
 RT: 19.844 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: BG064137.D  
 Acq: 1 Apr 2025 16:24

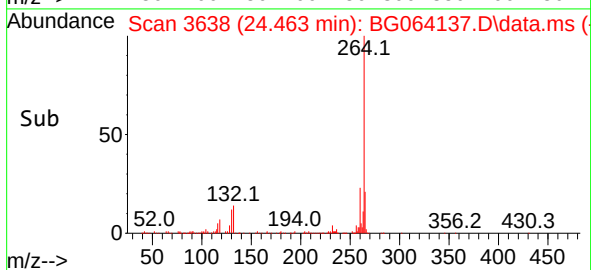
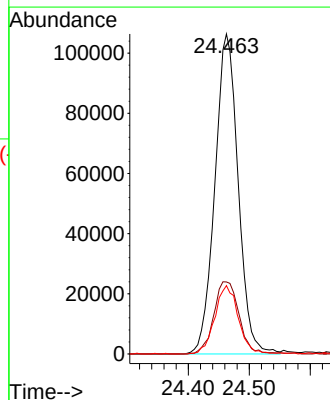
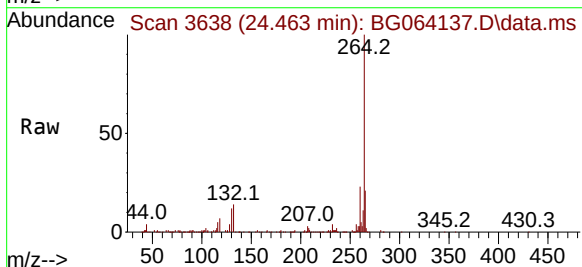
Instrument :  
 BNA\_G  
 ClientSampleId :  
 P001-BBDGA-001-02

Tgt Ion:244 Resp: 1294502  
 Ion Ratio Lower Upper  
 244 100  
 212 8.3 6.2 9.4  
 122 9.5 8.0 12.0



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.463 min Scan# 3638  
 Delta R.T. -0.012 min  
 Lab File: BG064137.D  
 Acq: 1 Apr 2025 16:24

Tgt Ion:264 Resp: 282032  
 Ion Ratio Lower Upper  
 264 100  
 260 22.5 19.6 29.4  
 265 21.4 16.6 25.0



## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25 |
| Project:           | RFP 905                | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-002-01      | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-10               | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064138.D        | 1         | 03/31/25 11:00 | 04/01/25 17:04 | PB167393      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|-----------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                             |       |           |      |            |       |
| 100-52-7       | Benzaldehyde                | 3.90  | U         | 3.90 | 10.0       | ug/L  |
| 108-95-2       | Phenol                      | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.81  | U         | 0.81 | 5.00       | ug/L  |
| 95-57-8        | 2-Chlorophenol              | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 95-48-7        | 2-Methylphenol              | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 98-86-2        | Acetophenone                | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 65794-96-9     | 3+4-Methylphenols           | 1.10  | UQ        | 1.10 | 10.0       | ug/L  |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 1.40  | U         | 1.40 | 2.50       | ug/L  |
| 67-72-1        | Hexachloroethane            | 0.65  | U         | 0.65 | 5.00       | ug/L  |
| 98-95-3        | Nitrobenzene                | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 78-59-1        | Isophorone                  | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 88-75-5        | 2-Nitrophenol               | 1.80  | UQ        | 1.80 | 5.00       | ug/L  |
| 105-67-9       | 2,4-Dimethylphenol          | 1.90  | U         | 1.90 | 5.00       | ug/L  |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 120-83-2       | 2,4-Dichlorophenol          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 91-20-3        | Naphthalene                 | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 106-47-8       | 4-Chloroaniline             | 0.84  | U         | 0.84 | 5.00       | ug/L  |
| 87-68-3        | Hexachlorobutadiene         | 0.54  | U         | 0.54 | 5.00       | ug/L  |
| 105-60-2       | Caprolactam                 | 1.10  | U         | 1.10 | 10.0       | ug/L  |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 91-57-6        | 2-Methylnaphthalene         | 0.56  | U         | 0.56 | 5.00       | ug/L  |
| 77-47-4        | Hexachlorocyclopentadiene   | 3.60  | UQ        | 3.60 | 10.0       | ug/L  |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.51  | U         | 0.51 | 5.00       | ug/L  |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.62  | UQ        | 0.62 | 5.00       | ug/L  |
| 92-52-4        | 1,1-Biphenyl                | 0.53  | U         | 0.53 | 5.00       | ug/L  |
| 91-58-7        | 2-Chloronaphthalene         | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 88-74-4        | 2-Nitroaniline              | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 131-11-3       | Dimethylphthalate           | 0.61  | U         | 0.61 | 5.00       | ug/L  |

### Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25 |
| Project:           | RFP 905                | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-002-01      | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-10               | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064138.D        | 1         | 03/31/25 11:00 | 04/01/25 17:04 | PB167393      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|------------|----------------------------|-------|-----------|------|------------|-------|
| 208-96-8   | Acenaphthylene             | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 99-09-2    | 3-Nitroaniline             | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 83-32-9    | Acenaphthene               | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 51-28-5    | 2,4-Dinitrophenol          | 6.00  | U         | 6.00 | 10.0       | ug/L  |
| 100-02-7   | 4-Nitrophenol              | 2.40  | U         | 2.40 | 10.0       | ug/L  |
| 132-64-9   | Dibenzofuran               | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 121-14-2   | 2,4-Dinitrotoluene         | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 84-66-2    | Diethylphthalate           | 0.69  | U         | 0.69 | 5.00       | ug/L  |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 86-73-7    | Fluorene                   | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 100-01-6   | 4-Nitroaniline             | 1.50  | U         | 1.50 | 5.00       | ug/L  |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 2.90  | UQ        | 2.90 | 10.0       | ug/L  |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.40  | U         | 0.40 | 5.00       | ug/L  |
| 118-74-1   | Hexachlorobenzene          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 1912-24-9  | Atrazine                   | 1.00  | UQ        | 1.00 | 5.00       | ug/L  |
| 87-86-5    | Pentachlorophenol          | 1.60  | U         | 1.60 | 10.0       | ug/L  |
| 85-01-8    | Phenanthrene               | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 120-12-7   | Anthracene                 | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 86-74-8    | Carbazole                  | 0.72  | U         | 0.72 | 5.00       | ug/L  |
| 84-74-2    | Di-n-butylphthalate        | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 206-44-0   | Fluoranthene               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 129-00-0   | Pyrene                     | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 85-68-7    | Butylbenzylphthalate       | 1.90  | UQ        | 1.90 | 5.00       | ug/L  |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.93  | U         | 0.93 | 10.0       | ug/L  |
| 56-55-3    | Benzo(a)anthracene         | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 218-01-9   | Chrysene                   | 0.44  | U         | 0.44 | 5.00       | ug/L  |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 1.60  | U         | 1.60 | 5.00       | ug/L  |
| 117-84-0   | Di-n-octyl phthalate       | 2.30  | U         | 2.30 | 10.0       | ug/L  |
| 205-99-2   | Benzo(b)fluoranthene       | 0.49  | U         | 0.49 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-002-01      | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-10               | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064138.D        | 1         | 03/31/25 11:00 | 04/01/25 17:04 | PB167393      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|----------------------------|--------|-----------|----------|------------|----------|
| 207-08-9                  | Benzo(k)fluoranthene       | 0.48   | U         | 0.48     | 5.00       | ug/L     |
| 50-32-8                   | Benzo(a)pyrene             | 0.55   | U         | 0.55     | 5.00       | ug/L     |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 0.59   | U         | 0.59     | 5.00       | ug/L     |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 0.67   | U         | 0.67     | 5.00       | ug/L     |
| 191-24-2                  | Benzo(g,h,i)perylene       | 0.69   | U         | 0.69     | 5.00       | ug/L     |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 0.52   | U         | 0.52     | 5.00       | ug/L     |
| 123-91-1                  | 1,4-Dioxane                | 1.00   | U         | 1.00     | 5.00       | ug/L     |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 0.72   | U         | 0.72     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                            |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol             | 61.5   |           | 10 - 139 | 41%        | SPK: 150 |
| 13127-88-3                | Phenol-d6                  | 34.9   |           | 10 - 134 | 23%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5            | 118    |           | 49 - 133 | 118%       | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl           | 109    |           | 52 - 132 | 109%       | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol       | 204    |           | 44 - 137 | 136%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14              | 107    |           | 48 - 125 | 107%       | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 32900  | 7.859     |          |            |          |
| 1146-65-2                 | Naphthalene-d8             | 138000 | 10.644    |          |            |          |
| 15067-26-2                | Acenaphthene-d10           | 91900  | 14.481    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10           | 219000 | 17.224    |          |            |          |
| 1719-03-5                 | Chrysene-d12               | 250000 | 21.449    |          |            |          |
| 1520-96-3                 | Perylene-d12               | 273000 | 24.463    |          |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064138.D  
Acq On : 1 Apr 2025 17:04  
Operator : RC/JU  
Sample : Q1664-10  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-002-01

Quant Time: Apr 01 17:47:33 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.859  | 152  | 32858    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.644 | 136  | 138416   | 20.000  | ng    | -0.01    |
| 39) Acenaphthene-d10        | 14.481 | 164  | 91944    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.224 | 188  | 218786   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.449 | 240  | 249872   | 20.000  | ng    | #-0.01   |
| 86) Perylene-d12            | 24.463 | 264  | 272575   | 20.000  | ng    | -0.01    |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.450  | 112  | 129446   | 61.514  | ng    | 0.00     |
| 7) Phenol-d6                | 7.025  | 99   | 99786    | 34.857  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.011  | 82   | 295610   | 118.021 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.967 | 330  | 208650   | 204.154 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.112 | 172  | 657467   | 108.540 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.845 | 244  | 1322188  | 106.993 | ng    | 0.00     |

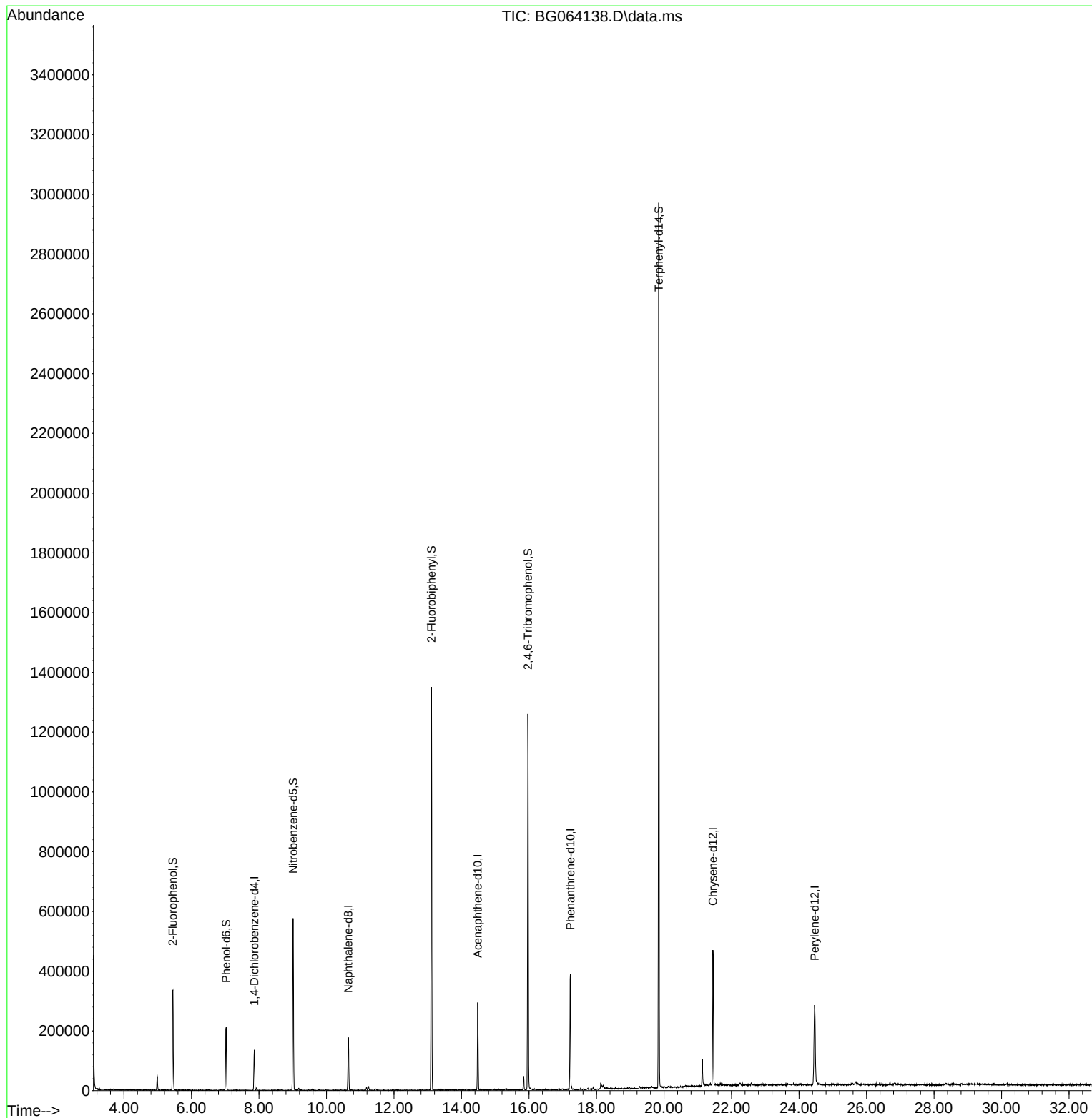
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

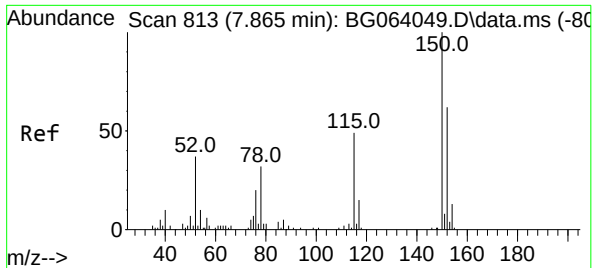
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Data File : BG064138.D  
Acq On : 1 Apr 2025 17:04  
Operator : RC/JU  
Sample : Q1664-10  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-002-01

Quant Time: Apr 01 17:47:33 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

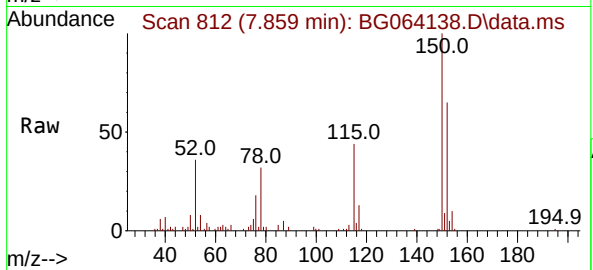




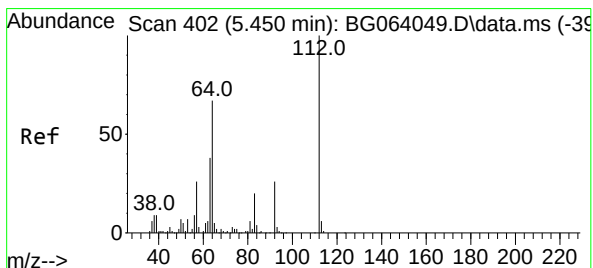
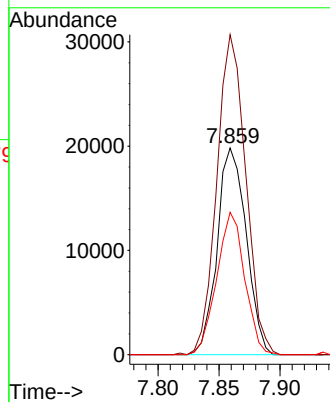
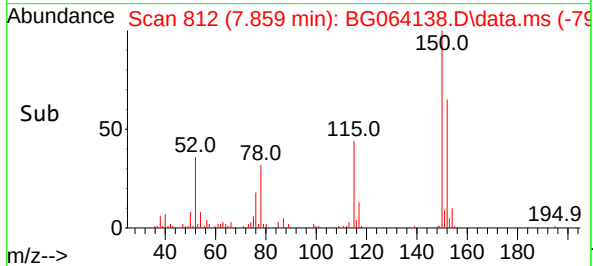


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.859 min Scan# 813  
Delta R.T. -0.006 min  
Lab File: BG064138.D  
Acq: 1 Apr 2025 17:04

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-002-01

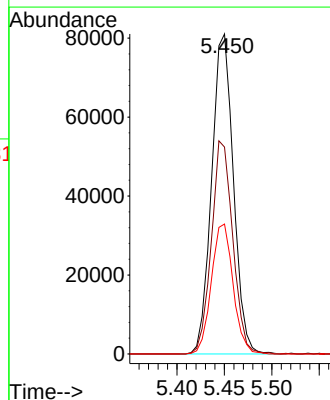
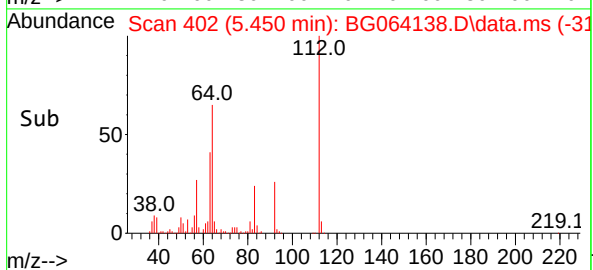
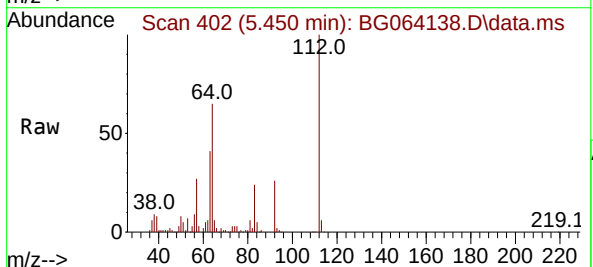


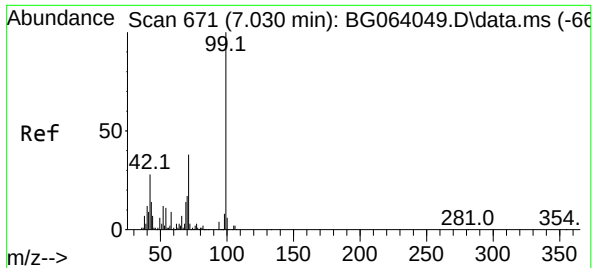
Tgt Ion:152 Resp: 32858  
Ion Ratio Lower Upper  
152 100  
150 154.8 129.2 193.8  
115 68.8 63.0 94.6



#5  
2-Fluorophenol  
Concen: 61.514 ng  
RT: 5.450 min Scan# 402  
Delta R.T. 0.000 min  
Lab File: BG064138.D  
Acq: 1 Apr 2025 17:04

Tgt Ion:112 Resp: 129446  
Ion Ratio Lower Upper  
112 100  
64 64.7 53.7 80.5  
63 40.6 30.2 45.4

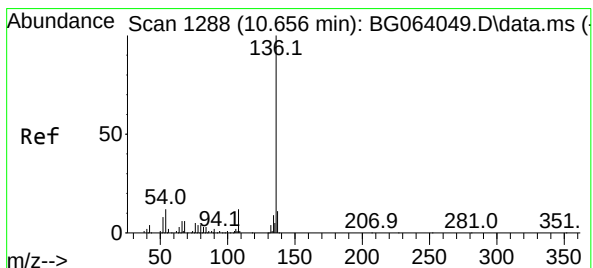
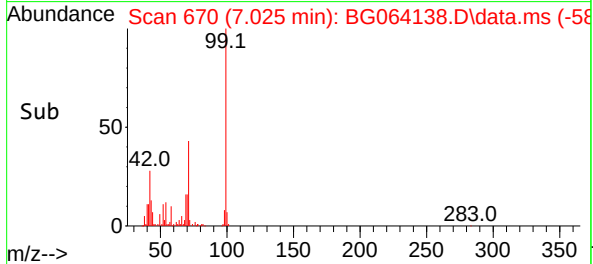
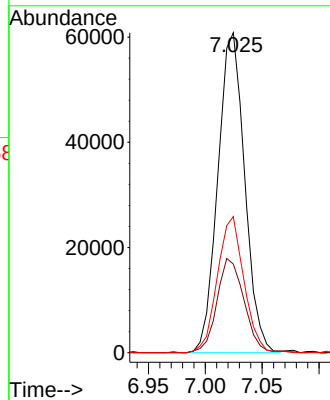
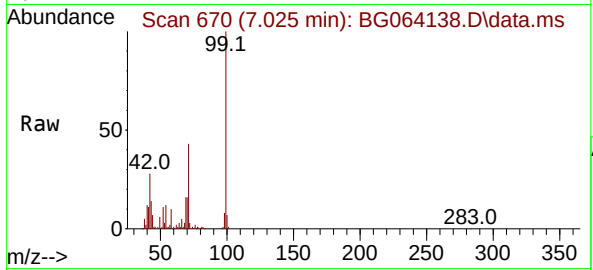




#7  
Phenol-d6  
Concen: 34.857 ng  
RT: 7.025 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: BG064138.D  
Acq: 1 Apr 2025 17:04

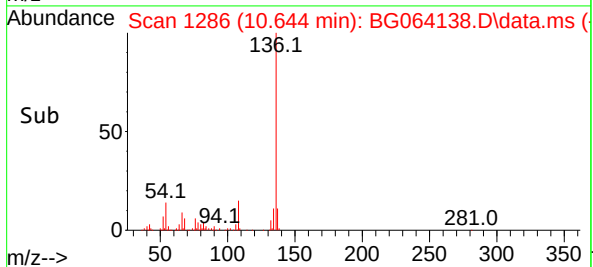
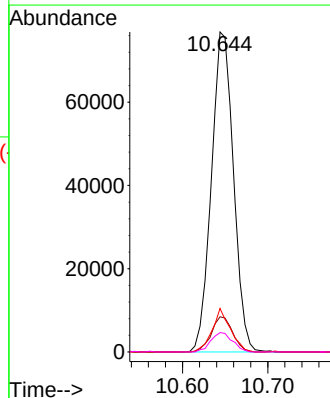
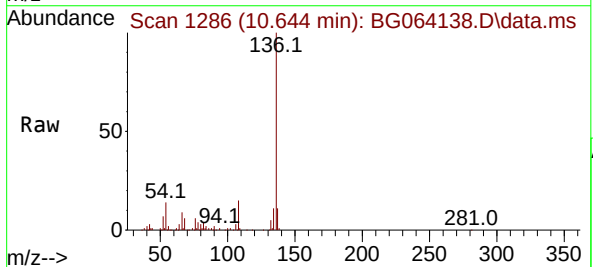
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-002-01

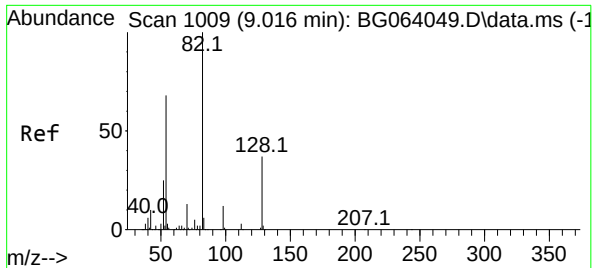
Tgt Ion: 99 Resp: 99786  
Ion Ratio Lower Upper  
99 100  
42 27.7 22.7 34.1  
71 42.6 30.6 46.0



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.644 min Scan# 1286  
Delta R.T. -0.012 min  
Lab File: BG064138.D  
Acq: 1 Apr 2025 17:04

Tgt Ion: 136 Resp: 138416  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.5 12.7  
54 13.6 9.9 14.9  
68 6.1 4.6 6.8





#23

Nitrobenzene-d5

Concen: 118.021 ng

RT: 9.011 min Scan# 1009

Delta R.T. -0.006 min

Lab File: BG064138.D

Acq: 1 Apr 2025 17:04

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-002-01

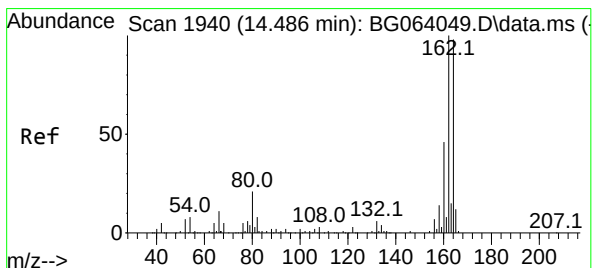
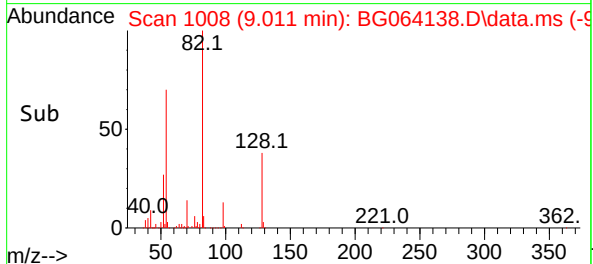
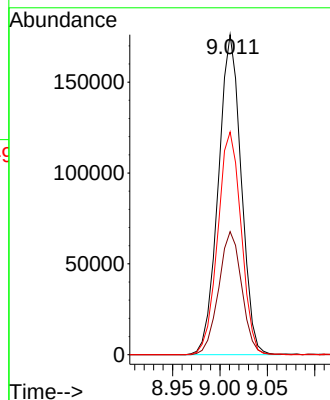
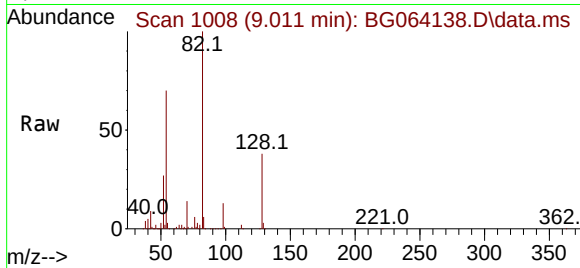
Tgt Ion: 82 Resp: 295610

Ion Ratio Lower Upper

82 100

128 38.5 30.0 45.0

54 69.6 54.7 82.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.481 min Scan# 1939

Delta R.T. -0.005 min

Lab File: BG064138.D

Acq: 1 Apr 2025 17:04

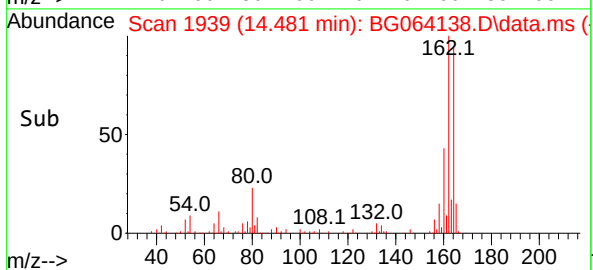
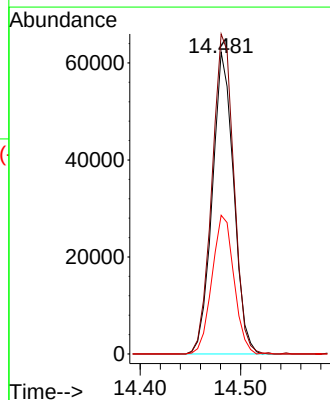
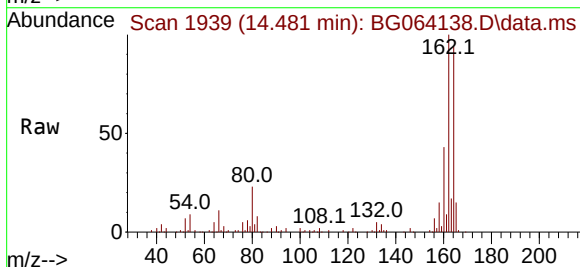
Tgt Ion:164 Resp: 91944

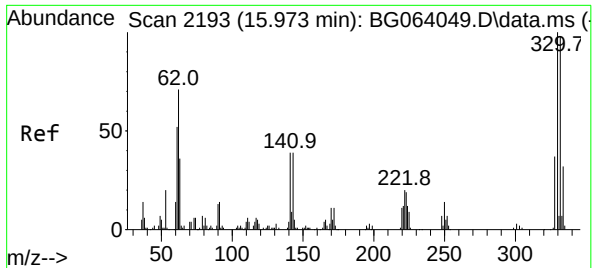
Ion Ratio Lower Upper

164 100

162 106.0 81.4 122.0

160 46.0 37.0 55.6

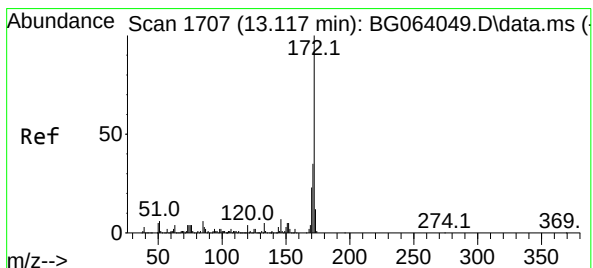
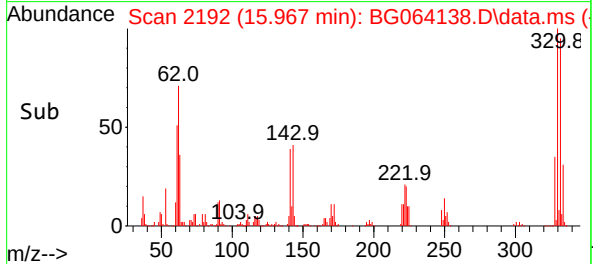
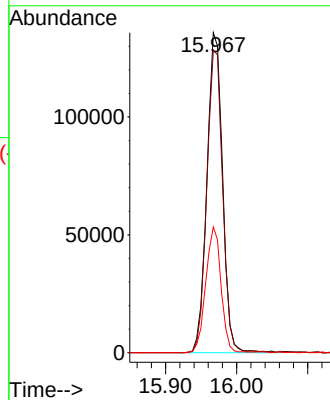
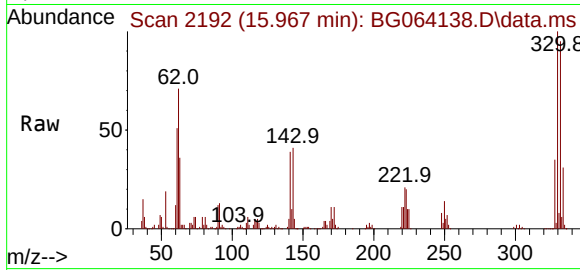




#42  
2,4,6-Tribromophenol  
Concen: 204.154 ng  
RT: 15.967 min Scan# 2193  
Delta R.T. -0.006 min  
Lab File: BG064138.D  
Acq: 1 Apr 2025 17:04

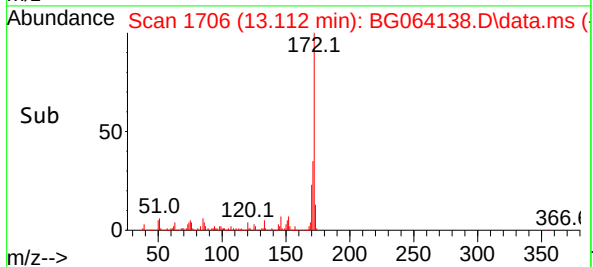
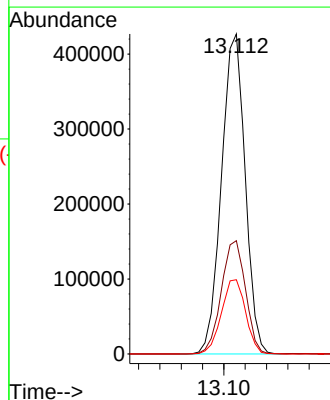
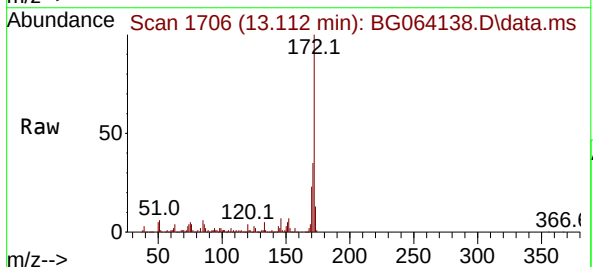
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-002-01

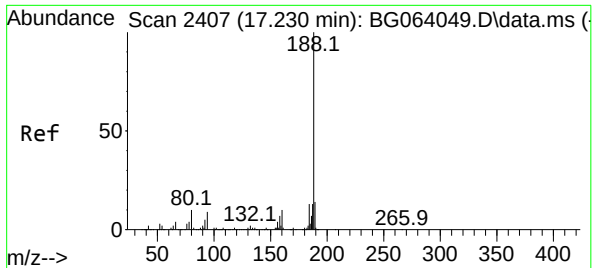
Tgt Ion:330 Resp: 208650  
Ion Ratio Lower Upper  
330 100  
332 95.0 76.7 115.1  
141 38.3 29.7 44.5



#45  
2-Fluorobiphenyl  
Concen: 108.540 ng  
RT: 13.112 min Scan# 1706  
Delta R.T. -0.006 min  
Lab File: BG064138.D  
Acq: 1 Apr 2025 17:04

Tgt Ion:172 Resp: 657467  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.0 42.0  
170 23.2 18.7 28.1

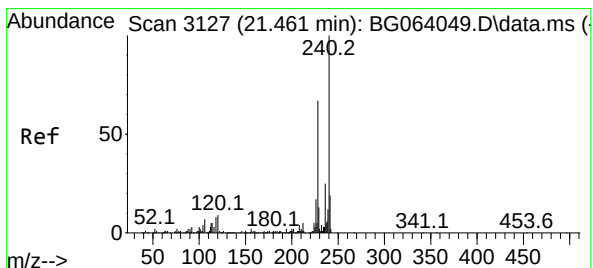
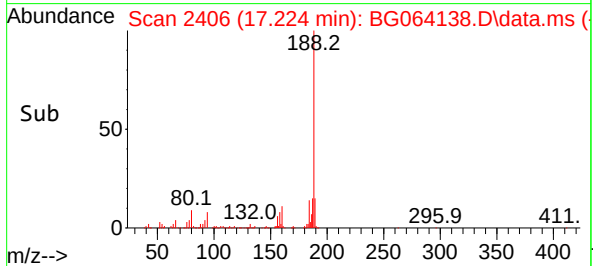
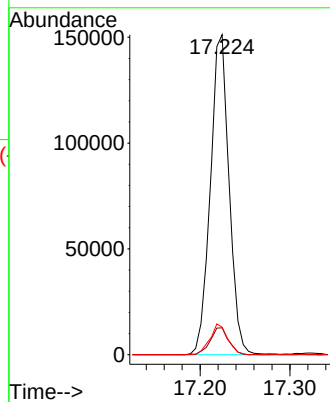
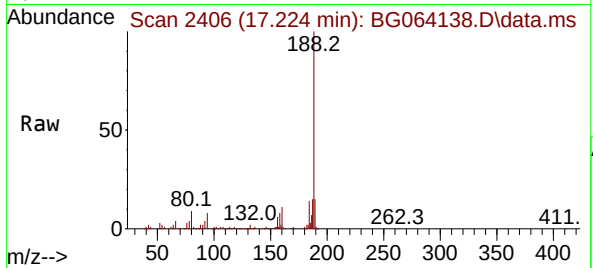




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.224 min Scan# 2406  
Delta R.T. -0.006 min  
Lab File: BG064138.D  
Acq: 1 Apr 2025 17:04

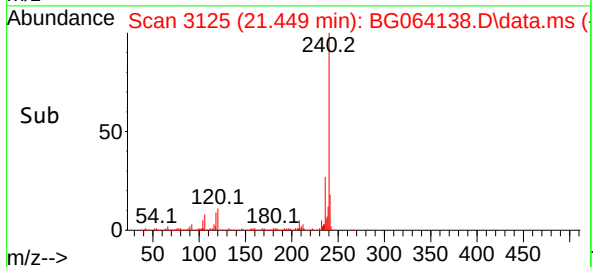
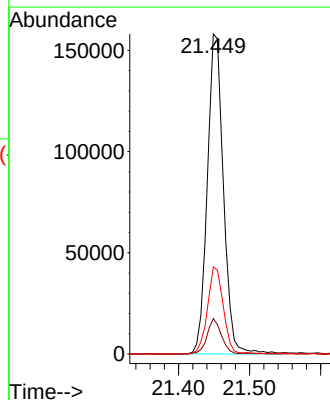
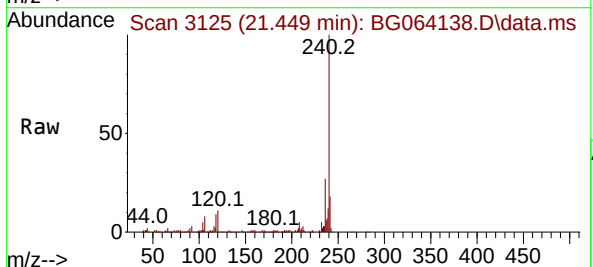
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-002-01

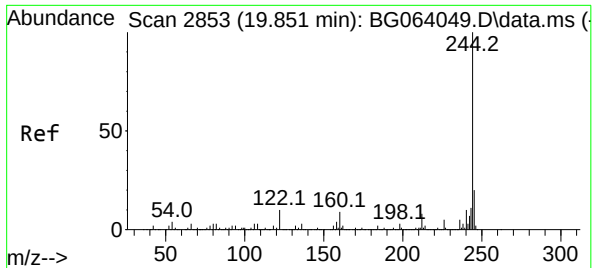
Tgt Ion:188 Resp: 218786  
Ion Ratio Lower Upper  
188 100  
94 8.4 6.9 10.3  
80 8.6 8.1 12.1



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.449 min Scan# 3125  
Delta R.T. -0.012 min  
Lab File: BG064138.D  
Acq: 1 Apr 2025 17:04

Tgt Ion:240 Resp: 249872  
Ion Ratio Lower Upper  
240 100  
120 11.0 7.2 10.8#  
236 27.2 20.2 30.2

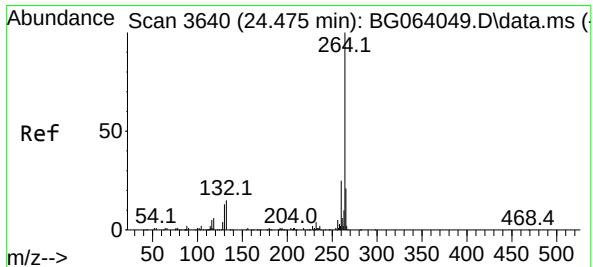
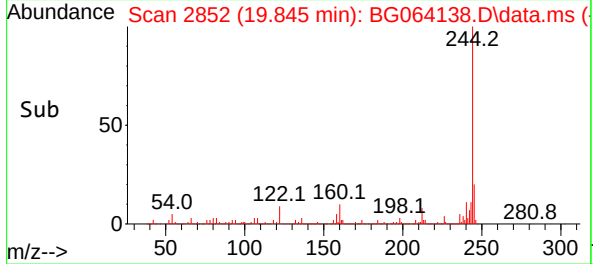
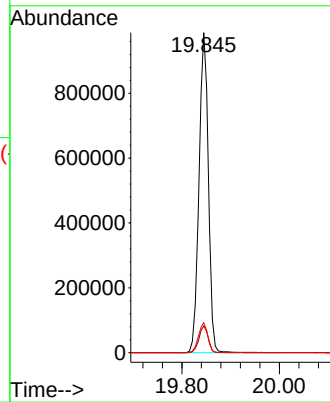
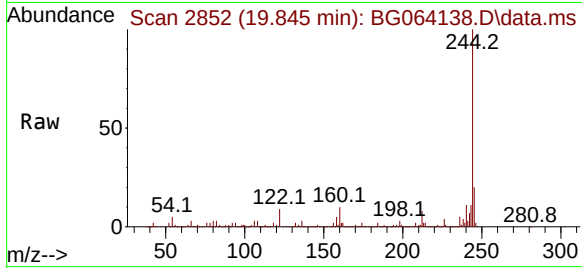




#79  
Terphenyl-d14  
Concen: 106.993 ng  
RT: 19.845 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BG064138.D  
Acq: 1 Apr 2025 17:04

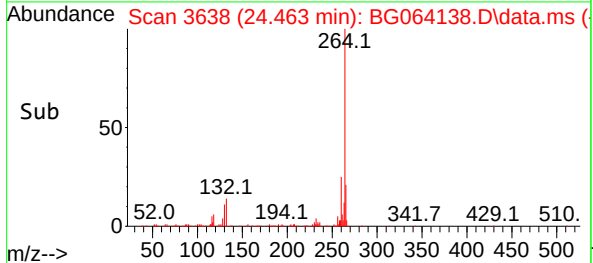
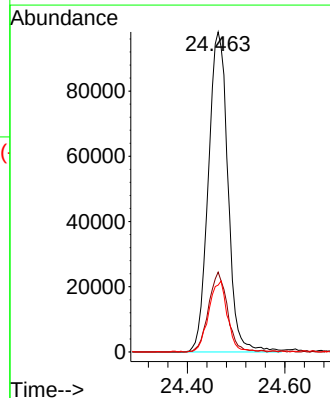
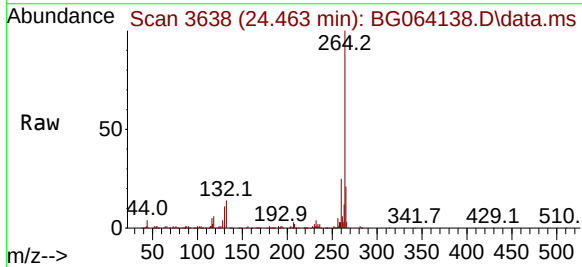
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-002-01

Tgt Ion:244 Resp: 1322188  
Ion Ratio Lower Upper  
244 100  
212 8.4 6.2 9.4  
122 9.4 8.0 12.0



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.463 min Scan# 3638  
Delta R.T. -0.012 min  
Lab File: BG064138.D  
Acq: 1 Apr 2025 17:04

Tgt Ion:264 Resp: 272575  
Ion Ratio Lower Upper  
264 100  
260 25.0 19.6 29.4  
265 20.9 16.6 25.0



## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25 |
| Project:           | RFP 905                | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-003-01      | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-12               | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064139.D        | 1         | 03/31/25 11:00 | 04/01/25 17:45 | PB167393      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|-----------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                             |       |           |      |            |       |
| 100-52-7       | Benzaldehyde                | 3.90  | U         | 3.90 | 10.0       | ug/L  |
| 108-95-2       | Phenol                      | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.81  | U         | 0.81 | 5.00       | ug/L  |
| 95-57-8        | 2-Chlorophenol              | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 95-48-7        | 2-Methylphenol              | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 98-86-2        | Acetophenone                | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 65794-96-9     | 3+4-Methylphenols           | 1.10  | UQ        | 1.10 | 10.0       | ug/L  |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 1.40  | U         | 1.40 | 2.50       | ug/L  |
| 67-72-1        | Hexachloroethane            | 0.65  | U         | 0.65 | 5.00       | ug/L  |
| 98-95-3        | Nitrobenzene                | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 78-59-1        | Isophorone                  | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 88-75-5        | 2-Nitrophenol               | 1.80  | UQ        | 1.80 | 5.00       | ug/L  |
| 105-67-9       | 2,4-Dimethylphenol          | 1.90  | U         | 1.90 | 5.00       | ug/L  |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 120-83-2       | 2,4-Dichlorophenol          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 91-20-3        | Naphthalene                 | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 106-47-8       | 4-Chloroaniline             | 0.84  | U         | 0.84 | 5.00       | ug/L  |
| 87-68-3        | Hexachlorobutadiene         | 0.54  | U         | 0.54 | 5.00       | ug/L  |
| 105-60-2       | Caprolactam                 | 1.10  | U         | 1.10 | 10.0       | ug/L  |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 91-57-6        | 2-Methylnaphthalene         | 0.56  | U         | 0.56 | 5.00       | ug/L  |
| 77-47-4        | Hexachlorocyclopentadiene   | 3.60  | UQ        | 3.60 | 10.0       | ug/L  |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.51  | U         | 0.51 | 5.00       | ug/L  |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.62  | UQ        | 0.62 | 5.00       | ug/L  |
| 92-52-4        | 1,1-Biphenyl                | 0.53  | U         | 0.53 | 5.00       | ug/L  |
| 91-58-7        | 2-Chloronaphthalene         | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 88-74-4        | 2-Nitroaniline              | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 131-11-3       | Dimethylphthalate           | 10.1  |           | 0.61 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-003-01      | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-12               | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064139.D        | 1         | 03/31/25 11:00 | 04/01/25 17:45 | PB167393      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|------------|----------------------------|-------|-----------|------|------------|-------|
| 208-96-8   | Acenaphthylene             | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 99-09-2    | 3-Nitroaniline             | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 83-32-9    | Acenaphthene               | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 51-28-5    | 2,4-Dinitrophenol          | 6.00  | U         | 6.00 | 10.0       | ug/L  |
| 100-02-7   | 4-Nitrophenol              | 2.40  | U         | 2.40 | 10.0       | ug/L  |
| 132-64-9   | Dibenzofuran               | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 121-14-2   | 2,4-Dinitrotoluene         | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 84-66-2    | Diethylphthalate           | 0.69  | U         | 0.69 | 5.00       | ug/L  |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 86-73-7    | Fluorene                   | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 100-01-6   | 4-Nitroaniline             | 1.50  | U         | 1.50 | 5.00       | ug/L  |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 2.90  | UQ        | 2.90 | 10.0       | ug/L  |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.40  | U         | 0.40 | 5.00       | ug/L  |
| 118-74-1   | Hexachlorobenzene          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 1912-24-9  | Atrazine                   | 1.00  | UQ        | 1.00 | 5.00       | ug/L  |
| 87-86-5    | Pentachlorophenol          | 1.60  | U         | 1.60 | 10.0       | ug/L  |
| 85-01-8    | Phenanthrene               | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 120-12-7   | Anthracene                 | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 86-74-8    | Carbazole                  | 0.72  | U         | 0.72 | 5.00       | ug/L  |
| 84-74-2    | Di-n-butylphthalate        | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 206-44-0   | Fluoranthene               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 129-00-0   | Pyrene                     | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 85-68-7    | Butylbenzylphthalate       | 1.90  | UQ        | 1.90 | 5.00       | ug/L  |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.93  | U         | 0.93 | 10.0       | ug/L  |
| 56-55-3    | Benzo(a)anthracene         | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 218-01-9   | Chrysene                   | 0.44  | U         | 0.44 | 5.00       | ug/L  |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 1.60  | U         | 1.60 | 5.00       | ug/L  |
| 117-84-0   | Di-n-octyl phthalate       | 2.30  | U         | 2.30 | 10.0       | ug/L  |
| 205-99-2   | Benzo(b)fluoranthene       | 0.49  | U         | 0.49 | 5.00       | ug/L  |



## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25 |
| Project:           | RFP 905                | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-003-01      | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-12               | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064139.D        | 1         | 03/31/25 11:00 | 04/01/25 17:45 | PB167393      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|----------------------------|--------|-----------|----------|------------|----------|
| 207-08-9                  | Benzo(k)fluoranthene       | 0.48   | U         | 0.48     | 5.00       | ug/L     |
| 50-32-8                   | Benzo(a)pyrene             | 0.55   | U         | 0.55     | 5.00       | ug/L     |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 0.59   | U         | 0.59     | 5.00       | ug/L     |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 0.67   | U         | 0.67     | 5.00       | ug/L     |
| 191-24-2                  | Benzo(g,h,i)perylene       | 0.69   | U         | 0.69     | 5.00       | ug/L     |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 0.52   | U         | 0.52     | 5.00       | ug/L     |
| 123-91-1                  | 1,4-Dioxane                | 1.00   | U         | 1.00     | 5.00       | ug/L     |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 0.72   | U         | 0.72     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                            |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol             | 61.3   |           | 10 - 139 | 41%        | SPK: 150 |
| 13127-88-3                | Phenol-d6                  | 34.6   |           | 10 - 134 | 23%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5            | 121    |           | 49 - 133 | 121%       | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl           | 109    |           | 52 - 132 | 109%       | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol       | 206    |           | 44 - 137 | 137%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14              | 110    |           | 48 - 125 | 110%       | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 34100  | 7.86      |          |            |          |
| 1146-65-2                 | Naphthalene-d8             | 141000 | 10.645    |          |            |          |
| 15067-26-2                | Acenaphthene-d10           | 95400  | 14.482    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10           | 229000 | 17.22     |          |            |          |
| 1719-03-5                 | Chrysene-d12               | 252000 | 21.45     |          |            |          |
| 1520-96-3                 | Perylene-d12               | 272000 | 24.464    |          |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064139.D  
Acq On : 1 Apr 2025 17:45  
Operator : RC/JU  
Sample : Q1664-12  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-003-01

Quant Time: Apr 01 19:19:46 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

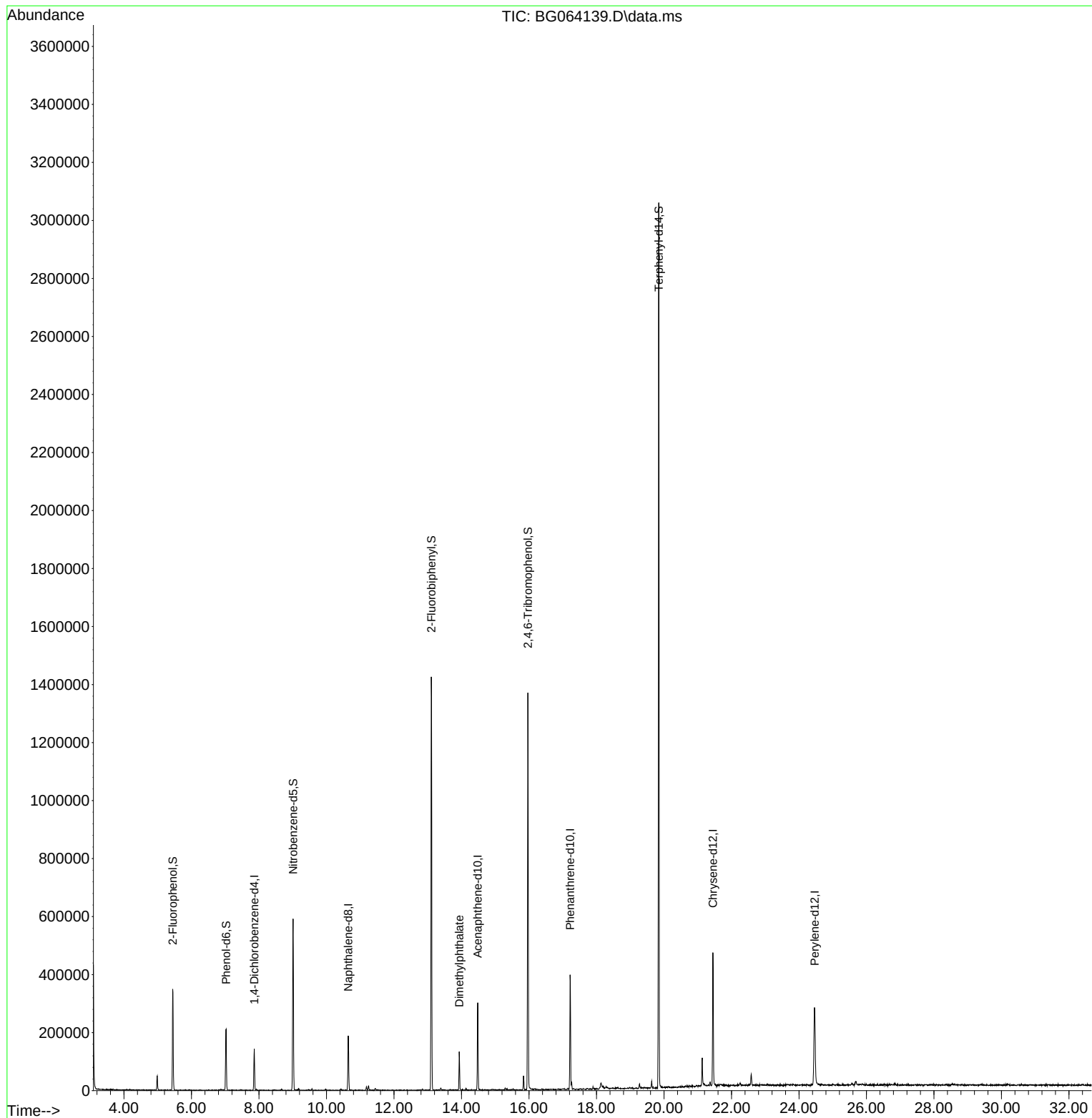
| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.860  | 152  | 34101    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.645 | 136  | 141057   | 20.000  | ng    | -0.01    |
| 39) Acenaphthene-d10        | 14.482 | 164  | 95411    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.220 | 188  | 229133   | 20.000  | ng    | -0.01    |
| 76) Chrysene-d12            | 21.450 | 240  | 251581   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12            | 24.464 | 264  | 271745   | 20.000  | ng    | -0.01    |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.445  | 112  | 133858   | 61.292  | ng    | 0.00     |
| 7) Phenol-d6                | 7.026  | 99   | 102833   | 34.612  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.012  | 82   | 308859   | 121.002 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.968 | 330  | 218583   | 206.101 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.107 | 172  | 687821   | 109.425 | ng    | -0.01    |
| 79) Terphenyl-d14           | 19.846 | 244  | 1367884  | 109.939 | ng    | 0.00     |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 50) Dimethylphthalate       | 13.935 | 163  | 71179    | 10.106  | ng    | 99       |

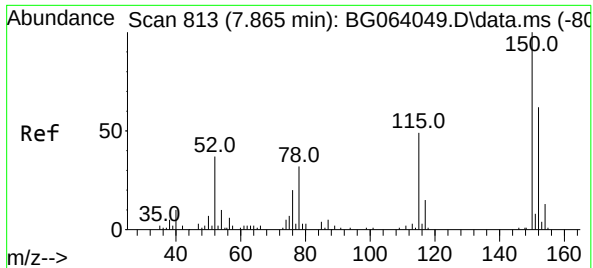
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064139.D  
Acq On : 1 Apr 2025 17:45  
Operator : RC/JU  
Sample : Q1664-12  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-003-01

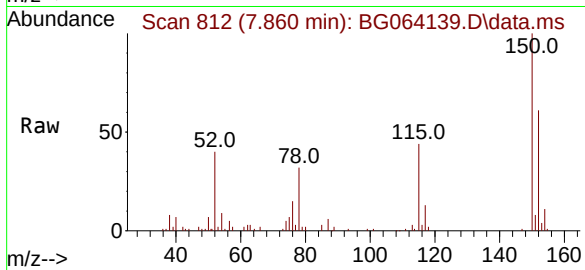
Quant Time: Apr 01 19:19:46 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration



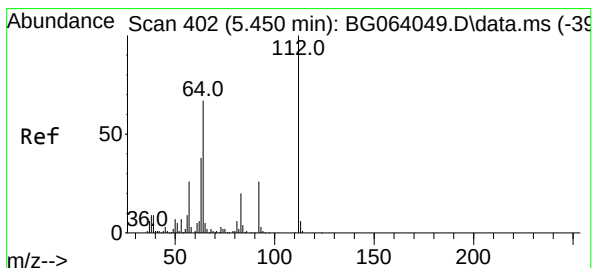
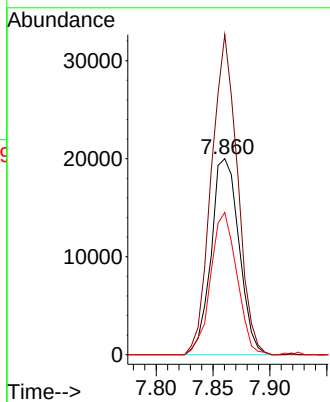
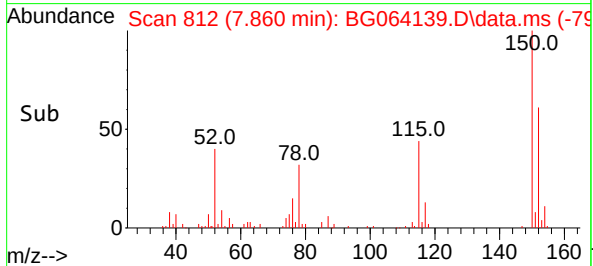


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.860 min Scan# 813  
Delta R.T. -0.005 min  
Lab File: BG064139.D  
Acq: 1 Apr 2025 17:45

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-003-01

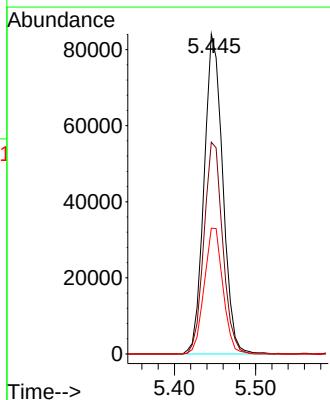
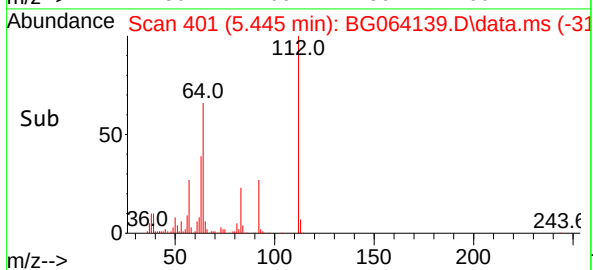
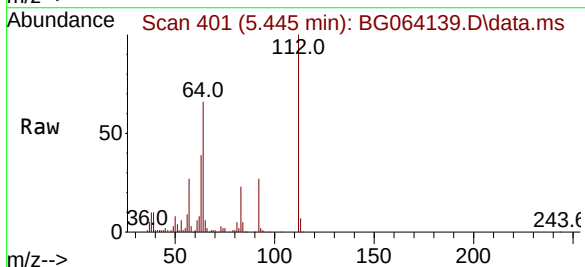


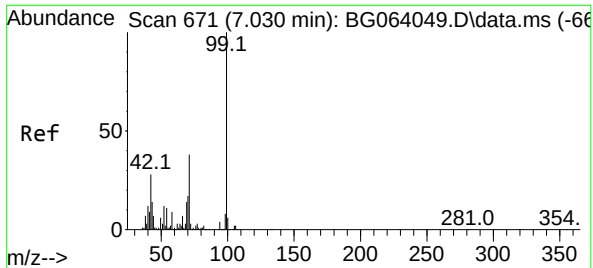
Tgt Ion:152 Resp: 34101  
Ion Ratio Lower Upper  
152 100  
150 163.2 129.2 193.8  
115 72.5 63.0 94.6



#5  
2-Fluorophenol  
Concen: 61.292 ng  
RT: 5.445 min Scan# 401  
Delta R.T. -0.004 min  
Lab File: BG064139.D  
Acq: 1 Apr 2025 17:45

Tgt Ion:112 Resp: 133858  
Ion Ratio Lower Upper  
112 100  
64 66.2 53.7 80.5  
63 39.3 30.2 45.4

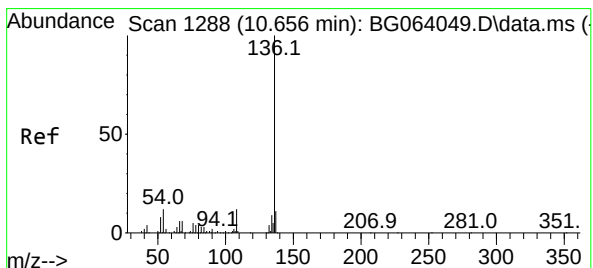
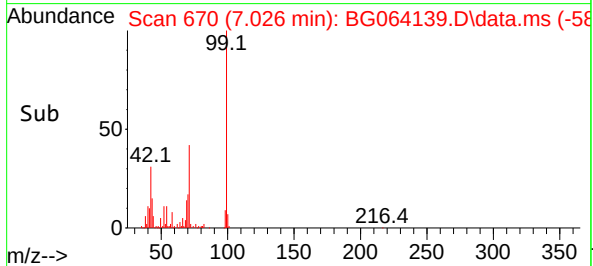
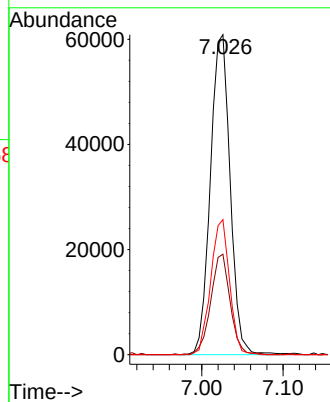
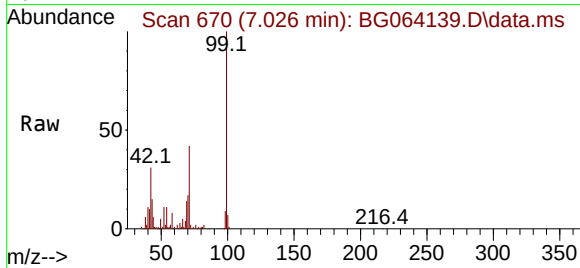




#7  
Phenol-d6  
Concen: 34.612 ng  
RT: 7.026 min Scan# 61  
Delta R.T. -0.004 min  
Lab File: BG064139.D  
Acq: 1 Apr 2025 17:45

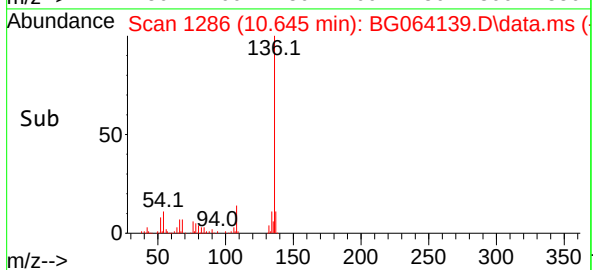
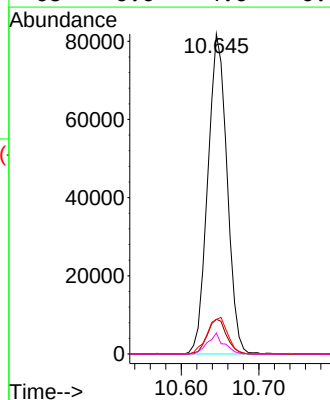
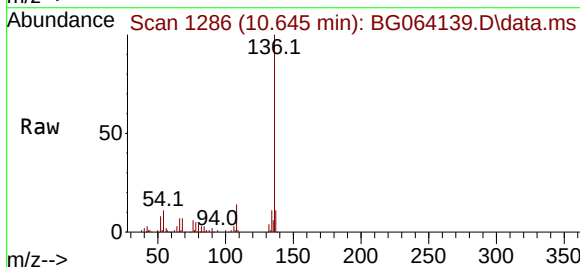
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-003-01

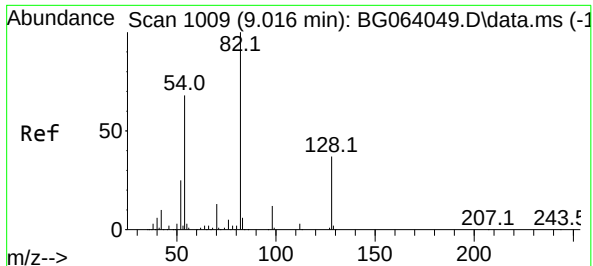
Tgt Ion: 99 Resp: 102833  
Ion Ratio Lower Upper  
99 100  
42 31.4 22.7 34.1  
71 42.2 30.6 46.0



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.645 min Scan# 1286  
Delta R.T. -0.011 min  
Lab File: BG064139.D  
Acq: 1 Apr 2025 17:45

Tgt Ion:136 Resp: 141057  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.5 12.7  
54 10.8 9.9 14.9  
68 6.6 4.6 6.8





#23

Nitrobenzene-d5

Concen: 121.002 ng

RT: 9.012 min Scan# 1009

Delta R.T. -0.004 min

Lab File: BG064139.D

Acq: 1 Apr 2025 17:45

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-003-01

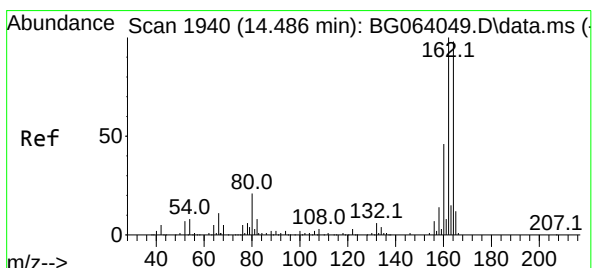
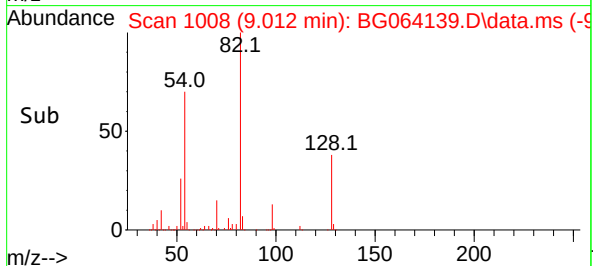
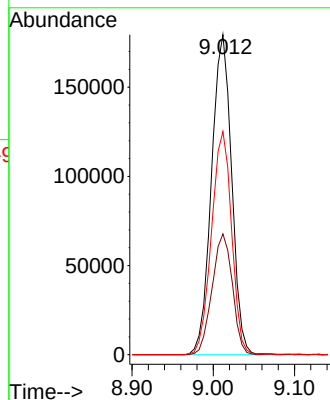
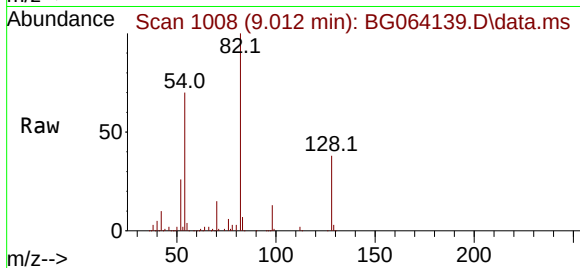
Tgt Ion: 82 Resp: 308859

Ion Ratio Lower Upper

82 100

128 37.7 30.0 45.0

54 69.7 54.7 82.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.482 min Scan# 1939

Delta R.T. -0.004 min

Lab File: BG064139.D

Acq: 1 Apr 2025 17:45

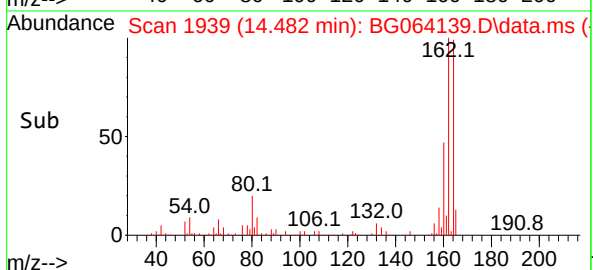
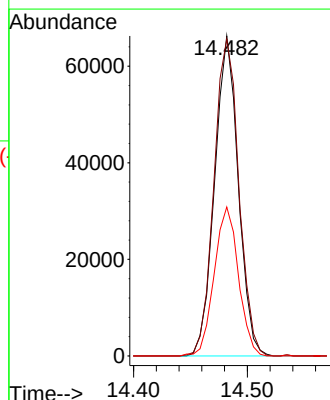
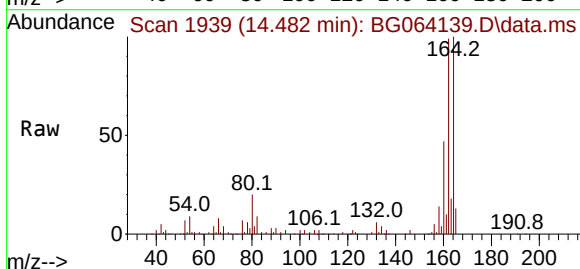
Tgt Ion:164 Resp: 95411

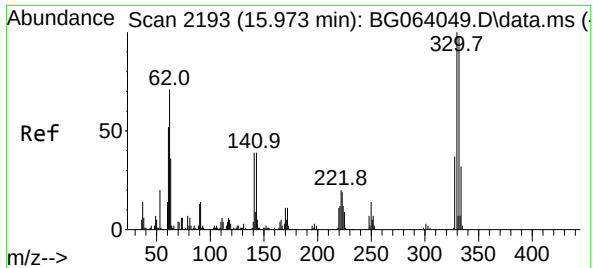
Ion Ratio Lower Upper

164 100

162 99.1 81.4 122.0

160 46.5 37.0 55.6

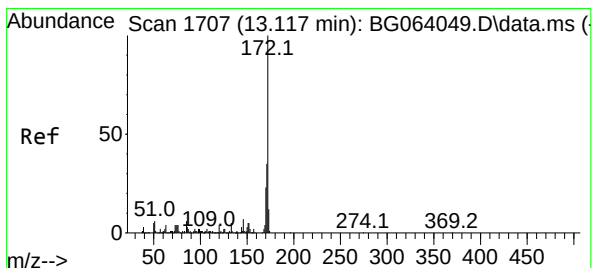
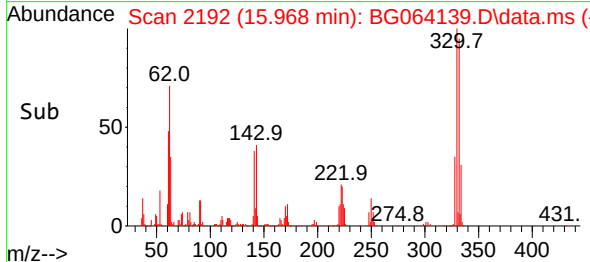
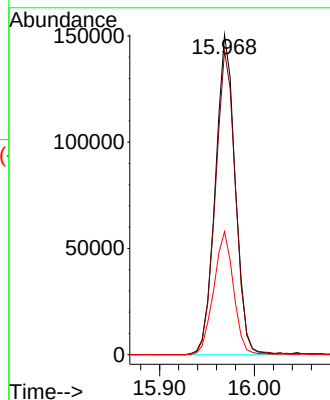
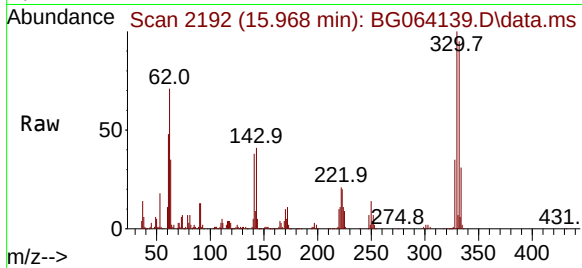




#42  
2,4,6-Tribromophenol  
Concen: 206.101 ng  
RT: 15.968 min Scan# 2193  
Delta R.T. -0.004 min  
Lab File: BG064139.D  
Acq: 1 Apr 2025 17:45

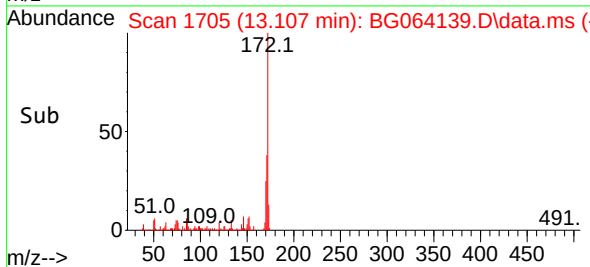
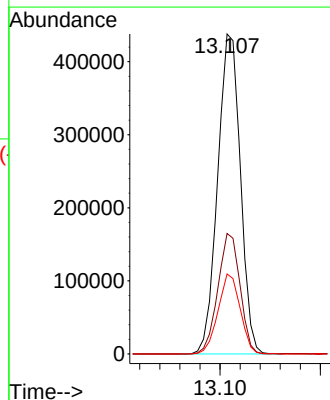
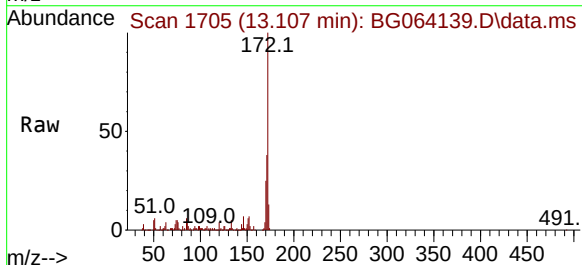
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-003-01

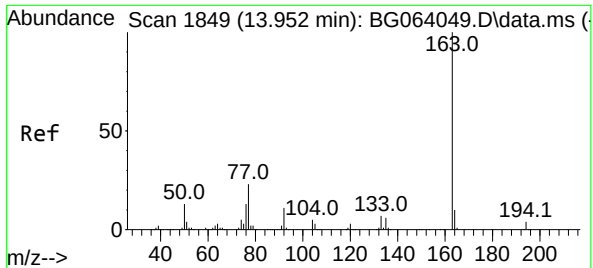
Tgt Ion:330 Resp: 218583  
Ion Ratio Lower Upper  
330 100  
332 96.5 76.7 115.1  
141 38.4 29.7 44.5



#45  
2-Fluorobiphenyl  
Concen: 109.425 ng  
RT: 13.107 min Scan# 1705  
Delta R.T. -0.010 min  
Lab File: BG064139.D  
Acq: 1 Apr 2025 17:45

Tgt Ion:172 Resp: 687821  
Ion Ratio Lower Upper  
172 100  
171 37.6 28.0 42.0  
170 25.0 18.7 28.1





#50

Dimethylphthalate

Concen: 10.106 ng

RT: 13.935 min Scan# 1

Delta R.T. -0.016 min

Lab File: BG064139.D

Acq: 1 Apr 2025 17:45

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-003-01

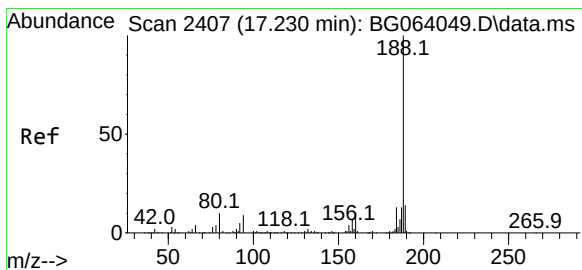
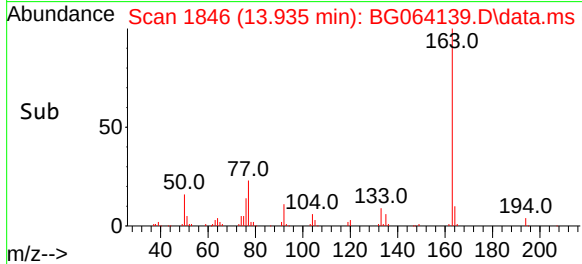
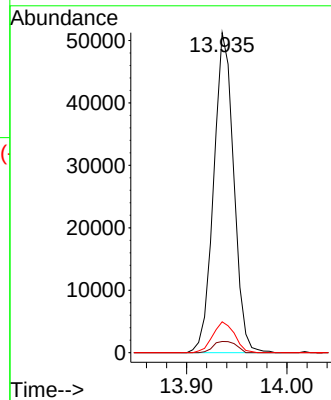
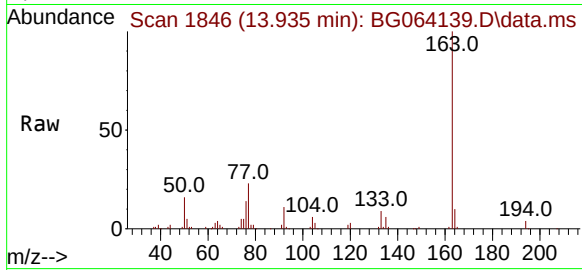
Tgt Ion:163 Resp: 71179

Ion Ratio Lower Upper

163 100

194 3.5 2.8 4.2

164 9.7 8.2 12.2



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.220 min Scan# 2405

Delta R.T. -0.010 min

Lab File: BG064139.D

Acq: 1 Apr 2025 17:45

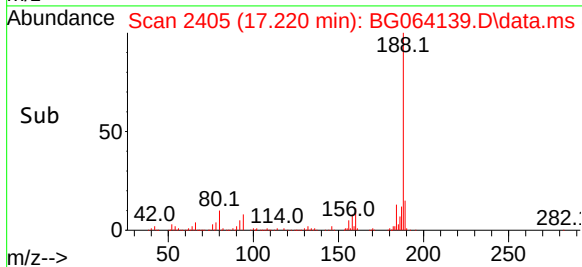
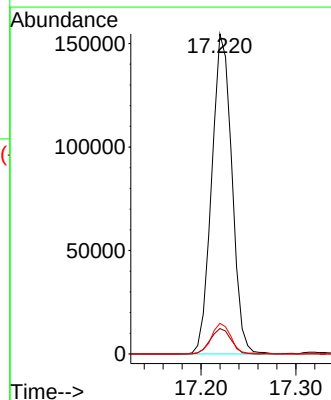
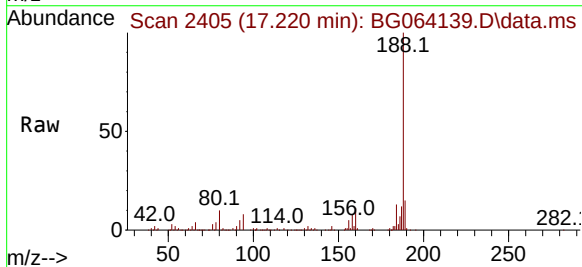
Tgt Ion:188 Resp: 229133

Ion Ratio Lower Upper

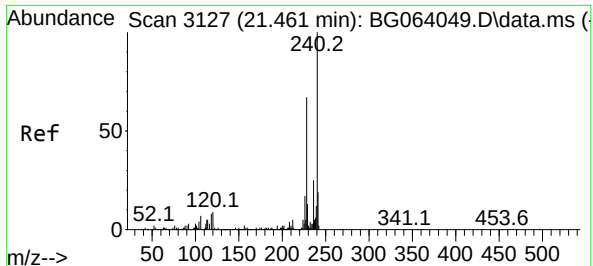
188 100

94 8.0 6.9 10.3

80 9.6 8.1 12.1



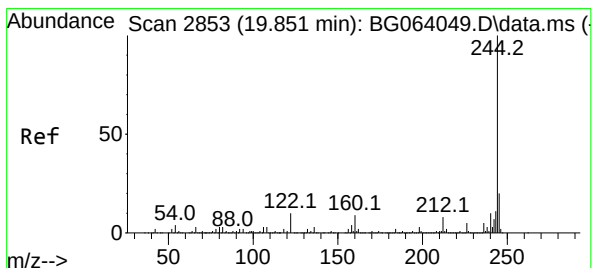
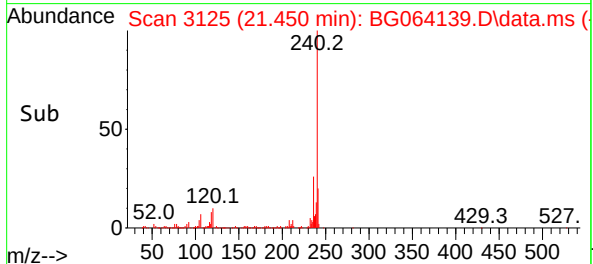
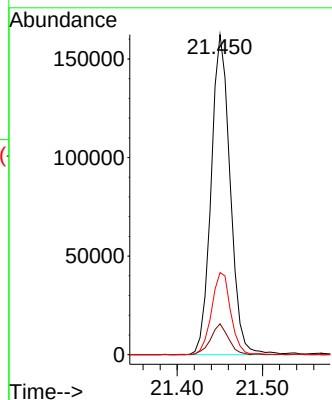
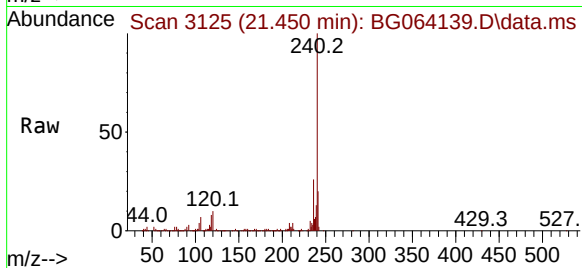




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.450 min Scan# 31  
Delta R.T. -0.010 min  
Lab File: BG064139.D  
Acq: 1 Apr 2025 17:45

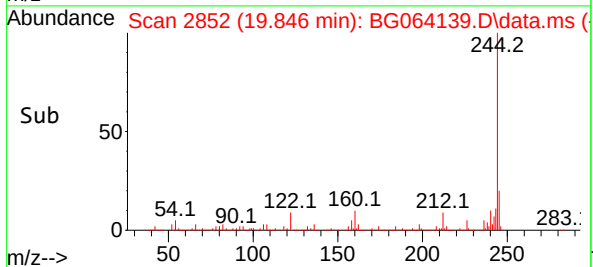
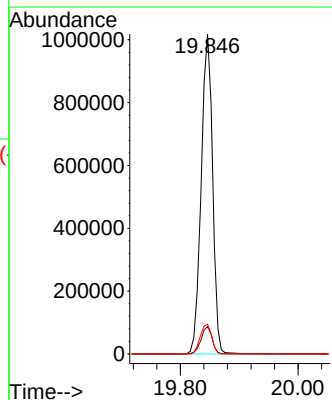
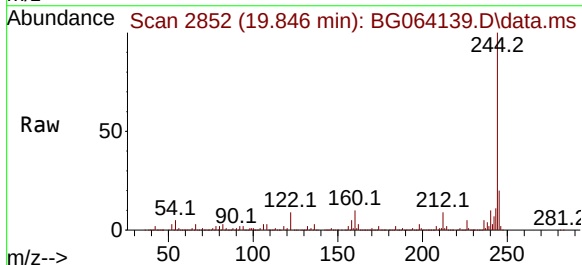
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-003-01

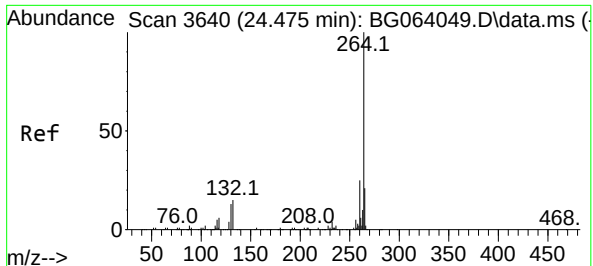
Tgt Ion:240 Resp: 251581  
Ion Ratio Lower Upper  
240 100  
120 9.7 7.2 10.8  
236 25.7 20.2 30.2



#79  
Terphenyl-d14  
Concen: 109.939 ng  
RT: 19.846 min Scan# 2852  
Delta R.T. -0.004 min  
Lab File: BG064139.D  
Acq: 1 Apr 2025 17:45

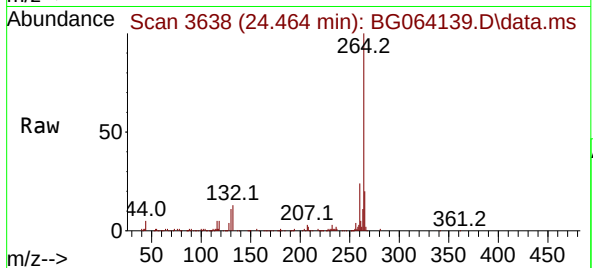
Tgt Ion:244 Resp: 1367884  
Ion Ratio Lower Upper  
244 100  
212 8.6 6.2 9.4  
122 9.3 8.0 12.0



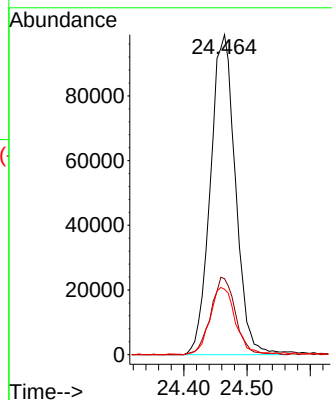
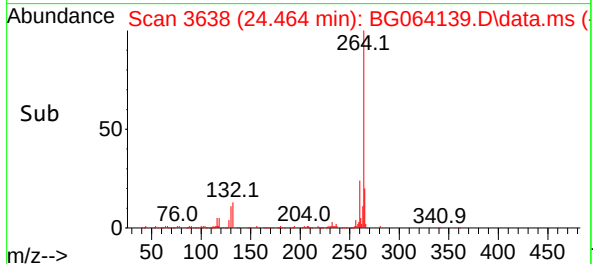


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.464 min Scan# 30  
Delta R.T. -0.010 min  
Lab File: BG064139.D  
Acq: 1 Apr 2025 17:45

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-003-01



Tgt Ion:264 Resp: 271745  
Ion Ratio Lower Upper  
264 100  
260 23.7 19.6 29.4  
265 20.4 16.6 25.0



## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-004-01      | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-14               | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064140.D        | 1         | 03/31/25 11:00 | 04/01/25 18:25 | PB167393      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|-----------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                             |       |           |      |            |       |
| 100-52-7       | Benzaldehyde                | 3.90  | U         | 3.90 | 10.0       | ug/L  |
| 108-95-2       | Phenol                      | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.81  | U         | 0.81 | 5.00       | ug/L  |
| 95-57-8        | 2-Chlorophenol              | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 95-48-7        | 2-Methylphenol              | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 98-86-2        | Acetophenone                | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 65794-96-9     | 3+4-Methylphenols           | 1.10  | UQ        | 1.10 | 10.0       | ug/L  |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 1.40  | U         | 1.40 | 2.50       | ug/L  |
| 67-72-1        | Hexachloroethane            | 0.65  | U         | 0.65 | 5.00       | ug/L  |
| 98-95-3        | Nitrobenzene                | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 78-59-1        | Isophorone                  | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 88-75-5        | 2-Nitrophenol               | 1.80  | UQ        | 1.80 | 5.00       | ug/L  |
| 105-67-9       | 2,4-Dimethylphenol          | 1.90  | U         | 1.90 | 5.00       | ug/L  |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 120-83-2       | 2,4-Dichlorophenol          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 91-20-3        | Naphthalene                 | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 106-47-8       | 4-Chloroaniline             | 0.84  | U         | 0.84 | 5.00       | ug/L  |
| 87-68-3        | Hexachlorobutadiene         | 0.54  | U         | 0.54 | 5.00       | ug/L  |
| 105-60-2       | Caprolactam                 | 1.10  | U         | 1.10 | 10.0       | ug/L  |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 91-57-6        | 2-Methylnaphthalene         | 0.56  | U         | 0.56 | 5.00       | ug/L  |
| 77-47-4        | Hexachlorocyclopentadiene   | 3.60  | UQ        | 3.60 | 10.0       | ug/L  |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.51  | U         | 0.51 | 5.00       | ug/L  |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.62  | UQ        | 0.62 | 5.00       | ug/L  |
| 92-52-4        | 1,1-Biphenyl                | 0.53  | U         | 0.53 | 5.00       | ug/L  |
| 91-58-7        | 2-Chloronaphthalene         | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 88-74-4        | 2-Nitroaniline              | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 131-11-3       | Dimethylphthalate           | 8.40  |           | 0.61 | 5.00       | ug/L  |

### Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25 |
| Project:           | RFP 905                | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-004-01      | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-14               | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064140.D        | 1         | 03/31/25 11:00 | 04/01/25 18:25 | PB167393      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|------------|----------------------------|-------|-----------|------|------------|-------|
| 208-96-8   | Acenaphthylene             | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 99-09-2    | 3-Nitroaniline             | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 83-32-9    | Acenaphthene               | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 51-28-5    | 2,4-Dinitrophenol          | 6.00  | U         | 6.00 | 10.0       | ug/L  |
| 100-02-7   | 4-Nitrophenol              | 2.40  | U         | 2.40 | 10.0       | ug/L  |
| 132-64-9   | Dibenzofuran               | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 121-14-2   | 2,4-Dinitrotoluene         | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 84-66-2    | Diethylphthalate           | 0.69  | U         | 0.69 | 5.00       | ug/L  |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 86-73-7    | Fluorene                   | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 100-01-6   | 4-Nitroaniline             | 1.50  | U         | 1.50 | 5.00       | ug/L  |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 2.90  | UQ        | 2.90 | 10.0       | ug/L  |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.40  | U         | 0.40 | 5.00       | ug/L  |
| 118-74-1   | Hexachlorobenzene          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 1912-24-9  | Atrazine                   | 1.00  | UQ        | 1.00 | 5.00       | ug/L  |
| 87-86-5    | Pentachlorophenol          | 1.60  | U         | 1.60 | 10.0       | ug/L  |
| 85-01-8    | Phenanthrene               | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 120-12-7   | Anthracene                 | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 86-74-8    | Carbazole                  | 0.72  | U         | 0.72 | 5.00       | ug/L  |
| 84-74-2    | Di-n-butylphthalate        | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 206-44-0   | Fluoranthene               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 129-00-0   | Pyrene                     | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 85-68-7    | Butylbenzylphthalate       | 1.90  | UQ        | 1.90 | 5.00       | ug/L  |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.93  | U         | 0.93 | 10.0       | ug/L  |
| 56-55-3    | Benzo(a)anthracene         | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 218-01-9   | Chrysene                   | 0.44  | U         | 0.44 | 5.00       | ug/L  |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 1.60  | U         | 1.60 | 5.00       | ug/L  |
| 117-84-0   | Di-n-octyl phthalate       | 2.30  | U         | 2.30 | 10.0       | ug/L  |
| 205-99-2   | Benzo(b)fluoranthene       | 0.49  | U         | 0.49 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25 |
| Project:           | RFP 905                | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-004-01      | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-14               | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064140.D        | 1         | 03/31/25 11:00 | 04/01/25 18:25 | PB167393      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|----------------------------|--------|-----------|----------|------------|----------|
| 207-08-9                  | Benzo(k)fluoranthene       | 0.48   | U         | 0.48     | 5.00       | ug/L     |
| 50-32-8                   | Benzo(a)pyrene             | 0.55   | U         | 0.55     | 5.00       | ug/L     |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 0.59   | U         | 0.59     | 5.00       | ug/L     |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 0.67   | U         | 0.67     | 5.00       | ug/L     |
| 191-24-2                  | Benzo(g,h,i)perylene       | 0.69   | U         | 0.69     | 5.00       | ug/L     |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 0.52   | U         | 0.52     | 5.00       | ug/L     |
| 123-91-1                  | 1,4-Dioxane                | 1.00   | U         | 1.00     | 5.00       | ug/L     |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 0.72   | U         | 0.72     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                            |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol             | 37.8   |           | 10 - 139 | 25%        | SPK: 150 |
| 13127-88-3                | Phenol-d6                  | 22.8   |           | 10 - 134 | 15%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5            | 111    |           | 49 - 133 | 111%       | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl           | 99.5   |           | 52 - 132 | 100%       | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol       | 126    |           | 44 - 137 | 84%        | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14              | 97.4   |           | 48 - 125 | 97%        | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 35600  | 7.857     |          |            |          |
| 1146-65-2                 | Naphthalene-d8             | 148000 | 10.648    |          |            |          |
| 15067-26-2                | Acenaphthene-d10           | 101000 | 14.479    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10           | 236000 | 17.223    |          |            |          |
| 1719-03-5                 | Chrysene-d12               | 265000 | 21.453    |          |            |          |
| 1520-96-3                 | Perylene-d12               | 282000 | 24.462    |          |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064140.D  
Acq On : 1 Apr 2025 18:25  
Operator : RC/JU  
Sample : Q1664-14  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-004-01

Quant Time: Apr 02 01:35:37 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

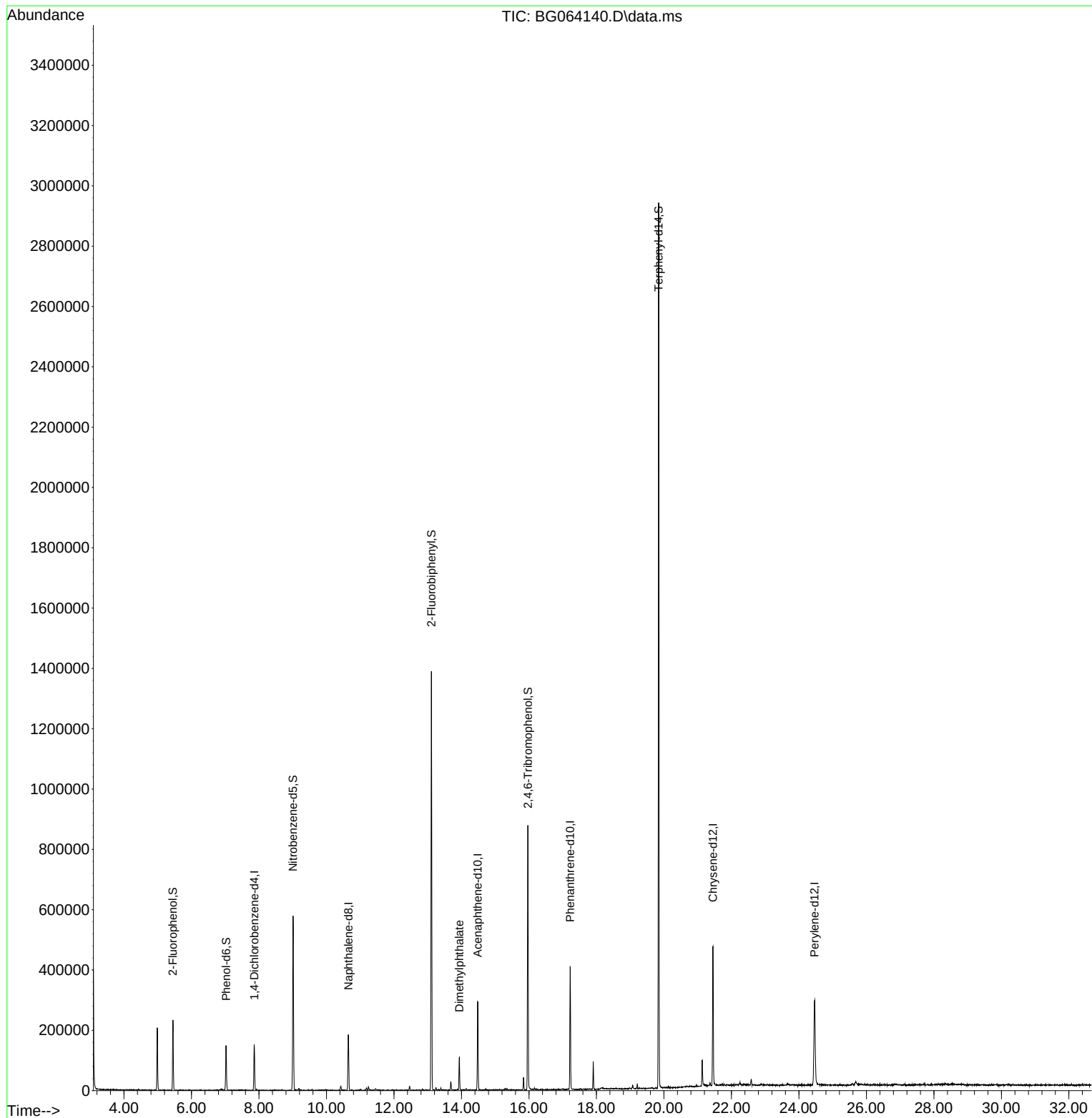
| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.857  | 152  | 35625    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.648 | 136  | 147982   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.479 | 164  | 101170   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.223 | 188  | 235772   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.453 | 240  | 265131   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 24.462 | 264  | 282446   | 20.000  | ng    | -0.01    |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.449  | 112  | 86205    | 37.784  | ng    | 0.00     |
| 7) Phenol-d6                | 7.023  | 99   | 70718    | 22.784  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.009  | 82   | 298509   | 111.474 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.971 | 330  | 142077   | 126.338 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.110 | 172  | 663507   | 99.548  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.843 | 244  | 1277163  | 97.402  | ng    | 0.00     |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 50) Dimethylphthalate       | 13.939 | 163  | 62980    | 8.433   | ng    | 99       |

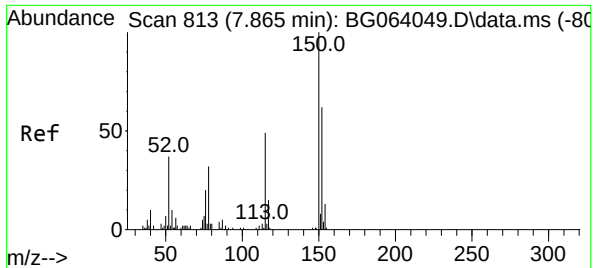
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064140.D  
Acq On : 1 Apr 2025 18:25  
Operator : RC/JU  
Sample : Q1664-14  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-004-01

Quant Time: Apr 02 01:35:37 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

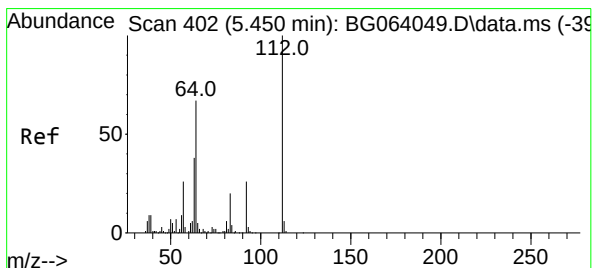
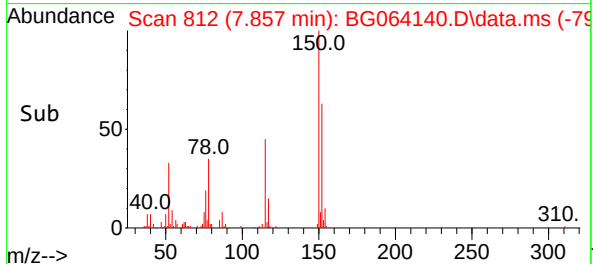
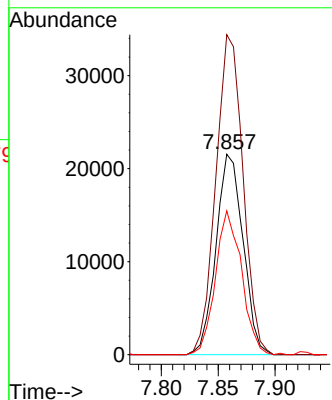
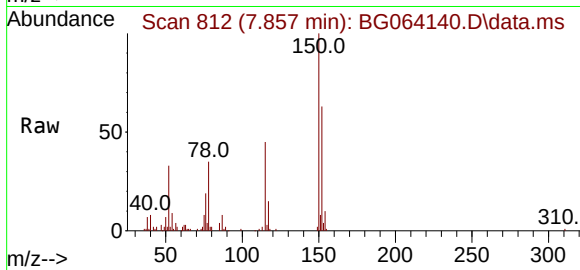




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.857 min Scan# 813  
Delta R.T. -0.008 min  
Lab File: BG064140.D  
Acq: 1 Apr 2025 18:25

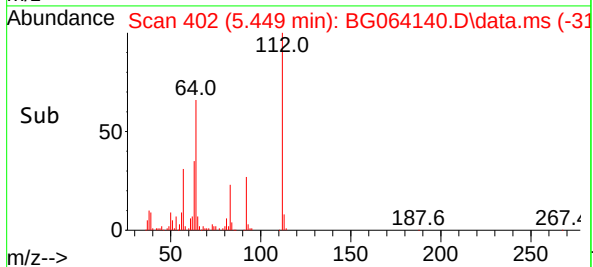
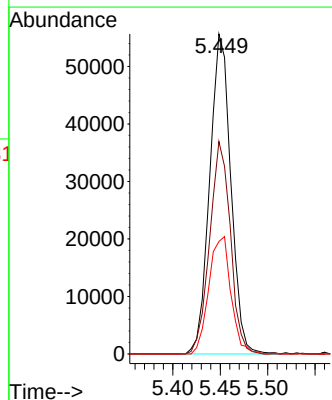
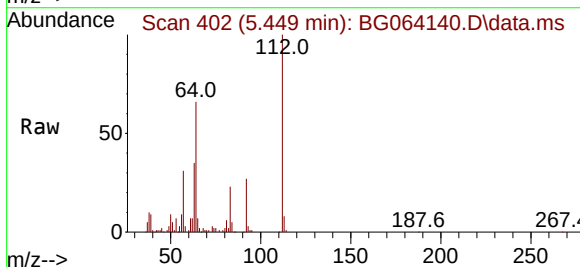
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-004-01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 35625 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 150       | 159.6 | 129.2 | 193.8 |
| 115       | 71.7  | 63.0  | 94.6  |

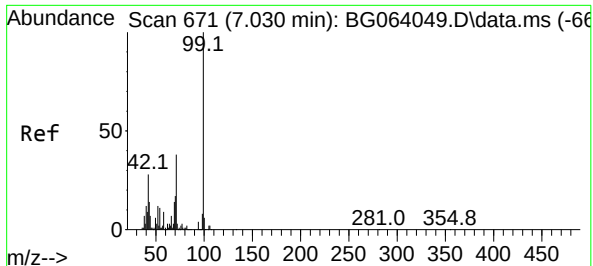


#5  
2-Fluorophenol  
Concen: 37.784 ng  
RT: 5.449 min Scan# 402  
Delta R.T. -0.001 min  
Lab File: BG064140.D  
Acq: 1 Apr 2025 18:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 86205 |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 66.4  | 53.7  | 80.5  |
| 63        | 35.1  | 30.2  | 45.4  |



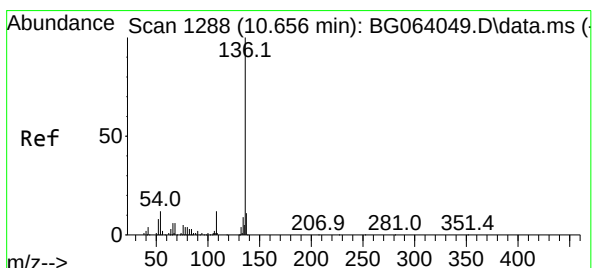
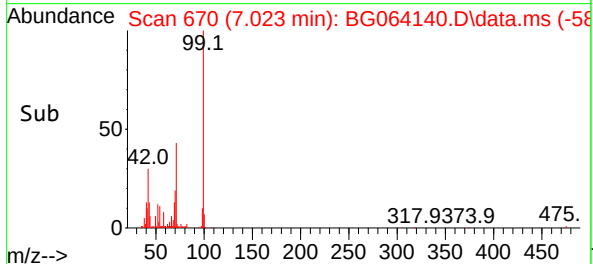
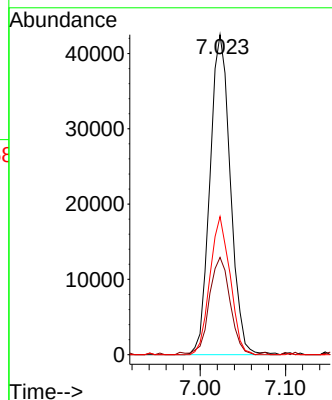
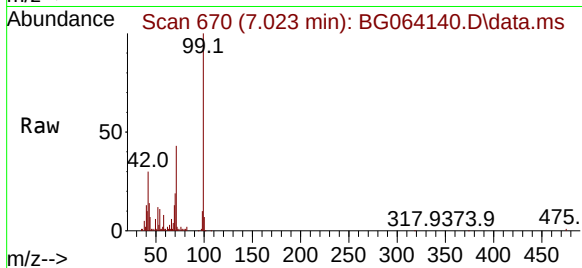




#7  
Phenol-d6  
Concen: 22.784 ng  
RT: 7.023 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BG064140.D  
Acq: 1 Apr 2025 18:25

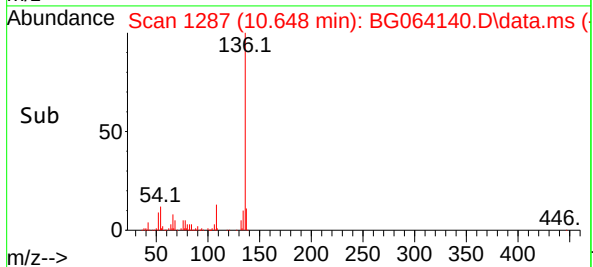
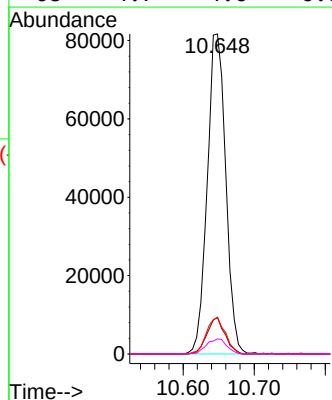
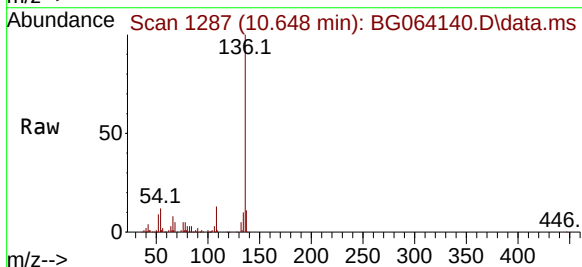
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-004-01

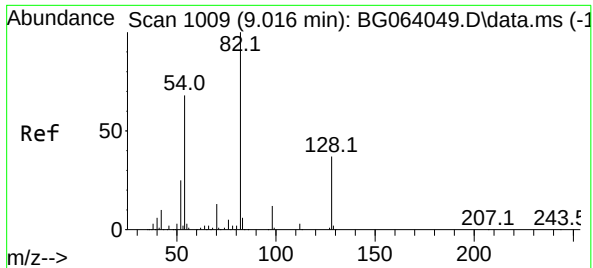
Tgt Ion: 99 Resp: 70718  
Ion Ratio Lower Upper  
99 100  
42 30.4 22.7 34.1  
71 43.1 30.6 46.0



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.648 min Scan# 1287  
Delta R.T. -0.008 min  
Lab File: BG064140.D  
Acq: 1 Apr 2025 18:25

Tgt Ion: 136 Resp: 147982  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.5 12.7  
54 11.5 9.9 14.9  
68 4.7 4.6 6.8





#23

Nitrobenzene-d5

Concen: 111.474 ng

RT: 9.009 min Scan# 1009

Delta R.T. -0.007 min

Lab File: BG064140.D

Acq: 1 Apr 2025 18:25

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-004-01

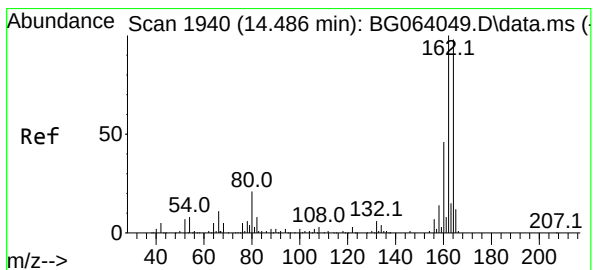
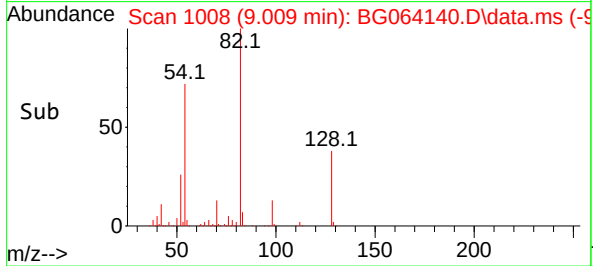
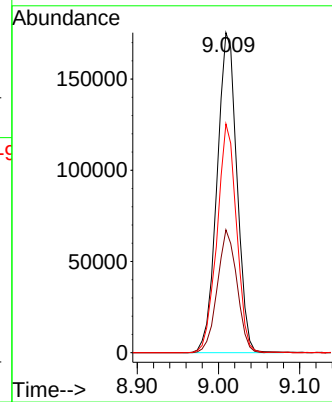
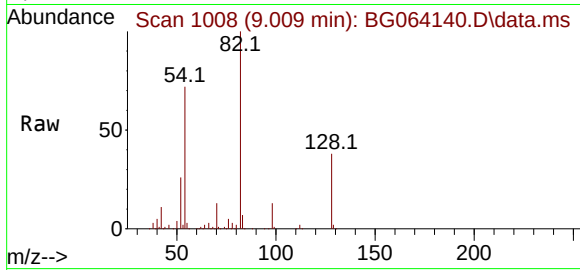
Tgt Ion: 82 Resp: 298509

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|    |     |  |  |
|----|-----|--|--|
| 82 | 100 |  |  |
|----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 128 | 38.4 | 30.0 | 45.0 |
|-----|------|------|------|

|    |      |      |      |
|----|------|------|------|
| 54 | 71.5 | 54.7 | 82.1 |
|----|------|------|------|



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.479 min Scan# 1939

Delta R.T. -0.007 min

Lab File: BG064140.D

Acq: 1 Apr 2025 18:25

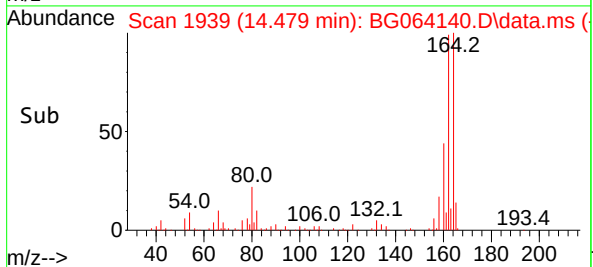
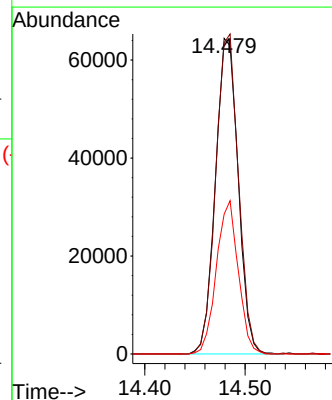
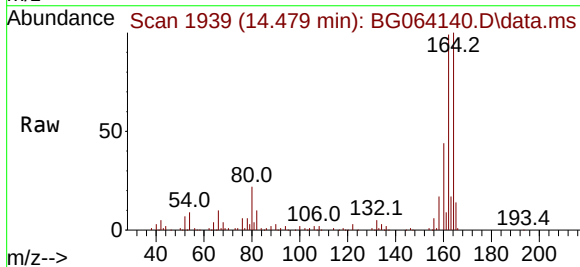
Tgt Ion:164 Resp: 101170

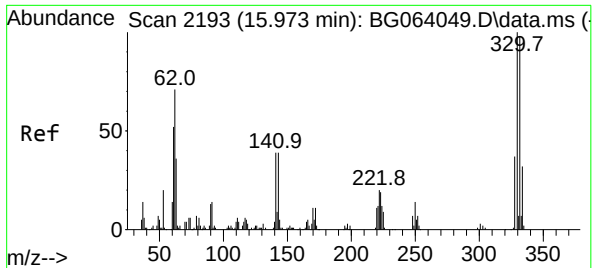
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 164 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |       |
|-----|------|------|-------|
| 162 | 98.6 | 81.4 | 122.0 |
|-----|------|------|-------|

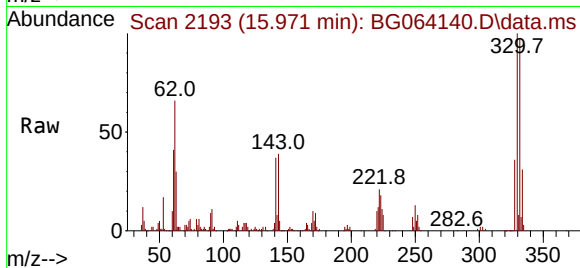
|     |      |      |      |
|-----|------|------|------|
| 160 | 44.3 | 37.0 | 55.6 |
|-----|------|------|------|



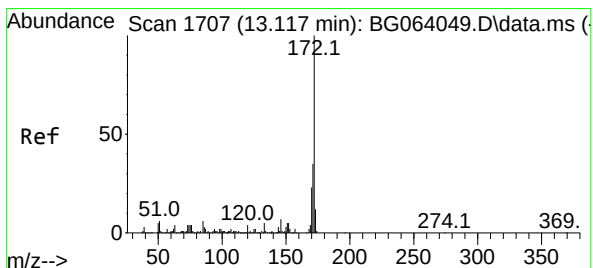
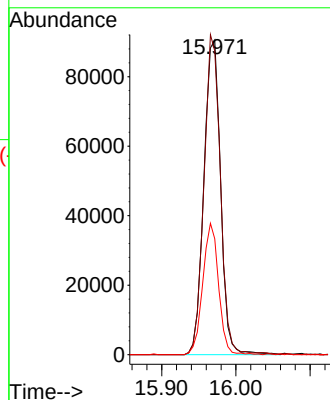
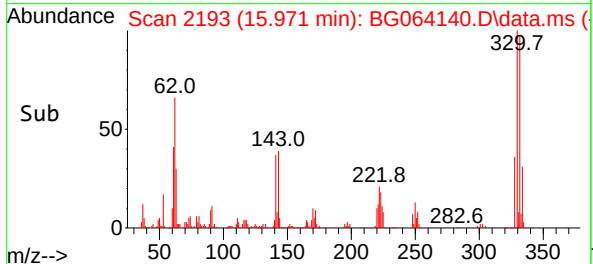


#42  
2,4,6-Tribromophenol  
Concen: 126.338 ng  
RT: 15.971 min Scan# 2193  
Delta R.T. -0.001 min  
Lab File: BG064140.D  
Acq: 1 Apr 2025 18:25

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-004-01

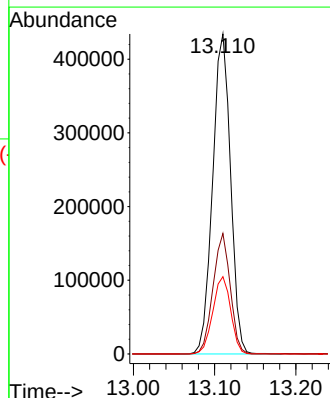
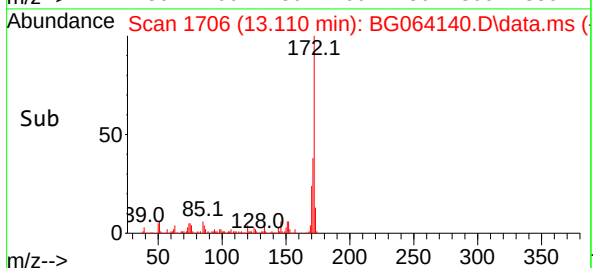
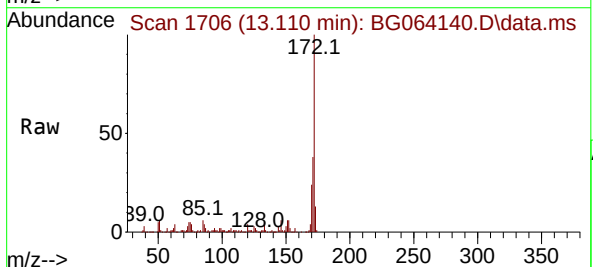


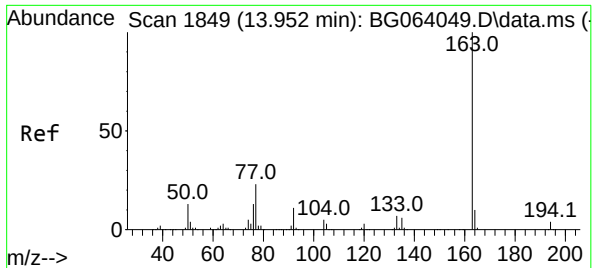
Tgt Ion:330 Resp: 142077  
Ion Ratio Lower Upper  
330 100  
332 99.4 76.7 115.1  
141 39.5 29.7 44.5



#45  
2-Fluorobiphenyl  
Concen: 99.548 ng  
RT: 13.110 min Scan# 1706  
Delta R.T. -0.007 min  
Lab File: BG064140.D  
Acq: 1 Apr 2025 18:25

Tgt Ion:172 Resp: 663507  
Ion Ratio Lower Upper  
172 100  
171 37.6 28.0 42.0  
170 24.2 18.7 28.1

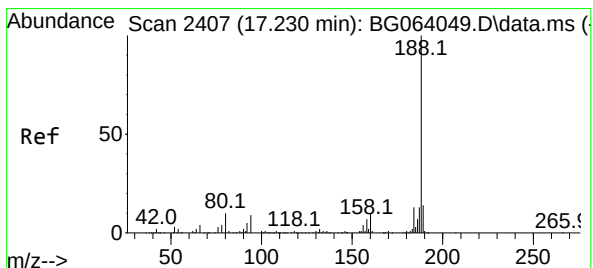
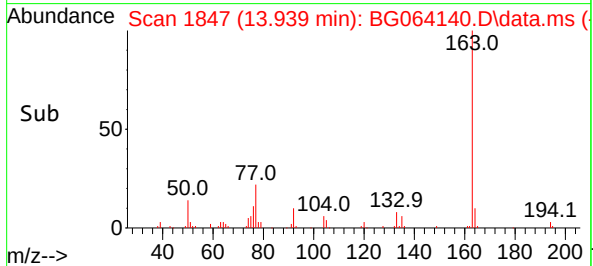
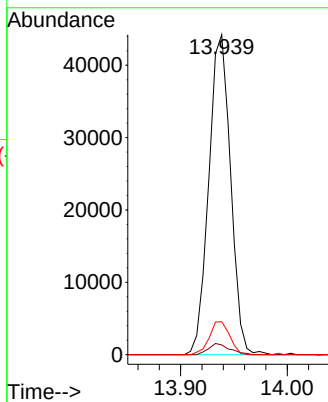
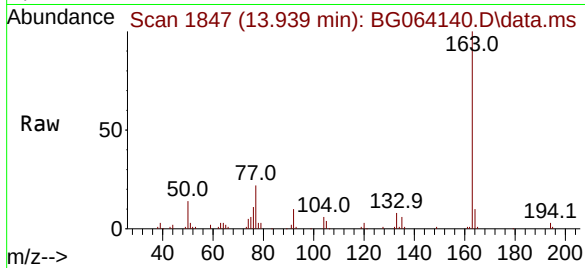




#50  
Dimethylphthalate  
Concen: 8.433 ng  
RT: 13.939 min Scan# 1847  
Delta R.T. -0.013 min  
Lab File: BG064140.D  
Acq: 1 Apr 2025 18:25

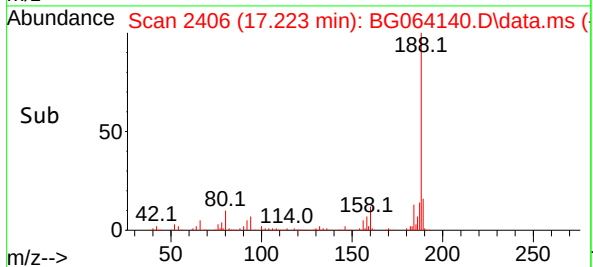
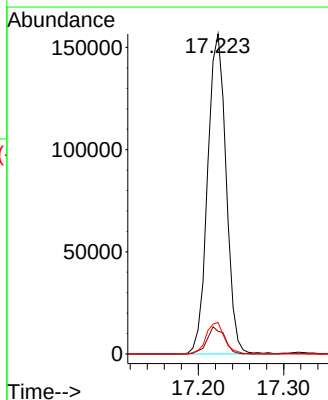
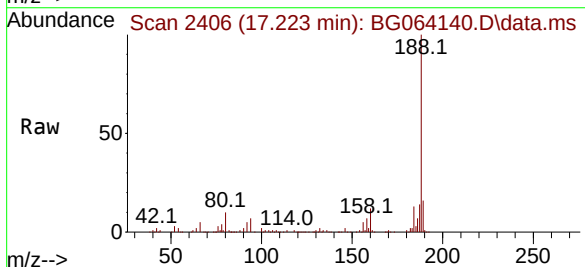
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-004-01

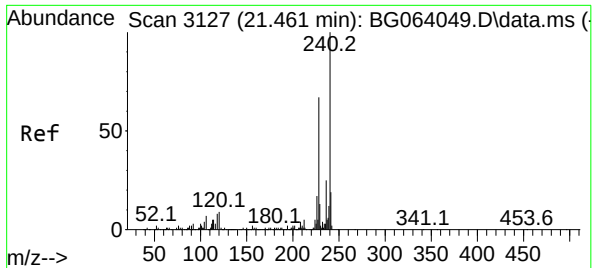
Tgt Ion:163 Resp: 62980  
Ion Ratio Lower Upper  
163 100  
194 3.1 2.8 4.2  
164 10.3 8.2 12.2



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.223 min Scan# 2406  
Delta R.T. -0.007 min  
Lab File: BG064140.D  
Acq: 1 Apr 2025 18:25

Tgt Ion:188 Resp: 235772  
Ion Ratio Lower Upper  
188 100  
94 7.1 6.9 10.3  
80 9.9 8.1 12.1

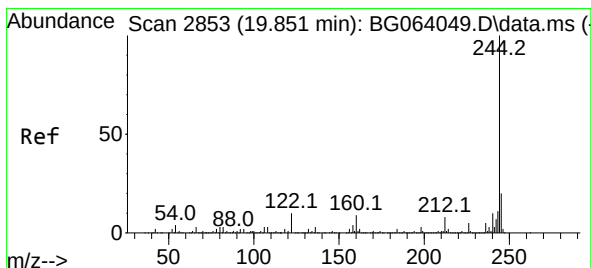
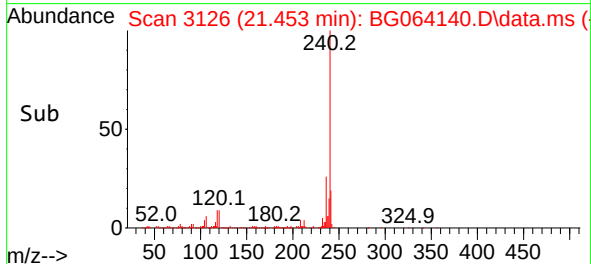
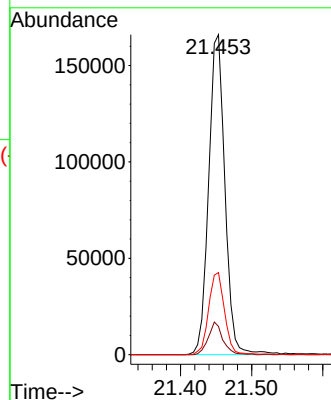
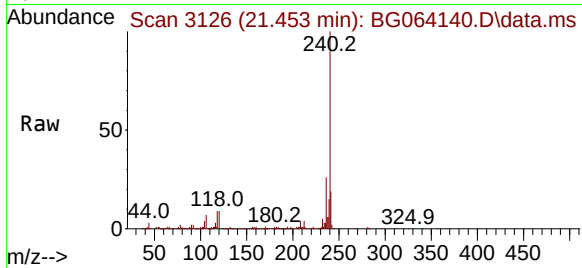




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.453 min Scan# 31  
Delta R.T. -0.007 min  
Lab File: BG064140.D  
Acq: 1 Apr 2025 18:25

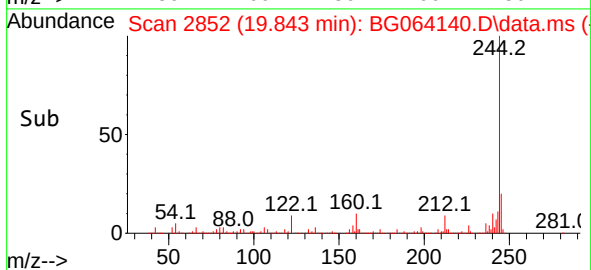
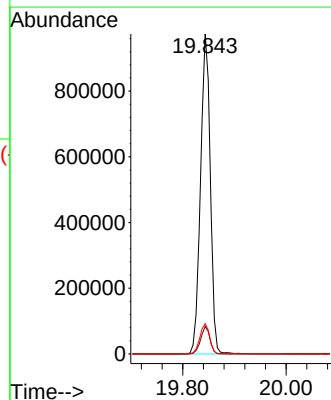
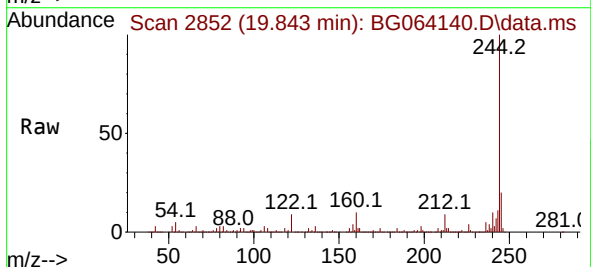
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-004-01

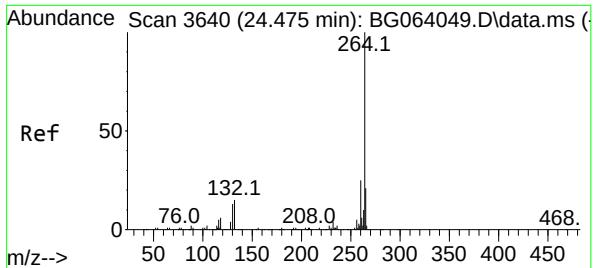
Tgt Ion:240 Resp: 265131  
Ion Ratio Lower Upper  
240 100  
120 8.9 7.2 10.8  
236 25.7 20.2 30.2



#79  
Terphenyl-d14  
Concen: 97.402 ng  
RT: 19.843 min Scan# 2852  
Delta R.T. -0.007 min  
Lab File: BG064140.D  
Acq: 1 Apr 2025 18:25

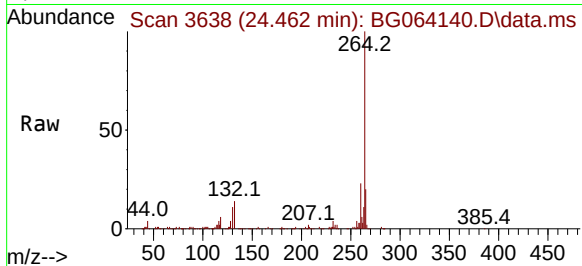
Tgt Ion:244 Resp: 1277163  
Ion Ratio Lower Upper  
244 100  
212 8.6 6.2 9.4  
122 9.5 8.0 12.0



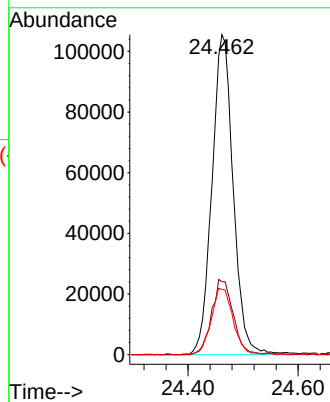
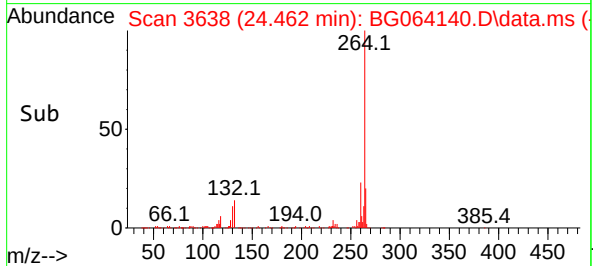


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.462 min Scan# 30  
Delta R.T. -0.013 min  
Lab File: BG064140.D  
Acq: 1 Apr 2025 18:25

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-004-01



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.8  | 19.6  | 29.4  |
| 265     | 20.4  | 16.6  | 25.0  |



## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-005-01      | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-16               | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064141.D        | 1         | 03/31/25 11:00 | 04/01/25 19:05 | PB167393      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|-----------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                             |       |           |      |            |       |
| 100-52-7       | Benzaldehyde                | 3.90  | U         | 3.90 | 10.0       | ug/L  |
| 108-95-2       | Phenol                      | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.81  | U         | 0.81 | 5.00       | ug/L  |
| 95-57-8        | 2-Chlorophenol              | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 95-48-7        | 2-Methylphenol              | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 98-86-2        | Acetophenone                | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 65794-96-9     | 3+4-Methylphenols           | 1.10  | UQ        | 1.10 | 10.0       | ug/L  |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 1.40  | U         | 1.40 | 2.50       | ug/L  |
| 67-72-1        | Hexachloroethane            | 0.65  | U         | 0.65 | 5.00       | ug/L  |
| 98-95-3        | Nitrobenzene                | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 78-59-1        | Isophorone                  | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 88-75-5        | 2-Nitrophenol               | 1.80  | UQ        | 1.80 | 5.00       | ug/L  |
| 105-67-9       | 2,4-Dimethylphenol          | 1.90  | U         | 1.90 | 5.00       | ug/L  |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 120-83-2       | 2,4-Dichlorophenol          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 91-20-3        | Naphthalene                 | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 106-47-8       | 4-Chloroaniline             | 0.84  | U         | 0.84 | 5.00       | ug/L  |
| 87-68-3        | Hexachlorobutadiene         | 0.54  | U         | 0.54 | 5.00       | ug/L  |
| 105-60-2       | Caprolactam                 | 1.10  | U         | 1.10 | 10.0       | ug/L  |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 91-57-6        | 2-Methylnaphthalene         | 0.56  | U         | 0.56 | 5.00       | ug/L  |
| 77-47-4        | Hexachlorocyclopentadiene   | 3.60  | UQ        | 3.60 | 10.0       | ug/L  |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.51  | U         | 0.51 | 5.00       | ug/L  |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.62  | UQ        | 0.62 | 5.00       | ug/L  |
| 92-52-4        | 1,1-Biphenyl                | 0.53  | U         | 0.53 | 5.00       | ug/L  |
| 91-58-7        | 2-Chloronaphthalene         | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 88-74-4        | 2-Nitroaniline              | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 131-11-3       | Dimethylphthalate           | 11.5  |           | 0.61 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-005-01      | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-16               | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064141.D        | 1         | 03/31/25 11:00 | 04/01/25 19:05 | PB167393      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|------------|----------------------------|-------|-----------|------|------------|-------|
| 208-96-8   | Acenaphthylene             | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 99-09-2    | 3-Nitroaniline             | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 83-32-9    | Acenaphthene               | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 51-28-5    | 2,4-Dinitrophenol          | 6.00  | U         | 6.00 | 10.0       | ug/L  |
| 100-02-7   | 4-Nitrophenol              | 2.40  | U         | 2.40 | 10.0       | ug/L  |
| 132-64-9   | Dibenzofuran               | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 121-14-2   | 2,4-Dinitrotoluene         | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 84-66-2    | Diethylphthalate           | 0.69  | U         | 0.69 | 5.00       | ug/L  |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 86-73-7    | Fluorene                   | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 100-01-6   | 4-Nitroaniline             | 1.50  | U         | 1.50 | 5.00       | ug/L  |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 2.90  | UQ        | 2.90 | 10.0       | ug/L  |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.40  | U         | 0.40 | 5.00       | ug/L  |
| 118-74-1   | Hexachlorobenzene          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 1912-24-9  | Atrazine                   | 1.00  | UQ        | 1.00 | 5.00       | ug/L  |
| 87-86-5    | Pentachlorophenol          | 1.60  | U         | 1.60 | 10.0       | ug/L  |
| 85-01-8    | Phenanthrene               | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 120-12-7   | Anthracene                 | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 86-74-8    | Carbazole                  | 0.72  | U         | 0.72 | 5.00       | ug/L  |
| 84-74-2    | Di-n-butylphthalate        | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 206-44-0   | Fluoranthene               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 129-00-0   | Pyrene                     | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 85-68-7    | Butylbenzylphthalate       | 1.90  | UQ        | 1.90 | 5.00       | ug/L  |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.93  | U         | 0.93 | 10.0       | ug/L  |
| 56-55-3    | Benzo(a)anthracene         | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 218-01-9   | Chrysene                   | 0.44  | U         | 0.44 | 5.00       | ug/L  |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 1.60  | U         | 1.60 | 5.00       | ug/L  |
| 117-84-0   | Di-n-octyl phthalate       | 2.30  | U         | 2.30 | 10.0       | ug/L  |
| 205-99-2   | Benzo(b)fluoranthene       | 0.49  | U         | 0.49 | 5.00       | ug/L  |



## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-005-01      | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-16               | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064141.D        | 1         | 03/31/25 11:00 | 04/01/25 19:05 | PB167393      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|----------------------------|--------|-----------|----------|------------|----------|
| 207-08-9                  | Benzo(k)fluoranthene       | 0.48   | U         | 0.48     | 5.00       | ug/L     |
| 50-32-8                   | Benzo(a)pyrene             | 0.55   | U         | 0.55     | 5.00       | ug/L     |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 0.59   | U         | 0.59     | 5.00       | ug/L     |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 0.67   | U         | 0.67     | 5.00       | ug/L     |
| 191-24-2                  | Benzo(g,h,i)perylene       | 0.69   | U         | 0.69     | 5.00       | ug/L     |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 0.52   | U         | 0.52     | 5.00       | ug/L     |
| 123-91-1                  | 1,4-Dioxane                | 1.00   | U         | 1.00     | 5.00       | ug/L     |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 0.72   | U         | 0.72     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                            |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol             | 64.7   |           | 10 - 139 | 43%        | SPK: 150 |
| 13127-88-3                | Phenol-d6                  | 36.2   |           | 10 - 134 | 24%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5            | 121    |           | 49 - 133 | 121%       | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl           | 112    |           | 52 - 132 | 112%       | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol       | 207    | *         | 44 - 137 | 138%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14              | 106    |           | 48 - 125 | 106%       | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 32900  |           | 7.862    |            |          |
| 1146-65-2                 | Naphthalene-d8             | 140000 |           | 10.647   |            |          |
| 15067-26-2                | Acenaphthene-d10           | 95100  |           | 14.484   |            |          |
| 1517-22-2                 | Phenanthrene-d10           | 227000 |           | 17.222   |            |          |
| 1719-03-5                 | Chrysene-d12               | 259000 |           | 21.452   |            |          |
| 1520-96-3                 | Perylene-d12               | 276000 |           | 24.466   |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064141.D  
Acq On : 1 Apr 2025 19:05  
Operator : RC/JU  
Sample : Q1664-16  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-005-01

Quant Time: Apr 02 01:35:54 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

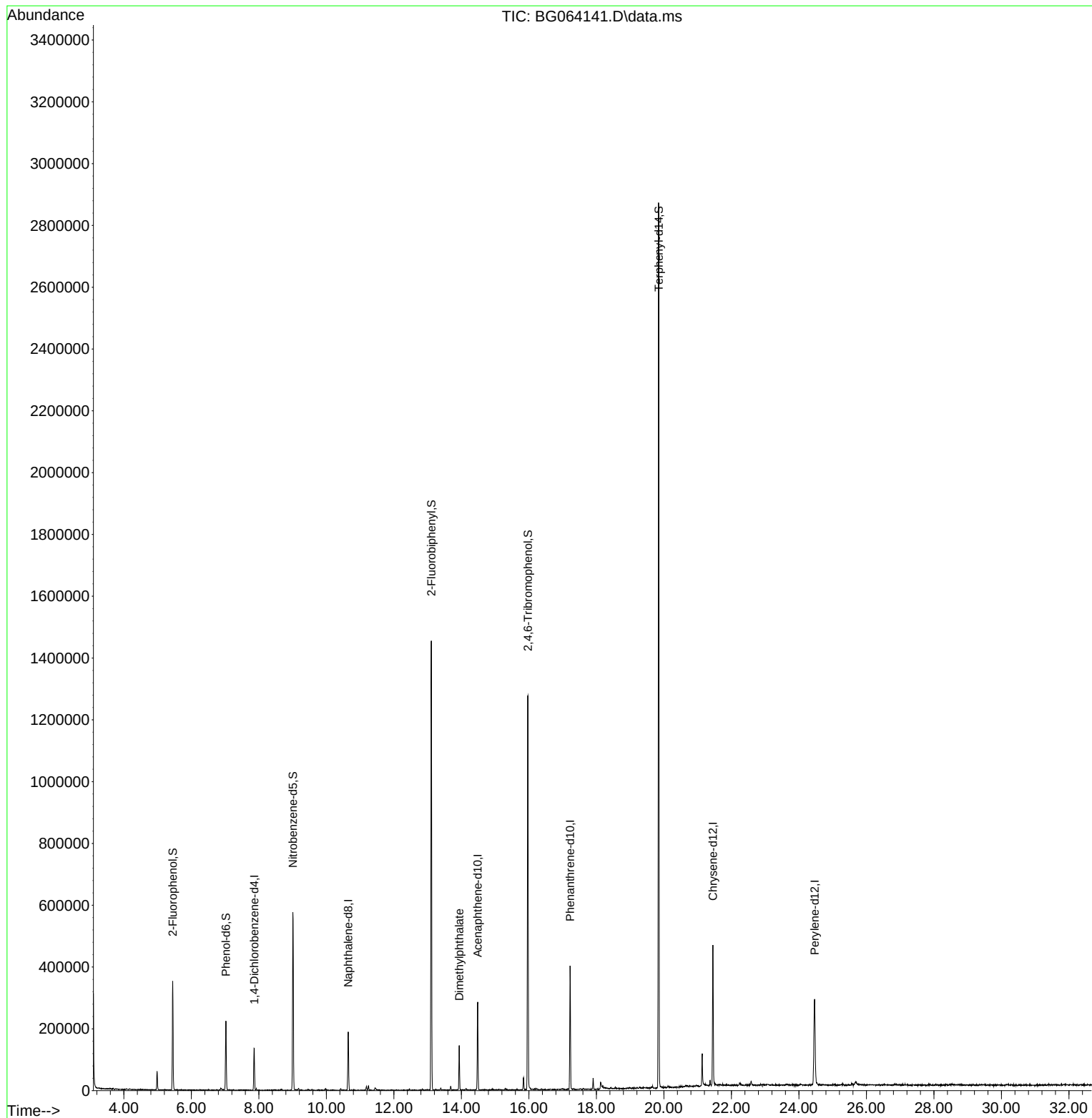
| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.862  | 152  | 32945    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.647 | 136  | 139968   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.484 | 164  | 95119    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.222 | 188  | 227404   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.452 | 240  | 259176   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 24.466 | 264  | 276065   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.448  | 112  | 136429   | 64.661  | ng    | 0.00     |
| 7) Phenol-d6                | 7.022  | 99   | 103872   | 36.189  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.008  | 82   | 306214   | 120.899 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.971 | 330  | 218554   | 206.707 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.109 | 172  | 700349   | 111.760 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.848 | 244  | 1353612  | 105.604 | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 50) Dimethylphthalate       | 13.938 | 163  | 80935    | 11.527  | ng    | 97       |
| -----                       |        |      |          |         |       |          |

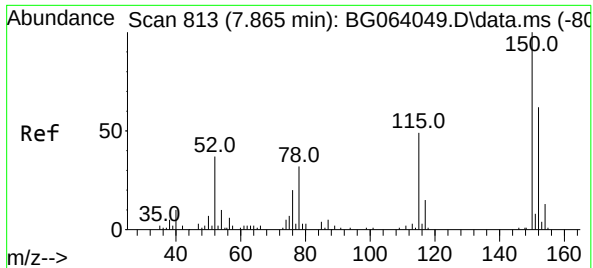
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BG064141.D  
Acq On : 1 Apr 2025 19:05  
Operator : RC/JU  
Sample : Q1664-16  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-005-01

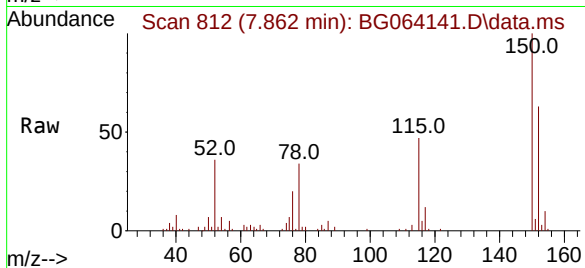
Quant Time: Apr 02 01:35:54 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration



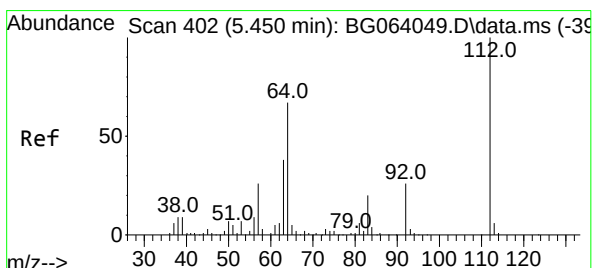
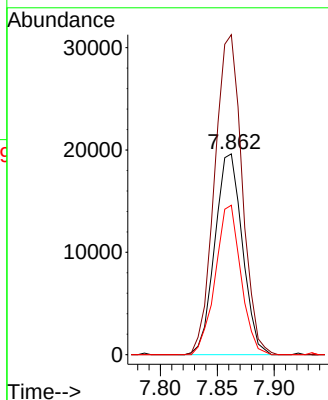
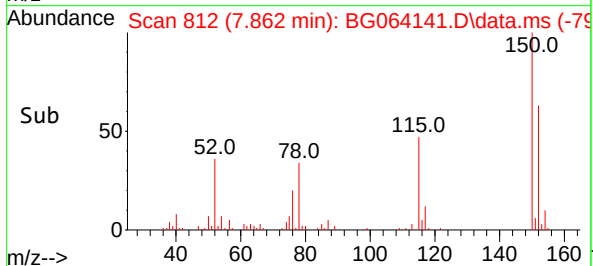


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.862 min Scan# 813  
Delta R.T. -0.003 min  
Lab File: BG064141.D  
Acq: 1 Apr 2025 19:05

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-005-01

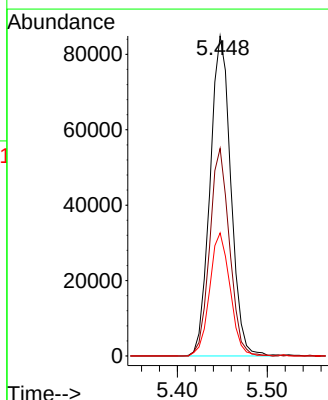
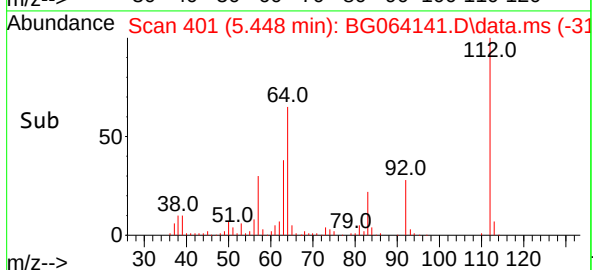
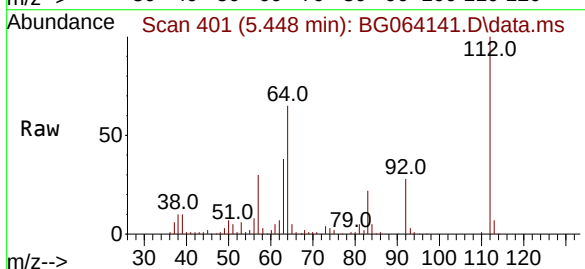


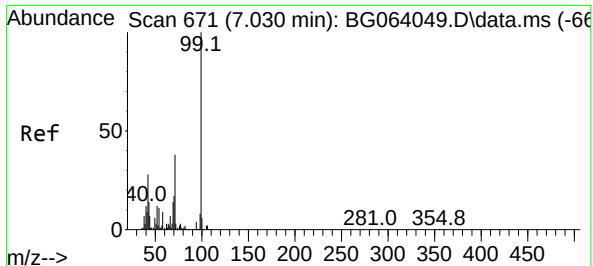
Tgt Ion:152 Resp: 32945  
Ion Ratio Lower Upper  
152 100  
150 159.4 129.2 193.8  
115 74.4 63.0 94.6



#5  
2-Fluorophenol  
Concen: 64.661 ng  
RT: 5.448 min Scan# 401  
Delta R.T. -0.002 min  
Lab File: BG064141.D  
Acq: 1 Apr 2025 19:05

Tgt Ion:112 Resp: 136429  
Ion Ratio Lower Upper  
112 100  
64 64.9 53.7 80.5  
63 38.4 30.2 45.4

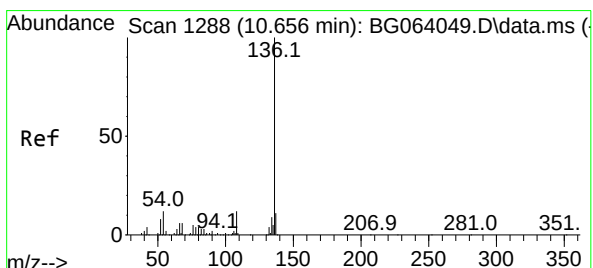
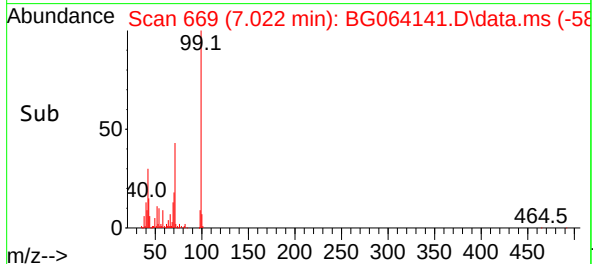
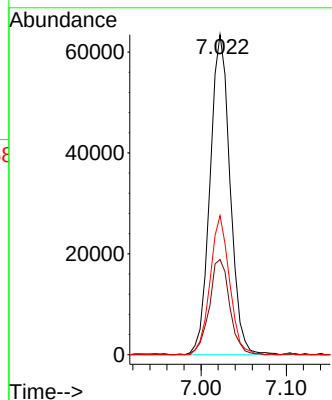
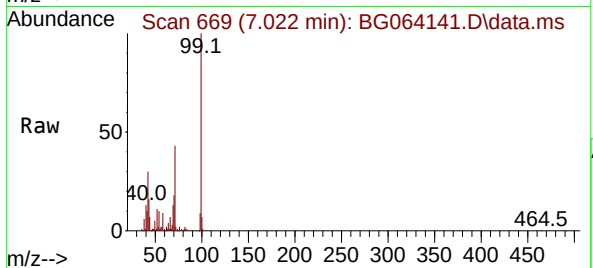




#7  
Phenol-d6  
Concen: 36.189 ng  
RT: 7.022 min Scan# 60  
Delta R.T. -0.008 min  
Lab File: BG064141.D  
Acq: 1 Apr 2025 19:05

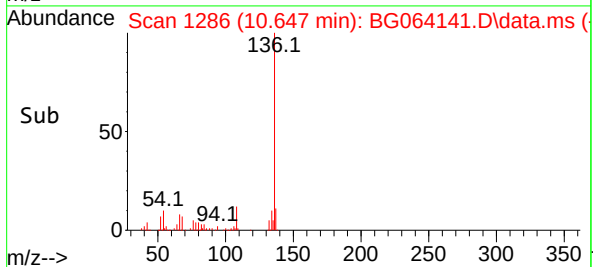
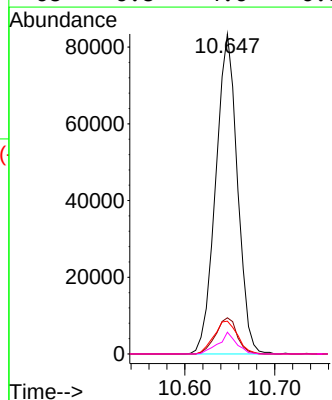
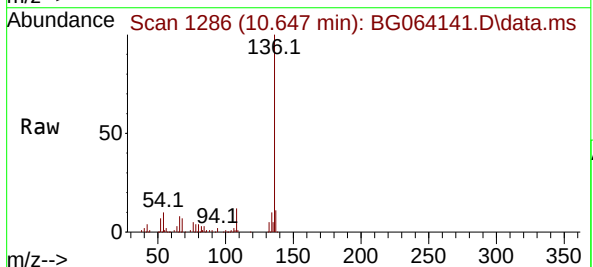
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-005-01

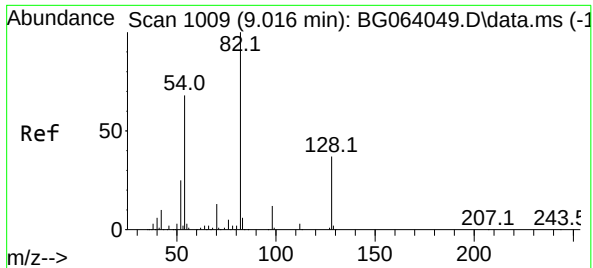
Tgt Ion: 99 Resp: 103872  
Ion Ratio Lower Upper  
99 100  
42 29.8 22.7 34.1  
71 43.4 30.6 46.0



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.647 min Scan# 1286  
Delta R.T. -0.009 min  
Lab File: BG064141.D  
Acq: 1 Apr 2025 19:05

Tgt Ion: 136 Resp: 139968  
Ion Ratio Lower Upper  
136 100  
137 11.3 8.5 12.7  
54 10.3 9.9 14.9  
68 6.8 4.6 6.8





#23

Nitrobenzene-d5

Concen: 120.899 ng

RT: 9.008 min Scan# 1007

Delta R.T. -0.008 min

Lab File: BG064141.D

Acq: 1 Apr 2025 19:05

Instrument :

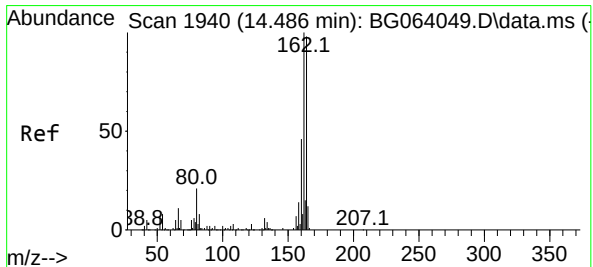
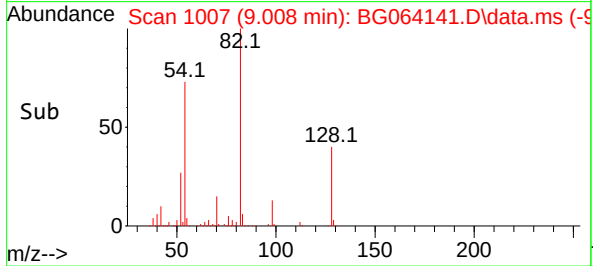
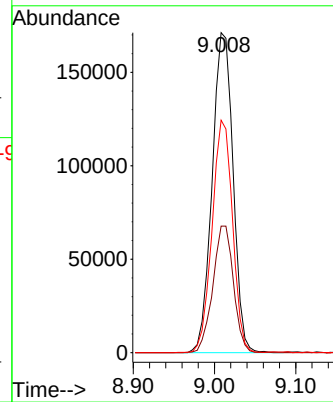
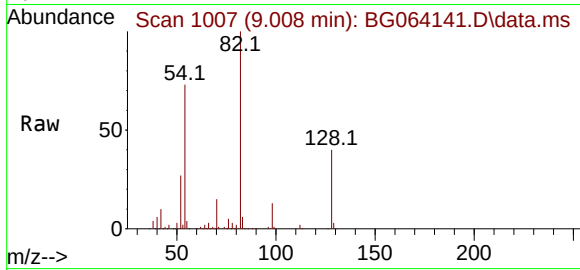
BNA\_G

ClientSampleId :

P001-BBDGA-005-01

Tgt Ion: 82 Resp: 306214

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 39.5  | 30.0  | 45.0  |
| 54  | 72.6  | 54.7  | 82.1  |



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.484 min Scan# 1939

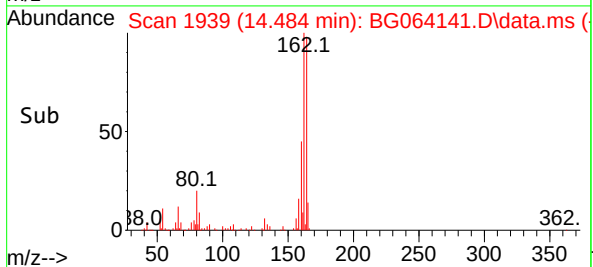
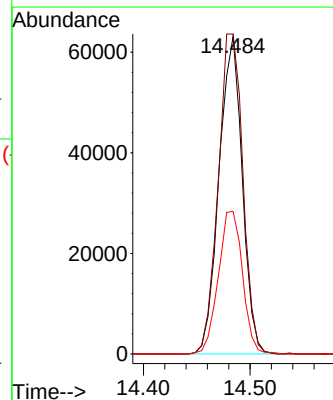
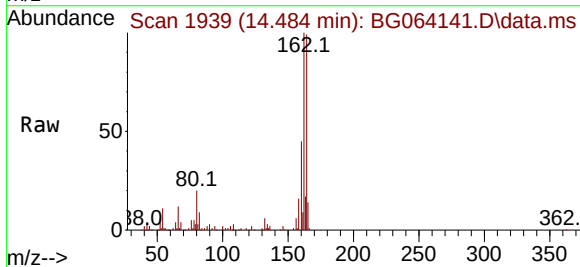
Delta R.T. -0.002 min

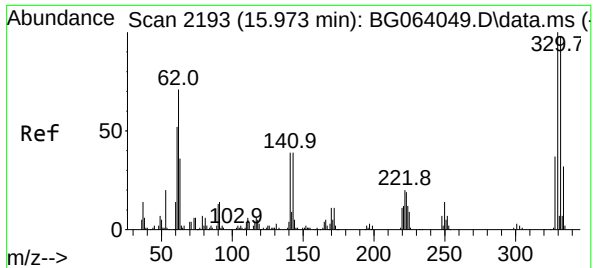
Lab File: BG064141.D

Acq: 1 Apr 2025 19:05

Tgt Ion:164 Resp: 95119

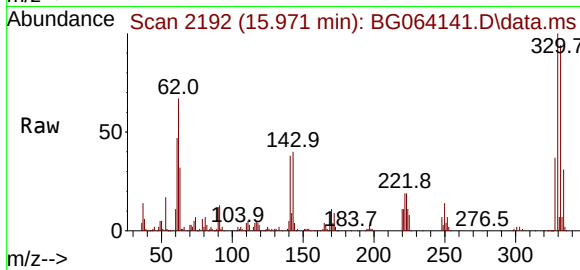
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 100.7 | 81.4  | 122.0 |
| 160 | 44.9  | 37.0  | 55.6  |



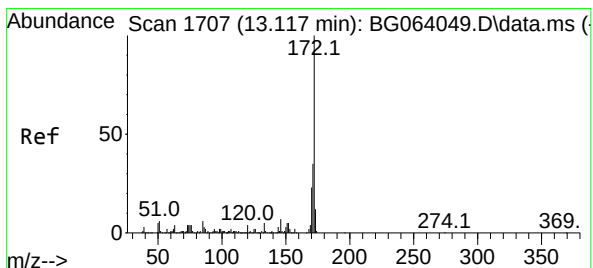
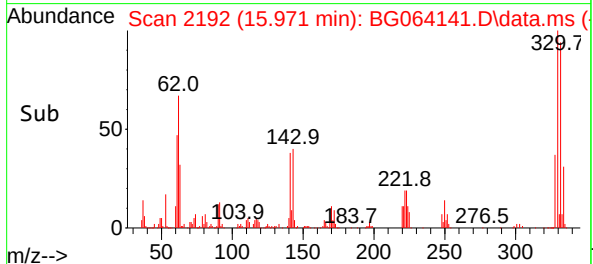
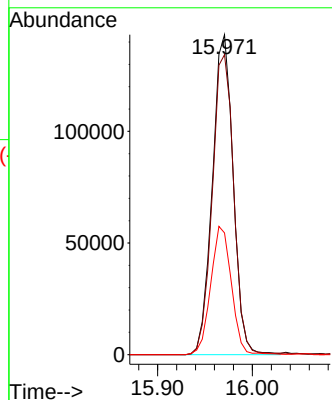


#42  
2,4,6-Tribromophenol  
Concen: 206.707 ng  
RT: 15.971 min Scan# 2192  
Delta R.T. -0.002 min  
Lab File: BG064141.D  
Acq: 1 Apr 2025 19:05

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-005-01

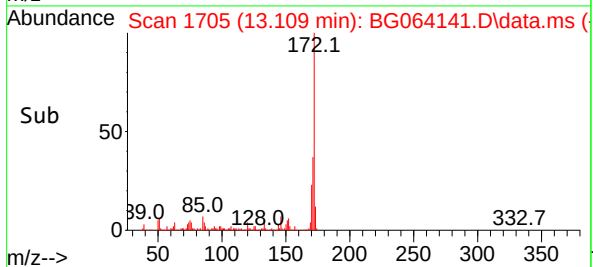
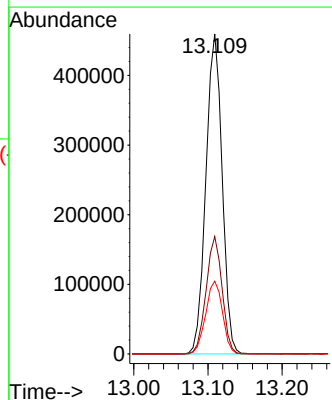
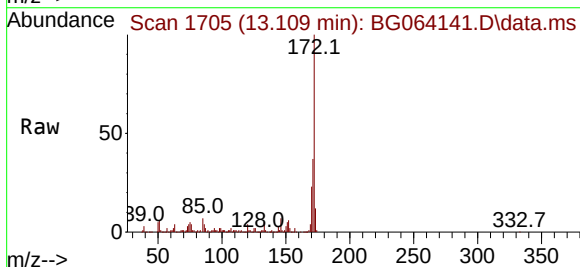


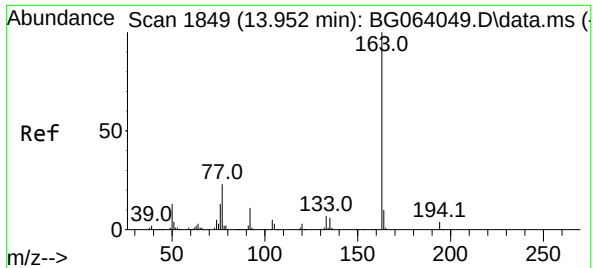
Tgt Ion:330 Resp: 218554  
Ion Ratio Lower Upper  
330 100  
332 97.0 76.7 115.1  
141 39.9 29.7 44.5



#45  
2-Fluorobiphenyl  
Concen: 111.760 ng  
RT: 13.109 min Scan# 1705  
Delta R.T. -0.008 min  
Lab File: BG064141.D  
Acq: 1 Apr 2025 19:05

Tgt Ion:172 Resp: 700349  
Ion Ratio Lower Upper  
172 100  
171 36.7 28.0 42.0  
170 22.8 18.7 28.1

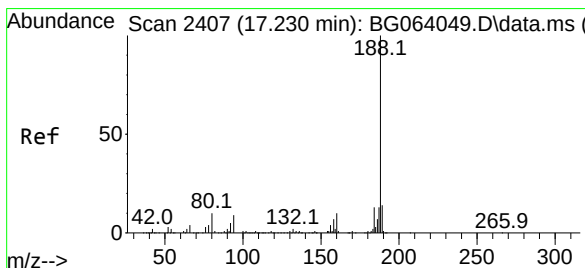
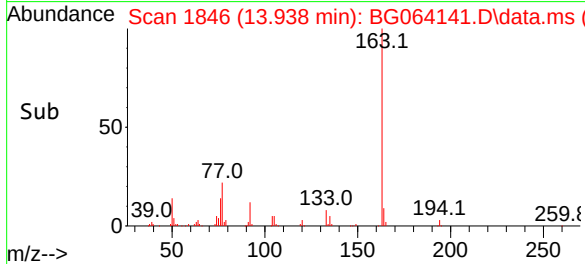
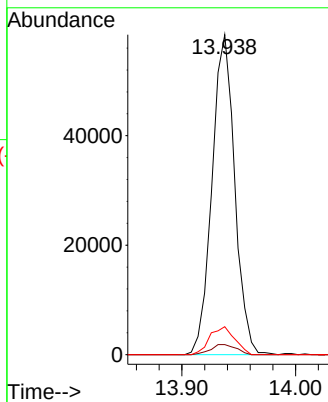
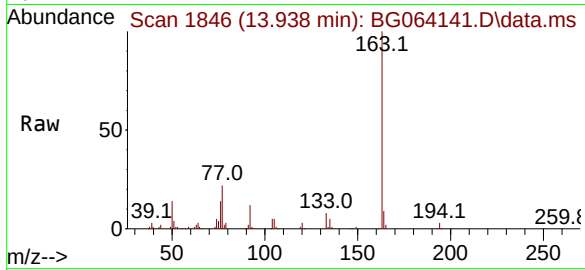




#50  
Dimethylphthalate  
Concen: 11.527 ng  
RT: 13.938 min Scan# 1846  
Delta R.T. -0.014 min  
Lab File: BG064141.D  
Acq: 1 Apr 2025 19:05

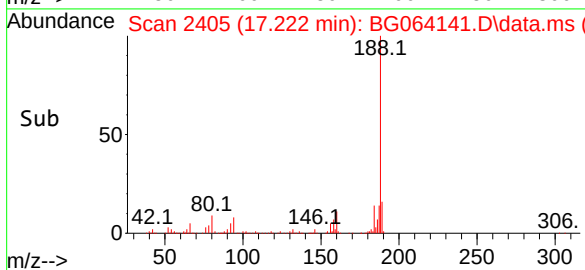
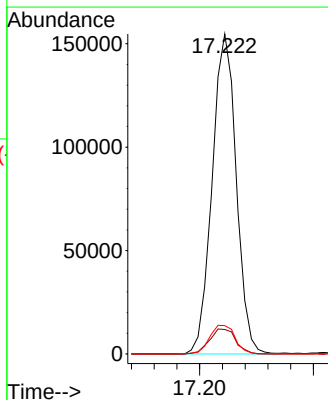
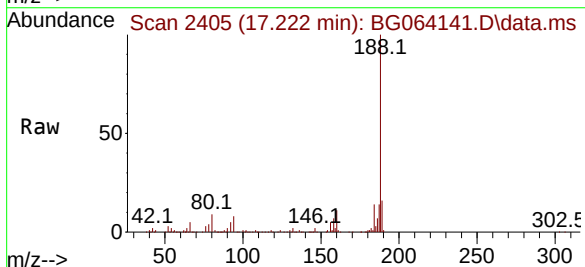
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-005-01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.2   | 2.8   | 4.2   |
| 164     | 8.8   | 8.2   | 12.2  |

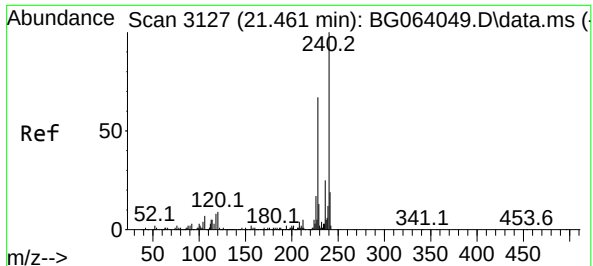


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.222 min Scan# 2405  
Delta R.T. -0.008 min  
Lab File: BG064141.D  
Acq: 1 Apr 2025 19:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.6   | 6.9   | 10.3  |
| 80      | 8.9   | 8.1   | 12.1  |



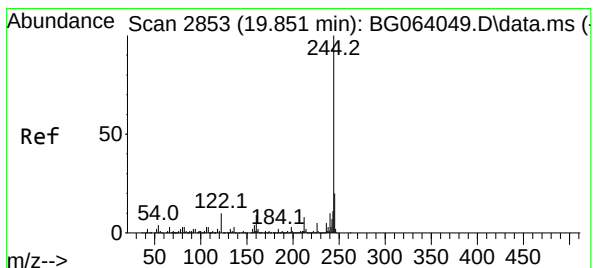
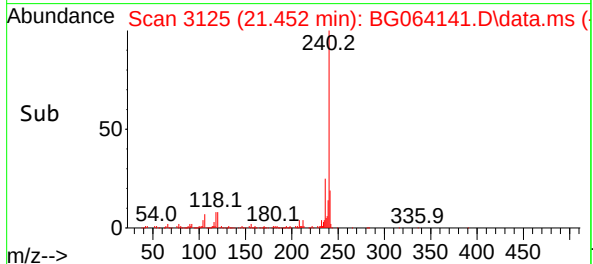
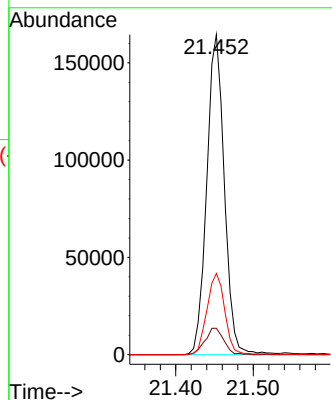
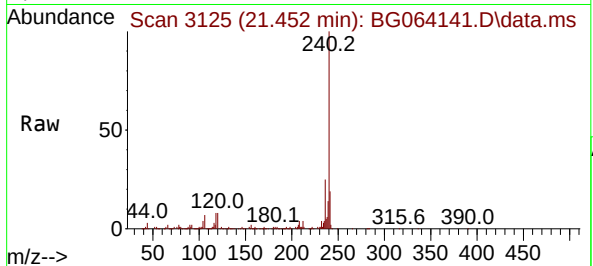




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.452 min Scan# 31  
Delta R.T. -0.008 min  
Lab File: BG064141.D  
Acq: 1 Apr 2025 19:05

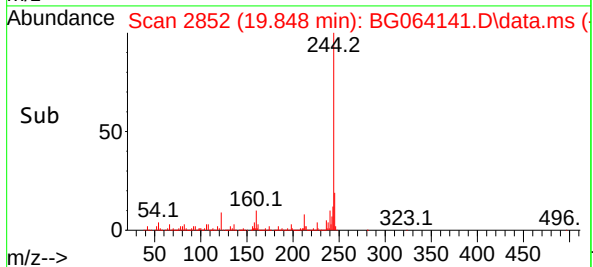
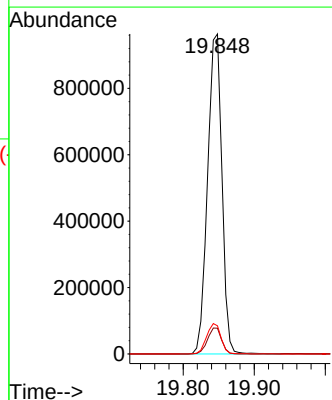
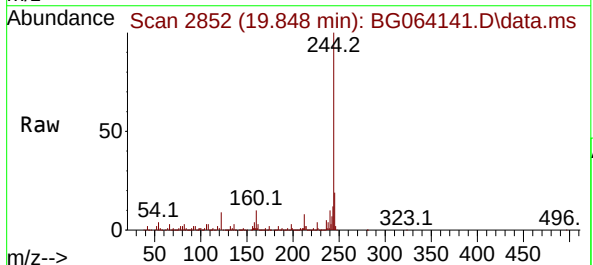
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-005-01

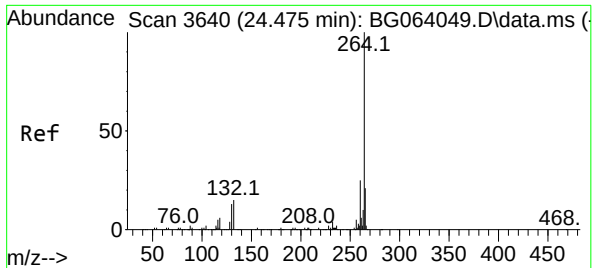
Tgt Ion:240 Resp: 259176  
Ion Ratio Lower Upper  
240 100  
120 8.3 7.2 10.8  
236 25.4 20.2 30.2



#79  
Terphenyl-d14  
Concen: 105.604 ng  
RT: 19.848 min Scan# 2852  
Delta R.T. -0.002 min  
Lab File: BG064141.D  
Acq: 1 Apr 2025 19:05

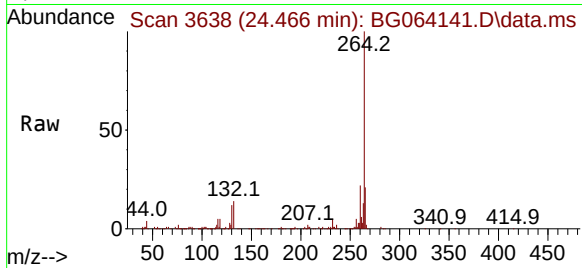
Tgt Ion:244 Resp: 1353612  
Ion Ratio Lower Upper  
244 100  
212 8.0 6.2 9.4  
122 8.8 8.0 12.0



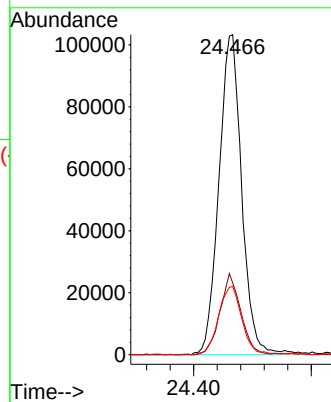
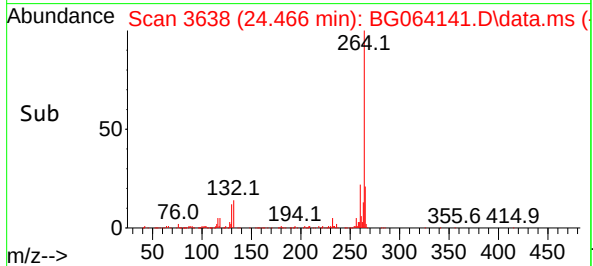


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.466 min Scan# 30  
Delta R.T. -0.008 min  
Lab File: BG064141.D  
Acq: 1 Apr 2025 19:05

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-005-01



Tgt Ion:264 Resp: 276065  
Ion Ratio Lower Upper  
264 100  
260 22.4 19.6 29.4  
265 21.3 16.6 25.0



## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-006-01      | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-18               | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064142.D        | 1         | 03/31/25 11:00 | 04/01/25 19:45 | PB167393      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|-----------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                             |       |           |      |            |       |
| 100-52-7       | Benzaldehyde                | 3.90  | U         | 3.90 | 10.0       | ug/L  |
| 108-95-2       | Phenol                      | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.81  | U         | 0.81 | 5.00       | ug/L  |
| 95-57-8        | 2-Chlorophenol              | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 95-48-7        | 2-Methylphenol              | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 98-86-2        | Acetophenone                | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 65794-96-9     | 3+4-Methylphenols           | 1.10  | UQ        | 1.10 | 10.0       | ug/L  |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 1.40  | U         | 1.40 | 2.50       | ug/L  |
| 67-72-1        | Hexachloroethane            | 0.65  | U         | 0.65 | 5.00       | ug/L  |
| 98-95-3        | Nitrobenzene                | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 78-59-1        | Isophorone                  | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 88-75-5        | 2-Nitrophenol               | 1.80  | UQ        | 1.80 | 5.00       | ug/L  |
| 105-67-9       | 2,4-Dimethylphenol          | 1.90  | U         | 1.90 | 5.00       | ug/L  |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 120-83-2       | 2,4-Dichlorophenol          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 91-20-3        | Naphthalene                 | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 106-47-8       | 4-Chloroaniline             | 0.84  | U         | 0.84 | 5.00       | ug/L  |
| 87-68-3        | Hexachlorobutadiene         | 0.54  | U         | 0.54 | 5.00       | ug/L  |
| 105-60-2       | Caprolactam                 | 1.10  | U         | 1.10 | 10.0       | ug/L  |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 91-57-6        | 2-Methylnaphthalene         | 0.56  | U         | 0.56 | 5.00       | ug/L  |
| 77-47-4        | Hexachlorocyclopentadiene   | 3.60  | UQ        | 3.60 | 10.0       | ug/L  |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.51  | U         | 0.51 | 5.00       | ug/L  |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.62  | UQ        | 0.62 | 5.00       | ug/L  |
| 92-52-4        | 1,1-Biphenyl                | 0.53  | U         | 0.53 | 5.00       | ug/L  |
| 91-58-7        | 2-Chloronaphthalene         | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 88-74-4        | 2-Nitroaniline              | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 131-11-3       | Dimethylphthalate           | 0.61  | U         | 0.61 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-006-01      | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-18               | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064142.D        | 1         | 03/31/25 11:00 | 04/01/25 19:45 | PB167393      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|------------|----------------------------|-------|-----------|------|------------|-------|
| 208-96-8   | Acenaphthylene             | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 99-09-2    | 3-Nitroaniline             | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 83-32-9    | Acenaphthene               | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 51-28-5    | 2,4-Dinitrophenol          | 6.00  | U         | 6.00 | 10.0       | ug/L  |
| 100-02-7   | 4-Nitrophenol              | 2.40  | U         | 2.40 | 10.0       | ug/L  |
| 132-64-9   | Dibenzofuran               | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 121-14-2   | 2,4-Dinitrotoluene         | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 84-66-2    | Diethylphthalate           | 0.69  | U         | 0.69 | 5.00       | ug/L  |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 86-73-7    | Fluorene                   | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 100-01-6   | 4-Nitroaniline             | 1.50  | U         | 1.50 | 5.00       | ug/L  |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 2.90  | UQ        | 2.90 | 10.0       | ug/L  |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.40  | U         | 0.40 | 5.00       | ug/L  |
| 118-74-1   | Hexachlorobenzene          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 1912-24-9  | Atrazine                   | 1.00  | UQ        | 1.00 | 5.00       | ug/L  |
| 87-86-5    | Pentachlorophenol          | 1.60  | U         | 1.60 | 10.0       | ug/L  |
| 85-01-8    | Phenanthrene               | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 120-12-7   | Anthracene                 | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 86-74-8    | Carbazole                  | 0.72  | U         | 0.72 | 5.00       | ug/L  |
| 84-74-2    | Di-n-butylphthalate        | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 206-44-0   | Fluoranthene               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 129-00-0   | Pyrene                     | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 85-68-7    | Butylbenzylphthalate       | 1.90  | UQ        | 1.90 | 5.00       | ug/L  |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.93  | U         | 0.93 | 10.0       | ug/L  |
| 56-55-3    | Benzo(a)anthracene         | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 218-01-9   | Chrysene                   | 0.44  | U         | 0.44 | 5.00       | ug/L  |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 1.60  | U         | 1.60 | 5.00       | ug/L  |
| 117-84-0   | Di-n-octyl phthalate       | 2.30  | U         | 2.30 | 10.0       | ug/L  |
| 205-99-2   | Benzo(b)fluoranthene       | 0.49  | U         | 0.49 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-006-01      | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-18               | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064142.D        | 1         | 03/31/25 11:00 | 04/01/25 19:45 | PB167393      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|----------------------------|--------|-----------|----------|------------|----------|
| 207-08-9                  | Benzo(k)fluoranthene       | 0.48   | U         | 0.48     | 5.00       | ug/L     |
| 50-32-8                   | Benzo(a)pyrene             | 0.55   | U         | 0.55     | 5.00       | ug/L     |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 0.59   | U         | 0.59     | 5.00       | ug/L     |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 0.67   | U         | 0.67     | 5.00       | ug/L     |
| 191-24-2                  | Benzo(g,h,i)perylene       | 0.69   | U         | 0.69     | 5.00       | ug/L     |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 0.52   | U         | 0.52     | 5.00       | ug/L     |
| 123-91-1                  | 1,4-Dioxane                | 1.00   | U         | 1.00     | 5.00       | ug/L     |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 0.72   | U         | 0.72     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                            |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol             | 63.7   |           | 10 - 139 | 42%        | SPK: 150 |
| 13127-88-3                | Phenol-d6                  | 38.2   |           | 10 - 134 | 25%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5            | 119    |           | 49 - 133 | 119%       | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl           | 109    |           | 52 - 132 | 109%       | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol       | 206    |           | 44 - 137 | 137%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14              | 105    |           | 48 - 125 | 105%       | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 34900  | 7.859     |          |            |          |
| 1146-65-2                 | Naphthalene-d8             | 141000 | 10.644    |          |            |          |
| 15067-26-2                | Acenaphthene-d10           | 96400  | 14.481    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10           | 231000 | 17.224    |          |            |          |
| 1719-03-5                 | Chrysene-d12               | 262000 | 21.449    |          |            |          |
| 1520-96-3                 | Perylene-d12               | 281000 | 24.457    |          |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064142.D  
Acq On : 1 Apr 2025 19:45  
Operator : RC/JU  
Sample : Q1664-18  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-006-01

Quant Time: Apr 02 01:36:11 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.859  | 152  | 34864    | 20.000  | ng    | # 0.00   |
| 21) Naphthalene-d8          | 10.644 | 136  | 141203   | 20.000  | ng    | -0.01    |
| 39) Acenaphthene-d10        | 14.481 | 164  | 96364    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.224 | 188  | 230878   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.449 | 240  | 262499   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12            | 24.457 | 264  | 281469   | 20.000  | ng    | -0.02    |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.444  | 112  | 142284   | 63.724  | ng    | 0.00     |
| 7) Phenol-d6                | 7.019  | 99   | 116098   | 38.222  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 9.011  | 82   | 304923   | 119.336 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.967 | 330  | 220341   | 205.704 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.106 | 172  | 689364   | 108.585 | ng    | -0.01    |
| 79) Terphenyl-d14           | 19.845 | 244  | 1366621  | 105.269 | ng    | 0.00     |

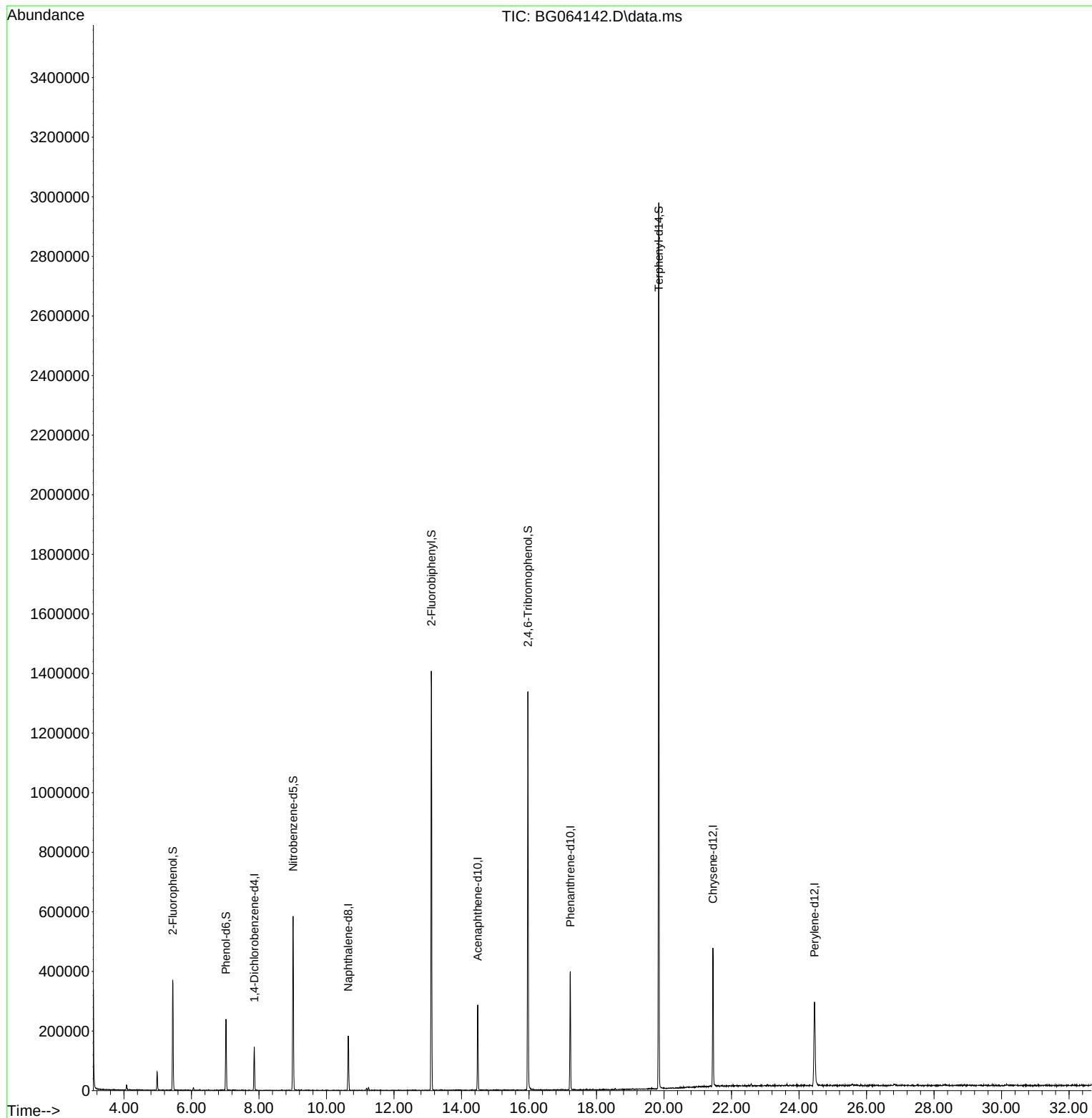
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

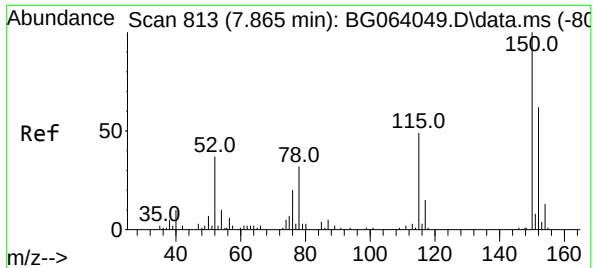
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BG064142.D  
Acq On : 1 Apr 2025 19:45  
Operator : RC/JU  
Sample : Q1664-18  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-006-01

Quant Time: Apr 02 01:36:11 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

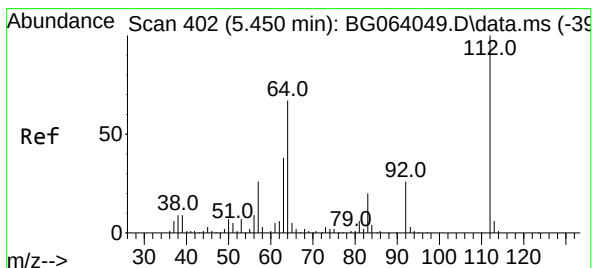
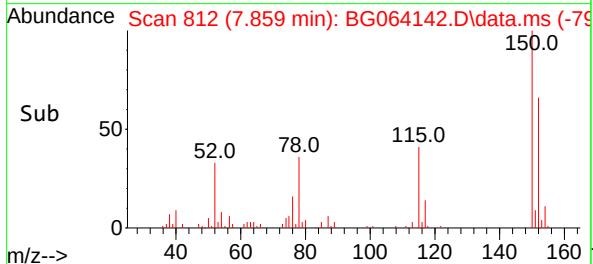
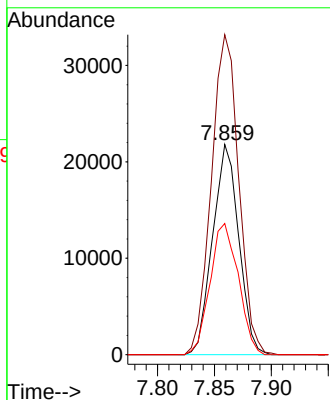
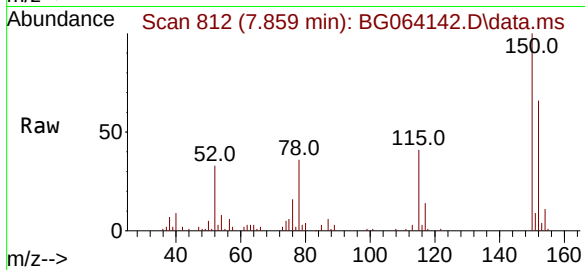




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.859 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BG064142.D  
Acq: 1 Apr 2025 19:45

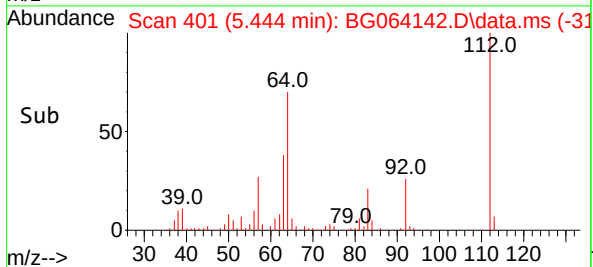
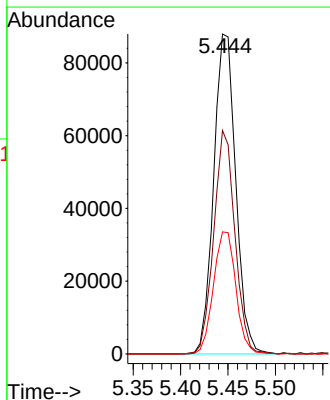
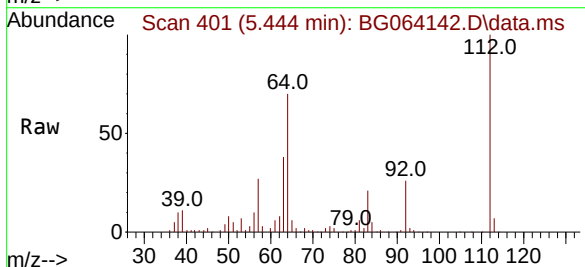
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-006-01

Tgt Ion:152 Resp: 34864  
Ion Ratio Lower Upper  
152 100  
150 152.3 129.2 193.8  
115 62.4 63.0 94.6#

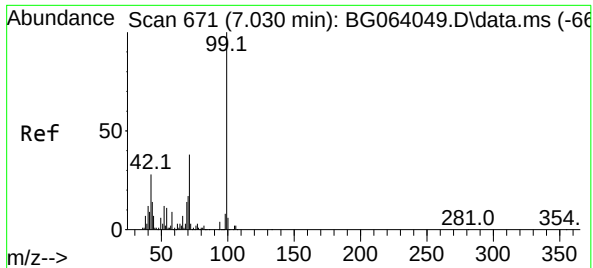


#5  
2-Fluorophenol  
Concen: 63.724 ng  
RT: 5.444 min Scan# 401  
Delta R.T. -0.006 min  
Lab File: BG064142.D  
Acq: 1 Apr 2025 19:45

Tgt Ion:112 Resp: 142284  
Ion Ratio Lower Upper  
112 100  
64 69.8 53.7 80.5  
63 38.1 30.2 45.4



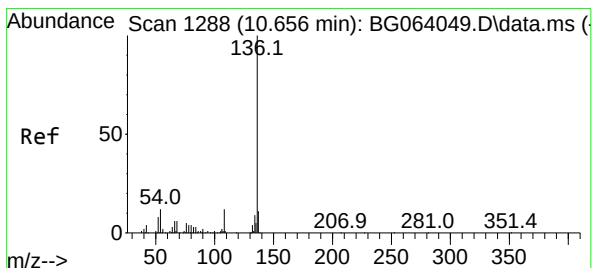
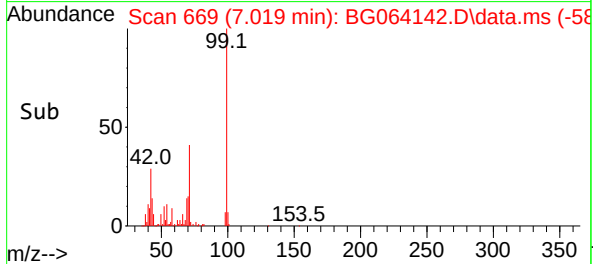
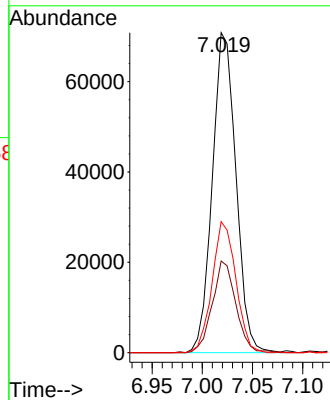
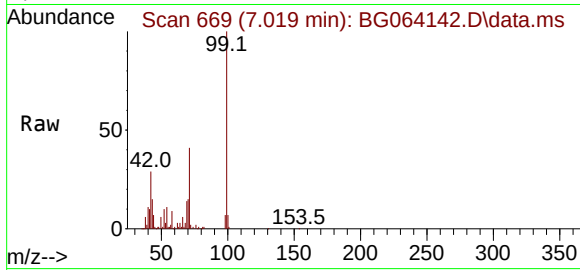




#7  
Phenol-d6  
Concen: 38.222 ng  
RT: 7.019 min Scan# 60  
Delta R.T. -0.012 min  
Lab File: BG064142.D  
Acq: 1 Apr 2025 19:45

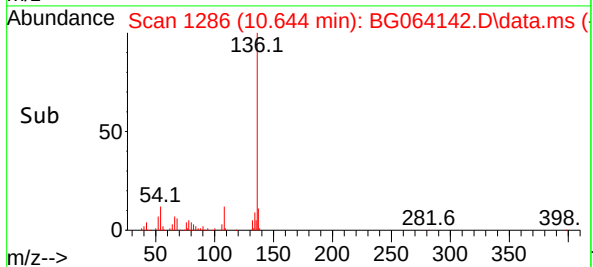
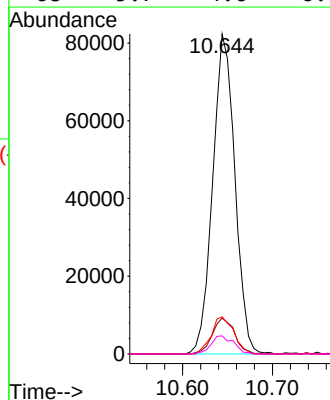
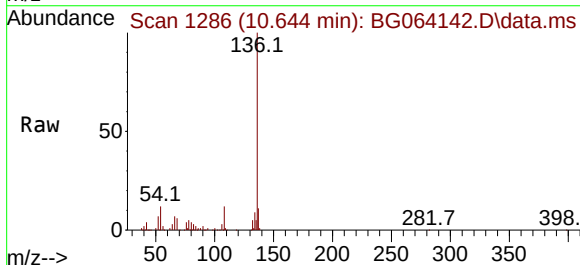
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-006-01

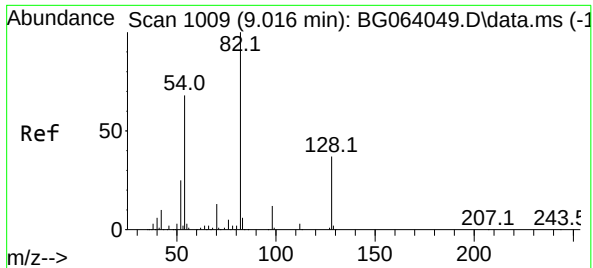
Tgt Ion: 99 Resp: 116098  
Ion Ratio Lower Upper  
99 100  
42 28.7 22.7 34.1  
71 40.9 30.6 46.0



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.644 min Scan# 1286  
Delta R.T. -0.012 min  
Lab File: BG064142.D  
Acq: 1 Apr 2025 19:45

Tgt Ion:136 Resp: 141203  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.5 12.7  
54 11.6 9.9 14.9  
68 5.7 4.6 6.8





#23

Nitrobenzene-d5

Concen: 119.336 ng

RT: 9.011 min Scan# 1009

Delta R.T. -0.006 min

Lab File: BG064142.D

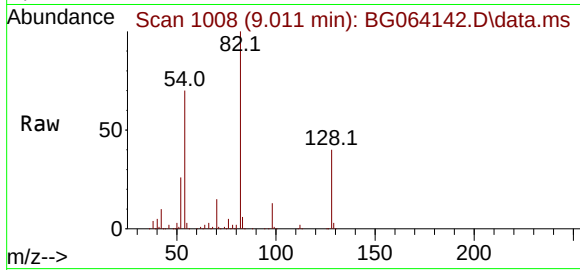
Acq: 1 Apr 2025 19:45

Instrument :

BNA\_G

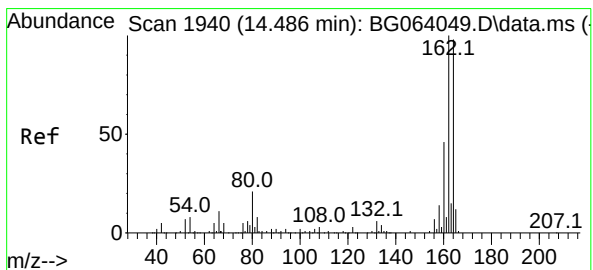
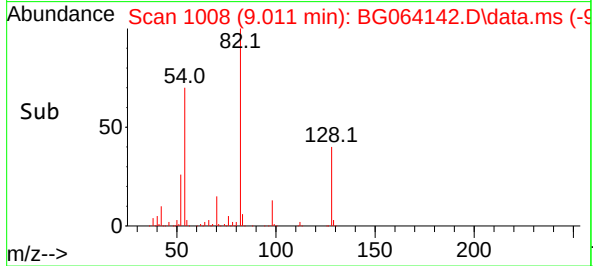
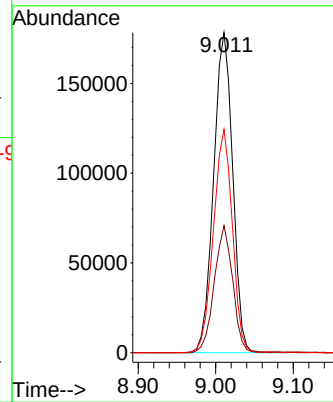
ClientSampleId :

P001-BBDGA-006-01



Tgt Ion: 82 Resp: 304923

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 39.7  | 30.0  | 45.0  |
| 54  | 69.8  | 54.7  | 82.1  |



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.481 min Scan# 1939

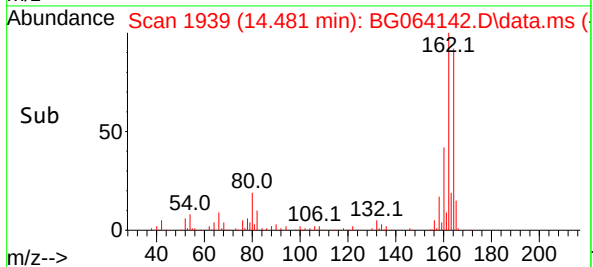
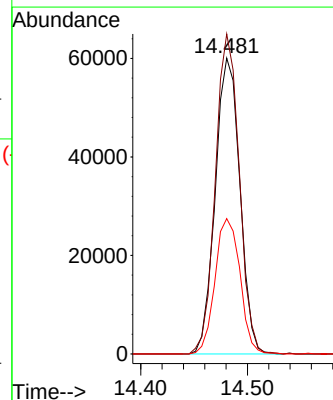
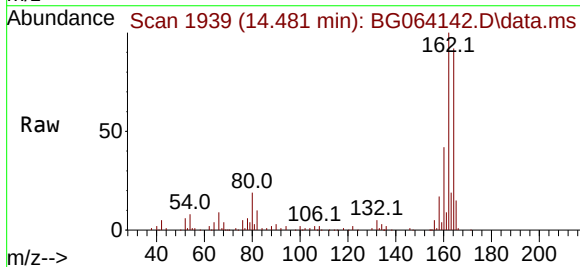
Delta R.T. -0.005 min

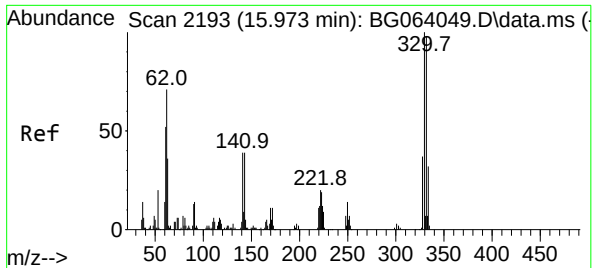
Lab File: BG064142.D

Acq: 1 Apr 2025 19:45

Tgt Ion: 164 Resp: 96364

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 108.2 | 81.4  | 122.0 |
| 160 | 45.7  | 37.0  | 55.6  |

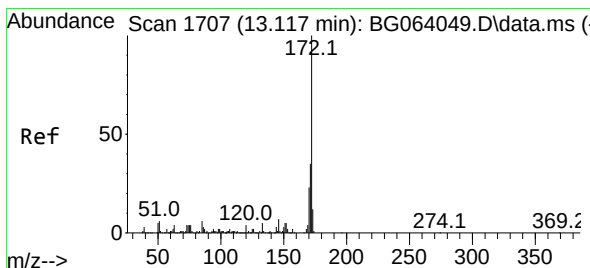
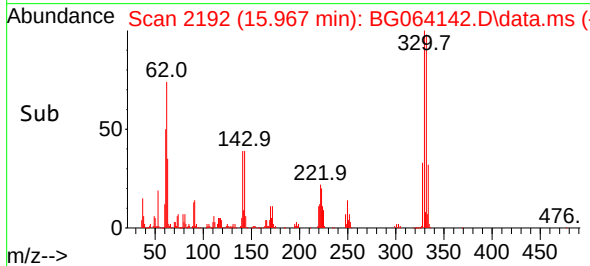
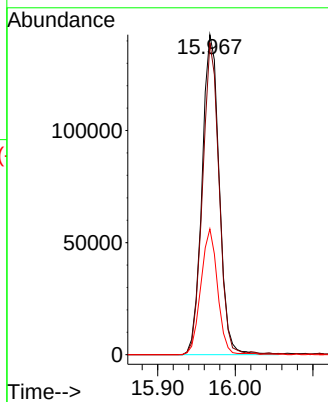
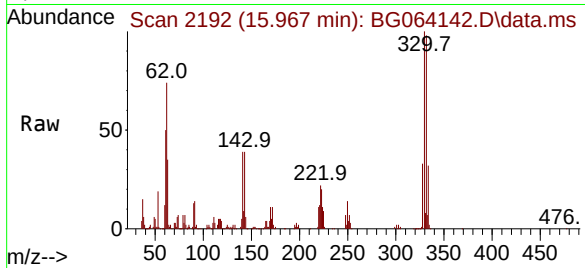




#42  
2,4,6-Tribromophenol  
Concen: 205.704 ng  
RT: 15.967 min Scan# 2193  
Delta R.T. -0.006 min  
Lab File: BG064142.D  
Acq: 1 Apr 2025 19:45

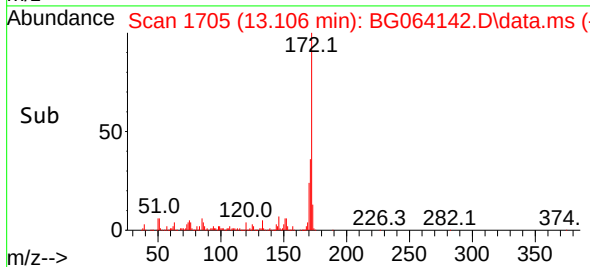
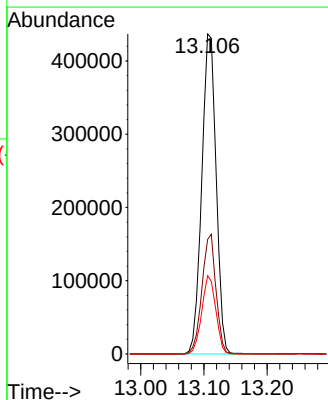
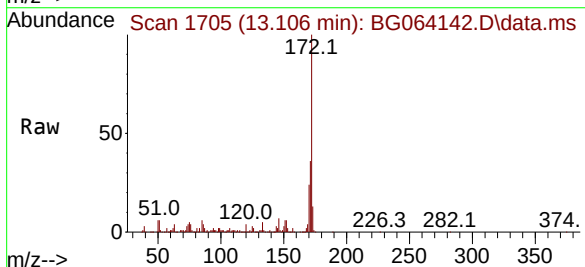
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-006-01

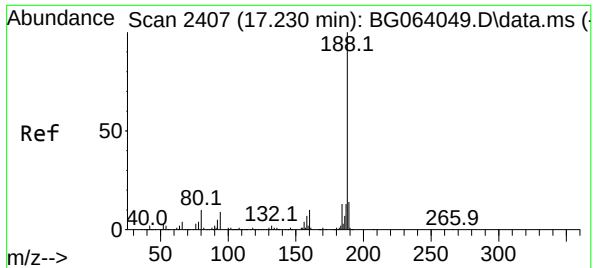
Tgt Ion:330 Resp: 220341  
Ion Ratio Lower Upper  
330 100  
332 93.3 76.7 115.1  
141 38.1 29.7 44.5



#45  
2-Fluorobiphenyl  
Concen: 108.585 ng  
RT: 13.106 min Scan# 1705  
Delta R.T. -0.012 min  
Lab File: BG064142.D  
Acq: 1 Apr 2025 19:45

Tgt Ion:172 Resp: 689364  
Ion Ratio Lower Upper  
172 100  
171 35.8 28.0 42.0  
170 24.4 18.7 28.1

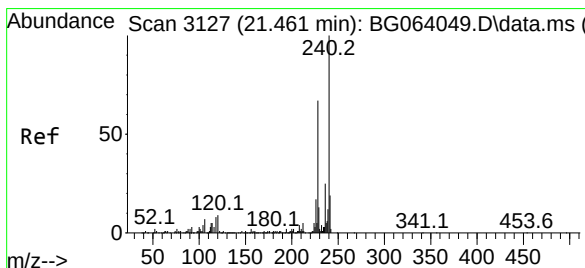
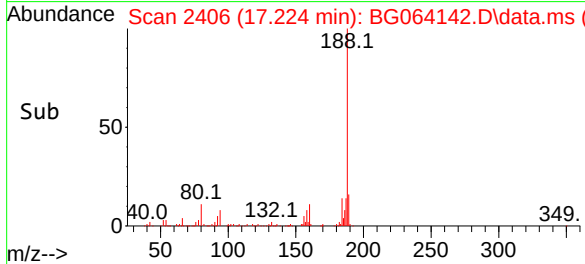
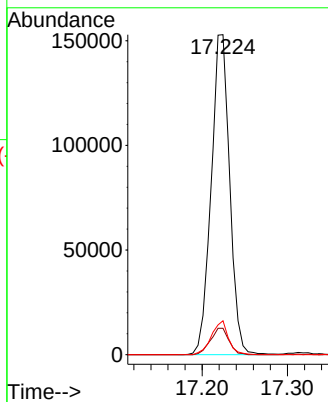
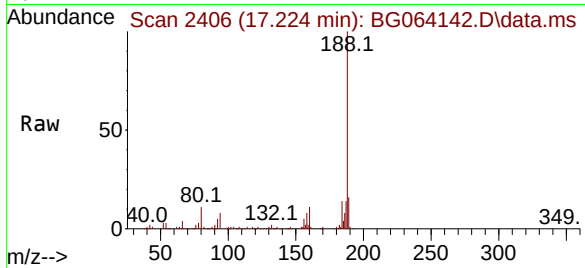




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.224 min Scan# 2406  
Delta R.T. -0.006 min  
Lab File: BG064142.D  
Acq: 1 Apr 2025 19:45

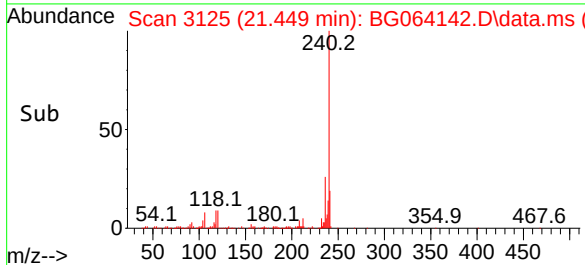
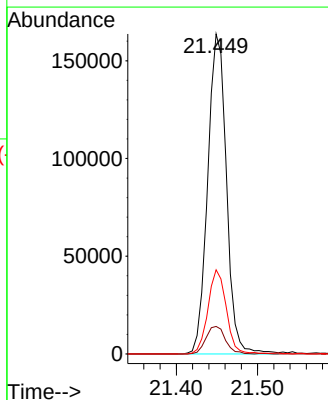
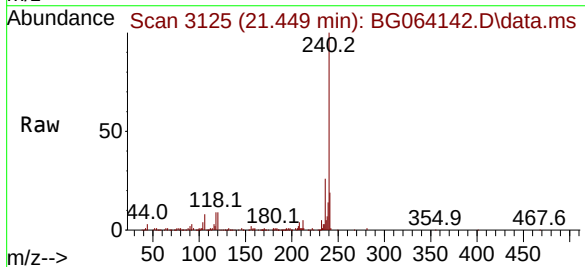
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-006-01

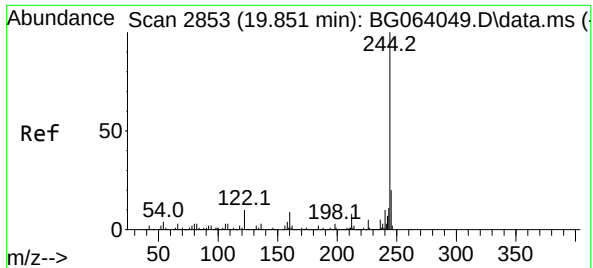
Tgt Ion:188 Resp: 230878  
Ion Ratio Lower Upper  
188 100  
94 8.2 6.9 10.3  
80 10.6 8.1 12.1



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.449 min Scan# 3125  
Delta R.T. -0.012 min  
Lab File: BG064142.D  
Acq: 1 Apr 2025 19:45

Tgt Ion:240 Resp: 262499  
Ion Ratio Lower Upper  
240 100  
120 8.6 7.2 10.8  
236 26.3 20.2 30.2

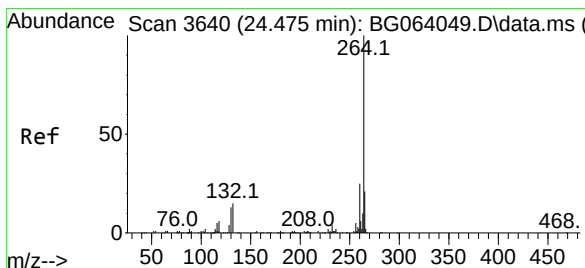
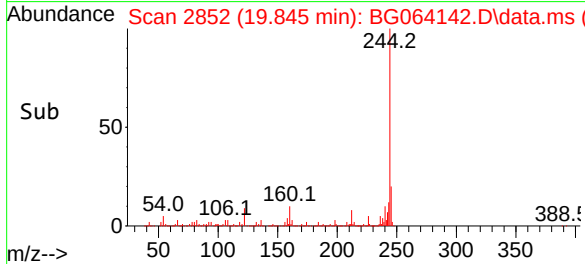
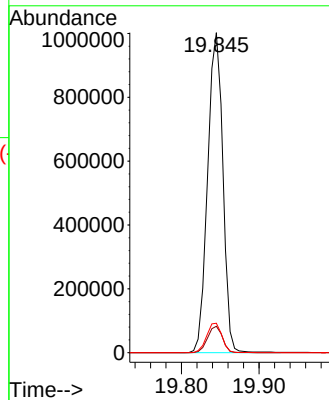
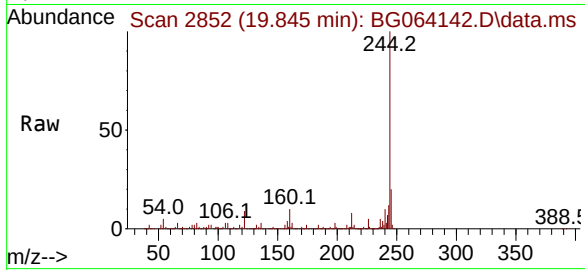




#79  
 Terphenyl-d14  
 Concen: 105.269 ng  
 RT: 19.845 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: BG064142.D  
 Acq: 1 Apr 2025 19:45

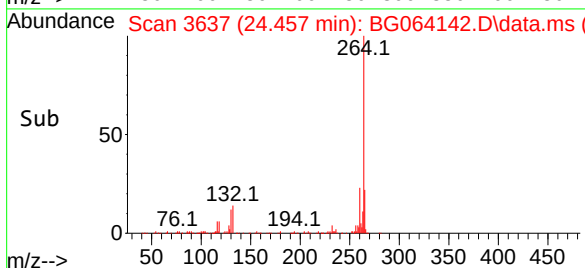
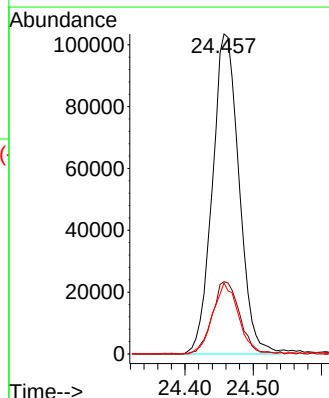
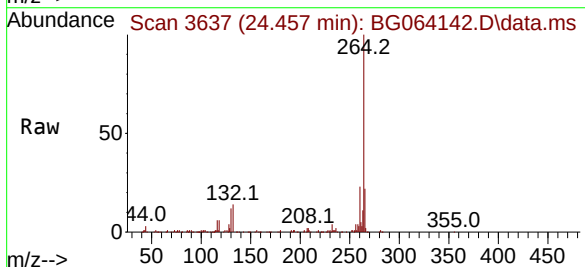
Instrument :  
 BNA\_G  
 ClientSampleId :  
 P001-BBDGA-006-01

Tgt Ion:244 Resp: 1366621  
 Ion Ratio Lower Upper  
 244 100  
 212 8.2 6.2 9.4  
 122 9.2 8.0 12.0



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.457 min Scan# 3637  
 Delta R.T. -0.017 min  
 Lab File: BG064142.D  
 Acq: 1 Apr 2025 19:45

Tgt Ion:264 Resp: 281469  
 Ion Ratio Lower Upper  
 264 100  
 260 22.6 19.6 29.4  
 265 22.2 16.6 25.0



## Report of Analysis

|                    |                        |                 |                              |
|--------------------|------------------------|-----------------|------------------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25                     |
| Project:           | RFP 905                | Date Received:  | 03/27/25                     |
| Client Sample ID:  | P001-BBDGA-007-01      | SDG No.:        | Q1664                        |
| Lab Sample ID:     | Q1664-20               | Matrix:         | Water                        |
| Analytical Method: | SW8270                 | % Solid:        | 0                            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA                     |
| Extraction Type :  | Decanted :        N    | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3510C                |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064143.D        | 1         | 03/31/25 11:00 | 04/01/25 20:26 | PB167393      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|-----------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                             |       |           |      |            |       |
| 100-52-7       | Benzaldehyde                | 3.90  | U         | 3.90 | 10.0       | ug/L  |
| 108-95-2       | Phenol                      | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.81  | U         | 0.81 | 5.00       | ug/L  |
| 95-57-8        | 2-Chlorophenol              | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 95-48-7        | 2-Methylphenol              | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 98-86-2        | Acetophenone                | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 65794-96-9     | 3+4-Methylphenols           | 1.10  | UQ        | 1.10 | 10.0       | ug/L  |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 1.40  | U         | 1.40 | 2.50       | ug/L  |
| 67-72-1        | Hexachloroethane            | 0.65  | U         | 0.65 | 5.00       | ug/L  |
| 98-95-3        | Nitrobenzene                | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 78-59-1        | Isophorone                  | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 88-75-5        | 2-Nitrophenol               | 1.80  | UQ        | 1.80 | 5.00       | ug/L  |
| 105-67-9       | 2,4-Dimethylphenol          | 1.90  | U         | 1.90 | 5.00       | ug/L  |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 120-83-2       | 2,4-Dichlorophenol          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 91-20-3        | Naphthalene                 | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 106-47-8       | 4-Chloroaniline             | 0.84  | U         | 0.84 | 5.00       | ug/L  |
| 87-68-3        | Hexachlorobutadiene         | 0.54  | U         | 0.54 | 5.00       | ug/L  |
| 105-60-2       | Caprolactam                 | 1.10  | U         | 1.10 | 10.0       | ug/L  |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 91-57-6        | 2-Methylnaphthalene         | 0.56  | U         | 0.56 | 5.00       | ug/L  |
| 77-47-4        | Hexachlorocyclopentadiene   | 3.60  | UQ        | 3.60 | 10.0       | ug/L  |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.51  | U         | 0.51 | 5.00       | ug/L  |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.62  | UQ        | 0.62 | 5.00       | ug/L  |
| 92-52-4        | 1,1-Biphenyl                | 0.53  | U         | 0.53 | 5.00       | ug/L  |
| 91-58-7        | 2-Chloronaphthalene         | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 88-74-4        | 2-Nitroaniline              | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 131-11-3       | Dimethylphthalate           | 0.61  | U         | 0.61 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-007-01      | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-20               | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064143.D        | 1         | 03/31/25 11:00 | 04/01/25 20:26 | PB167393      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|------------|----------------------------|-------|-----------|------|------------|-------|
| 208-96-8   | Acenaphthylene             | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 99-09-2    | 3-Nitroaniline             | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 83-32-9    | Acenaphthene               | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 51-28-5    | 2,4-Dinitrophenol          | 6.00  | U         | 6.00 | 10.0       | ug/L  |
| 100-02-7   | 4-Nitrophenol              | 2.40  | U         | 2.40 | 10.0       | ug/L  |
| 132-64-9   | Dibenzofuran               | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 121-14-2   | 2,4-Dinitrotoluene         | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 84-66-2    | Diethylphthalate           | 0.69  | U         | 0.69 | 5.00       | ug/L  |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 86-73-7    | Fluorene                   | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 100-01-6   | 4-Nitroaniline             | 1.50  | U         | 1.50 | 5.00       | ug/L  |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 2.90  | UQ        | 2.90 | 10.0       | ug/L  |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.40  | U         | 0.40 | 5.00       | ug/L  |
| 118-74-1   | Hexachlorobenzene          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 1912-24-9  | Atrazine                   | 1.00  | UQ        | 1.00 | 5.00       | ug/L  |
| 87-86-5    | Pentachlorophenol          | 3.80  | J         | 1.60 | 10.0       | ug/L  |
| 85-01-8    | Phenanthrene               | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 120-12-7   | Anthracene                 | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 86-74-8    | Carbazole                  | 0.72  | U         | 0.72 | 5.00       | ug/L  |
| 84-74-2    | Di-n-butylphthalate        | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 206-44-0   | Fluoranthene               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 129-00-0   | Pyrene                     | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 85-68-7    | Butylbenzylphthalate       | 1.90  | UQ        | 1.90 | 5.00       | ug/L  |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.93  | U         | 0.93 | 10.0       | ug/L  |
| 56-55-3    | Benzo(a)anthracene         | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 218-01-9   | Chrysene                   | 0.44  | U         | 0.44 | 5.00       | ug/L  |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 1.60  | U         | 1.60 | 5.00       | ug/L  |
| 117-84-0   | Di-n-octyl phthalate       | 2.30  | U         | 2.30 | 10.0       | ug/L  |
| 205-99-2   | Benzo(b)fluoranthene       | 0.49  | U         | 0.49 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25 |
| Project:           | RFP 905                | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-007-01      | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-20               | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064143.D        | 1         | 03/31/25 11:00 | 04/01/25 20:26 | PB167393      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|----------------------------|--------|-----------|----------|------------|----------|
| 207-08-9                  | Benzo(k)fluoranthene       | 0.48   | U         | 0.48     | 5.00       | ug/L     |
| 50-32-8                   | Benzo(a)pyrene             | 0.55   | U         | 0.55     | 5.00       | ug/L     |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 0.59   | U         | 0.59     | 5.00       | ug/L     |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 0.67   | U         | 0.67     | 5.00       | ug/L     |
| 191-24-2                  | Benzo(g,h,i)perylene       | 0.69   | U         | 0.69     | 5.00       | ug/L     |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 0.52   | U         | 0.52     | 5.00       | ug/L     |
| 123-91-1                  | 1,4-Dioxane                | 1.00   | U         | 1.00     | 5.00       | ug/L     |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 0.72   | U         | 0.72     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                            |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol             | 61.6   |           | 10 - 139 | 41%        | SPK: 150 |
| 13127-88-3                | Phenol-d6                  | 35.0   |           | 10 - 134 | 23%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5            | 117    |           | 49 - 133 | 117%       | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl           | 104    |           | 52 - 132 | 104%       | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol       | 186    |           | 44 - 137 | 124%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14              | 104    |           | 48 - 125 | 104%       | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 34800  | 7.861     |          |            |          |
| 1146-65-2                 | Naphthalene-d8             | 145000 | 10.646    |          |            |          |
| 15067-26-2                | Acenaphthene-d10           | 101000 | 14.483    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10           | 225000 | 17.221    |          |            |          |
| 1719-03-5                 | Chrysene-d12               | 256000 | 21.451    |          |            |          |
| 1520-96-3                 | Perylene-d12               | 278000 | 24.46     |          |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
 Data File : BG064143.D  
 Acq On : 1 Apr 2025 20:26  
 Operator : RC/JU  
 Sample : Q1664-20  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P001-BBDGA-007-01

Quant Time: Apr 02 01:36:26 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

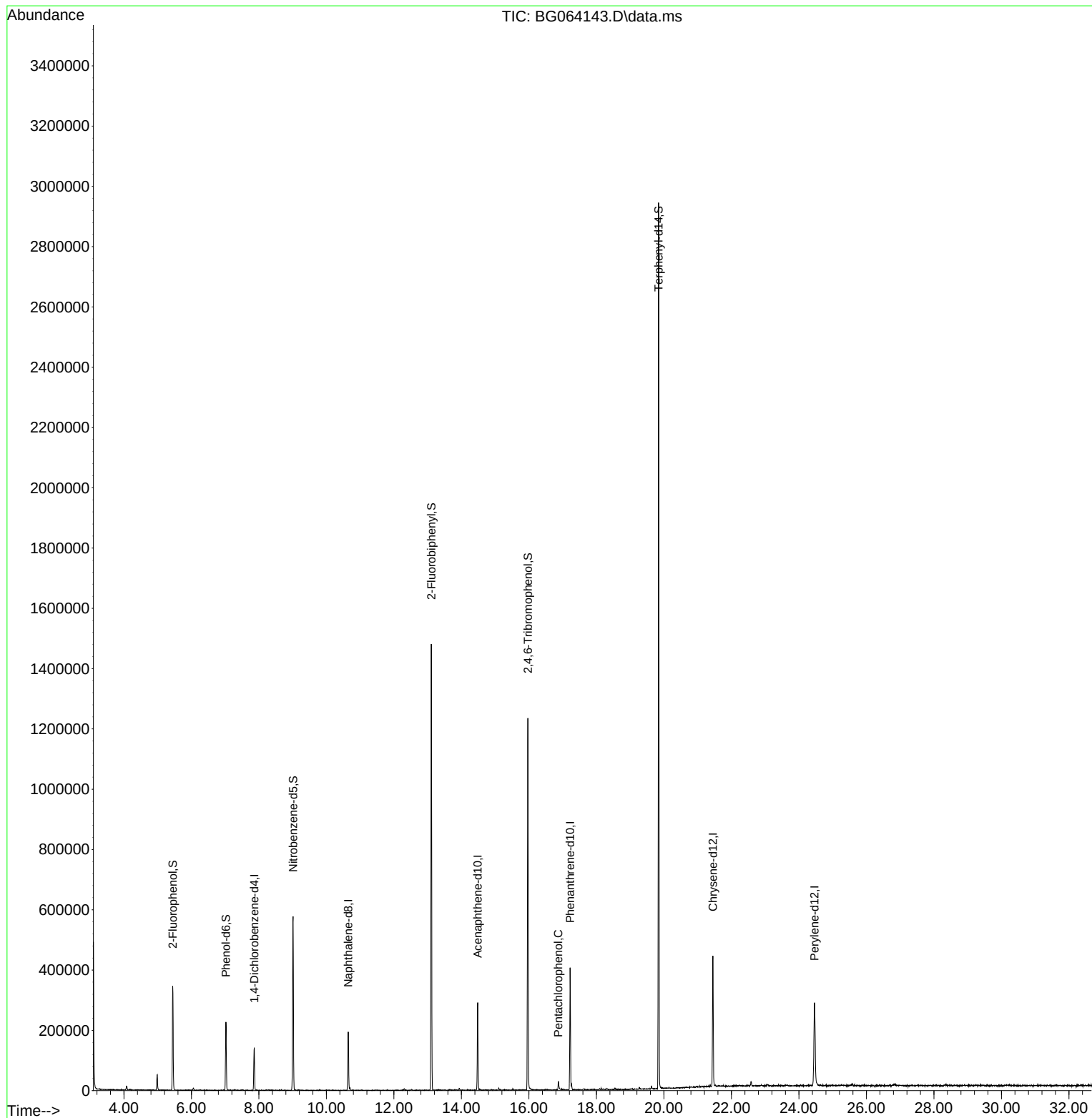
| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.861  | 152  | 34800    | 20.000  | ng    | # 0.00   |
| 21) Naphthalene-d8          | 10.646 | 136  | 145195   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.483 | 164  | 100676   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.221 | 188  | 224548   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.451 | 240  | 255840   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 24.460 | 264  | 278315   | 20.000  | ng    | -0.02    |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.453  | 112  | 137225   | 61.572  | ng    | 0.00     |
| 7) Phenol-d6                | 7.021  | 99   | 106057   | 34.980  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.013  | 82   | 307770   | 117.139 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.970 | 330  | 208074   | 185.932 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.108 | 172  | 692265   | 104.372 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.842 | 244  | 1313084  | 103.778 | ng    | 0.00     |
| Target Compounds            |        |      |          |         |       |          |
| 70) Pentachlorophenol       | 16.874 | 266  | 6122     | 3.830   | ng    | # 79     |
| -----                       |        |      |          |         |       |          |

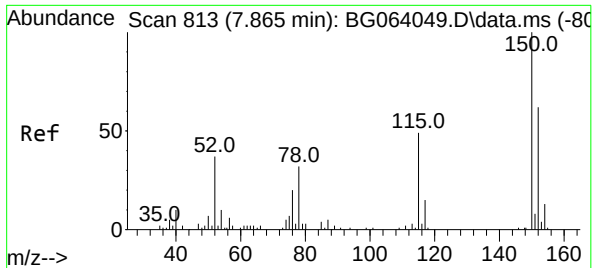
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064143.D  
Acq On : 1 Apr 2025 20:26  
Operator : RC/JU  
Sample : Q1664-20  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-007-01

Quant Time: Apr 02 01:36:26 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

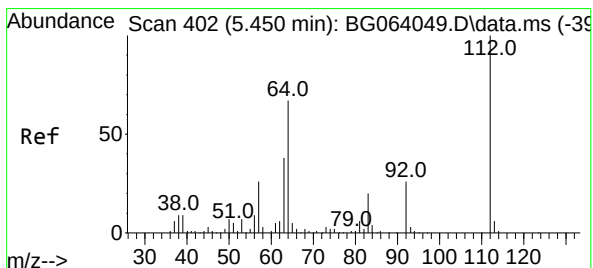
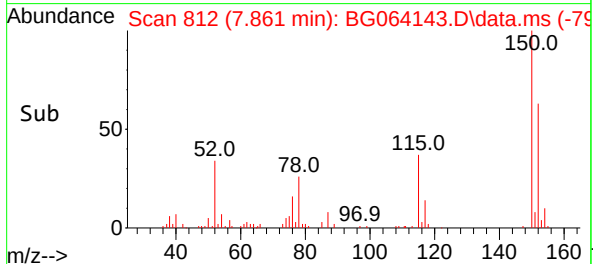
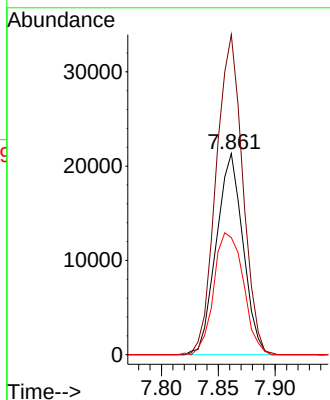
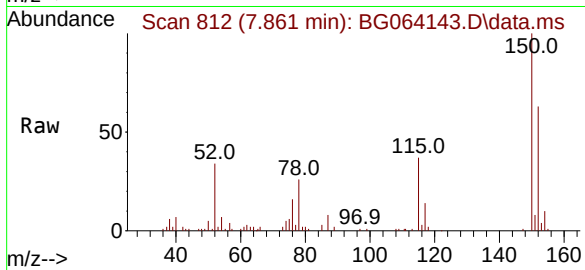




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.861 min Scan# 813  
Delta R.T. -0.004 min  
Lab File: BG064143.D  
Acq: 1 Apr 2025 20:26

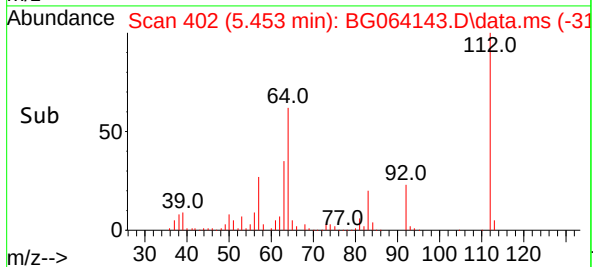
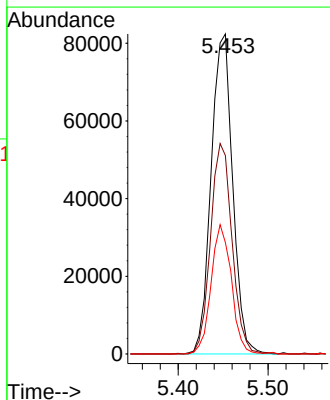
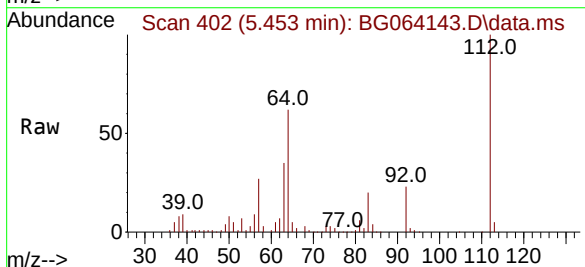
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-007-01

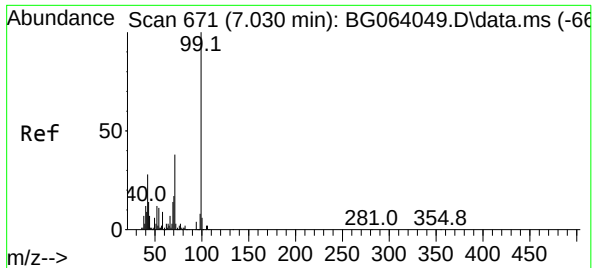
Tgt Ion:152 Resp: 34800  
Ion Ratio Lower Upper  
152 100  
150 159.1 129.2 193.8  
115 58.2 63.0 94.6#



#5  
2-Fluorophenol  
Concen: 61.572 ng  
RT: 5.453 min Scan# 402  
Delta R.T. 0.003 min  
Lab File: BG064143.D  
Acq: 1 Apr 2025 20:26

Tgt Ion:112 Resp: 137225  
Ion Ratio Lower Upper  
112 100  
64 62.0 53.7 80.5  
63 34.8 30.2 45.4

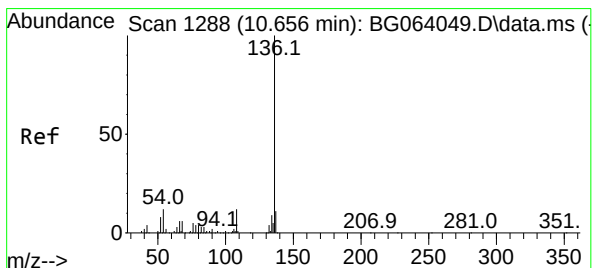
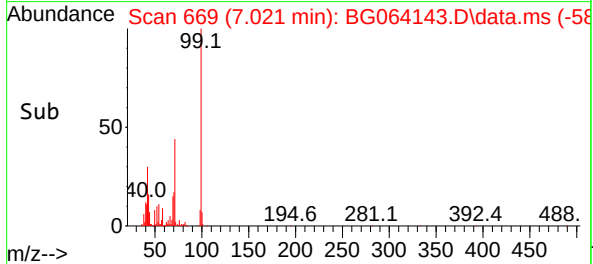
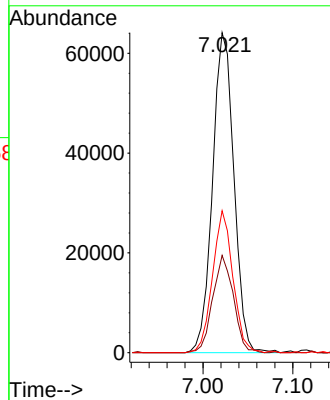
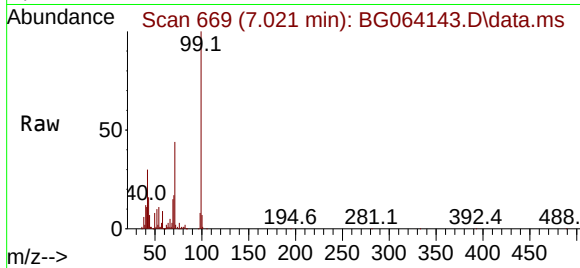




#7  
Phenol-d6  
Concen: 34.980 ng  
RT: 7.021 min Scan# 60  
Delta R.T. -0.009 min  
Lab File: BG064143.D  
Acq: 1 Apr 2025 20:26

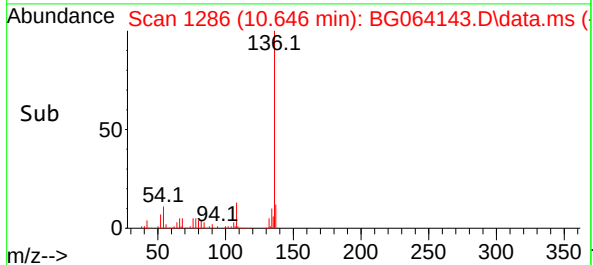
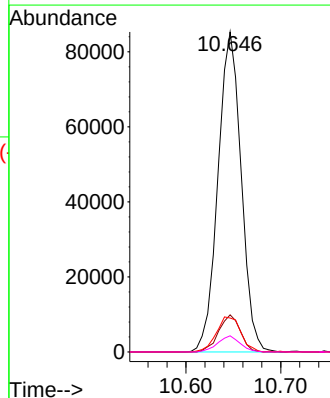
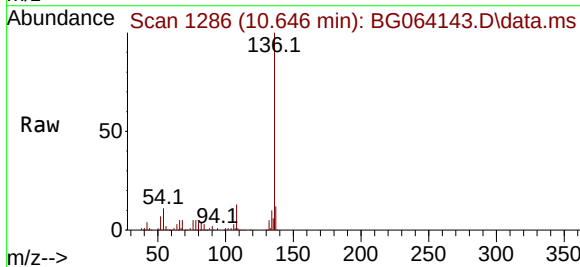
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-007-01

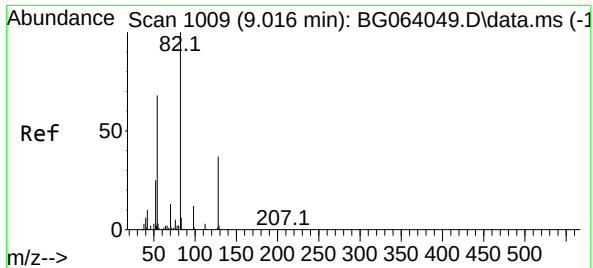
Tgt Ion: 99 Resp: 106057  
Ion Ratio Lower Upper  
99 100  
42 30.4 22.7 34.1  
71 44.4 30.6 46.0



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.646 min Scan# 1286  
Delta R.T. -0.010 min  
Lab File: BG064143.D  
Acq: 1 Apr 2025 20:26

Tgt Ion:136 Resp: 145195  
Ion Ratio Lower Upper  
136 100  
137 11.6 8.5 12.7  
54 10.6 9.9 14.9  
68 5.1 4.6 6.8





#23

Nitrobenzene-d5

Concen: 117.139 ng

RT: 9.013 min Scan# 1009

Delta R.T. -0.003 min

Lab File: BG064143.D

Acq: 1 Apr 2025 20:26

Instrument :

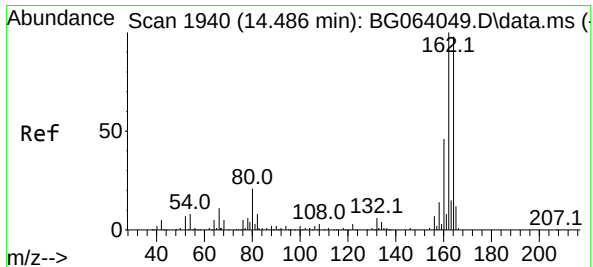
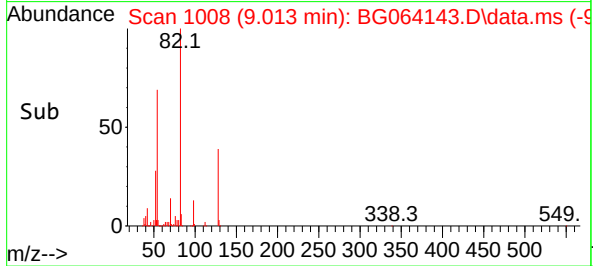
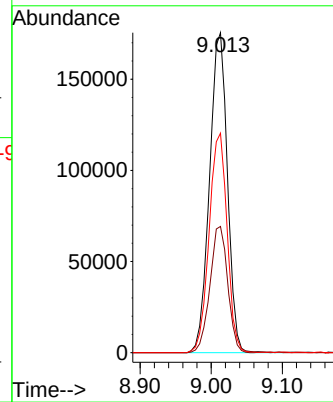
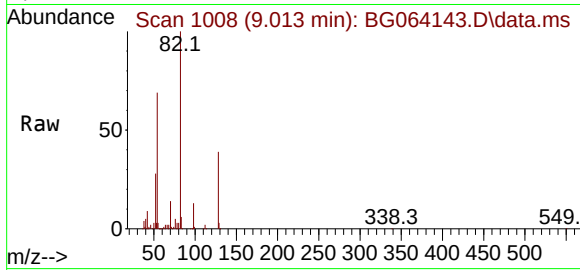
BNA\_G

ClientSampleId :

P001-BBDGA-007-01

Tgt Ion: 82 Resp: 307770

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 39.5  | 30.0  | 45.0  |
| 54  | 68.6  | 54.7  | 82.1  |



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.483 min Scan# 1939

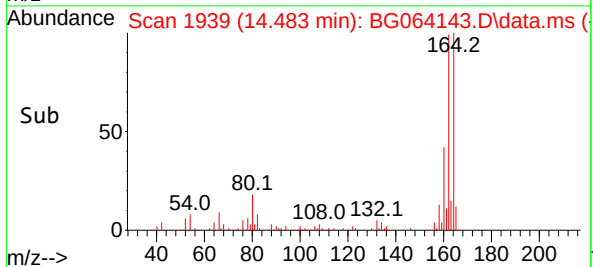
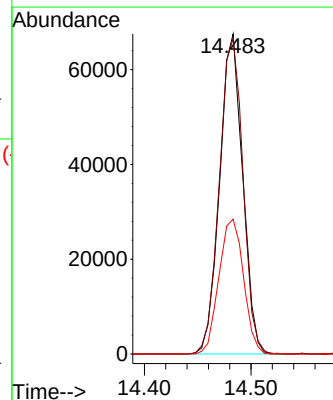
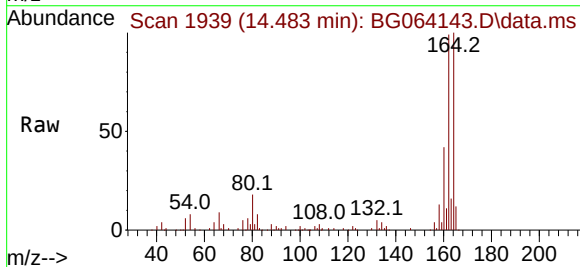
Delta R.T. -0.003 min

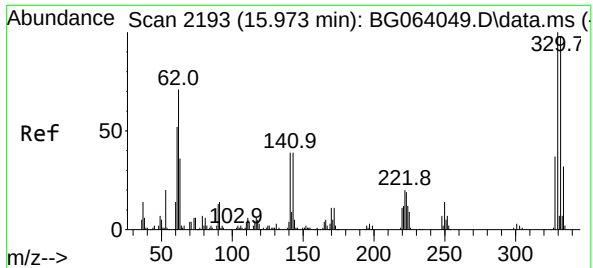
Lab File: BG064143.D

Acq: 1 Apr 2025 20:26

Tgt Ion:164 Resp: 100676

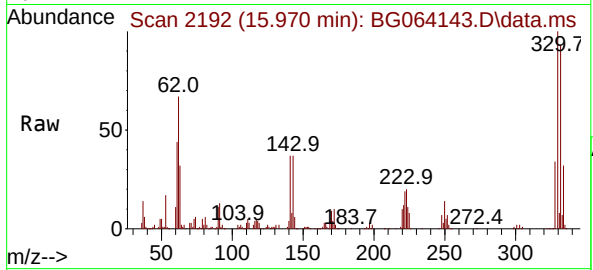
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 98.5  | 81.4  | 122.0 |
| 160 | 42.1  | 37.0  | 55.6  |



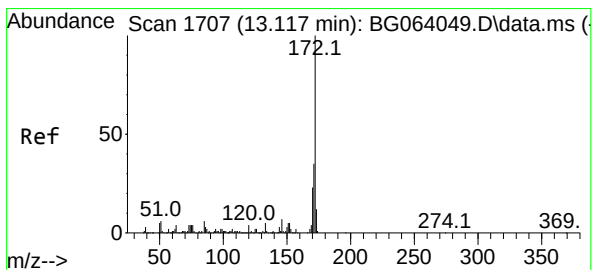
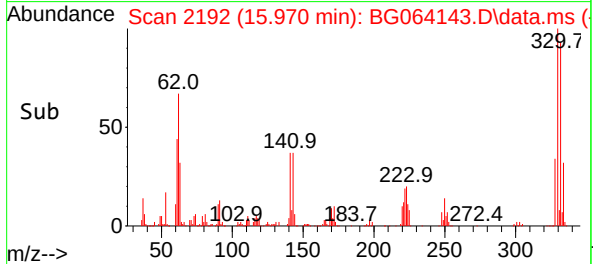
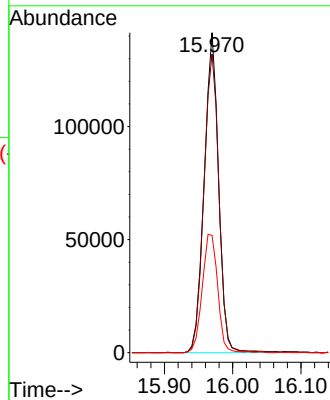


#42  
2,4,6-Tribromophenol  
Concen: 185.932 ng  
RT: 15.970 min Scan# 2193  
Delta R.T. -0.003 min  
Lab File: BG064143.D  
Acq: 1 Apr 2025 20:26

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-007-01

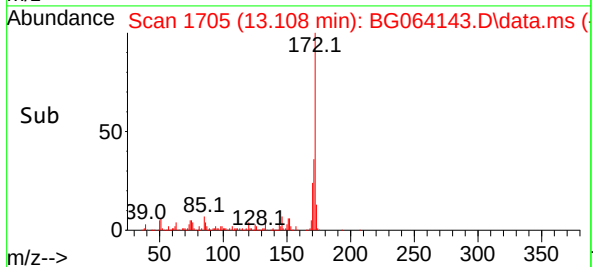
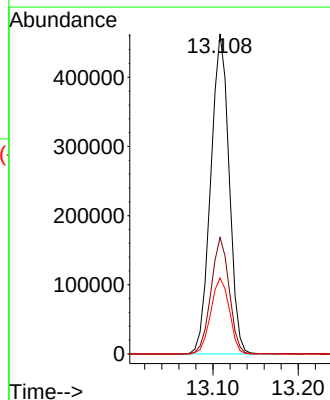
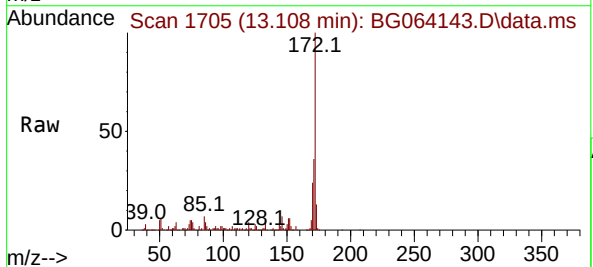


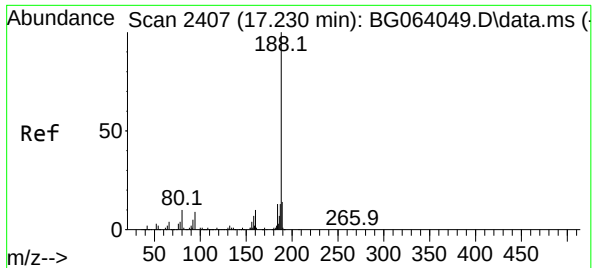
Tgt Ion:330 Resp: 208074  
Ion Ratio Lower Upper  
330 100  
332 97.5 76.7 115.1  
141 39.7 29.7 44.5



#45  
2-Fluorobiphenyl  
Concen: 104.372 ng  
RT: 13.108 min Scan# 1705  
Delta R.T. -0.009 min  
Lab File: BG064143.D  
Acq: 1 Apr 2025 20:26

Tgt Ion:172 Resp: 692265  
Ion Ratio Lower Upper  
172 100  
171 36.4 28.0 42.0  
170 23.8 18.7 28.1

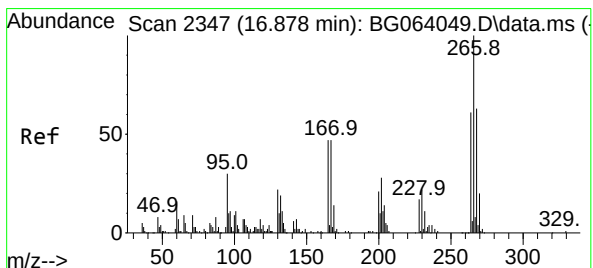
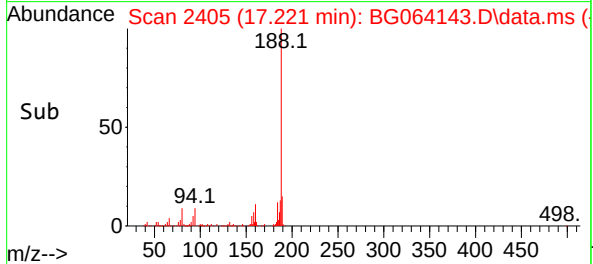
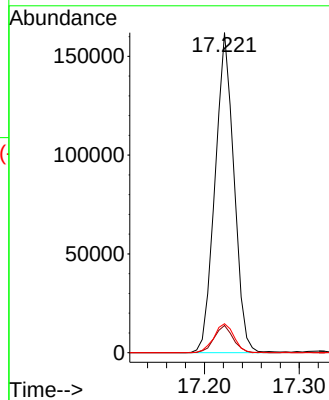
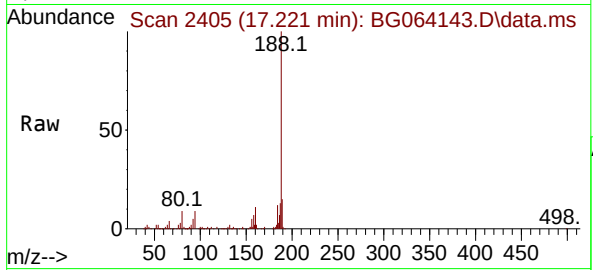




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.221 min Scan# 2405  
Delta R.T. -0.009 min  
Lab File: BG064143.D  
Acq: 1 Apr 2025 20:26

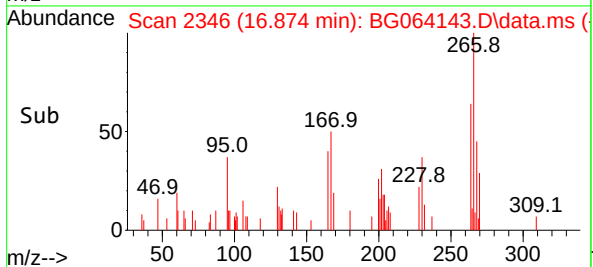
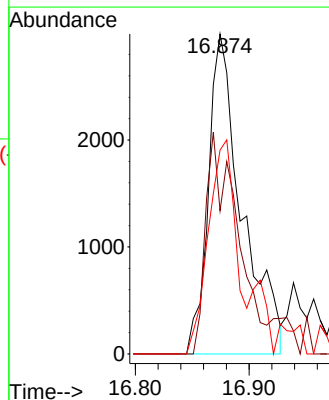
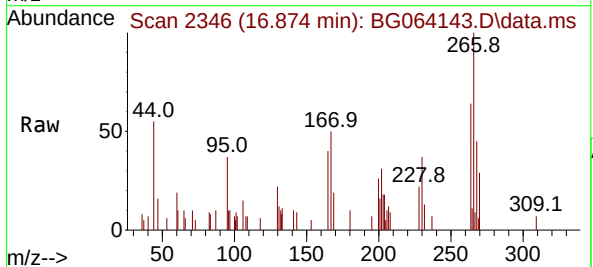
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-007-01

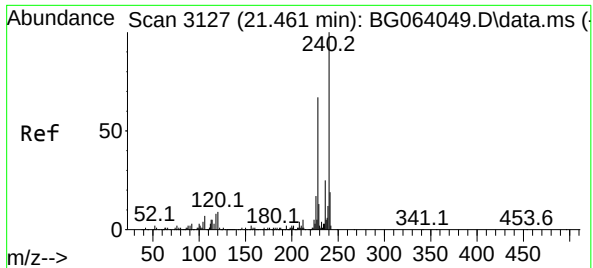
Tgt Ion:188 Resp: 224548  
Ion Ratio Lower Upper  
188 100  
94 8.5 6.9 10.3  
80 9.1 8.1 12.1



#70  
Pentachlorophenol  
Concen: 3.830 ng  
RT: 16.874 min Scan# 2346  
Delta R.T. -0.004 min  
Lab File: BG064143.D  
Acq: 1 Apr 2025 20:26

Tgt Ion:266 Resp: 6122  
Ion Ratio Lower Upper  
266 100  
268 44.8 50.2 75.4#  
264 75.2 48.9 73.3#

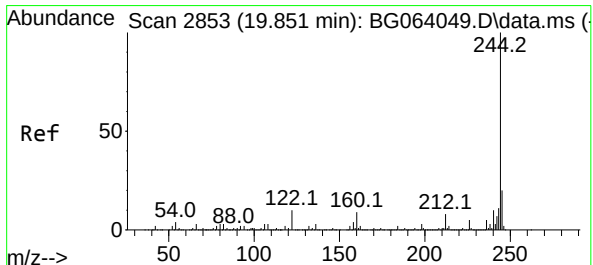
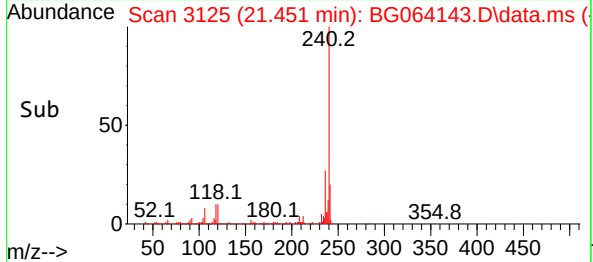
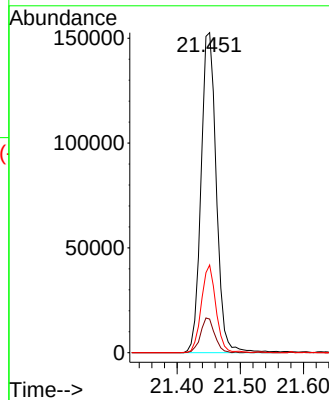
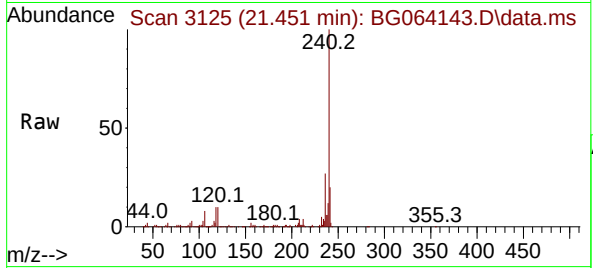




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.451 min Scan# 31  
Delta R.T. -0.009 min  
Lab File: BG064143.D  
Acq: 1 Apr 2025 20:26

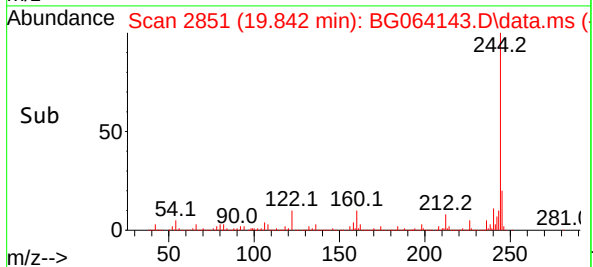
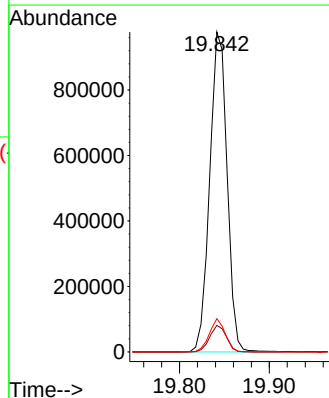
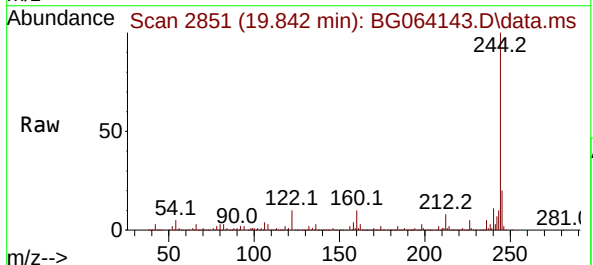
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-007-01

Tgt Ion:240 Resp: 255840  
Ion Ratio Lower Upper  
240 100  
120 10.5 7.2 10.8  
236 27.4 20.2 30.2

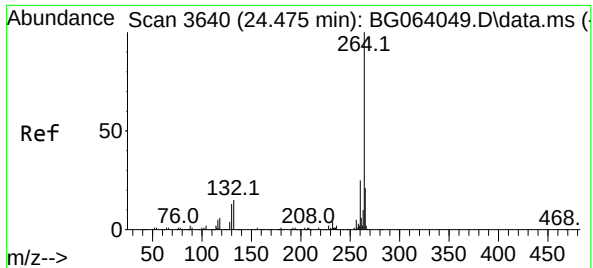


#79  
Terphenyl-d14  
Concen: 103.778 ng  
RT: 19.842 min Scan# 2851  
Delta R.T. -0.009 min  
Lab File: BG064143.D  
Acq: 1 Apr 2025 20:26

Tgt Ion:244 Resp: 1313084  
Ion Ratio Lower Upper  
244 100  
212 8.3 6.2 9.4  
122 10.4 8.0 12.0







#86

Perylene-d12

Concen: 20.000 ng

RT: 24.460 min Scan# 30

Delta R.T. -0.015 min

Lab File: BG064143.D

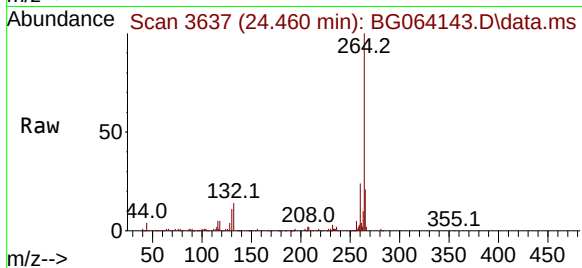
Acq: 1 Apr 2025 20:26

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-007-01



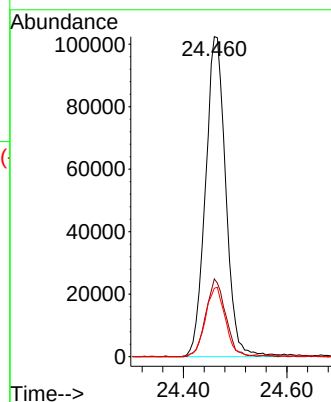
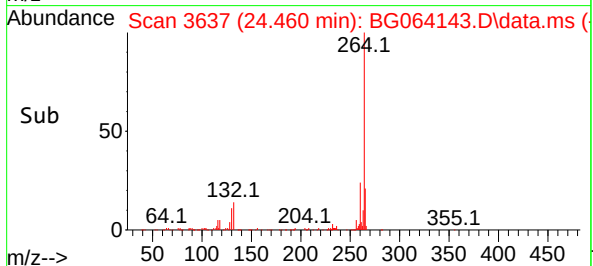
Tgt Ion:264 Resp: 278315

Ion Ratio Lower Upper

264 100

260 24.3 19.6 29.4

265 21.4 16.6 25.0



## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-008-01      | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-22               | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064144.D        | 1         | 03/31/25 11:00 | 04/01/25 21:06 | PB167393      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|-----------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                             |       |           |      |            |       |
| 100-52-7       | Benzaldehyde                | 3.90  | U         | 3.90 | 10.0       | ug/L  |
| 108-95-2       | Phenol                      | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.81  | U         | 0.81 | 5.00       | ug/L  |
| 95-57-8        | 2-Chlorophenol              | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 95-48-7        | 2-Methylphenol              | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 98-86-2        | Acetophenone                | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 65794-96-9     | 3+4-Methylphenols           | 1.10  | UQ        | 1.10 | 10.0       | ug/L  |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 1.40  | U         | 1.40 | 2.50       | ug/L  |
| 67-72-1        | Hexachloroethane            | 0.65  | U         | 0.65 | 5.00       | ug/L  |
| 98-95-3        | Nitrobenzene                | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 78-59-1        | Isophorone                  | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 88-75-5        | 2-Nitrophenol               | 1.80  | UQ        | 1.80 | 5.00       | ug/L  |
| 105-67-9       | 2,4-Dimethylphenol          | 1.90  | U         | 1.90 | 5.00       | ug/L  |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 120-83-2       | 2,4-Dichlorophenol          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 91-20-3        | Naphthalene                 | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 106-47-8       | 4-Chloroaniline             | 0.84  | U         | 0.84 | 5.00       | ug/L  |
| 87-68-3        | Hexachlorobutadiene         | 0.54  | U         | 0.54 | 5.00       | ug/L  |
| 105-60-2       | Caprolactam                 | 1.10  | U         | 1.10 | 10.0       | ug/L  |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 91-57-6        | 2-Methylnaphthalene         | 0.56  | U         | 0.56 | 5.00       | ug/L  |
| 77-47-4        | Hexachlorocyclopentadiene   | 3.60  | UQ        | 3.60 | 10.0       | ug/L  |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.51  | U         | 0.51 | 5.00       | ug/L  |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.62  | UQ        | 0.62 | 5.00       | ug/L  |
| 92-52-4        | 1,1-Biphenyl                | 0.53  | U         | 0.53 | 5.00       | ug/L  |
| 91-58-7        | 2-Chloronaphthalene         | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 88-74-4        | 2-Nitroaniline              | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 131-11-3       | Dimethylphthalate           | 0.61  | U         | 0.61 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-008-01      | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-22               | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064144.D        | 1         | 03/31/25 11:00 | 04/01/25 21:06 | PB167393      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|------------|----------------------------|-------|-----------|------|------------|-------|
| 208-96-8   | Acenaphthylene             | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 99-09-2    | 3-Nitroaniline             | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 83-32-9    | Acenaphthene               | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 51-28-5    | 2,4-Dinitrophenol          | 6.00  | U         | 6.00 | 10.0       | ug/L  |
| 100-02-7   | 4-Nitrophenol              | 2.40  | U         | 2.40 | 10.0       | ug/L  |
| 132-64-9   | Dibenzofuran               | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 121-14-2   | 2,4-Dinitrotoluene         | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 84-66-2    | Diethylphthalate           | 0.69  | U         | 0.69 | 5.00       | ug/L  |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 86-73-7    | Fluorene                   | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 100-01-6   | 4-Nitroaniline             | 1.50  | U         | 1.50 | 5.00       | ug/L  |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 2.90  | UQ        | 2.90 | 10.0       | ug/L  |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.40  | U         | 0.40 | 5.00       | ug/L  |
| 118-74-1   | Hexachlorobenzene          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 1912-24-9  | Atrazine                   | 1.00  | UQ        | 1.00 | 5.00       | ug/L  |
| 87-86-5    | Pentachlorophenol          | 1.60  | U         | 1.60 | 10.0       | ug/L  |
| 85-01-8    | Phenanthrene               | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 120-12-7   | Anthracene                 | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 86-74-8    | Carbazole                  | 0.72  | U         | 0.72 | 5.00       | ug/L  |
| 84-74-2    | Di-n-butylphthalate        | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 206-44-0   | Fluoranthene               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 129-00-0   | Pyrene                     | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 85-68-7    | Butylbenzylphthalate       | 1.90  | UQ        | 1.90 | 5.00       | ug/L  |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.93  | U         | 0.93 | 10.0       | ug/L  |
| 56-55-3    | Benzo(a)anthracene         | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 218-01-9   | Chrysene                   | 0.44  | U         | 0.44 | 5.00       | ug/L  |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 1.60  | U         | 1.60 | 5.00       | ug/L  |
| 117-84-0   | Di-n-octyl phthalate       | 2.30  | U         | 2.30 | 10.0       | ug/L  |
| 205-99-2   | Benzo(b)fluoranthene       | 0.49  | U         | 0.49 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25 |
| Project:           | RFP 905                | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-008-01      | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-22               | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064144.D        | 1         | 03/31/25 11:00 | 04/01/25 21:06 | PB167393      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|----------------------------|--------|-----------|----------|------------|----------|
| 207-08-9                  | Benzo(k)fluoranthene       | 0.48   | U         | 0.48     | 5.00       | ug/L     |
| 50-32-8                   | Benzo(a)pyrene             | 0.55   | U         | 0.55     | 5.00       | ug/L     |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 0.59   | U         | 0.59     | 5.00       | ug/L     |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 0.67   | U         | 0.67     | 5.00       | ug/L     |
| 191-24-2                  | Benzo(g,h,i)perylene       | 0.69   | U         | 0.69     | 5.00       | ug/L     |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 0.52   | U         | 0.52     | 5.00       | ug/L     |
| 123-91-1                  | 1,4-Dioxane                | 1.00   | U         | 1.00     | 5.00       | ug/L     |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 0.72   | U         | 0.72     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                            |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol             | 77.3   |           | 10 - 139 | 52%        | SPK: 150 |
| 13127-88-3                | Phenol-d6                  | 47.2   |           | 10 - 134 | 31%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5            | 119    |           | 49 - 133 | 119%       | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl           | 106    |           | 52 - 132 | 106%       | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol       | 199    |           | 44 - 137 | 132%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14              | 103    |           | 48 - 125 | 103%       | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 34100  | 7.859     |          |            |          |
| 1146-65-2                 | Naphthalene-d8             | 146000 | 10.644    |          |            |          |
| 15067-26-2                | Acenaphthene-d10           | 99400  | 14.481    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10           | 240000 | 17.219    |          |            |          |
| 1719-03-5                 | Chrysene-d12               | 276000 | 21.449    |          |            |          |
| 1520-96-3                 | Perylene-d12               | 287000 | 24.463    |          |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064144.D  
Acq On : 1 Apr 2025 21:06  
Operator : RC/JU  
Sample : Q1664-22  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-008-01

Quant Time: Apr 02 01:36:42 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.859  | 152  | 34102    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.644 | 136  | 146359   | 20.000  | ng    | -0.01    |
| 39) Acenaphthene-d10        | 14.481 | 164  | 99405    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.219 | 188  | 239679   | 20.000  | ng    | -0.01    |
| 76) Chrysene-d12            | 21.449 | 240  | 275927   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12            | 24.463 | 264  | 287353   | 20.000  | ng    | -0.01    |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.450  | 112  | 168794   | 77.287  | ng    | 0.00     |
| 7) Phenol-d6                | 7.025  | 99   | 140285   | 47.217  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.011  | 82   | 315012   | 118.942 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.967 | 330  | 219406   | 198.565 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.106 | 172  | 696984   | 106.427 | ng    | -0.01    |
| 79) Terphenyl-d14           | 19.845 | 244  | 1409042  | 103.255 | ng    | 0.00     |

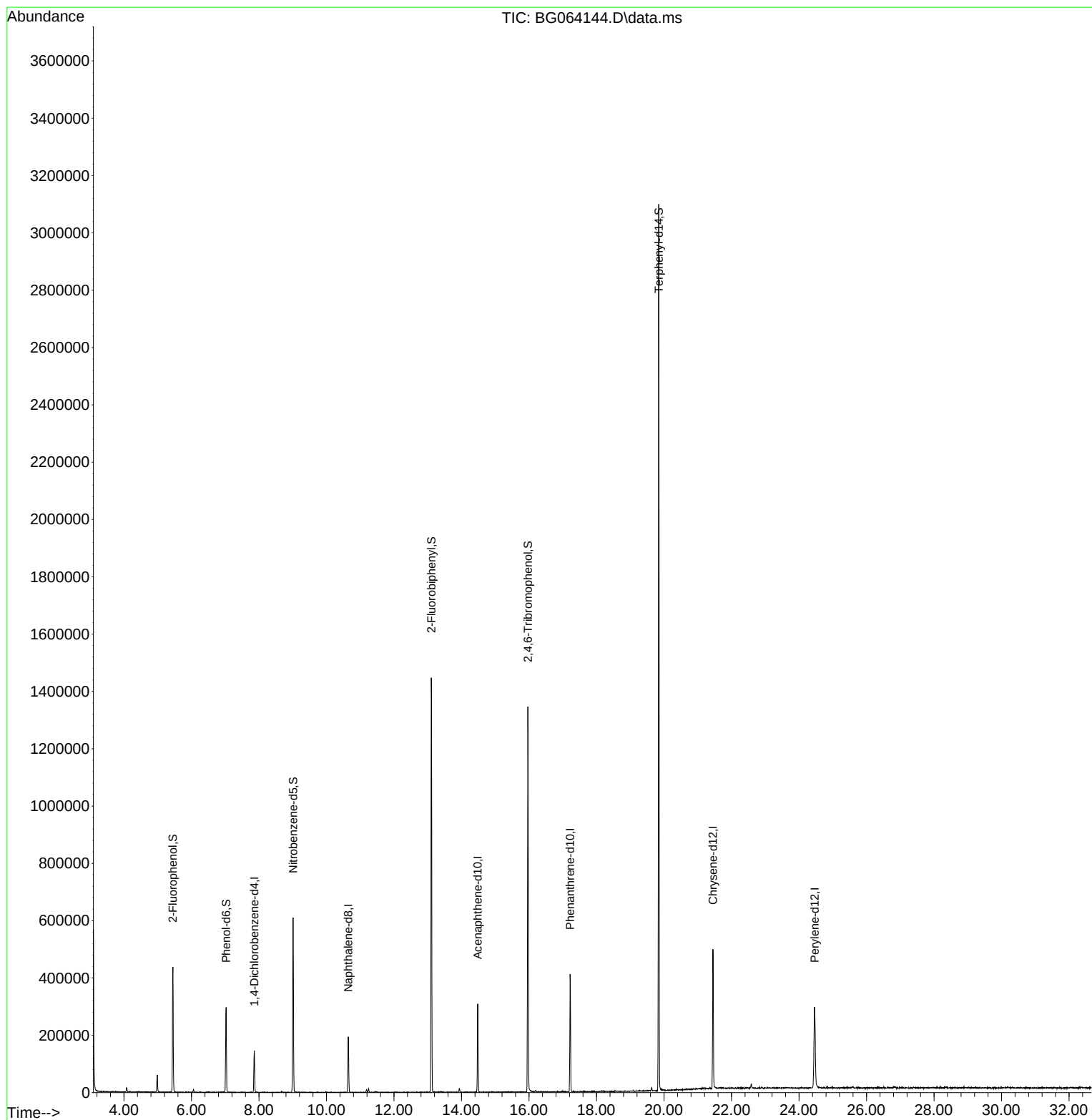
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

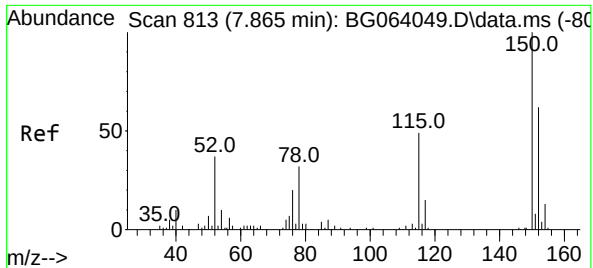
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064144.D  
Acq On : 1 Apr 2025 21:06  
Operator : RC/JU  
Sample : Q1664-22  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-008-01

Quant Time: Apr 02 01:36:42 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

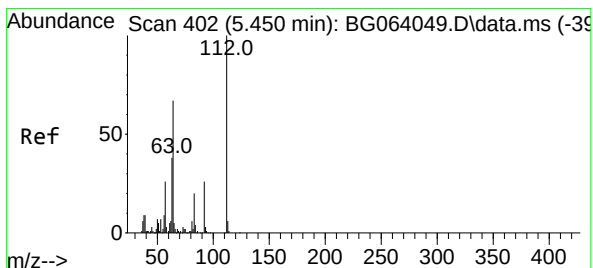
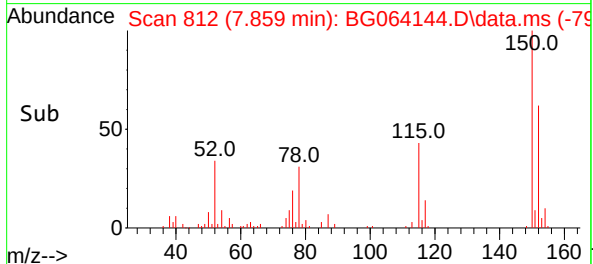
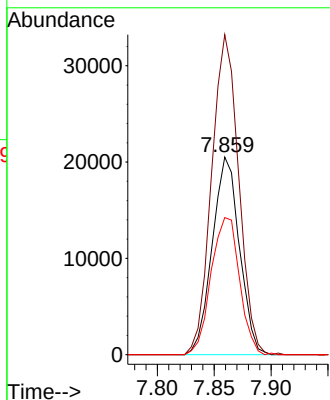
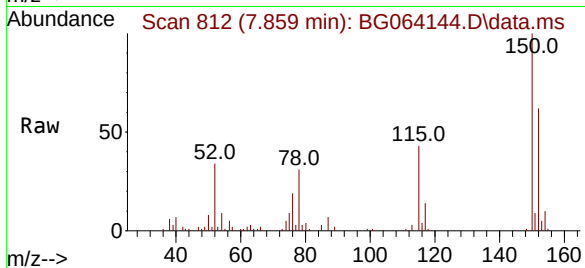




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.859 min Scan# 813  
Delta R.T. -0.006 min  
Lab File: BG064144.D  
Acq: 1 Apr 2025 21:06

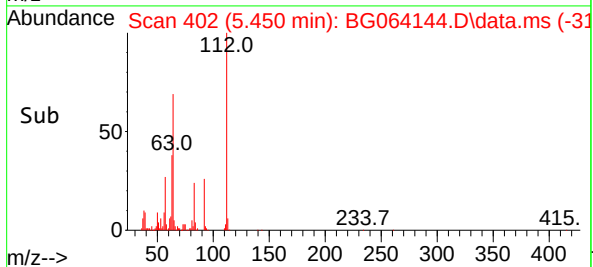
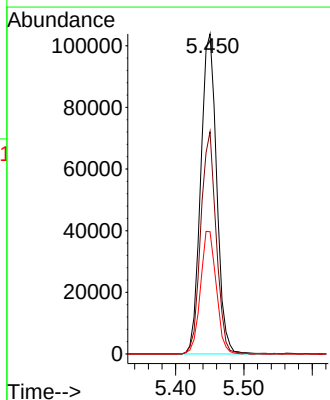
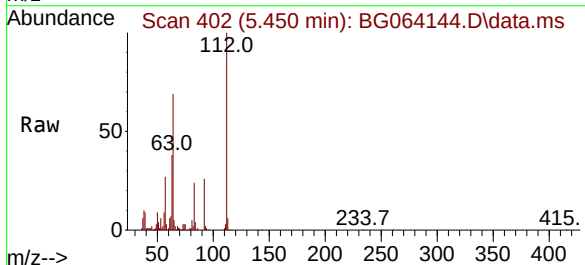
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-008-01

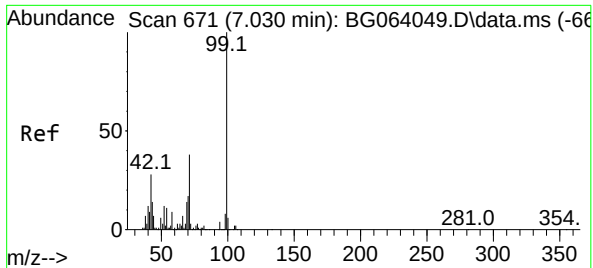
Tgt Ion:152 Resp: 34102  
Ion Ratio Lower Upper  
152 100  
150 161.9 129.2 193.8  
115 69.4 63.0 94.6



#5  
2-Fluorophenol  
Concen: 77.287 ng  
RT: 5.450 min Scan# 402  
Delta R.T. 0.000 min  
Lab File: BG064144.D  
Acq: 1 Apr 2025 21:06

Tgt Ion:112 Resp: 168794  
Ion Ratio Lower Upper  
112 100  
64 69.5 53.7 80.5  
63 38.2 30.2 45.4

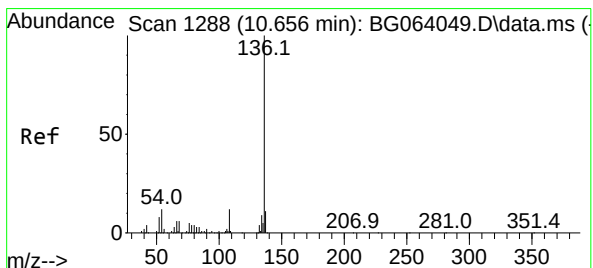
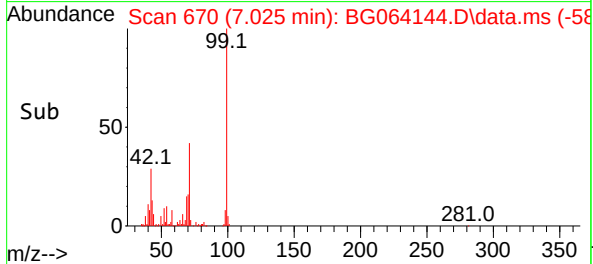
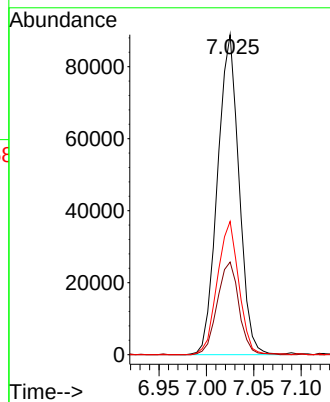
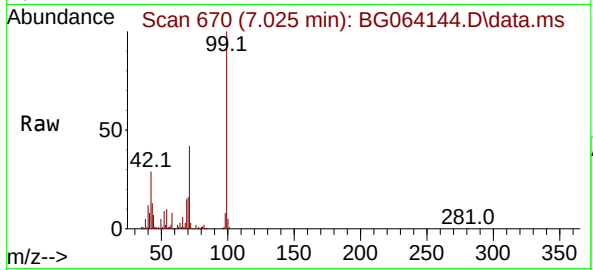




#7  
Phenol-d6  
Concen: 47.217 ng  
RT: 7.025 min Scan# 61  
Delta R.T. -0.005 min  
Lab File: BG064144.D  
Acq: 1 Apr 2025 21:06

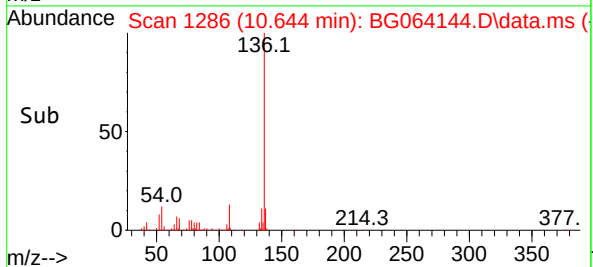
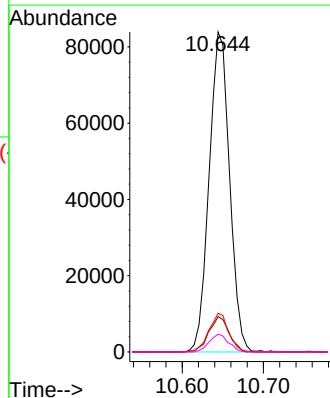
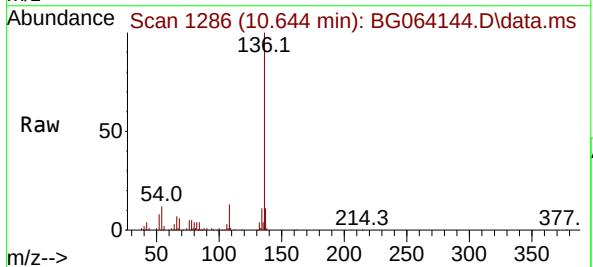
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-008-01

Tgt Ion: 99 Resp: 140285  
Ion Ratio Lower Upper  
99 100  
42 28.9 22.7 34.1  
71 41.7 30.6 46.0

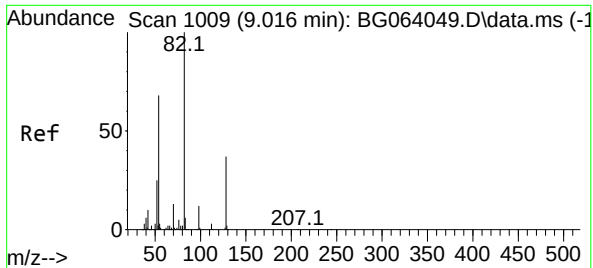


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.644 min Scan# 1286  
Delta R.T. -0.012 min  
Lab File: BG064144.D  
Acq: 1 Apr 2025 21:06

Tgt Ion:136 Resp: 146359  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.5 12.7  
54 12.0 9.9 14.9  
68 5.6 4.6 6.8







#23

Nitrobenzene-d5

Concen: 118.942 ng

RT: 9.011 min Scan# 1009

Delta R.T. -0.006 min

Lab File: BG064144.D

Acq: 1 Apr 2025 21:06

Instrument :

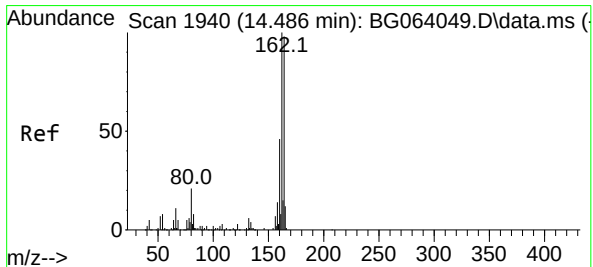
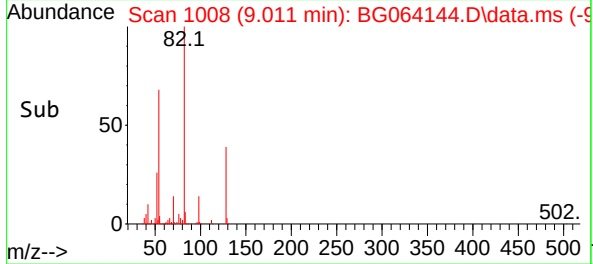
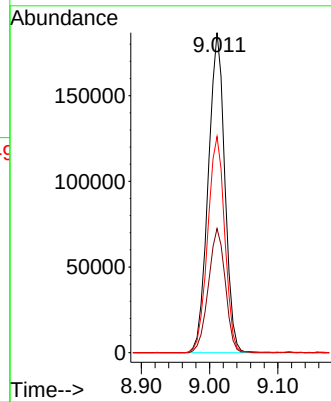
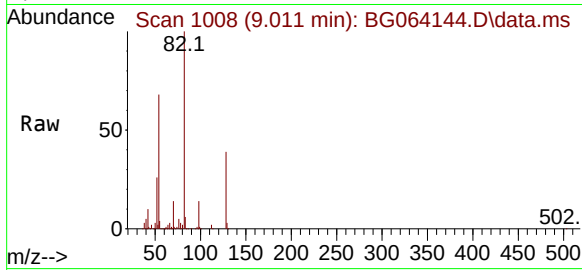
BNA\_G

ClientSampleId :

P001-BBDGA-008-01

Tgt Ion: 82 Resp: 315012

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 38.8  | 30.0  | 45.0  |
| 54  | 67.6  | 54.7  | 82.1  |



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.481 min Scan# 1939

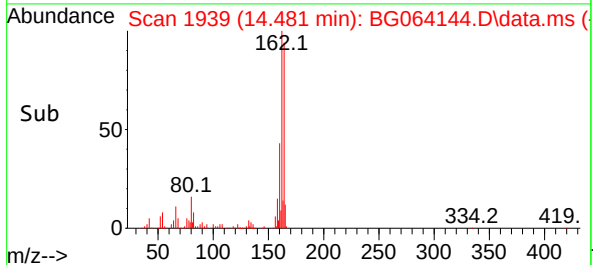
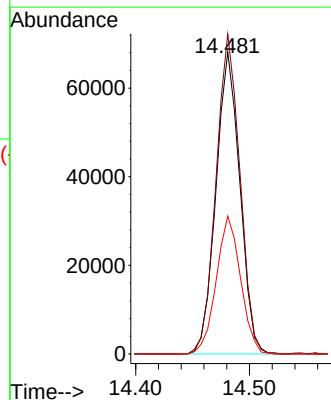
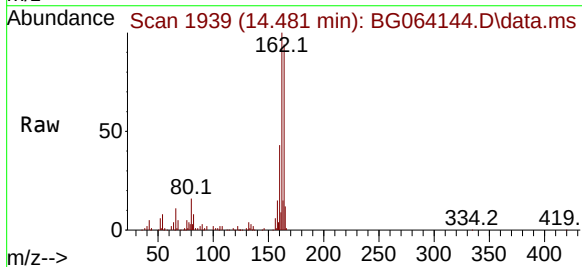
Delta R.T. -0.005 min

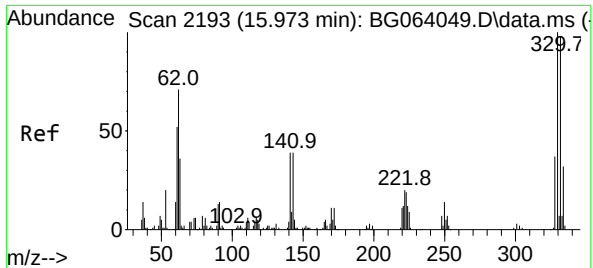
Lab File: BG064144.D

Acq: 1 Apr 2025 21:06

Tgt Ion:164 Resp: 99405

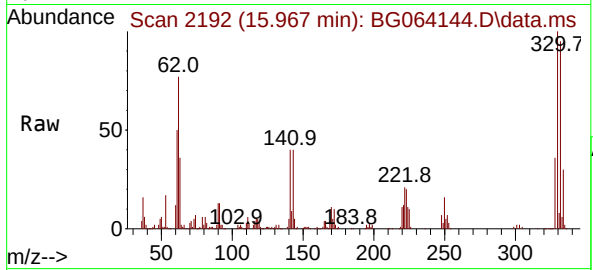
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 106.0 | 81.4  | 122.0 |
| 160 | 45.7  | 37.0  | 55.6  |



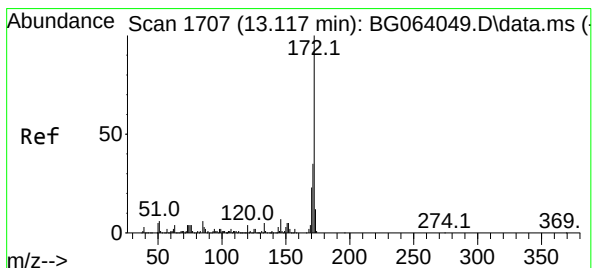
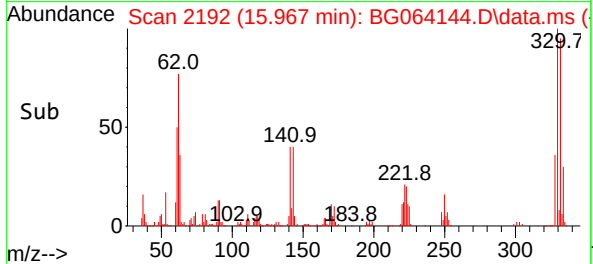
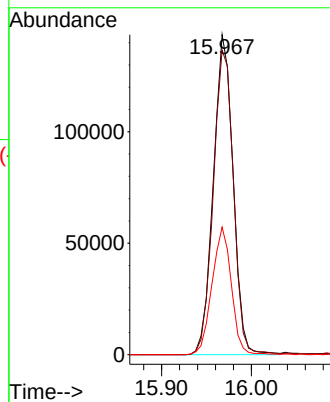


#42  
2,4,6-Tribromophenol  
Concen: 198.565 ng  
RT: 15.967 min Scan# 2192  
Delta R.T. -0.005 min  
Lab File: BG064144.D  
Acq: 1 Apr 2025 21:06

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-008-01

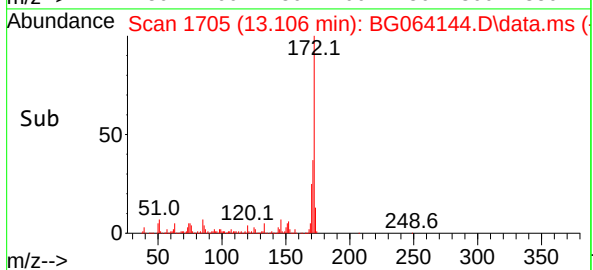
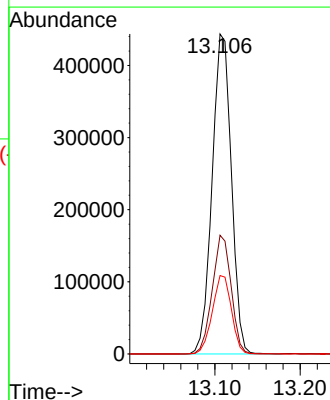
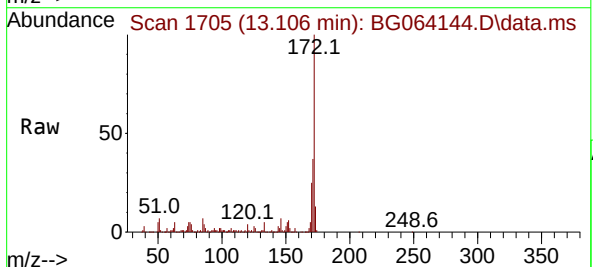


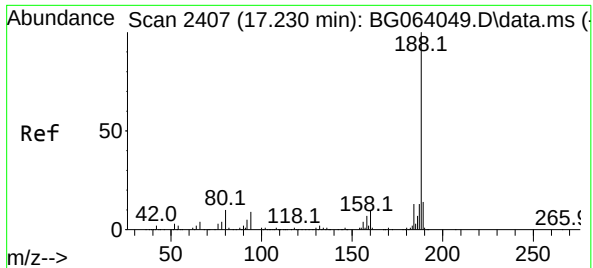
Tgt Ion:330 Resp: 219406  
Ion Ratio Lower Upper  
330 100  
332 97.5 76.7 115.1  
141 39.0 29.7 44.5



#45  
2-Fluorobiphenyl  
Concen: 106.427 ng  
RT: 13.106 min Scan# 1705  
Delta R.T. -0.011 min  
Lab File: BG064144.D  
Acq: 1 Apr 2025 21:06

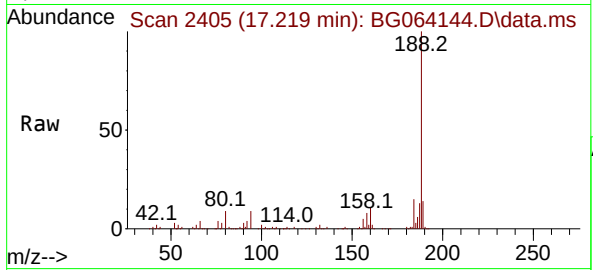
Tgt Ion:172 Resp: 696984  
Ion Ratio Lower Upper  
172 100  
171 37.1 28.0 42.0  
170 24.5 18.7 28.1



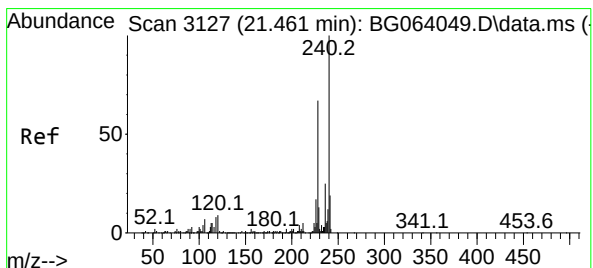
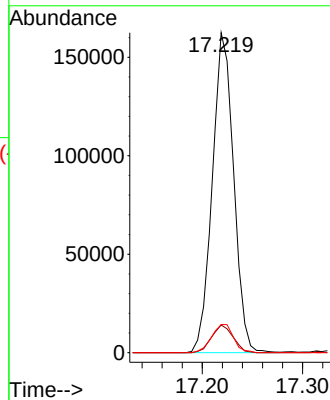
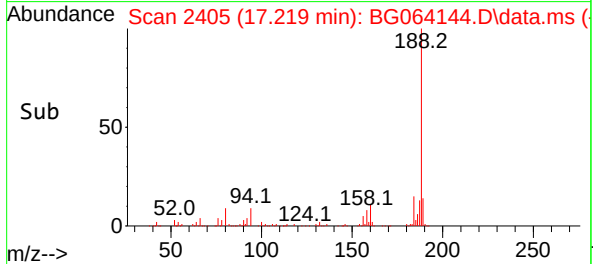


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.219 min Scan# 2405  
Delta R.T. -0.011 min  
Lab File: BG064144.D  
Acq: 1 Apr 2025 21:06

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-008-01

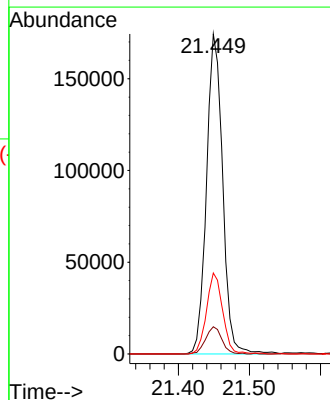
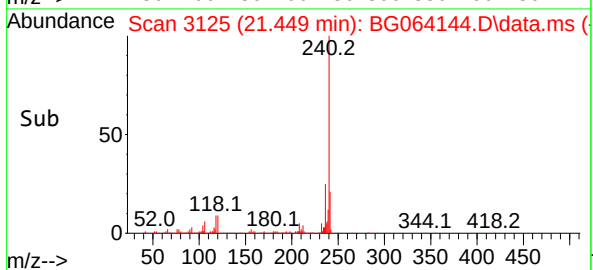
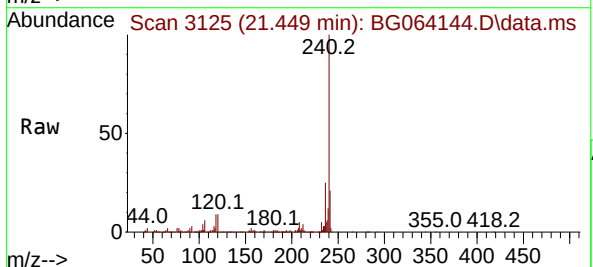


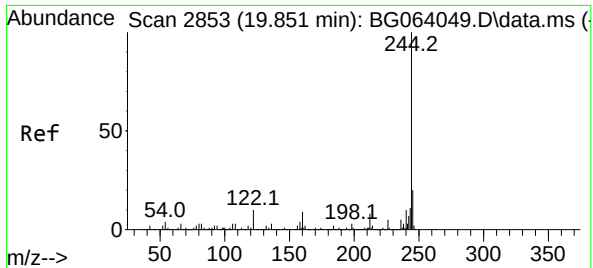
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Ion Ratio Lower Upper  
188 100  
94 8.7 6.9 10.3  
80 8.8 8.1 12.1



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.449 min Scan# 3125  
Delta R.T. -0.011 min  
Lab File: BG064144.D  
Acq: 1 Apr 2025 21:06

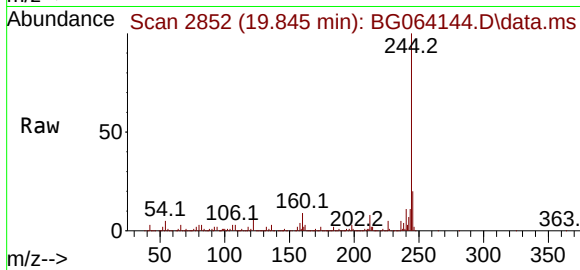
Tgt Ion:240 Resp: 275927  
Ion Ratio Lower Upper  
240 100  
120 8.5 7.2 10.8  
236 25.3 20.2 30.2



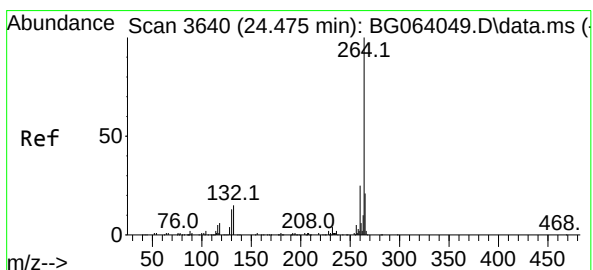
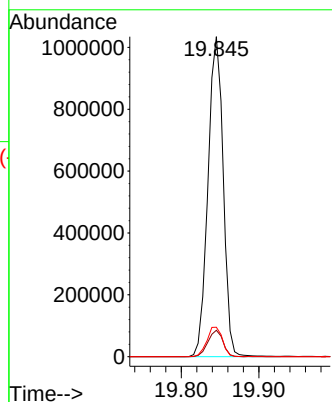
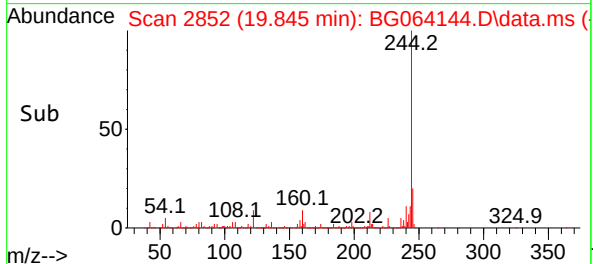


#79  
Terphenyl-d14  
Concen: 103.255 ng  
RT: 19.845 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BG064144.D  
Acq: 1 Apr 2025 21:06

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-008-01

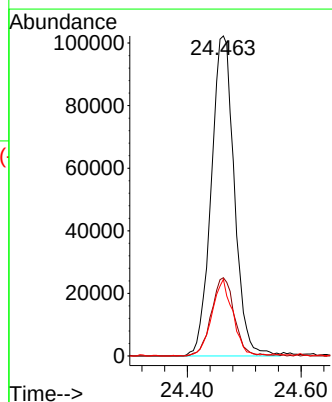
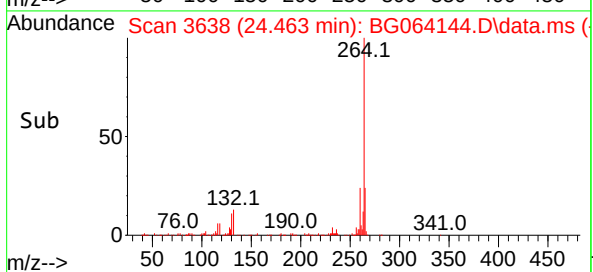
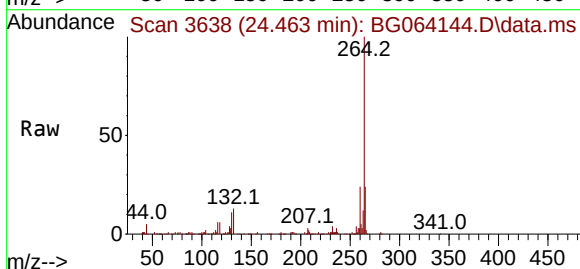


Tgt Ion:244 Resp: 1409042  
Ion Ratio Lower Upper  
244 100  
212 8.3 6.2 9.4  
122 9.2 8.0 12.0



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.463 min Scan# 3638  
Delta R.T. -0.011 min  
Lab File: BG064144.D  
Acq: 1 Apr 2025 21:06

Tgt Ion:264 Resp: 287353  
Ion Ratio Lower Upper  
264 100  
260 24.5 19.6 29.4  
265 24.0 16.6 25.0





# CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\  
 Method File : 8270-BG030525.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Wed Mar 05 15:39:19 2025  
 Response Via : Initial Calibration

## Calibration Files

2.5 =BG064045.D 5 =BG064046.D 10 =BG064047.D 20 =BG064048.D 40 =BG064049.D 50 =BG064050.D 60 =BG064051.D 80 =BG064052.D

| Compound |                       | 2.5            | 5     | 10    | 20    | 40    | 50    | 60    | 80    | Avg   | %RSD |
|----------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| -----    |                       |                |       |       |       |       |       |       |       |       |      |
| 1) I     | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |       |      |
| 2)       | 1,4-Dioxane           | 0.598          | 0.605 | 0.624 | 0.585 | 0.559 | 0.539 | 0.554 | 0.580 | 5.31  |      |
| 3)       | Pyridine              | 1.450          | 1.445 | 1.452 | 1.573 | 1.338 | 1.376 | 1.248 | 1.412 | 7.30  |      |
| 4)       | n-Nitrosodimet...     | 0.892          | 0.976 | 1.017 | 1.064 | 0.996 | 1.047 | 1.068 | 1.009 | 6.16  |      |
| 5) S     | 2-Fluorophenol        | 1.165          | 1.240 | 1.330 | 1.350 | 1.259 | 1.318 | 1.304 | 1.281 | 5.00  |      |
| 6)       | Aniline               | 1.593          | 1.670 | 1.825 | 1.820 | 1.642 | 1.748 | 1.671 | 1.710 | 5.24  |      |
| 7) S     | Phenol-d6             | 1.580          | 1.631 | 1.794 | 1.848 | 1.703 | 1.839 | 1.803 | 1.742 | 6.09  |      |
| 8)       | 2-Chlorophenol        | 1.262          | 1.337 | 1.412 | 1.446 | 1.333 | 1.420 | 1.420 | 1.376 | 4.80  |      |
| 9)       | Benzaldehyde          | 1.111          | 1.122 | 1.133 | 1.003 | 0.860 | 0.850 |       | 1.013 | 12.94 |      |
| 10) C    | Phenol                | 1.590          | 1.693 | 1.826 | 1.881 | 1.752 | 1.900 | 1.846 | 1.784 | 6.30  |      |
| 11)      | bis(2-Chloroet...     | 1.375          | 1.444 | 1.424 | 1.415 | 1.322 | 1.418 | 1.394 | 1.399 | 2.88  |      |
| 12)      | 1,3-Dichlorobe...     | 1.523          | 1.539 | 1.501 | 1.546 | 1.438 | 1.519 | 1.508 | 1.511 | 2.36  |      |
| 13) C    | 1,4-Dichlorobe...     | 1.548          | 1.546 | 1.607 | 1.592 | 1.478 | 1.536 | 1.532 | 1.548 | 2.72  |      |
| 14)      | 1,2-Dichlorobe...     | 1.488          | 1.464 | 1.543 | 1.519 | 1.416 | 1.525 | 1.497 | 1.493 | 2.88  |      |
| 15)      | Benzyl Alcohol        | 1.115          | 1.249 | 1.343 | 1.436 | 1.358 | 1.467 | 1.457 | 1.346 | 9.50  |      |
| 16)      | 2,2'-oxybis(1-...     | 3.064          | 3.024 | 3.209 | 3.282 | 2.996 | 3.218 | 3.222 | 3.145 | 3.61  |      |
| 17)      | 2-Methylphenol        | 1.015          | 1.116 | 1.177 | 1.268 | 1.171 | 1.269 | 1.271 | 1.184 | 8.11  |      |
| 18)      | Hexachloroethane      | 0.489          | 0.519 | 0.520 | 0.577 | 0.526 | 0.581 | 0.580 | 0.542 | 6.88  |      |
| 19) P    | n-Nitroso-di-n...     | 1.146          | 1.095 | 1.157 | 1.282 | 1.323 | 1.189 | 1.322 | 1.268 | 1.223 | 7.13 |
| 20)      | 3+4-Methylphenols     | 1.402          | 1.518 | 1.638 | 1.706 | 1.612 | 1.804 | 1.729 | 1.630 | 8.34  |      |
|          |                       |                |       |       |       |       |       |       |       |       |      |
| 21) I    | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |      |
| 22)      | Acetophenone          | 0.522          | 0.525 | 0.580 | 0.563 | 0.546 | 0.561 | 0.543 | 0.548 | 3.82  |      |
| 23) S    | Nitrobenzene-d5       | 0.290          | 0.300 | 0.360 | 0.385 | 0.390 | 0.400 | 0.409 | 0.362 | 13.32 |      |
| 24)      | Nitrobenzene          | 0.298          | 0.320 | 0.390 | 0.397 | 0.396 | 0.409 | 0.409 | 0.374 | 12.20 |      |
| 25)      | Isophorone            | 0.709          | 0.672 | 0.744 | 0.745 | 0.717 | 0.757 | 0.727 | 0.724 | 3.93  |      |
| 26) C    | 2-Nitrophenol         | 0.067          | 0.079 | 0.096 | 0.122 | 0.130 | 0.141 | 0.147 | 0.112 | 28.03 |      |
| 27)      | 2,4-Dimethylph...     | 0.194          | 0.187 | 0.221 | 0.228 | 0.221 | 0.239 | 0.229 | 0.217 | 8.82  |      |
| 28)      | bis(2-Chloroet...     | 0.424          | 0.417 | 0.468 | 0.443 | 0.427 | 0.449 | 0.445 | 0.439 | 4.03  |      |
| 29) C    | 2,4-Dichloroph...     | 0.222          | 0.239 | 0.281 | 0.287 | 0.290 | 0.301 | 0.298 | 0.274 | 11.22 |      |
| 30)      | 1,2,4-Trichlor...     | 0.323          | 0.317 | 0.343 | 0.332 | 0.336 | 0.335 | 0.332 | 0.331 | 2.54  |      |
| 31)      | Naphthalene           | 1.078          | 1.043 | 1.114 | 1.079 | 1.061 | 1.097 | 1.077 | 1.078 | 2.13  |      |
| 32)      | Benzoic acid          |                | 0.078 | 0.139 | 0.172 | 0.191 | 0.217 | 0.220 | 0.170 | 31.75 |      |
| 33)      | 4-Chloroaniline       | 0.355          | 0.364 | 0.407 | 0.416 | 0.394 | 0.419 | 0.404 | 0.394 | 6.46  |      |
| 34) C    | Hexachlorobuta...     | 0.208          | 0.213 | 0.225 | 0.219 | 0.216 | 0.220 | 0.218 | 0.217 | 2.55  |      |
| 35)      | Caprolactam           | 0.086          | 0.091 | 0.112 | 0.110 | 0.113 | 0.112 | 0.111 | 0.105 | 10.78 |      |
| 36) C    | 4-Chloro-3-met...     | 0.293          | 0.330 | 0.379 | 0.373 | 0.373 | 0.390 | 0.376 | 0.359 | 9.67  |      |
| 37)      | 2-Methylnaphth...     | 0.775          | 0.727 | 0.788 | 0.763 | 0.746 | 0.779 | 0.751 | 0.761 | 2.80  |      |
| 38)      | 1-Methylnaphth...     | 0.745          | 0.728 | 0.771 | 0.753 | 0.724 | 0.768 | 0.733 | 0.746 | 2.53  |      |

Method Path : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\  
 Method File : 8270-BG030525.M

|       |                   |                |       |       |       |       |       |       |       |       |  |
|-------|-------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 39) I | Acenaphthene-d10  | -----ISTD----- |       |       |       |       |       |       |       |       |  |
| 40)   | 1,2,4,5-Tetrac... | 0.547          | 0.584 | 0.592 | 0.586 | 0.560 | 0.562 | 0.566 | 0.571 | 2.88  |  |
| 41) P | Hexachlorocycl... | 0.123          | 0.128 | 0.161 | 0.175 | 0.175 | 0.180 | 0.183 | 0.161 | 15.44 |  |
| 42) S | 2,4,6-Tribromo... | 0.166          | 0.191 | 0.226 | 0.241 | 0.241 | 0.250 | 0.241 | 0.222 | 14.12 |  |
| 43) C | 2,4,6-Trichlor... | 0.268          | 0.293 | 0.341 | 0.358 | 0.362 | 0.368 | 0.366 | 0.337 | 11.89 |  |
| 44)   | 2,4,5-Trichlor... | 0.284          | 0.330 | 0.381 | 0.406 | 0.396 | 0.407 | 0.413 | 0.374 | 12.98 |  |
| 45) S | 2-Fluorobiphenyl  | 1.369          | 1.310 | 1.359 | 1.368 | 1.283 | 1.284 | 1.251 | 1.318 | 3.62  |  |
| 46)   | 1,1'-Biphenyl     | 1.506          | 1.499 | 1.572 | 1.538 | 1.475 | 1.512 | 1.475 | 1.511 | 2.29  |  |
| 47)   | 2-Chloronaphth... | 1.086          | 1.075 | 1.100 | 1.127 | 1.102 | 1.121 | 1.103 | 1.102 | 1.63  |  |
| 48)   | 2-Nitroaniline    | 0.197          | 0.231 | 0.277 | 0.348 | 0.368 | 0.396 | 0.408 | 0.318 | 26.14 |  |
| 49)   | Acenaphthylene    | 1.714          | 1.677 | 1.793 | 1.789 | 1.735 | 1.777 | 1.717 | 1.743 | 2.53  |  |
| 50)   | Dimethylphthalate | 1.432          | 1.401 | 1.559 | 1.520 | 1.463 | 1.508 | 1.452 | 1.476 | 3.73  |  |
| 51)   | 2,6-Dinitrotol... | 0.158          | 0.200 | 0.262 | 0.292 | 0.300 | 0.307 | 0.308 | 0.261 | 22.73 |  |
| 52) C | Acenaphthene      | 1.165          | 1.148 | 1.231 | 1.187 | 1.159 | 1.171 | 1.128 | 1.170 | 2.77  |  |
| 53)   | 3-Nitroaniline    | 0.190          | 0.228 | 0.298 | 0.316 | 0.313 | 0.329 | 0.323 | 0.285 | 18.96 |  |
| 54) P | 2,4-Dinitrophenol |                | 0.066 | 0.084 | 0.100 | 0.111 | 0.121 | 0.129 | 0.102 | 23.25 |  |
| 55)   | Dibenzofuran      | 1.926          | 1.881 | 1.976 | 1.941 | 1.853 | 1.864 | 1.826 | 1.895 | 2.84  |  |
| 56) P | 4-Nitrophenol     |                | 0.164 | 0.200 | 0.257 | 0.280 | 0.270 | 0.265 | 0.239 | 19.47 |  |
| 57)   | 2,4-Dinitrotol... | 0.225          | 0.255 | 0.344 | 0.404 | 0.418 | 0.426 | 0.424 | 0.357 | 23.78 |  |
| 58)   | Fluorene          | 1.555          | 1.450 | 1.542 | 1.478 | 1.452 | 1.460 | 1.395 | 1.476 | 3.79  |  |
| 59)   | 2,3,4,6-Tetrac... | 0.262          | 0.326 | 0.388 | 0.395 | 0.385 | 0.402 | 0.393 | 0.365 | 14.21 |  |
| 60)   | Diethylphthalate  | 1.496          | 1.501 | 1.709 | 1.669 | 1.624 | 1.637 | 1.584 | 1.603 | 5.06  |  |
| 61)   | 4-Chlorophenyl... | 0.754          | 0.744 | 0.788 | 0.735 | 0.712 | 0.721 | 0.681 | 0.733 | 4.61  |  |
| 62)   | 4-Nitroaniline    | 0.213          | 0.263 | 0.313 | 0.345 | 0.351 | 0.339 | 0.333 | 0.308 | 16.67 |  |
| 63)   | Azobenzene        | 1.734          | 1.645 | 1.785 | 1.758 | 1.700 | 1.705 | 1.644 | 1.710 | 3.13  |  |
| 64) I | Phenanthrene-d10  | -----ISTD----- |       |       |       |       |       |       |       |       |  |
| 65)   | 4,6-Dinitro-2-... |                | 0.050 | 0.059 | 0.075 | 0.082 | 0.092 | 0.096 | 0.076 | 24.31 |  |
| 66) c | n-Nitrosodiphe... | 0.558          | 0.551 | 0.582 | 0.578 | 0.558 | 0.571 | 0.565 | 0.566 | 2.06  |  |
| 67)   | 4-Bromophenyl-... | 0.186          | 0.195 | 0.212 | 0.210 | 0.200 | 0.217 | 0.213 | 0.205 | 5.61  |  |
| 68)   | Hexachlorobenzene | 0.227          | 0.226 | 0.236 | 0.229 | 0.228 | 0.229 | 0.230 | 0.229 | 1.45  |  |
| 69)   | Atrazine          | 0.175          | 0.190 | 0.179 | 0.160 | 0.129 |       |       | 0.167 | 14.34 |  |
| 70) C | Pentachlorophenol |                | 0.105 | 0.128 | 0.149 | 0.151 | 0.159 | 0.163 | 0.142 | 15.58 |  |
| 71)   | Phenanthrene      | 1.084          | 1.034 | 1.110 | 1.080 | 1.054 | 1.059 | 1.047 | 1.067 | 2.44  |  |
| 72)   | Anthracene        | 1.024          | 1.041 | 1.104 | 1.085 | 1.055 | 1.065 | 1.051 | 1.061 | 2.55  |  |
| 73)   | Carbazole         | 0.949          | 0.988 | 1.020 | 1.027 | 1.007 | 0.986 | 0.956 | 0.990 | 3.02  |  |
| 74)   | Di-n-butylphth... | 0.932          | 1.095 | 1.213 | 1.257 | 1.236 | 1.219 | 1.208 | 1.166 | 9.90  |  |
| 75) C | Fluoranthene      | 1.272          | 1.315 | 1.336 | 1.318 | 1.298 | 1.243 | 1.221 | 1.286 | 3.31  |  |
| 76) I | Chrysene-d12      | -----ISTD----- |       |       |       |       |       |       |       |       |  |
| 77)   | Benzidine         | 0.221          | 0.400 | 0.238 | 0.313 | 0.195 | 0.299 | 0.271 | 0.277 | 24.80 |  |
| 78)   | Pyrene            | 1.251          | 1.287 | 1.350 | 1.310 | 1.254 | 1.290 | 1.282 | 1.289 | 2.63  |  |
| 79) S | Terphenyl-d14     | 1.011          | 1.024 | 1.062 | 0.999 | 0.944 | 0.957 | 0.927 | 0.989 | 4.88  |  |
| 80)   | Butylbenzylpht... | 0.285          | 0.331 | 0.405 | 0.465 | 0.473 | 0.503 | 0.502 | 0.423 | 20.44 |  |
| 81)   | Benzo(a)anthra... | 1.217          | 1.268 | 1.310 | 1.303 | 1.275 | 1.309 | 1.286 | 1.281 | 2.54  |  |
| 82)   | 3,3'-Dichlorob... | 0.350          | 0.396 | 0.444 | 0.450 | 0.416 | 0.436 | 0.411 | 0.415 | 8.27  |  |
| 83)   | Chrysene          | 1.281          | 1.233 | 1.308 | 1.306 | 1.263 | 1.301 | 1.252 | 1.278 | 2.29  |  |
| 84)   | Bis(2-ethylhex... | 0.504          | 0.582 | 0.685 | 0.757 | 0.751 | 0.789 | 0.782 | 0.693 | 15.90 |  |
| 85) c | Di-n-octyl pht... |                | 0.892 | 1.108 | 1.239 | 1.256 | 1.339 | 1.338 | 1.195 | 14.31 |  |

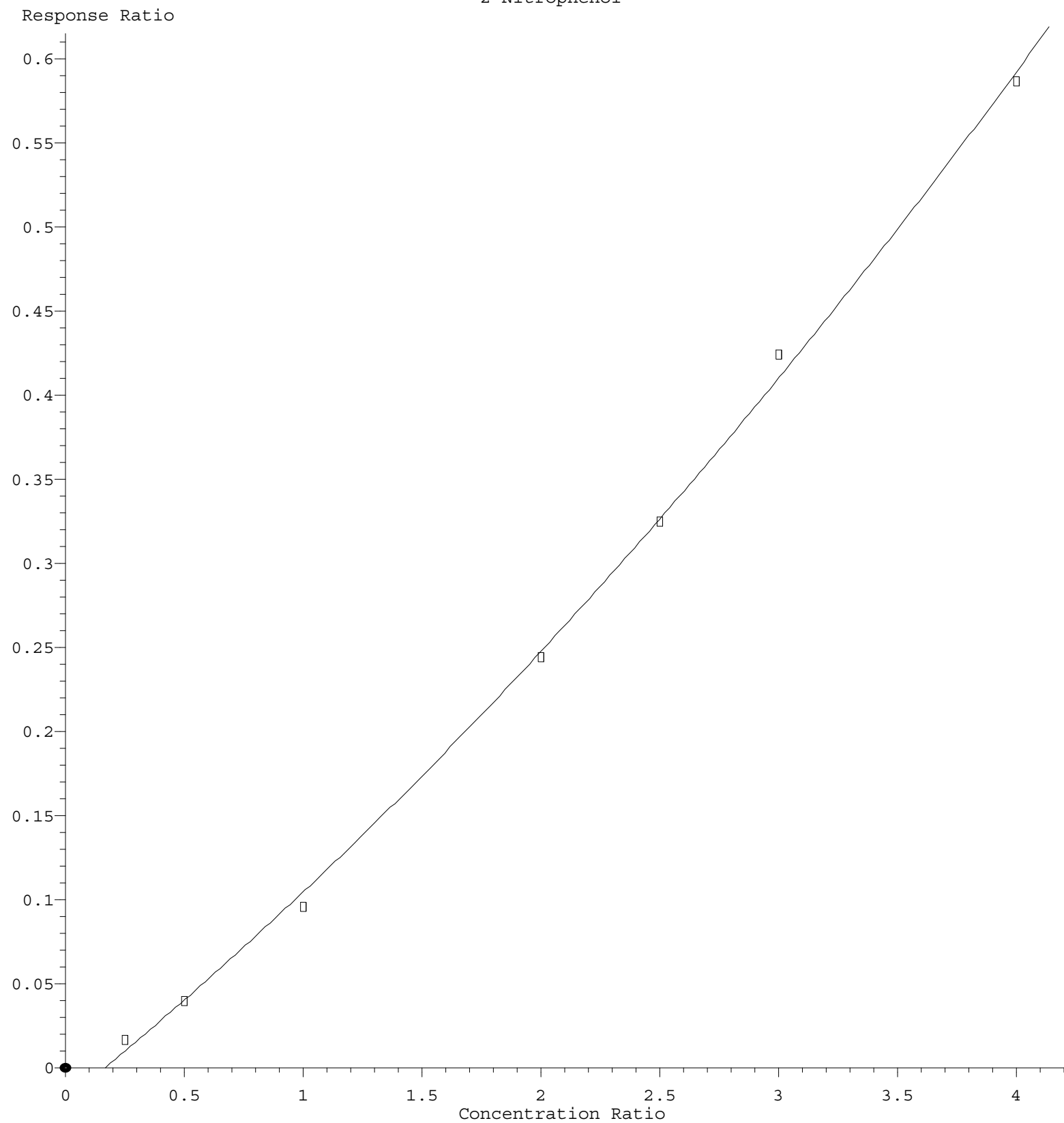
Method Path : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\  
Method File : 8270-BG030525.M

|       |                   |                |       |       |       |       |       |       |       |      |
|-------|-------------------|----------------|-------|-------|-------|-------|-------|-------|-------|------|
| 86) I | Perylene-d12      | -----ISTD----- |       |       |       |       |       |       |       |      |
| 87)   | Indeno(1,2,3-c... | 1.223          | 1.232 | 1.408 | 1.376 | 1.354 | 1.381 | 1.394 | 1.338 | 5.80 |
| 88)   | Benzo(b)fluora... | 1.150          | 1.146 | 1.269 | 1.216 | 1.232 | 1.215 | 1.236 | 1.209 | 3.76 |
| 89)   | Benzo(k)fluora... | 1.111          | 1.189 | 1.281 | 1.255 | 1.205 | 1.234 | 1.215 | 1.213 | 4.49 |
| 90) C | Benzo(a)pyrene    | 0.993          | 1.022 | 1.124 | 1.107 | 1.106 | 1.092 | 1.093 | 1.077 | 4.57 |
| 91)   | Dibenzo(a,h)an... | 1.029          | 1.036 | 1.151 | 1.133 | 1.134 | 1.123 | 1.160 | 1.109 | 4.86 |
| 92)   | Benzo(g,h,i)pe... | 1.049          | 1.093 | 1.208 | 1.152 | 1.146 | 1.155 | 1.168 | 1.139 | 4.58 |

-----  
(#) = Out of Range



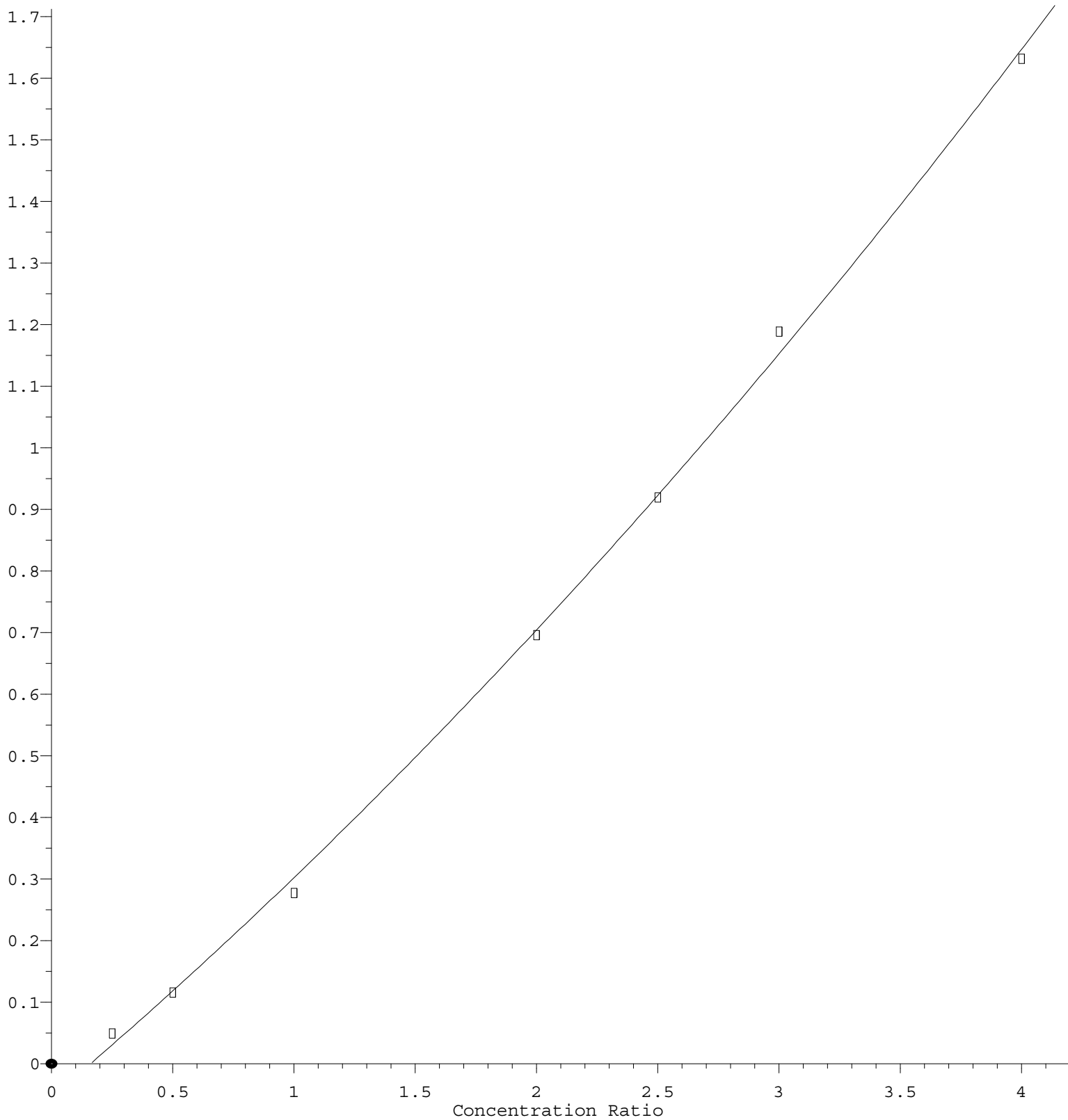
# 2-Nitrophenol



$R = 9.766e-003 A^2 + 1.137e-001 A - 1.893e-002$   
 Coef of Det ( $r^2$ ) = 0.998666    Curve Fit: Quadratic  
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030525.M  
 Calibration Table Last Updated: Wed Mar 05 15:39:19 2025

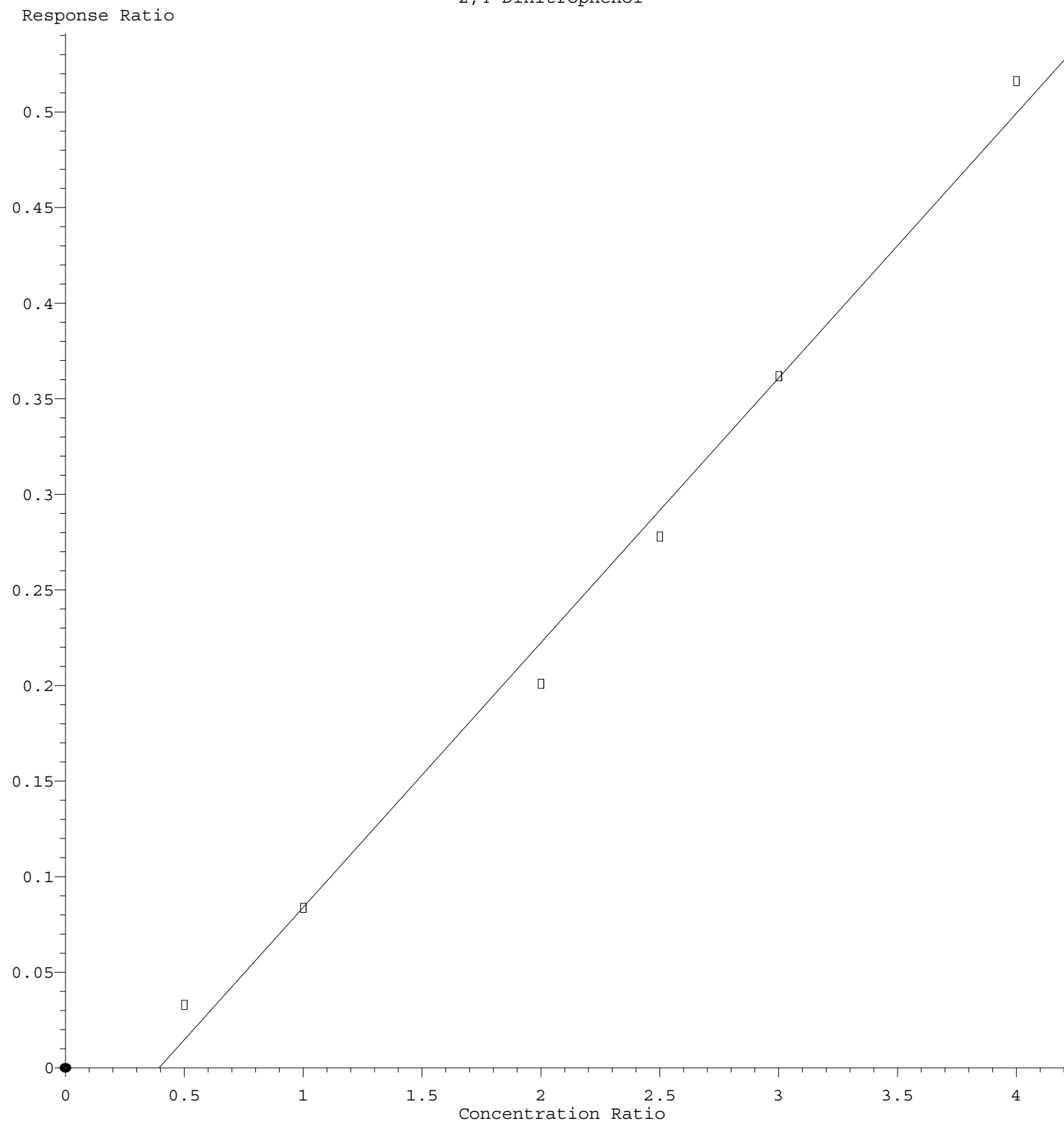
## 2-Nitroaniline

Response Ratio



$R = 2.299e-002 A^2 + 3.333e-001 A - 5.414e-002$   
Coef of Det ( $r^2$ ) = 0.998770    Curve Fit: Quadratic  
Method Name:    Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030525.M  
Calibration Table Last Updated: Wed Mar 05 15:39:19 2025

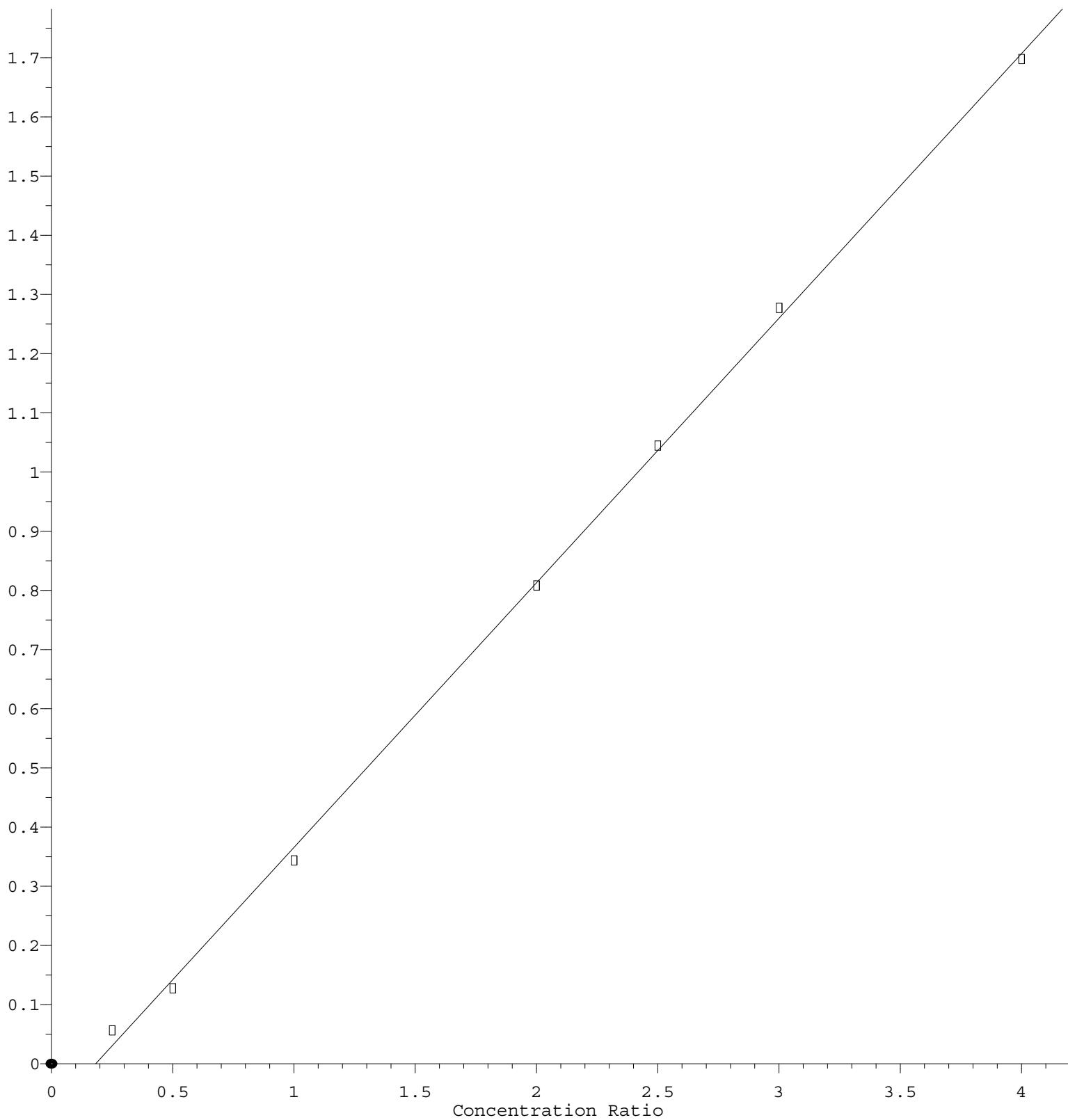
# 2,4-Dinitrophenol



Response = 1.385e-001 \* Amt - 5.459e-002  
 Coef of Det (r^2) = 0.992124    Curve Fit: Linear  
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030525.M  
 Calibration Table Last Updated: Wed Mar 05 15:39:19 2025

## 2,4-Dinitrotoluene

Response Ratio



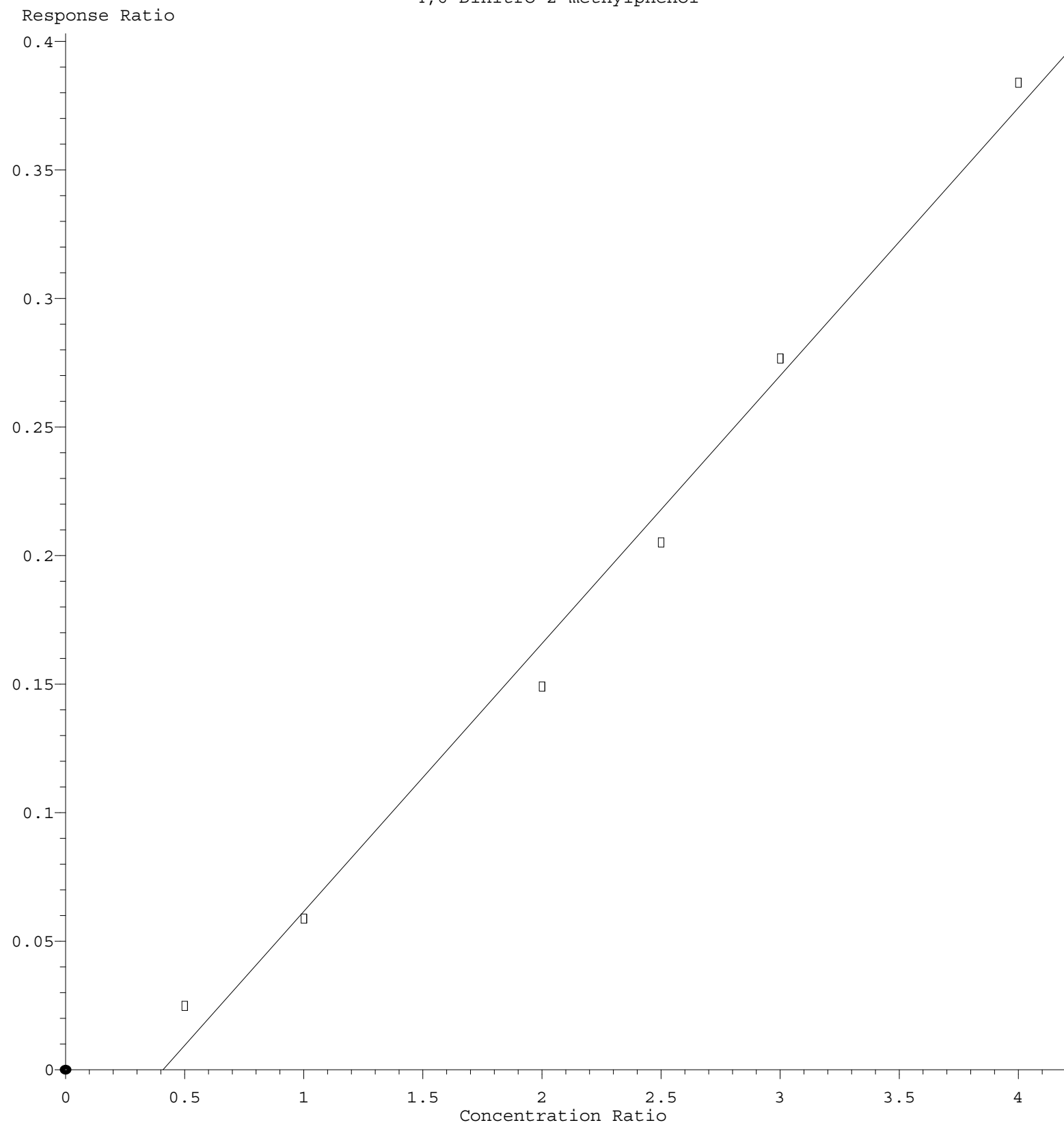
$$\text{Response} = 4.472\text{e-}001 * \text{Amt} - 8.152\text{e-}002$$

Coef of Det ( $r^2$ ) = 0.999194 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030525.M

Calibration Table Last Updated: Wed Mar 05 15:39:19 2025

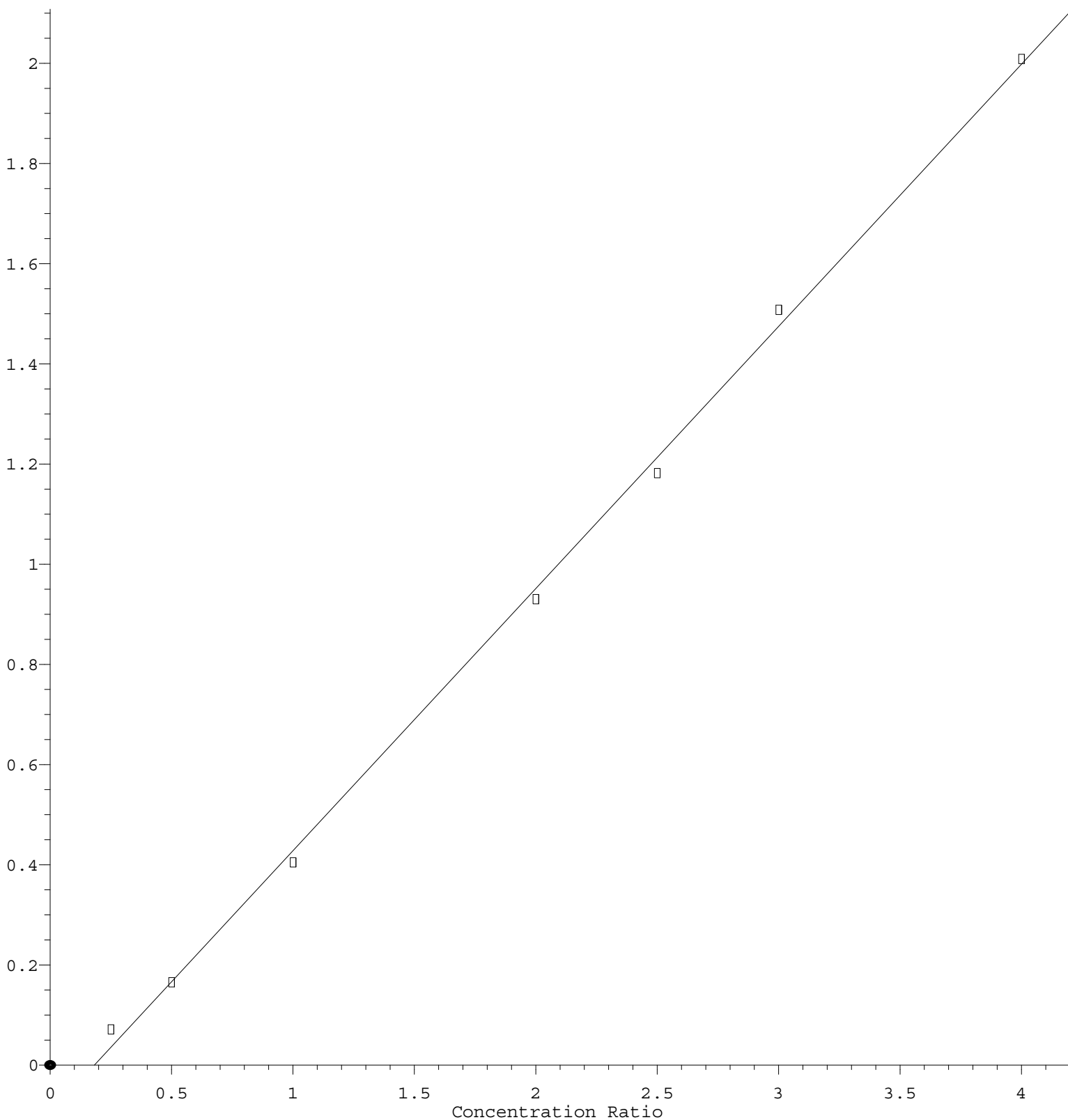
## 4,6-Dinitro-2-methylphenol



Response =  $1.041\text{e-}001 * \text{Amt} - 4.259\text{e-}002$   
Coef of Det ( $r^2$ ) = 0.990937 Curve Fit: Linear  
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030525.M  
Calibration Table Last Updated: Wed Mar 05 15:39:19 2025

# Butylbenzylphthalate

Response Ratio



$$\text{Response} = 5.234\text{e-}001 * \text{Amt} - 9.520\text{e-}002$$

Coef of Det ( $r^2$ ) = 0.998592 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030525.M

Calibration Table Last Updated: Wed Mar 05 15:39:19 2025

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064045.D  
 Acq On : 5 Mar 2025 9:02  
 Operator : RC/JU  
 Sample : SSTDICC2.5  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTDICC2.5

Quant Time: Mar 05 15:19:54 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 14:45:06 2025  
 Response via : Initial Calibration

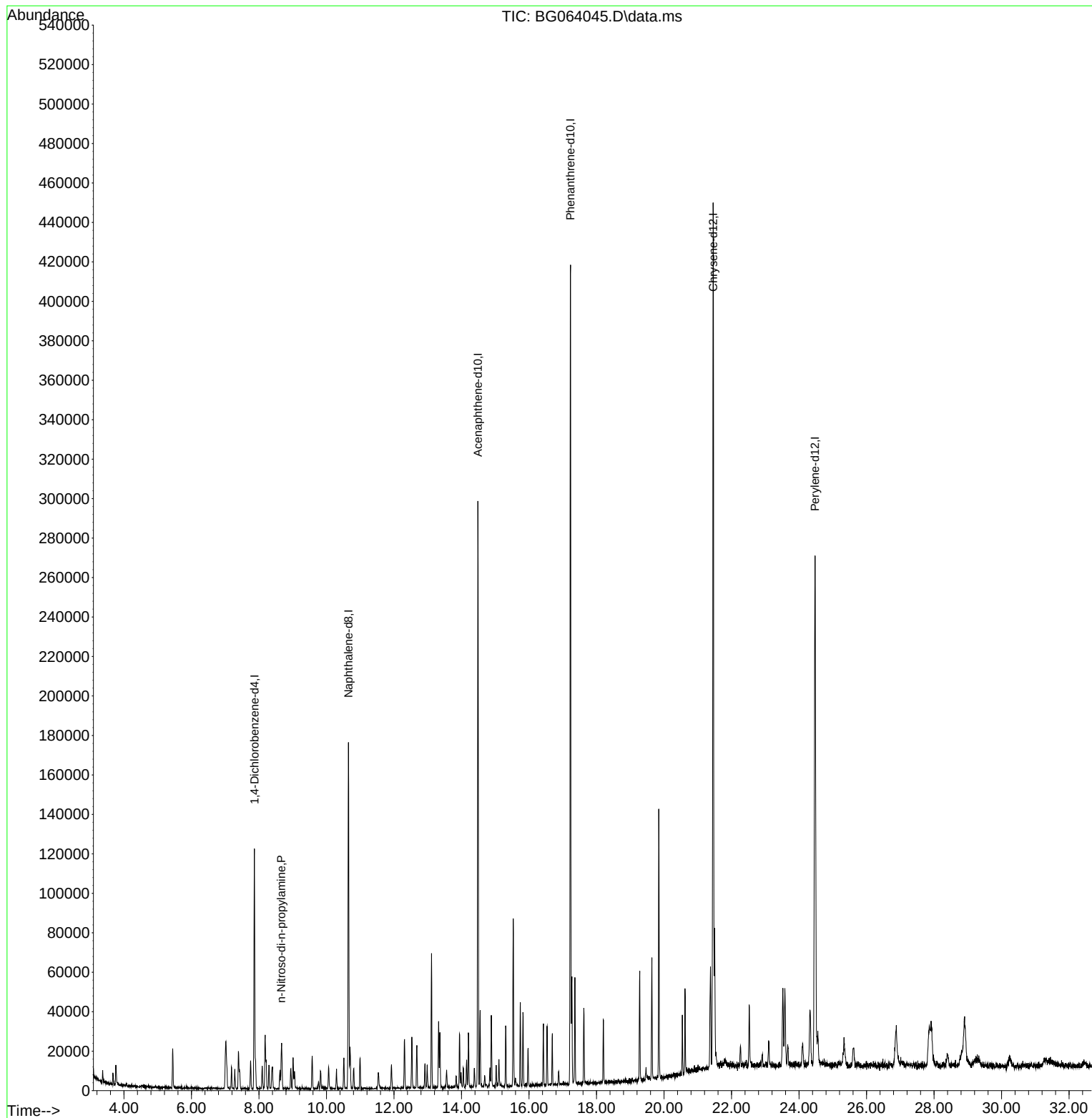
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min)    |
|-------------------------------|--------|------|----------|--------|-------|-------------|
| -----                         |        |      |          |        |       |             |
| Internal Standards            |        |      |          |        |       |             |
| 1) 1,4-Dichlorobenzene-d4     | 7.864  | 152  | 29138    | 20.000 | ng    | 0.00        |
| 21) Naphthalene-d8            | 10.649 | 136  | 131138   | 20.000 | ng    | 0.00        |
| 39) Acenaphthene-d10          | 14.486 | 164  | 97001    | 20.000 | ng    | 0.00        |
| 64) Phenanthrene-d10          | 17.229 | 188  | 240464   | 20.000 | ng    | 0.00        |
| 76) Chrysene-d12              | 21.454 | 240  | 249925   | 20.000 | ng    | 0.00        |
| 86) Perylene-d12              | 24.474 | 264  | 262700   | 20.000 | ng    | 0.00        |
| System Monitoring Compounds   |        |      |          |        |       |             |
| 5) 2-Fluorophenol             | 0.000  | 112  | 0d       | 0.000  | ng    |             |
| 7) Phenol-d6                  | 0.000  | 99   | 0d       | 0.000  | ng    |             |
| 23) Nitrobenzene-d5           | 0.000  | 82   | 0d       | 0.000  | ng    |             |
| 42) 2,4,6-Tribromophenol      | 0.000  | 330  | 0d       | 0.000  | ng    |             |
| 45) 2-Fluorobiphenyl          | 0.000  | 172  | 0d       | 0.000  | ng    |             |
| 79) Terphenyl-d14             | 0.000  | 244  | 0d       | 0.000  | ng    |             |
| Target Compounds              |        |      |          |        |       |             |
| 19) n-Nitroso-di-n-propyla... | 8.663  | 70   | 4175     | 2.343  | ng    | Qvalue # 90 |
| -----                         |        |      |          |        |       |             |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

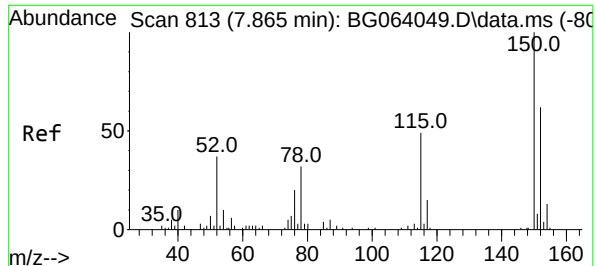
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
Data File : BG064045.D  
Acq On : 5 Mar 2025 9:02  
Operator : RC/JU  
Sample : SSTDICC2.5  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC2.5

Quant Time: Mar 05 15:19:54 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 14:45:06 2025  
Response via : Initial Calibration

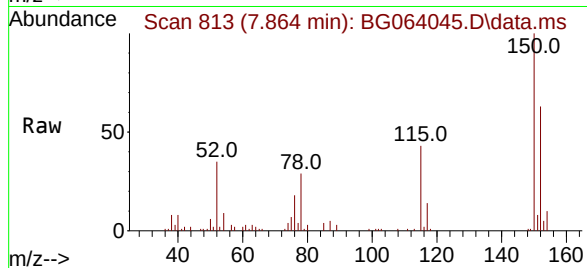




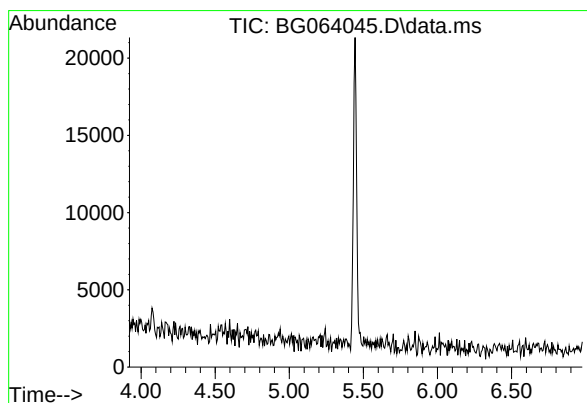
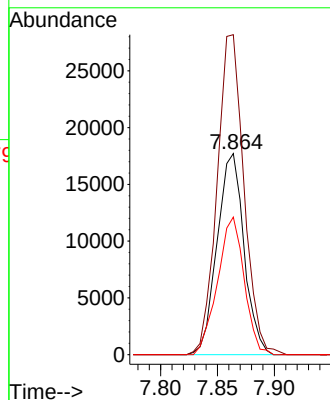
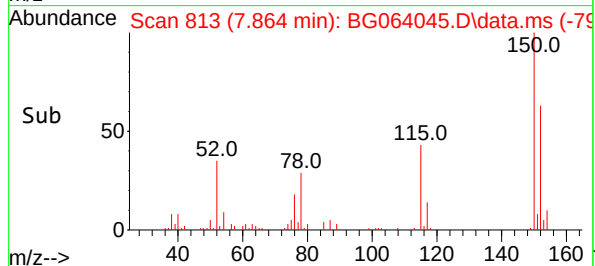


#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.864 min Scan# 81  
Delta R.T. -0.001 min  
Lab File: BG064045.D  
Acq: 5 Mar 2025 9:02

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC2.5



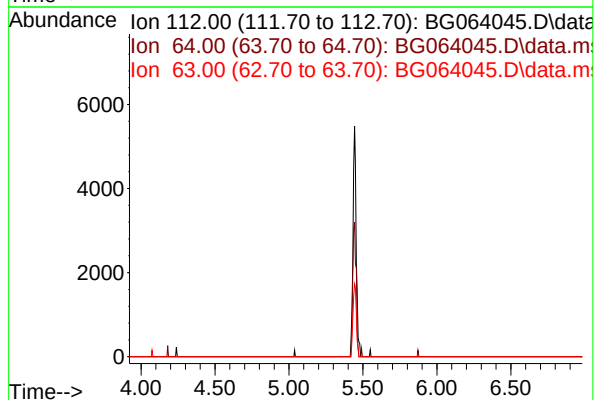
Tgt Ion:152 Resp: 29138  
Ion Ratio Lower Upper  
152 100  
150 159.1 129.2 193.8  
115 68.4 63.0 94.6

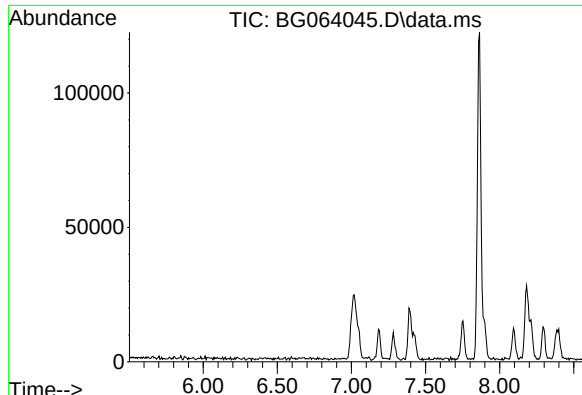


#5  
2-Fluorophenol  
Concen: 0.000 ng  
Expected RT: 5.45 min

Lab File: BG064045.D  
Acq: 5 Mar 2025 9:02

Tgt Ion: 112  
Sig Exp Ratio  
112 100  
64 67.1  
63 37.8





#7

Phenol-d6

Concen: 0.000 ng

Expected RT: 7.03 min

Lab File: BG064045.D

Acq: 5 Mar 2025 9:02

Instrument :

BNA\_G

ClientSampleId :

SSTDICC2.5

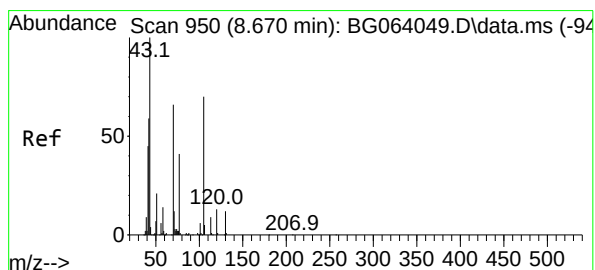
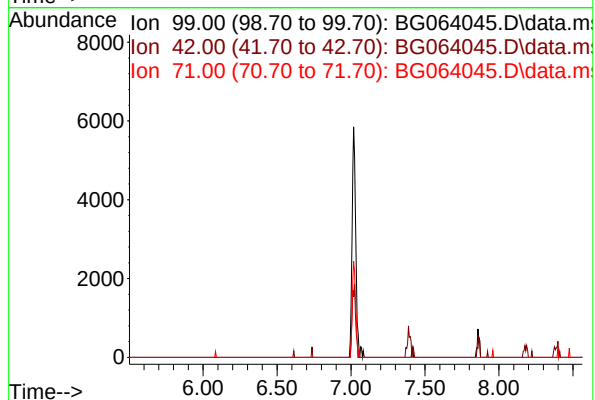
Tgt Ion: 99

Sig Exp Ratio

99 100

42 28.4

71 38.3



#19

n-Nitroso-di-n-propylamine

Concen: 2.343 ng

RT: 8.663 min Scan# 949

Delta R.T. -0.007 min

Lab File: BG064045.D

Acq: 5 Mar 2025 9:02

Tgt Ion: 70 Resp: 4175

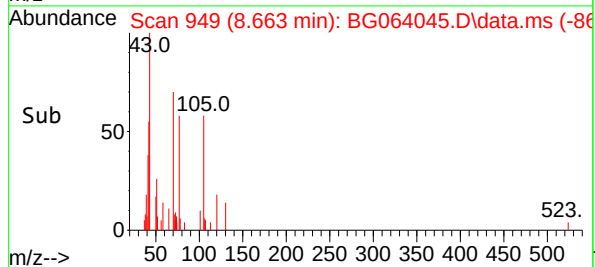
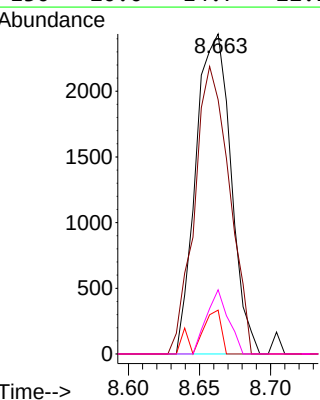
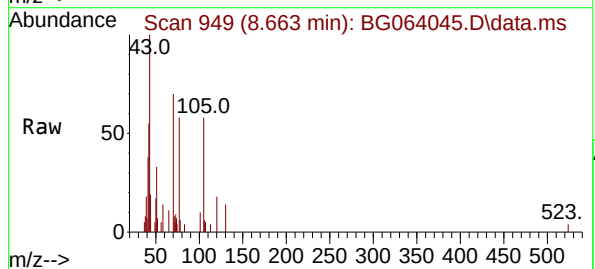
Ion Ratio Lower Upper

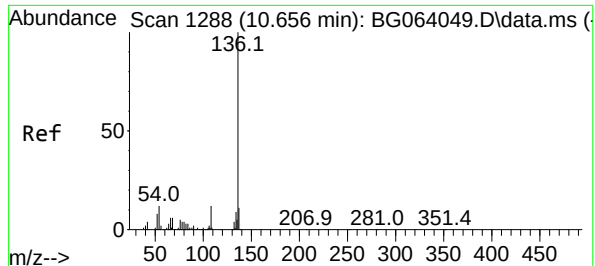
70 100

42 79.5 72.1 108.1

101 13.7 7.2 10.8#

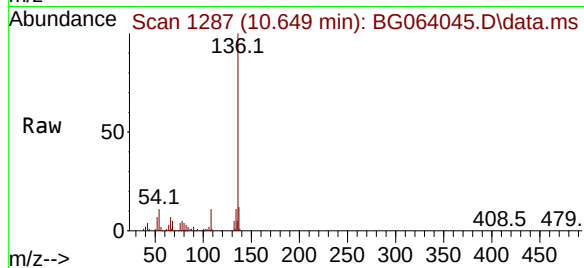
130 20.0 14.7 22.1



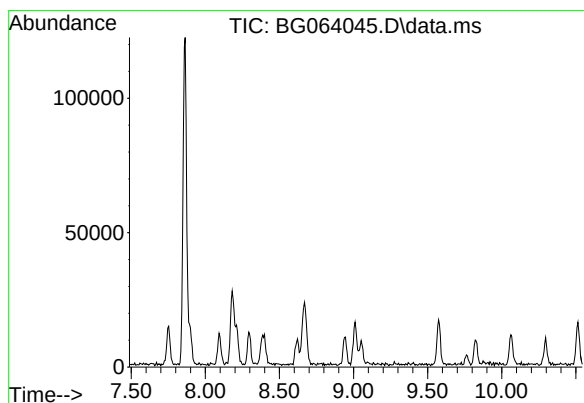
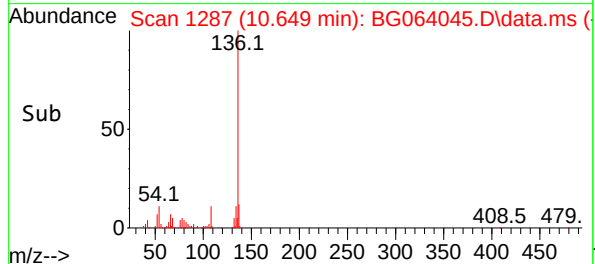
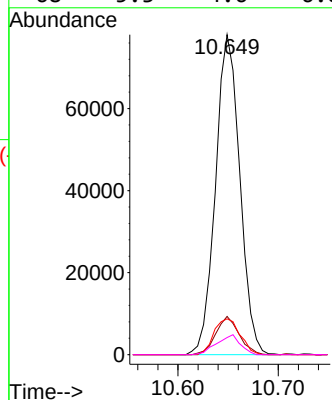


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.649 min Scan# 11  
Delta R.T. -0.007 min  
Lab File: BG064045.D  
Acq: 5 Mar 2025 9:02

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC2.5



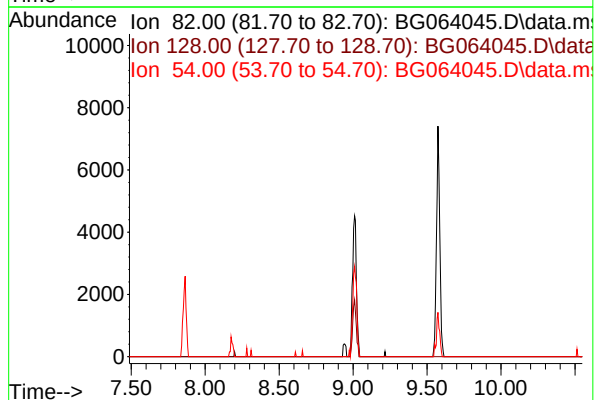
Tgt Ion:136 Resp: 131138  
Ion Ratio Lower Upper  
136 100  
137 11.9 8.5 12.7  
54 11.2 9.9 14.9  
68 5.3 4.6 6.8

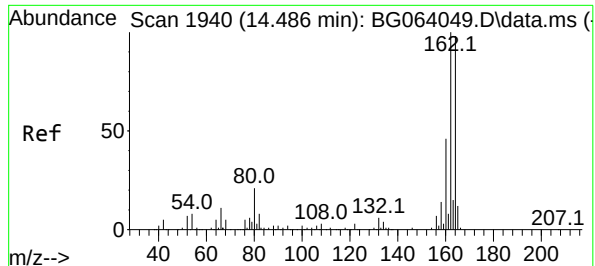


#23  
Nitrobenzene-d5  
Concen: 0.000 ng  
Expected RT: 9.02 min

Lab File: BG064045.D  
Acq: 5 Mar 2025 9:02

Tgt Ion: 82  
Sig Exp Ratio  
82 100  
128 37.5  
54 68.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.486 min Scan# 1940

Delta R.T. -0.000 min

Lab File: BG064045.D

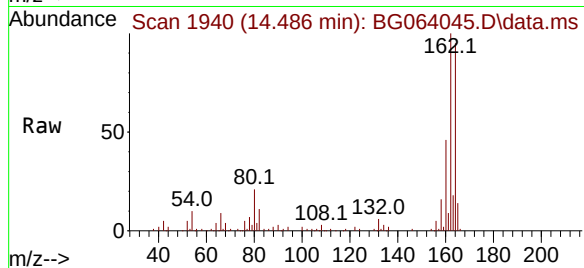
Acq: 5 Mar 2025 9:02

Instrument :

BNA\_G

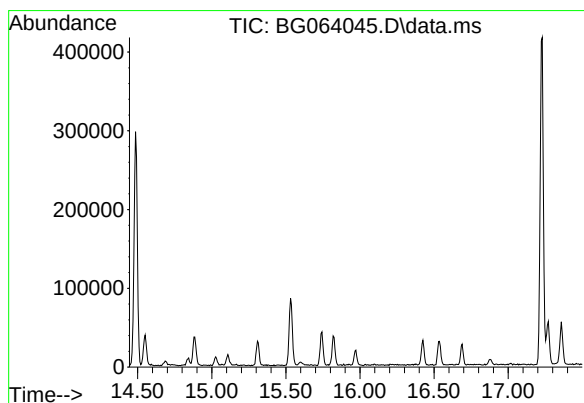
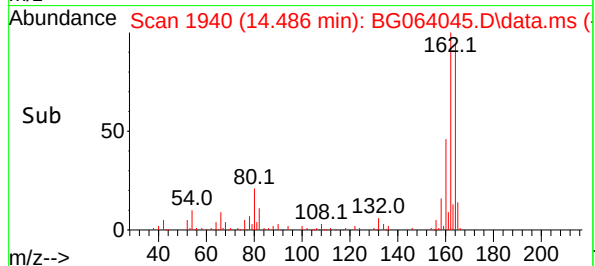
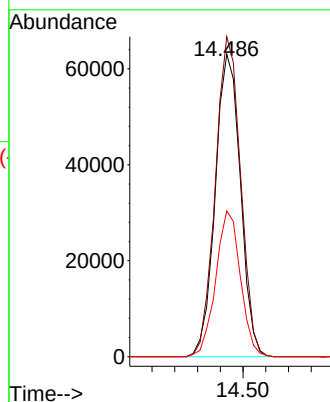
ClientSampleId :

SSTDICC2.5



Tgt Ion:164 Resp: 97001

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 105.8 | 81.4  | 122.0 |
| 160 | 48.2  | 37.0  | 55.6  |



#42

2,4,6-Tribromophenol

Concen: 0.000 ng

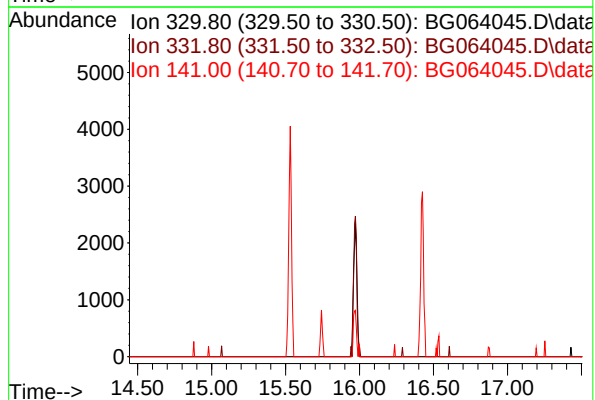
Expected RT: 15.97 min

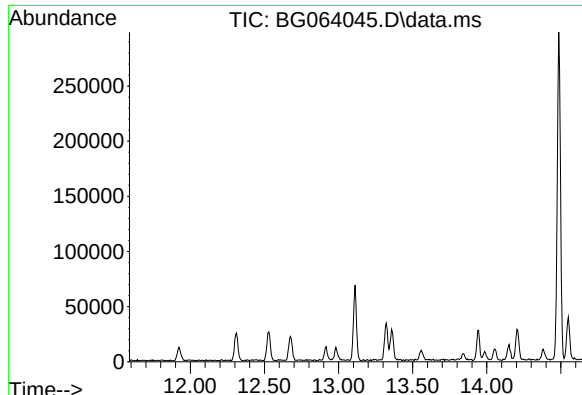
Lab File: BG064045.D

Acq: 5 Mar 2025 9:02

Tgt Ion: 330

| Sig | Exp Ratio |
|-----|-----------|
| 330 | 100       |
| 332 | 95.9      |
| 141 | 37.1      |

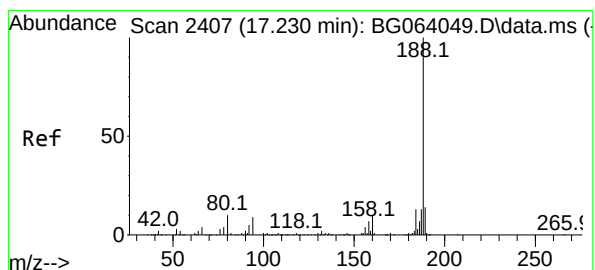
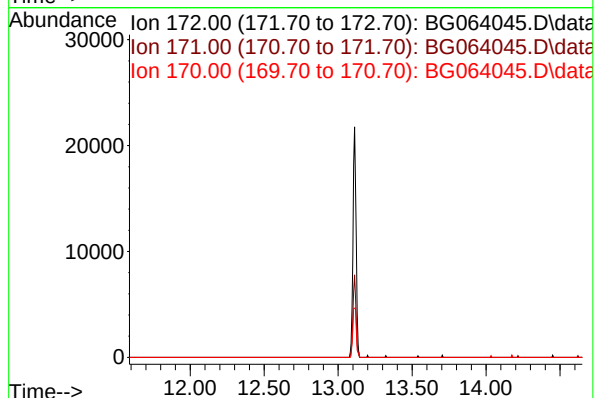




#45  
2-Fluorobiphenyl  
Concen: 0.000 ng  
Expected RT: 13.12 min  
Lab File: BG064045.D  
Acq: 5 Mar 2025 9:02

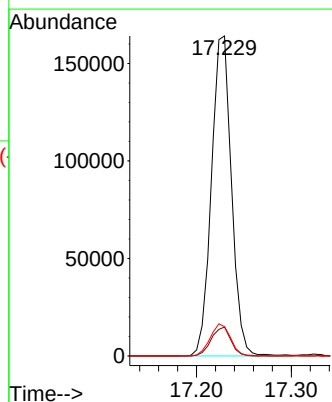
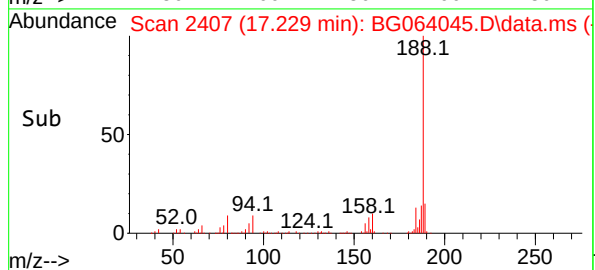
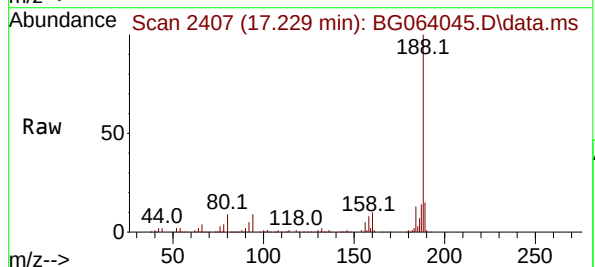
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC2.5

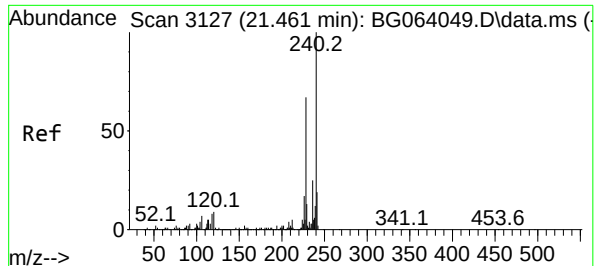
Tgt Ion: 172  
Sig Exp Ratio  
172 100  
171 35.0  
170 23.4



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.229 min Scan# 2407  
Delta R.T. -0.001 min  
Lab File: BG064045.D  
Acq: 5 Mar 2025 9:02

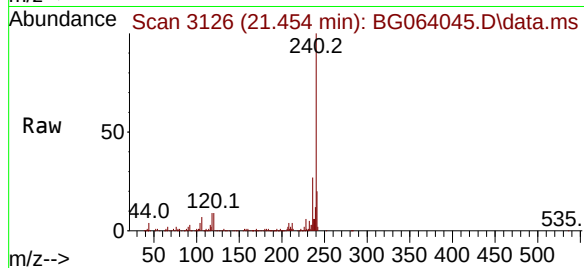
Tgt Ion: 188 Resp: 240464  
Ion Ratio Lower Upper  
188 100  
94 9.1 6.9 10.3  
80 9.1 8.1 12.1



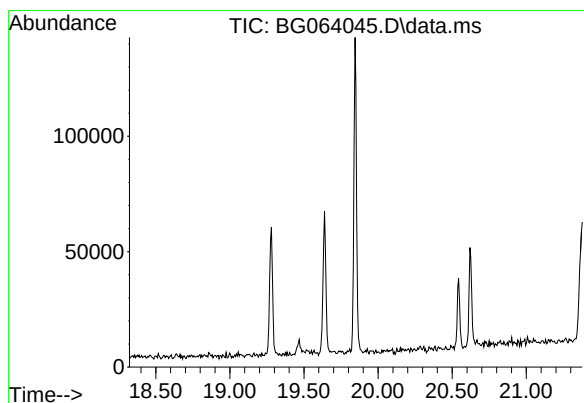
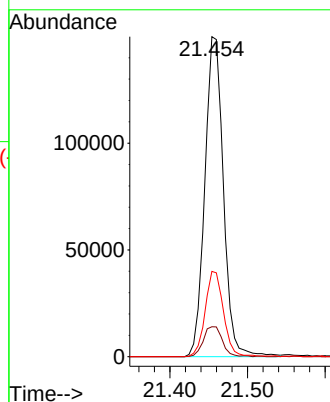
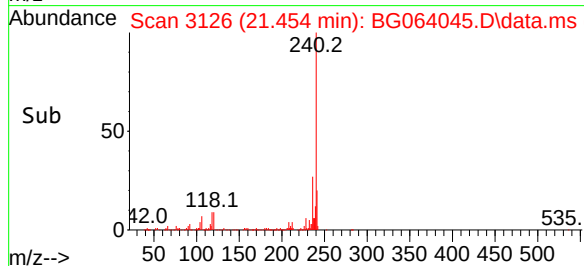


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.454 min Scan# 31  
Delta R.T. -0.007 min  
Lab File: BG064045.D  
Acq: 5 Mar 2025 9:02

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC2.5



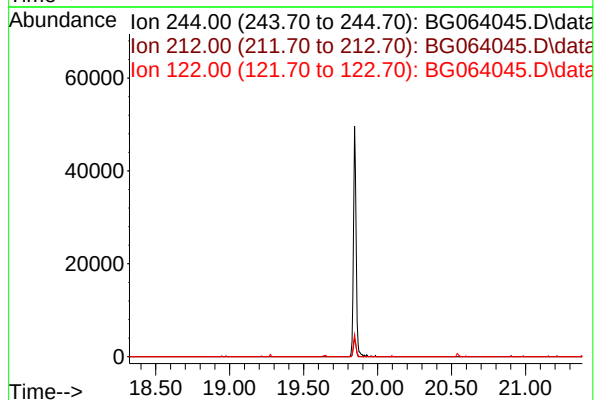
Tgt Ion: 240 Resp: 249925  
Ion Ratio Lower Upper  
240 100  
120 9.3 7.2 10.8  
236 26.6 20.2 30.2

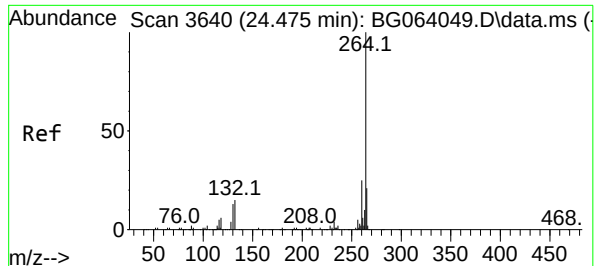


#79  
Terphenyl-d14  
Concen: 0.000 ng  
Expected RT: 19.85 min

Lab File: BG064045.D  
Acq: 5 Mar 2025 9:02

Tgt Ion: 244  
Sig Exp Ratio  
244 100  
212 7.8  
122 10.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.474 min Scan# 30

Delta R.T. -0.001 min

Lab File: BG064045.D

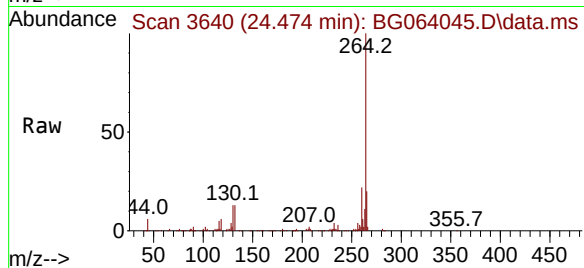
Acq: 5 Mar 2025 9:02

Instrument :

BNA\_G

ClientSampleId :

SSTDICC2.5



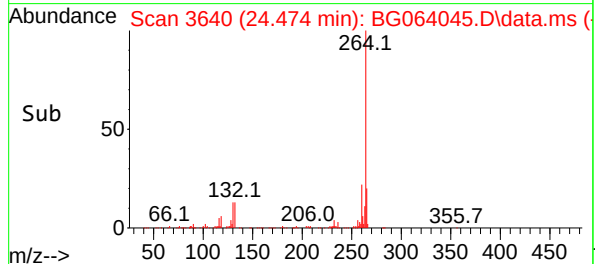
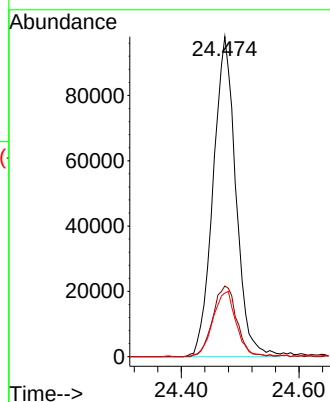
Tgt Ion:264 Resp: 262700

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 264 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 260 | 22.1 | 19.6 | 29.4 |
|-----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 265 | 19.9 | 16.6 | 25.0 |
|-----|------|------|------|



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064046.D  
 Acq On : 5 Mar 2025 9:42  
 Operator : RC/JU  
 Sample : SSTDICC005  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDICC005

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025

Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:20:42 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 14:45:06 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.865  | 152  | 33357    | 20.000 | ng     | 0.00     |
| 21) Naphthalene-d8            | 10.650 | 136  | 142015   | 20.000 | ng     | 0.00     |
| 39) Acenaphthene-d10          | 14.487 | 164  | 99722    | 20.000 | ng     | 0.00     |
| 64) Phenanthrene-d10          | 17.225 | 188  | 234862   | 20.000 | ng     | 0.00     |
| 76) Chrysene-d12              | 21.455 | 240  | 251570   | 20.000 | ng     | 0.00     |
| 86) Perylene-d12              | 24.469 | 264  | 257404   | 20.000 | ng     | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 5) 2-Fluorophenol             | 5.450  | 112  | 19435    | 9.098  | ng     | 0.00     |
| 7) Phenol-d6                  | 7.025  | 99   | 26345    | 9.065  | ng     | 0.00     |
| 23) Nitrobenzene-d5           | 9.011  | 82   | 20601    | 8.016  | ng     | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.967 | 330  | 8299     | 7.487  | ng     | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.112 | 172  | 68235    | 10.386 | ng     | 0.00     |
| 79) Terphenyl-d14             | 19.845 | 244  | 127223   | 10.226 | ng     | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.376  | 88   | 4983     | 5.147  | ng     | 88       |
| 3) Pyridine                   | 3.764  | 79   | 12091    | 5.135  | ng     | 90       |
| 4) n-Nitrosodimethylamine     | 3.676  | 42   | 7436     | 4.420  | ng     | # 86     |
| 6) Aniline                    | 7.189  | 93   | 13285    | 4.659  | ng     | # 90     |
| 8) 2-Chlorophenol             | 7.424  | 128  | 10525    | 4.587  | ng     | 93       |
| 9) Benzaldehyde               | 7.007  | 77   | 9269     | 5.456  | ng     | 91       |
| 10) Phenol                    | 7.048  | 94   | 13256    | 4.455  | ng     | 95       |
| 11) bis(2-Chloroethyl)ether   | 7.289  | 93   | 11465    | 4.915  | ng     | 92       |
| 12) 1,3-Dichlorobenzene       | 7.753  | 146  | 12701    | 5.041  | ng     | 99       |
| 13) 1,4-Dichlorobenzene       | 7.894  | 146  | 12909m   | 4.999  | ng     |          |
| 14) 1,2-Dichlorobenzene       | 8.218  | 146  | 12410m   | 4.983  | ng     |          |
| 15) Benzyl Alcohol            | 8.094  | 79   | 9299     | 4.141  | ng     | # 91     |
| 16) 2,2'-oxybis(1-Chloropr... | 8.400  | 45   | 25555    | 4.872  | ng     | 94       |
| 17) 2-Methylphenol            | 8.300  | 107  | 8465     | 4.287  | ng     | 88       |
| 18) Hexachloroethane          | 8.946  | 117  | 4075     | 4.510  | ng     | 85       |
| 19) n-Nitroso-di-n-propyla... | 8.664  | 70   | 9131     | 4.477  | ng     | # 96     |
| 20) 3+4-Methylphenols         | 8.623  | 107  | 11690    | 4.300  | ng     | 95       |
| 22) Acetophenone              | 8.676  | 105  | 18540    | 4.761  | ng     | 95       |
| 24) Nitrobenzene              | 9.052  | 77   | 10563    | 3.977  | ng     | # 91     |
| 25) Isophorone                | 9.575  | 82   | 25179    | 4.895  | ng     | 98       |
| 26) 2-Nitrophenol             | 9.769  | 139  | 2362     | 6.094  | ng     | 88       |
| 27) 2,4-Dimethylphenol        | 9.822  | 122  | 6887     | 4.466  | ng     | # 88     |
| 28) bis(2-Chloroethoxy)met... | 10.062 | 93   | 15067    | 4.832  | ng     | 95       |
| 29) 2,4-Dichlorophenol        | 10.297 | 162  | 7898     | 4.056  | ng     | 96       |
| 30) 1,2,4-Trichlorobenzene    | 10.515 | 180  | 11480    | 4.884  | ng     | 93       |
| 31) Naphthalene               | 10.703 | 128  | 38285    | 4.999  | ng     | 99       |
| 33) 4-Chloroaniline           | 10.809 | 127  | 12591    | 4.499  | ng     | 95       |
| 34) Hexachlorobutadiene       | 10.997 | 225  | 7373     | 4.786  | ng     | # 91     |
| 35) Caprolactam               | 11.537 | 113  | 3052     | 4.090  | ng     | # 89     |
| 36) 4-Chloro-3-methylphenol   | 11.925 | 107  | 10408    | 4.078  | ng     | 92       |
| 37) 2-Methylnaphthalene       | 12.313 | 142  | 27533    | 5.093  | ng     | 99       |
| 38) 1-Methylnaphthalene       | 12.530 | 142  | 26458    | 4.995  | ng     | 97       |
| 40) 1,2,4,5-Tetrachloroben... | 12.677 | 216  | 13634    | 4.789  | ng     | 94       |
| 41) Hexachlorocyclopentadiene | 12.665 | 237  | 3078     | 3.841  | ng     | 97       |
| 43) 2,4,6-Trichlorophenol     | 12.912 | 196  | 6684m    | 3.983  | ng     |          |
| 44) 2,4,5-Trichlorophenol     | 12.983 | 196  | 7092     | 3.804  | ng     | 94       |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064046.D  
 Acq On : 5 Mar 2025 9:42  
 Operator : RC/JU  
 Sample : SSTDICC005  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDICC005

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025

Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:20:42 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 14:45:06 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 46) 1,1'-Biphenyl             | 13.323 | 154  | 37550    | 4.984 | ng    | 98       |
| 47) 2-Chloronaphthalene       | 13.359 | 162  | 27076    | 4.928 | ng    | 95       |
| 48) 2-Nitroaniline            | 13.552 | 65   | 4908     | 6.075 | ng    | 84       |
| 49) Acenaphthylene            | 14.205 | 152  | 42736    | 4.917 | ng    | 96       |
| 50) Dimethylphthalate         | 13.940 | 163  | 35694    | 4.849 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 14.058 | 165  | 3942     | 5.812 | ng    | # 81     |
| 52) Acenaphthene              | 14.551 | 154  | 29044m   | 4.969 | ng    |          |
| 53) 3-Nitroaniline            | 14.387 | 138  | 4736     | 3.329 | ng    | # 84     |
| 55) Dibenzofuran              | 14.880 | 168  | 48004    | 5.080 | ng    | 96       |
| 57) 2,4-Dinitrotoluene        | 14.839 | 165  | 5618     | 6.165 | ng    | # 95     |
| 58) Fluorene                  | 15.532 | 166  | 38777    | 5.269 | ng    | 90       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.109 | 232  | 6538     | 3.597 | ng    | # 94     |
| 60) Diethylphthalate          | 15.309 | 149  | 37289    | 4.666 | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 15.532 | 204  | 18807    | 5.142 | ng    | 89       |
| 62) 4-Nitroaniline            | 15.538 | 138  | 5314     | 3.460 | ng    | 93       |
| 63) Azobenzene                | 15.820 | 77   | 43236    | 5.070 | ng    | 96       |
| 66) n-Nitrosodiphenylamine    | 15.744 | 169  | 32754    | 4.927 | ng    | 96       |
| 67) 4-Bromophenyl-phenylether | 16.426 | 248  | 10898    | 4.531 | ng    | 93       |
| 68) Hexachlorobenzene         | 16.531 | 284  | 13351    | 4.958 | ng    | 99       |
| 69) Atrazine                  | 16.690 | 200  | 10297    | 5.264 | ng    | 89       |
| 71) Phenanthrene              | 17.266 | 178  | 63629    | 5.079 | ng    | 98       |
| 72) Anthracene                | 17.354 | 178  | 60108    | 4.825 | ng    | 98       |
| 73) Carbazole                 | 17.624 | 167  | 55726    | 4.792 | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.200 | 149  | 54700    | 3.996 | ng    | # 95     |
| 75) Fluoranthene              | 19.275 | 202  | 74694    | 4.946 | ng    | 99       |
| 77) Benzidine                 | 19.463 | 184  | 13919m   | 3.941 | ng    |          |
| 78) Pyrene                    | 19.639 | 202  | 78707    | 4.853 | ng    | 98       |
| 80) Butylbenzylphthalate      | 20.538 | 149  | 17899    | 6.356 | ng    | 96       |
| 81) Benzo(a)anthracene        | 21.437 | 228  | 76566    | 4.751 | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.361 | 252  | 22038    | 4.226 | ng    | 89       |
| 83) Chrysene                  | 21.502 | 228  | 80580    | 5.014 | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 21.379 | 149  | 31674    | 3.634 | ng    | 94       |
| 87) Indeno(1,2,3-cd)pyrene    | 27.865 | 276  | 78681    | 4.569 | ng    | # 94     |
| 88) Benzo(b)fluoranthene      | 23.523 | 252  | 74031    | 4.757 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.588 | 252  | 71522    | 4.582 | ng    | 98       |
| 90) Benzo(a)pyrene            | 24.322 | 252  | 63881    | 4.610 | ng    | # 96     |
| 91) Dibenzo(a,h)anthracene    | 27.912 | 278  | 66224    | 4.638 | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 28.905 | 276  | 67535    | 4.607 | ng    | # 93     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064046.D  
 Acq On : 5 Mar 2025 9:42  
 Operator : RC/JU  
 Sample : SSTDICC005  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDICC005

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025

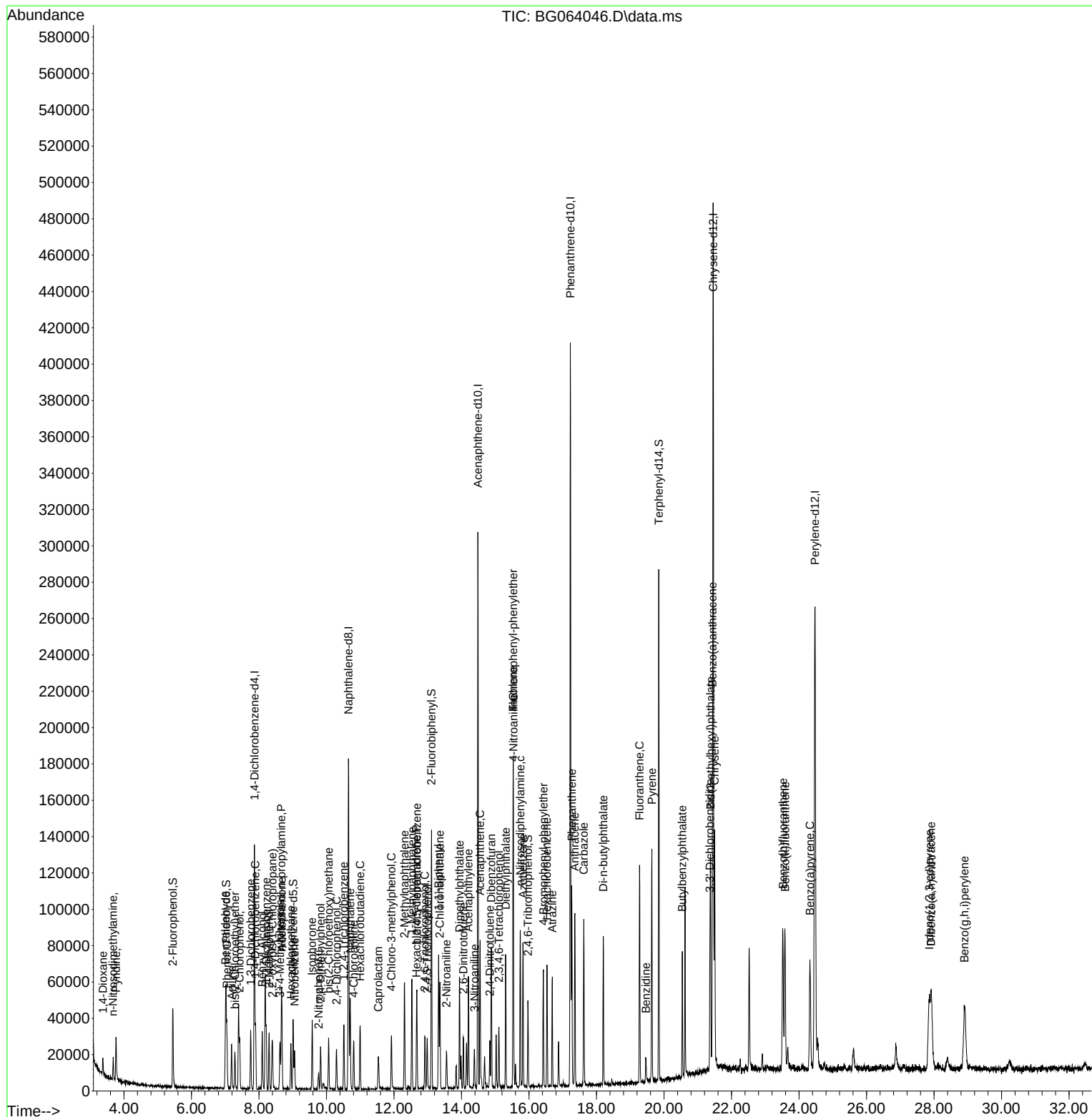
Quant Time: Mar 05 15:20:42 2025

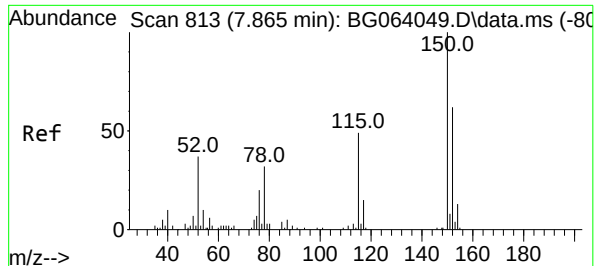
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 14:45:06 2025

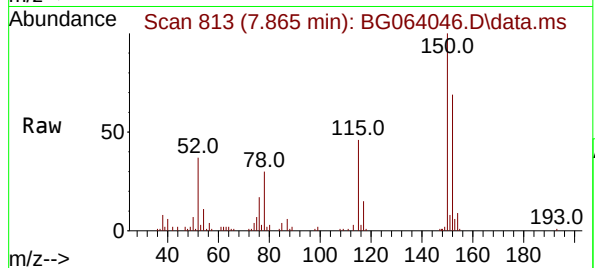
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.865 min Scan# 813  
Delta R.T. -0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

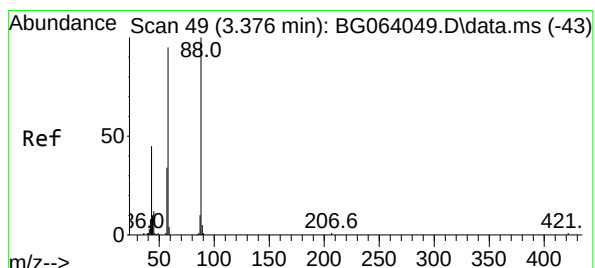
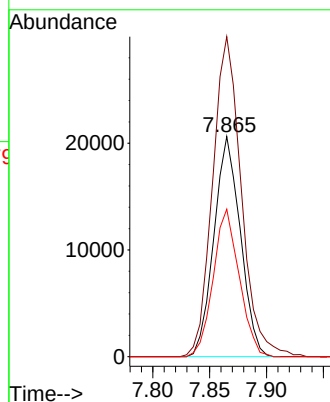
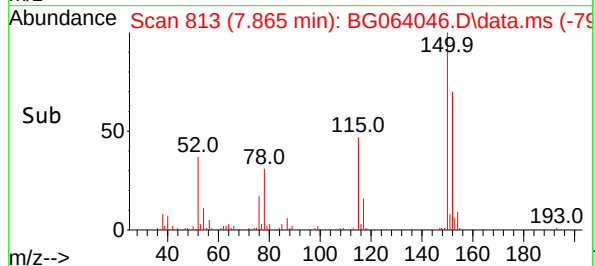
Instrument :  
BNA\_G  
Client Sample Id :  
SSTDICC005



Tgt Ion: 152 Resp: 3335  
Ion Ratio Lower Upper  
152 100  
150 145.3 129.2 193.8  
115 67.0 63.0 94.6

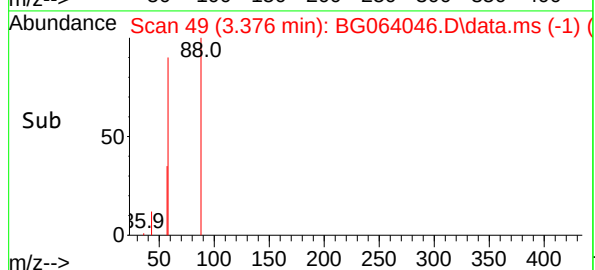
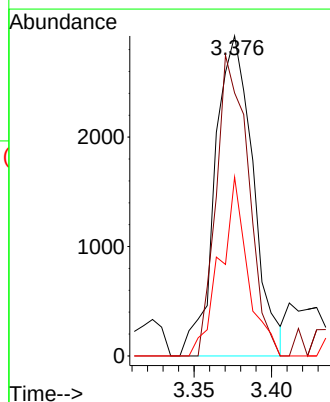
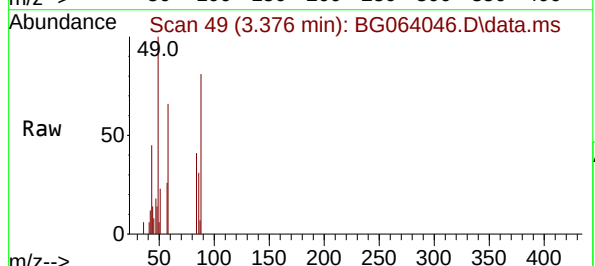
Manual Integrations  
APPROVED

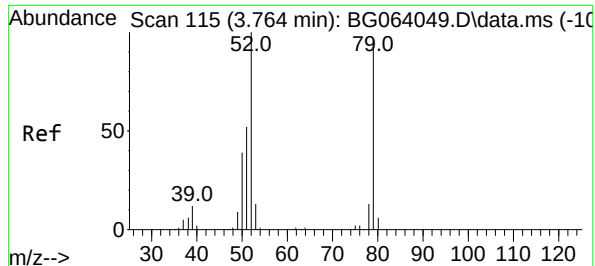
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#2  
1,4-Dioxane  
Concen: 5.147 ng  
RT: 3.376 min Scan# 49  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

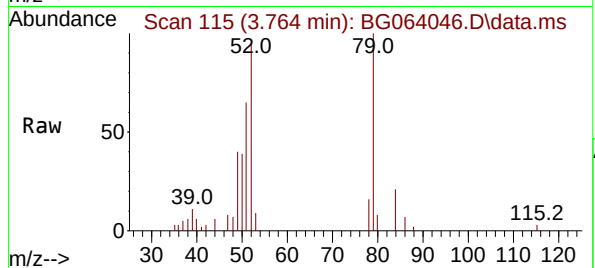
Tgt Ion: 88 Resp: 4983  
Ion Ratio Lower Upper  
88 100  
58 79.5 74.6 111.8  
43 40.5 35.5 53.3





#3  
Pyridine  
Concen: 5.135 ng  
RT: 3.764 min Scan# 115  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

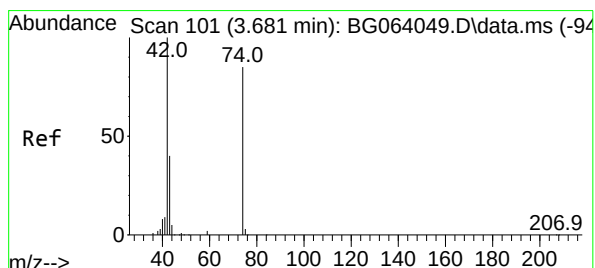
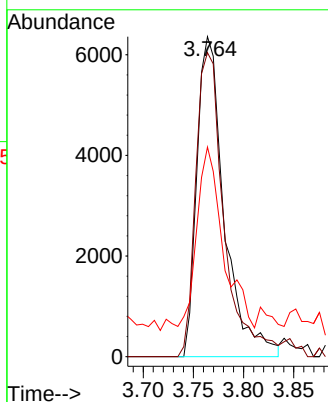
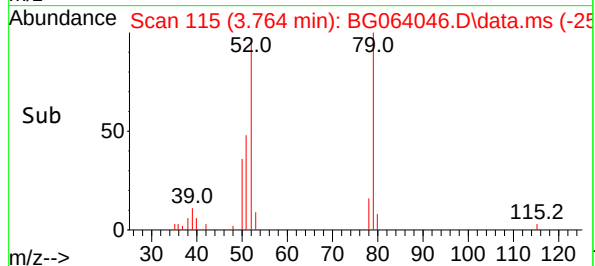
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion: 79 Resp: 1209  
Ion Ratio Lower Upper  
79 100  
52 95.0 83.0 124.6  
51 65.5 44.3 66.5

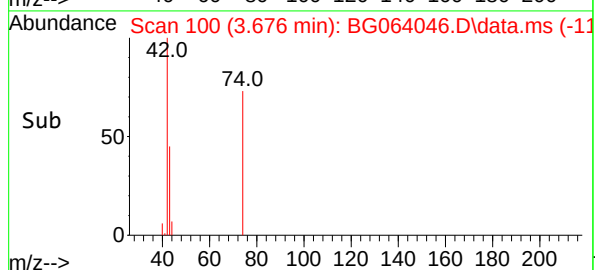
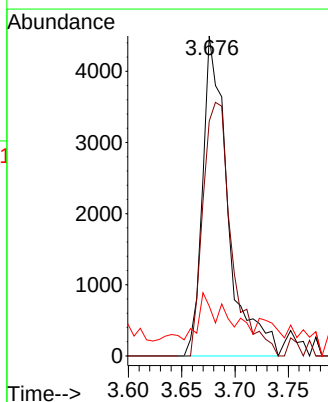
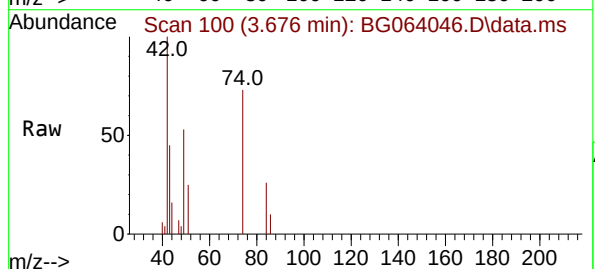
Manual Integrations  
APPROVED

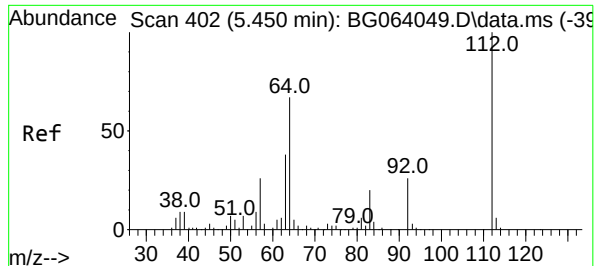
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#4  
n-Nitrosodimethylamine  
Concen: 4.420 ng  
RT: 3.676 min Scan# 100  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Tgt Ion: 42 Resp: 7436  
Ion Ratio Lower Upper  
42 100  
74 73.4 68.0 102.0  
44 15.6 4.9 7.3#





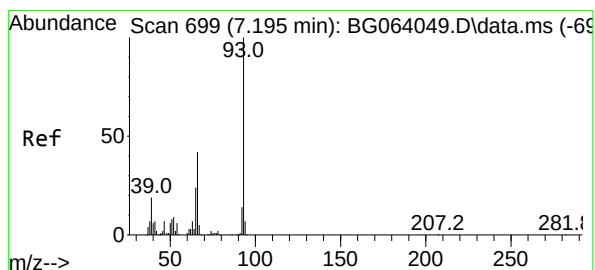
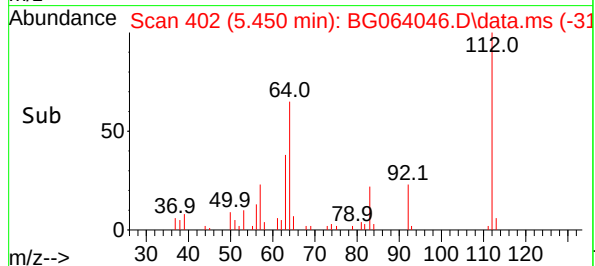
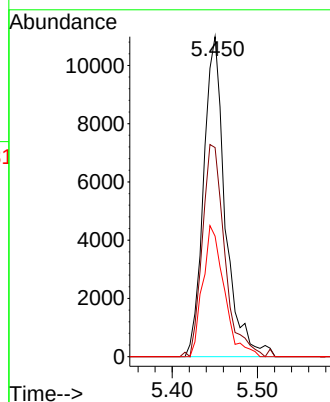
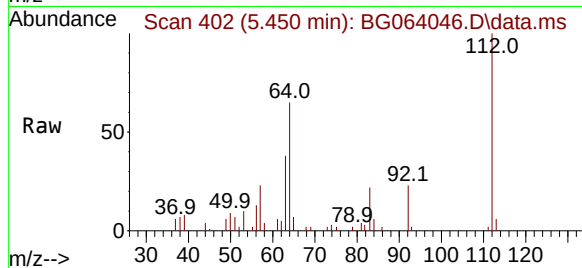
#5  
2-Fluorophenol  
Concen: 9.098 ng  
RT: 5.450 min Scan# 402  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005

Tgt Ion: 112 Resp: 19435  
Ion Ratio Lower Upper  
112 100  
64 65.4 53.7 80.5  
63 37.6 30.2 45.4

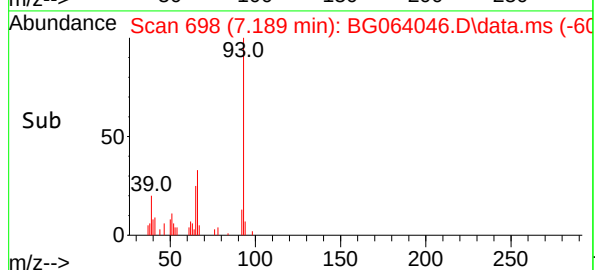
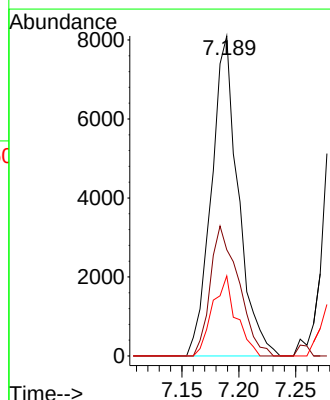
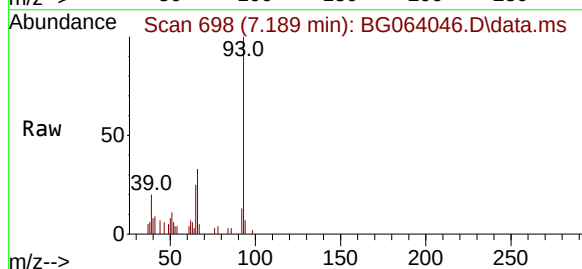
Manual Integrations  
APPROVED

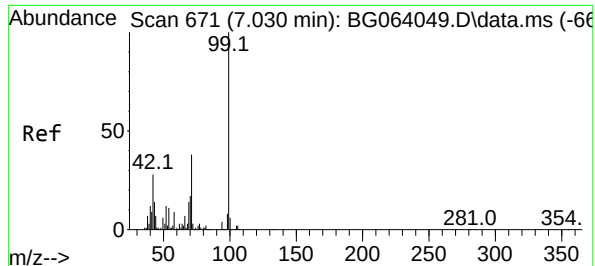
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#6  
Aniline  
Concen: 4.659 ng  
RT: 7.189 min Scan# 698  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Tgt Ion: 93 Resp: 13285  
Ion Ratio Lower Upper  
93 100  
66 33.2 33.7 50.5  
65 25.0 19.1 28.7





#7  
Phenol-d6  
Concen: 9.065 ng  
RT: 7.025 min Scan# 671  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

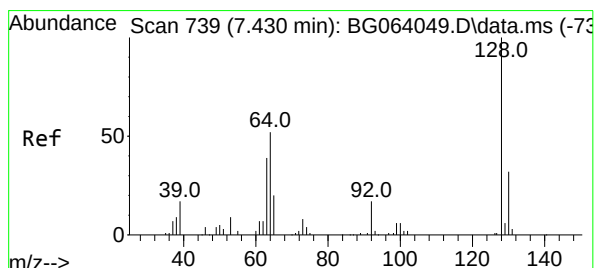
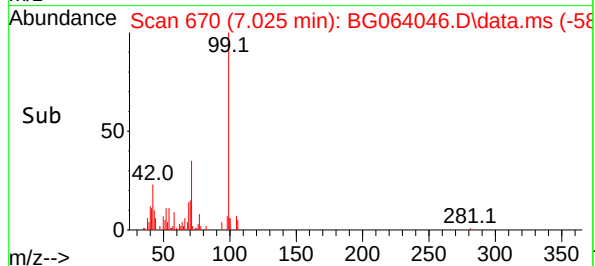
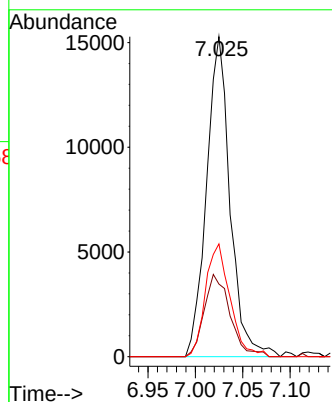
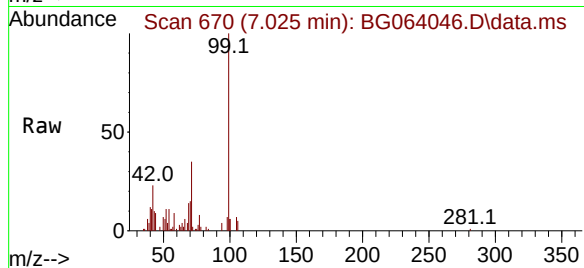
SSTDICC005

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 22.7  | 22.7  | 34.1  |
| 71      | 35.2  | 30.6  | 46.0  |

Manual Integrations

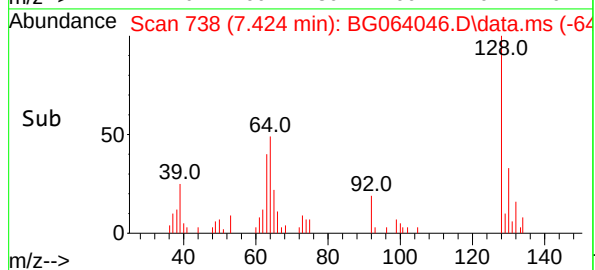
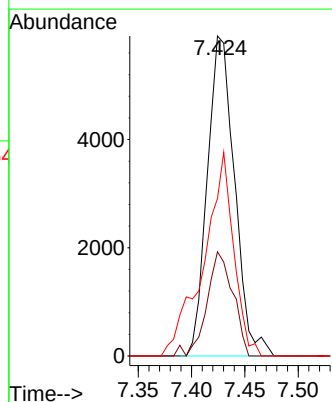
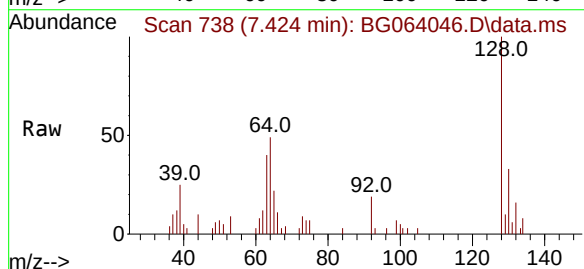
APPROVED

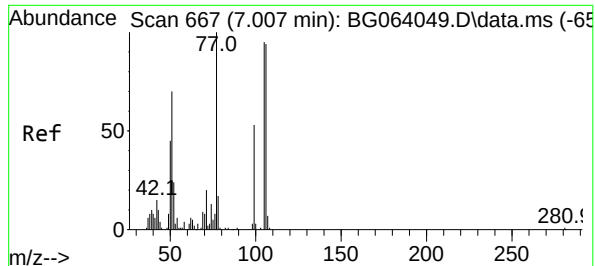
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#8  
2-Chlorophenol  
Concen: 4.587 ng  
RT: 7.424 min Scan# 738  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

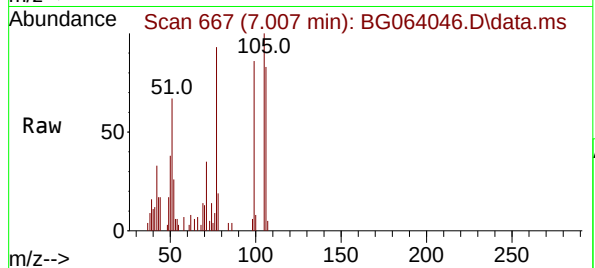
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 130     | 32.5  | 12.3  | 52.3  |
| 64      | 49.2  | 37.0  | 77.0  |





#9  
Benzaldehyde  
Concen: 5.456 ng  
RT: 7.007 min Scan# 667  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

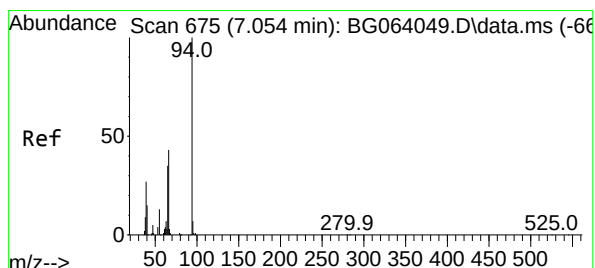
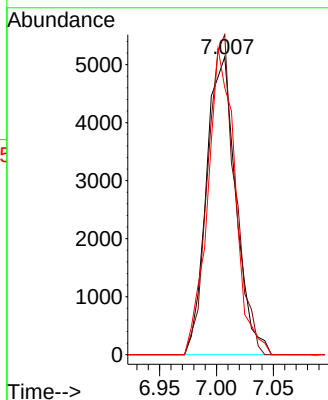
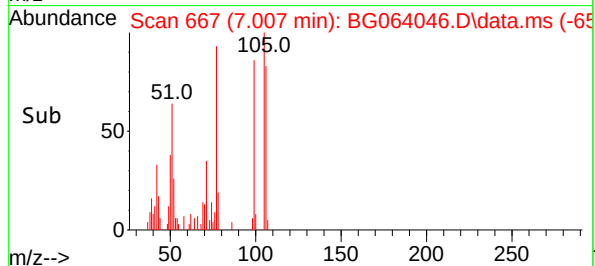
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion: 77 Resp: 9269  
Ion Ratio Lower Upper  
77 100  
105 107.4 75.5 115.5  
106 89.7 74.2 114.2

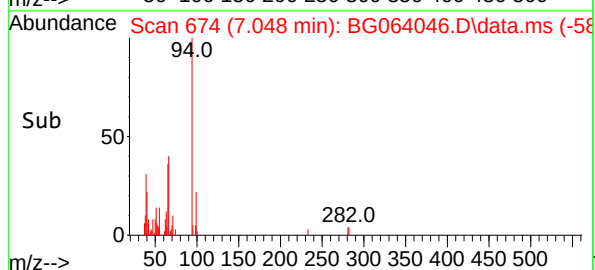
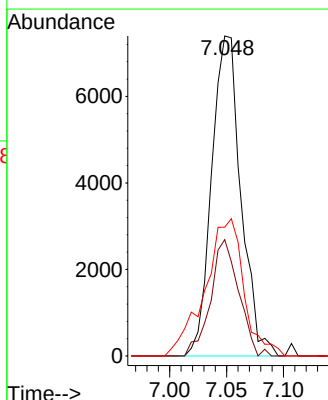
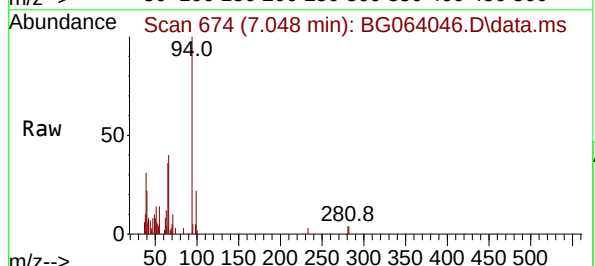
Manual Integrations  
APPROVED

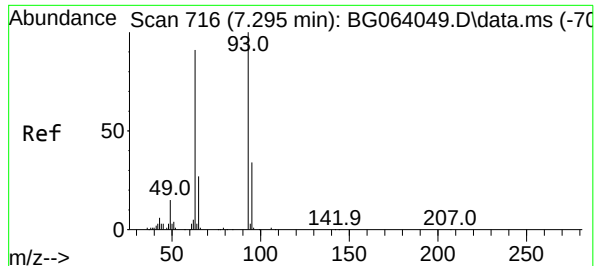
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#10  
Phenol  
Concen: 4.455 ng  
RT: 7.048 min Scan# 674  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Tgt Ion: 94 Resp: 13256  
Ion Ratio Lower Upper  
94 100  
65 36.4 15.2 55.2  
66 40.2 25.1 65.1





#11

bis(2-Chloroethyl)ether

Concen: 4.915 ng

RT: 7.289 min Scan# 715

Delta R.T. -0.006 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

SSTDICC005

Tgt Ion: 93 Resp: 1146

Ion Ratio Lower Upper

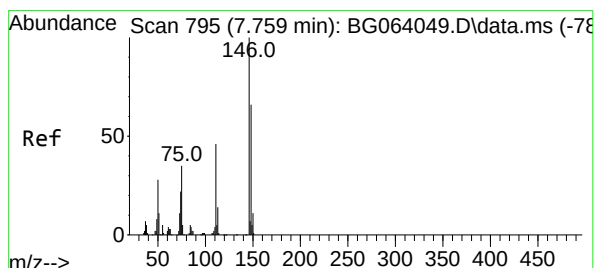
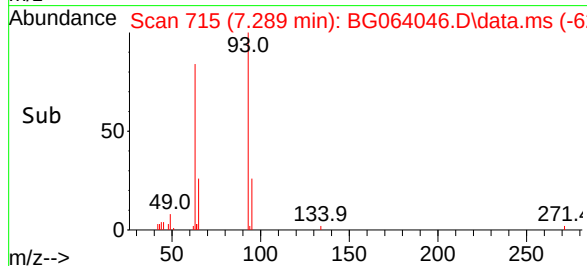
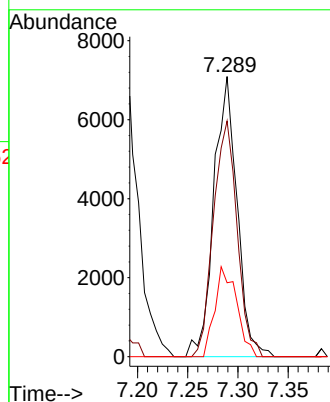
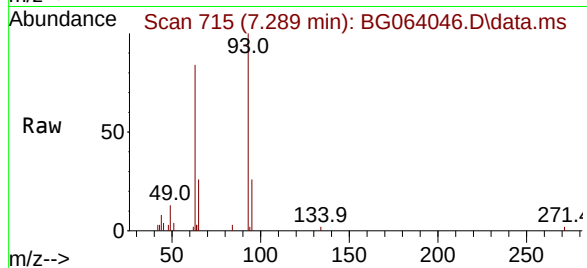
93 100

63 84.1 70.0 110.0

95 26.4 13.7 53.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#12

1,3-Dichlorobenzene

Concen: 5.041 ng

RT: 7.753 min Scan# 794

Delta R.T. -0.006 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

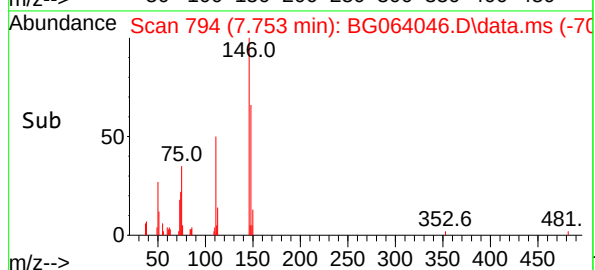
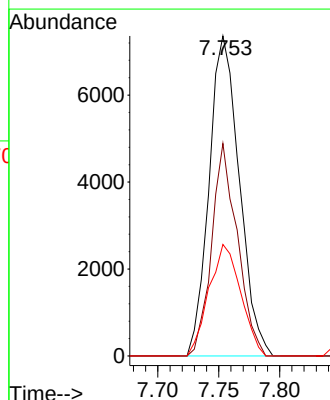
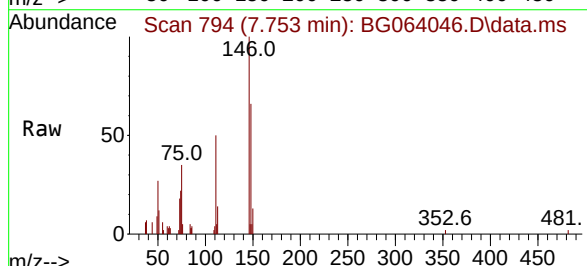
Tgt Ion:146 Resp: 12701

Ion Ratio Lower Upper

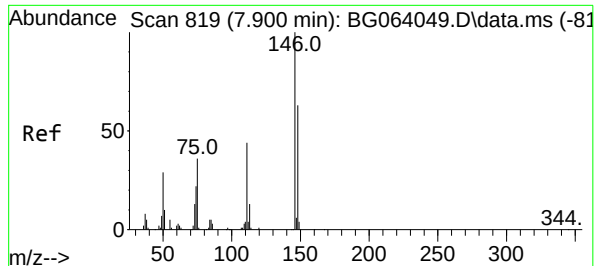
146 100

148 66.4 52.6 78.8

75 34.9 28.1 42.1







#13

1,4-Dichlorobenzene

Concen: 4.999 ng m

RT: 7.894 min Scan# 819

Delta R.T. -0.006 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

SSTDICC005

Tgt Ion:146 Resp: 12909

Ion Ratio Lower Upper

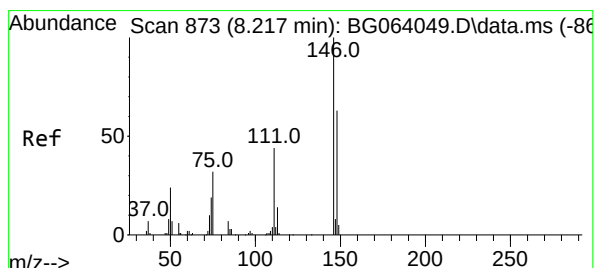
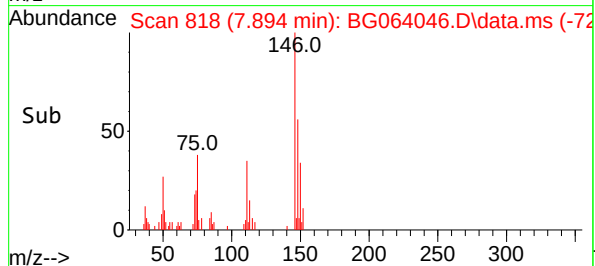
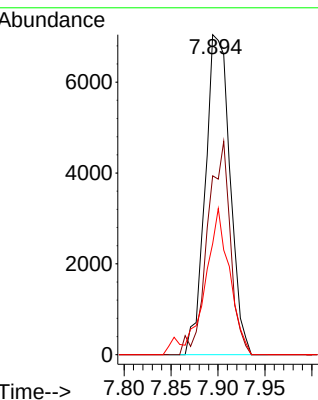
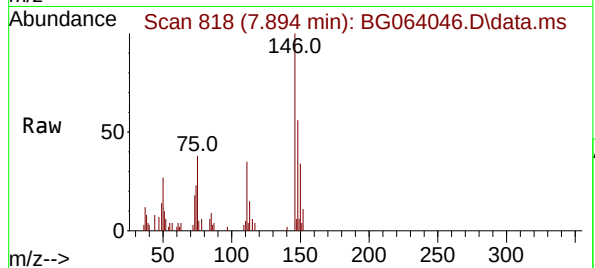
146 100

148 55.9 50.6 75.8

111 34.7 35.1 52.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#14

1,2-Dichlorobenzene

Concen: 4.983 ng m

RT: 8.218 min Scan# 873

Delta R.T. 0.000 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

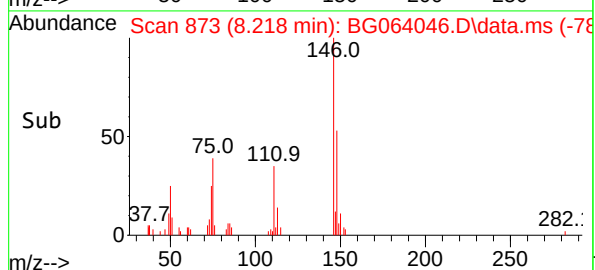
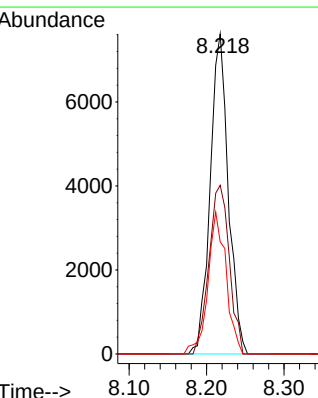
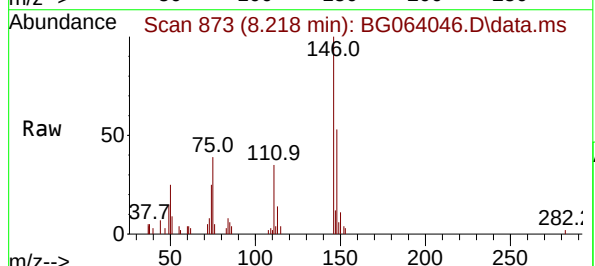
Tgt Ion:146 Resp: 12410

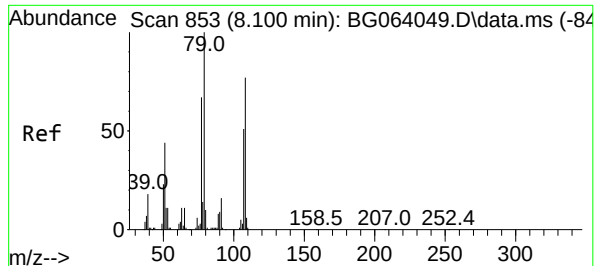
Ion Ratio Lower Upper

146 100

148 52.7 50.2 75.2

111 35.0 36.4 54.6#





#15

Benzyl Alcohol

Concen: 4.141 ng

RT: 8.094 min Scan# 81

Delta R.T. -0.006 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

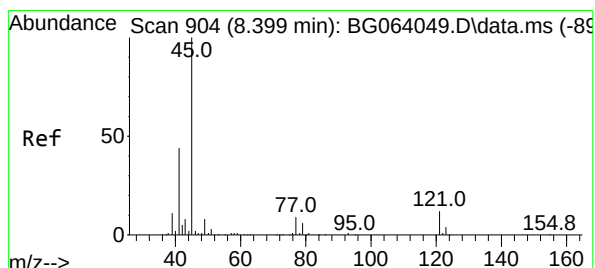
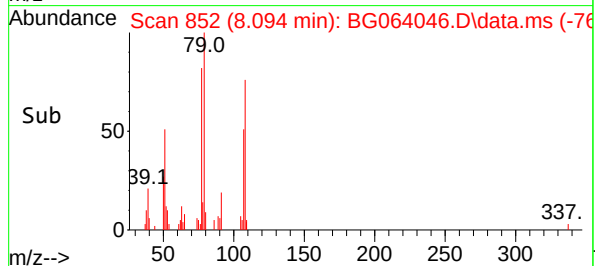
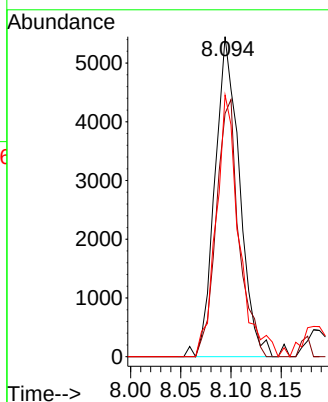
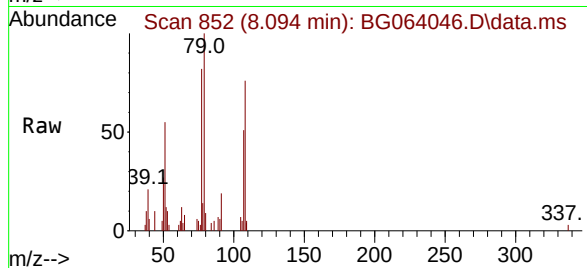
SSTDICC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 79    | Resp: | 929   |
| Ion      | Ratio | Lower | Upper |
| 79       | 100   |       |       |
| 108      | 76.0  | 61.7  | 92.5  |
| 77       | 81.7  | 53.9  | 80.9  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 4.872 ng

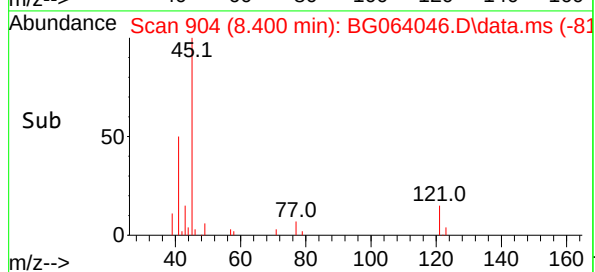
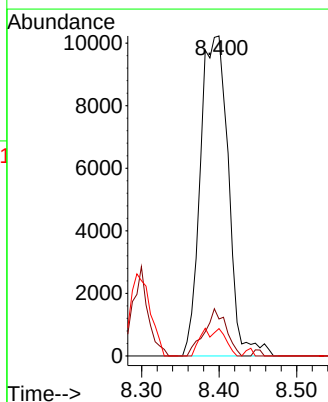
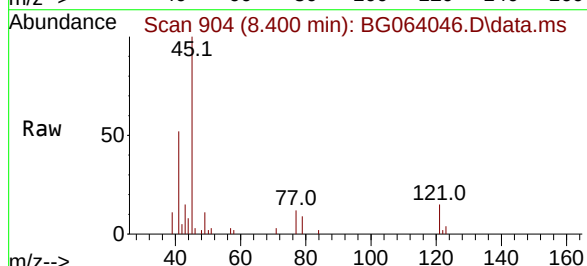
RT: 8.400 min Scan# 904

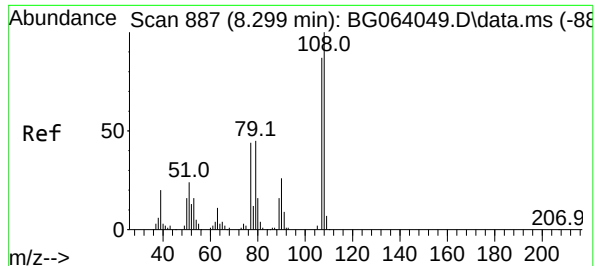
Delta R.T. 0.000 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 45    | Resp: | 25555 |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 77       | 11.5  | 0.0   | 29.0  |
| 79       | 8.5   | 0.0   | 26.6  |





#17

2-Methylphenol

Concen: 4.287 ng

RT: 8.300 min Scan# 887

Delta R.T. 0.000 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

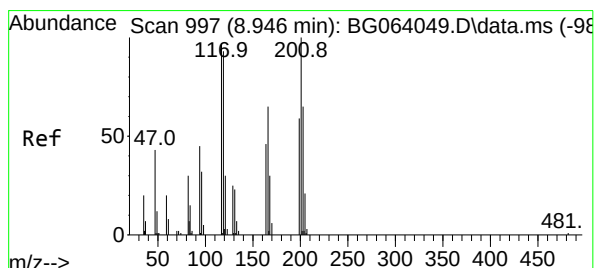
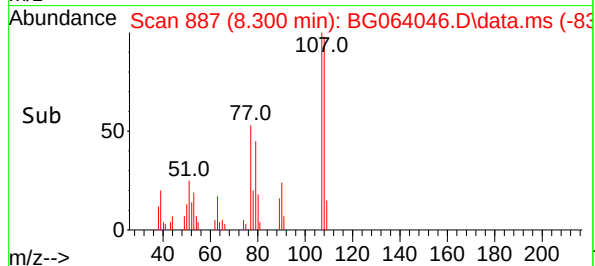
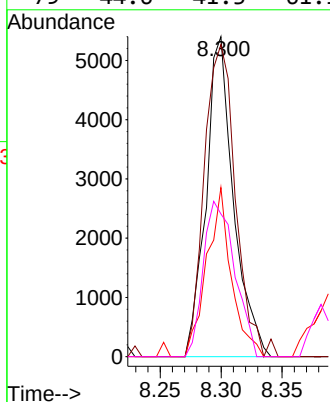
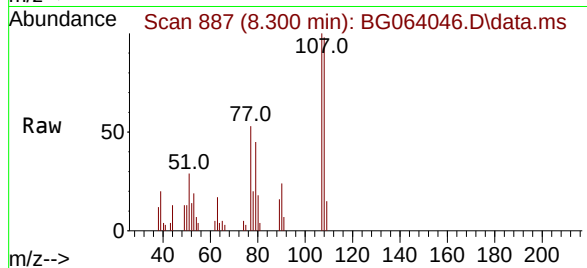
SSTDICC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 846   |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 97.5  | 92.5  | 138.7 |
| 77       | 52.8  | 40.5  | 60.7  |
| 79       | 44.6  | 41.3  | 61.9  |

## Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#18

Hexachloroethane

Concen: 4.510 ng

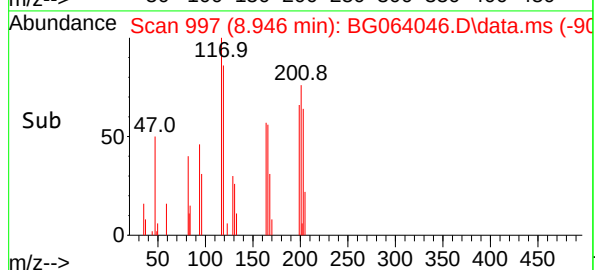
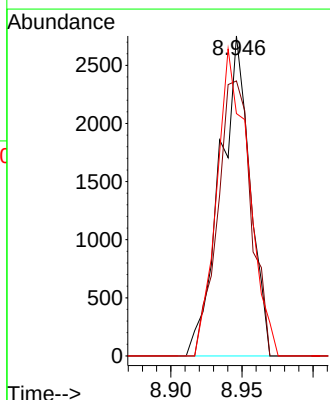
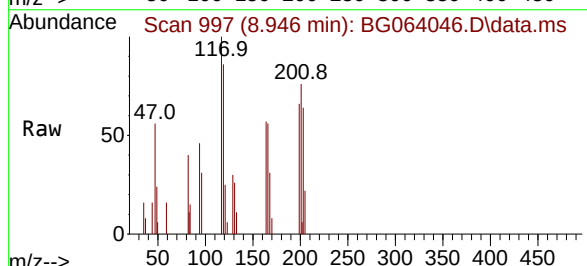
RT: 8.946 min Scan# 997

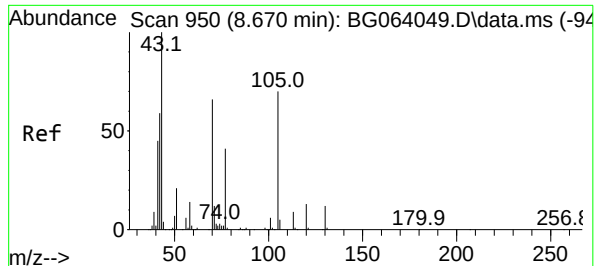
Delta R.T. 0.000 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 4075  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 85.9  | 76.2  | 114.2 |
| 201      | 81.9  | 81.5  | 122.3 |





#19

n-Nitroso-di-n-propylamine

Concen: 4.477 ng

RT: 8.664 min Scan# 949

Delta R.T. -0.006 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

SSTDICC005

Tgt Ion: 70 Resp: 913

Ion Ratio Lower Upper

70 100

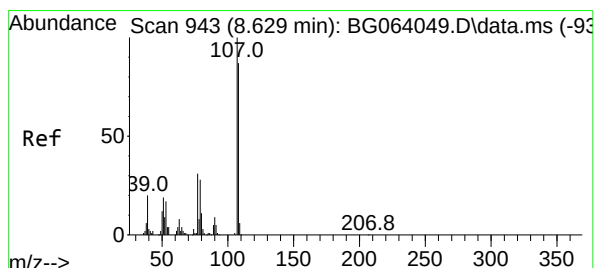
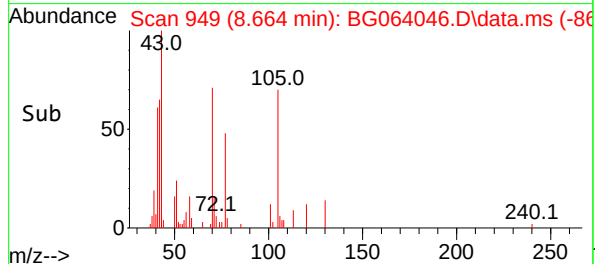
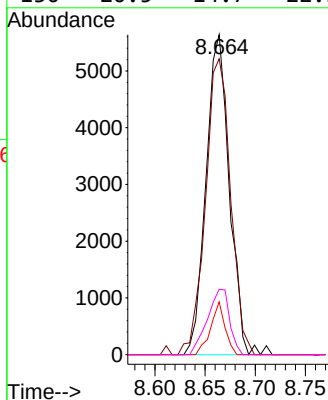
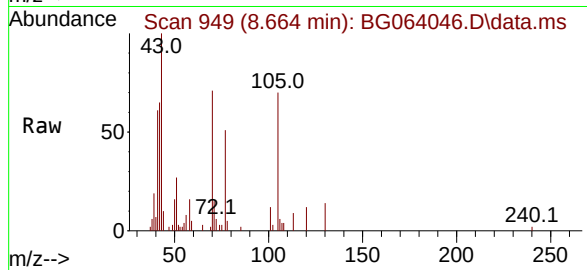
42 92.5 72.1 108.1

101 16.5 7.2 10.8

130 20.5 14.7 22.1

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#20

3+4-Methylphenols

Concen: 4.300 ng

RT: 8.623 min Scan# 942

Delta R.T. -0.006 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

Tgt Ion:107 Resp: 11690

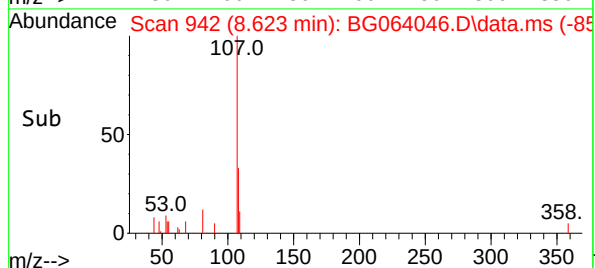
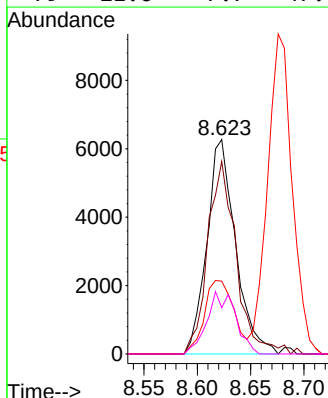
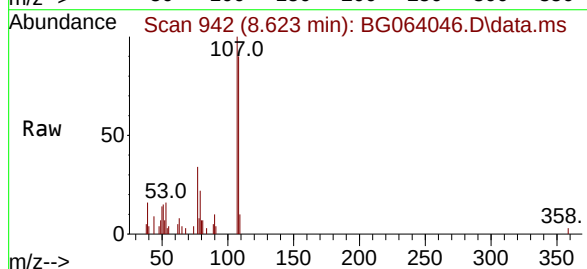
Ion Ratio Lower Upper

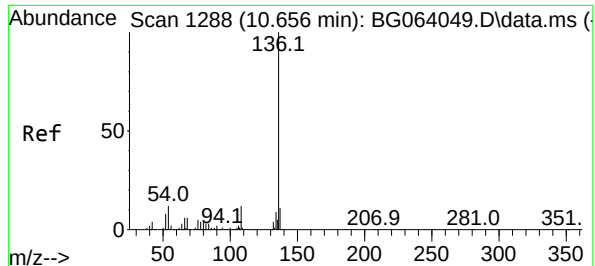
107 100

108 89.8 67.0 107.0

77 33.9 11.2 51.2

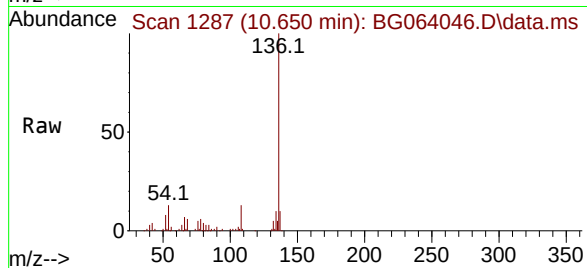
79 21.6 7.7 47.7





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.650 min Scan# 1288  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

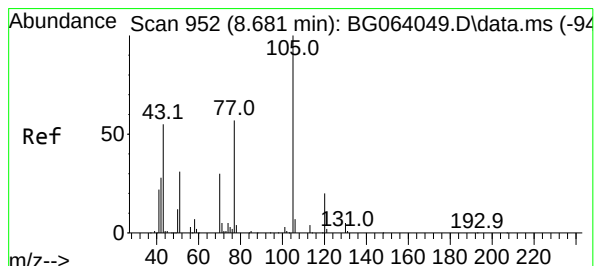
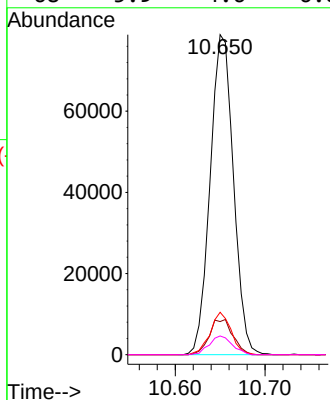
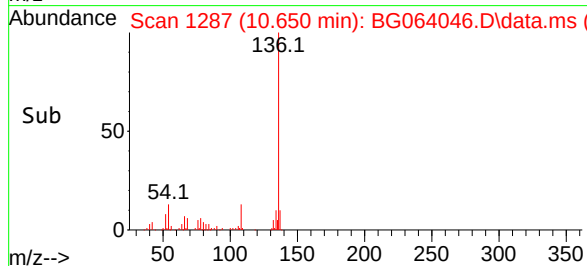
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion:136 Resp: 142015  
Ion Ratio Lower Upper  
136 100  
137 10.4 8.5 12.7  
54 13.2 9.9 14.9  
68 5.9 4.6 6.8

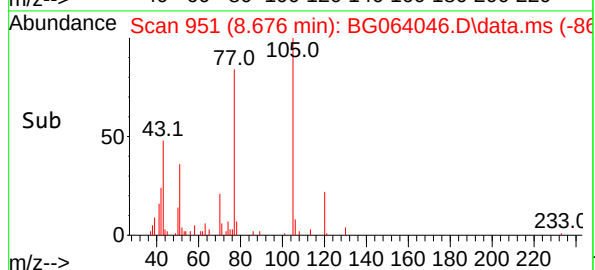
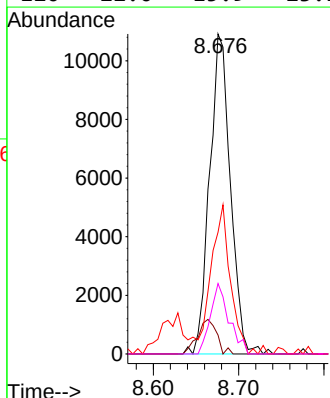
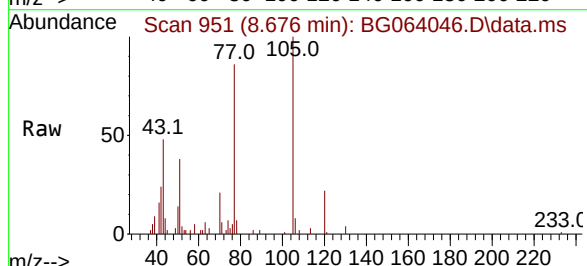
Manual Integrations  
APPROVED

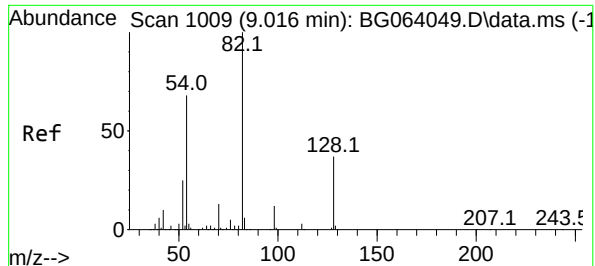
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#22  
Acetophenone  
Concen: 4.761 ng  
RT: 8.676 min Scan# 951  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Tgt Ion:105 Resp: 18540  
Ion Ratio Lower Upper  
105 100  
71 5.9 4.2 6.4  
51 38.1 33.3 49.9  
120 22.0 15.9 23.9





#23

Nitrobenzene-d5

Concen: 8.016 ng

RT: 9.011 min Scan# 1008

Delta R.T. -0.006 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

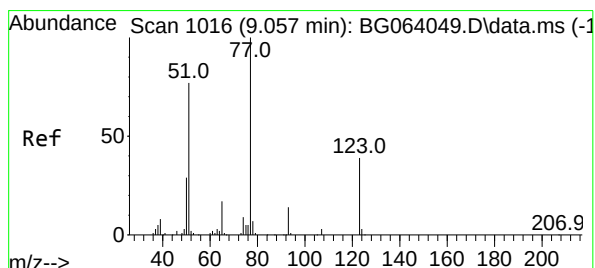
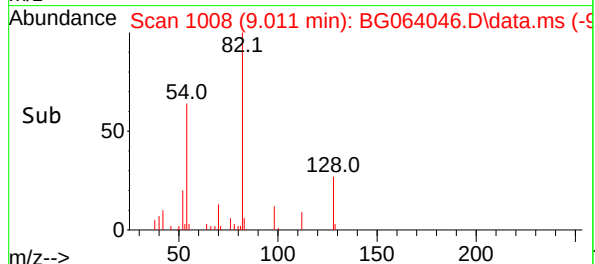
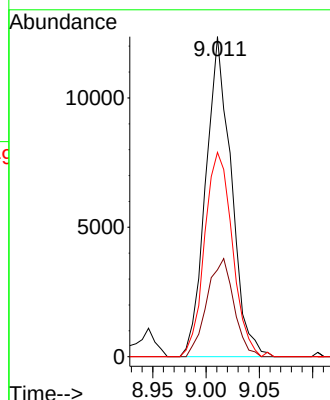
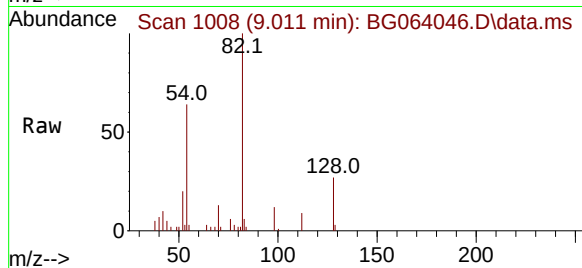
SSTDICC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2060  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 27.2  | 30.0  | 45.0  |
| 54       | 63.8  | 54.7  | 82.1  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#24

Nitrobenzene

Concen: 3.977 ng

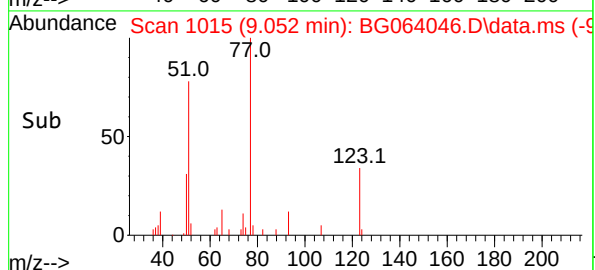
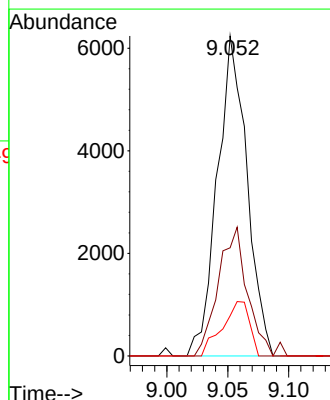
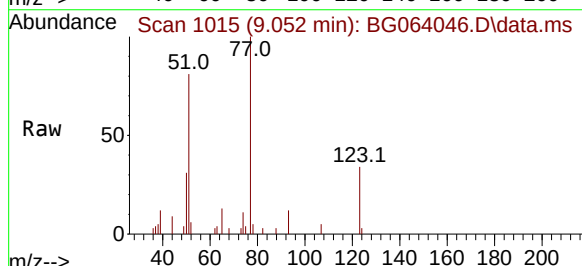
RT: 9.052 min Scan# 1015

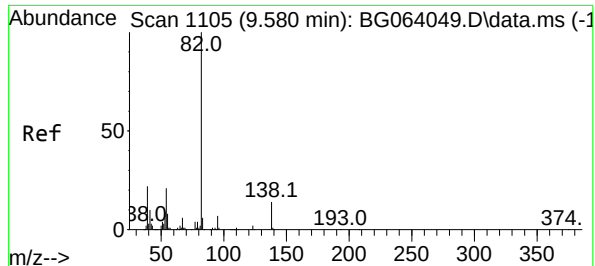
Delta R.T. -0.006 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 10563 |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 123      | 33.8  | 31.4  | 47.2  |
| 65       | 12.6  | 13.4  | 20.0  |





#25

Isophorone

Concen: 4.895 ng

RT: 9.575 min Scan# 1105

Delta R.T. -0.006 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

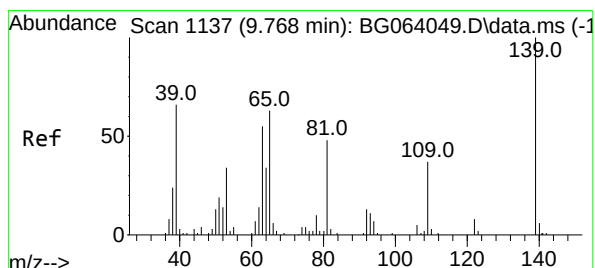
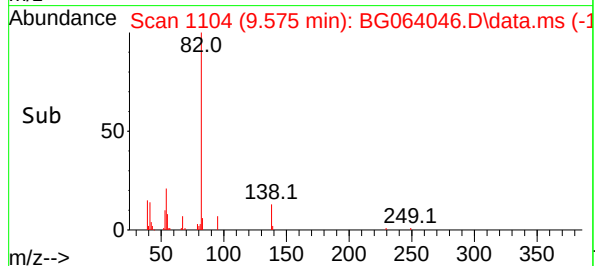
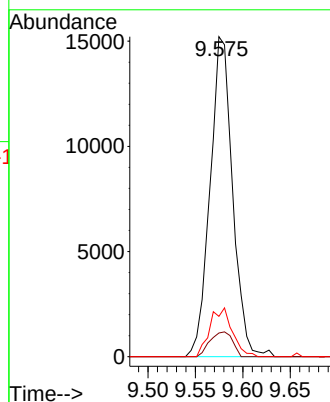
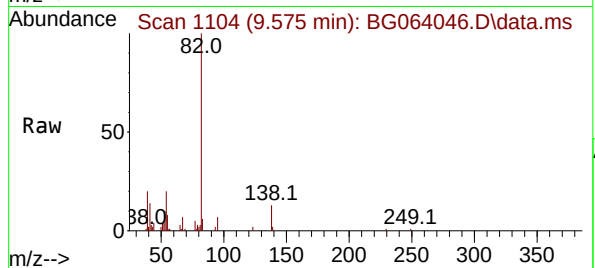
SSTDICC005

|             |             |
|-------------|-------------|
| Tgt Ion: 82 | Resp: 25179 |
| Ion Ratio   | Lower Upper |
| 82 100      |             |
| 95 7.4      | 5.8 8.8     |
| 138 12.6    | 10.9 16.3   |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025



#26

2-Nitrophenol

Concen: 6.094 ng

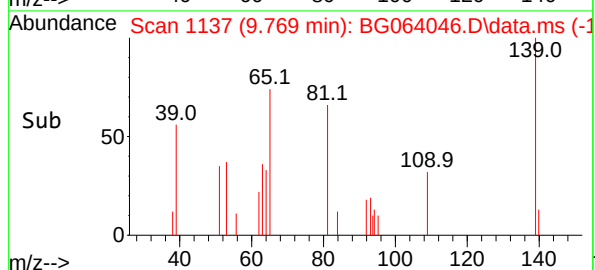
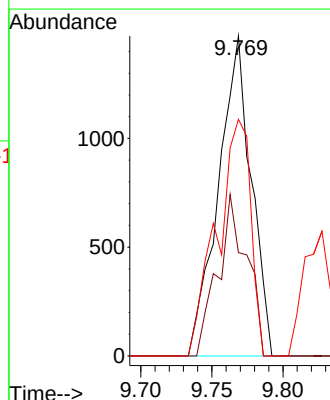
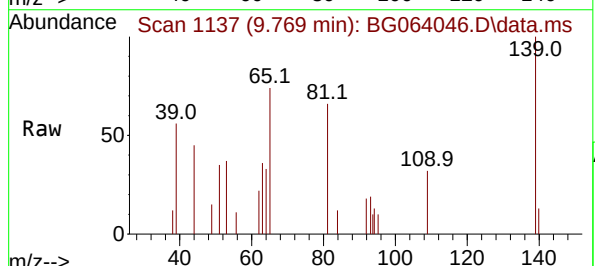
RT: 9.769 min Scan# 1137

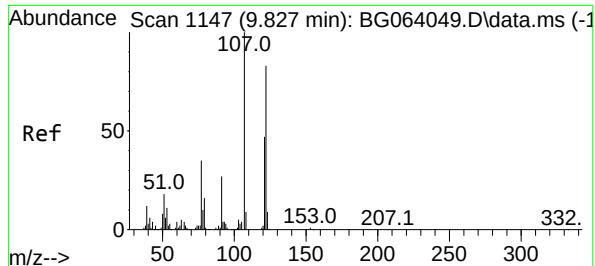
Delta R.T. 0.001 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

|             |             |
|-------------|-------------|
| Tgt Ion:139 | Resp: 2362  |
| Ion Ratio   | Lower Upper |
| 139 100     |             |
| 109 32.3    | 29.9 44.9   |
| 65 74.0     | 50.6 76.0   |





#27

2,4-Dimethylphenol

Concen: 4.466 ng

RT: 9.822 min Scan# 1147

Delta R.T. -0.006 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

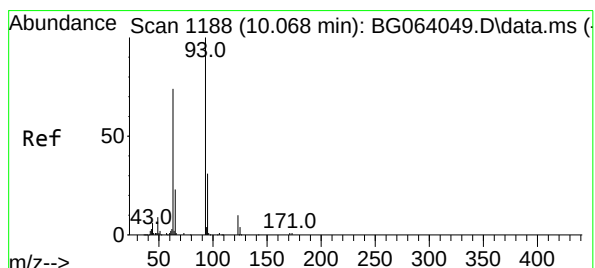
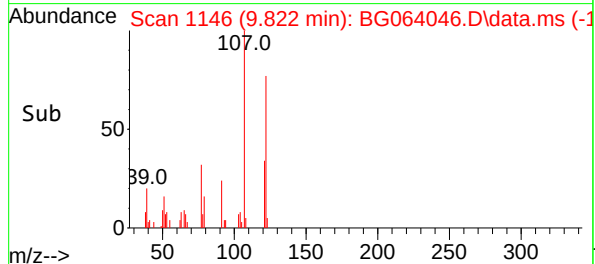
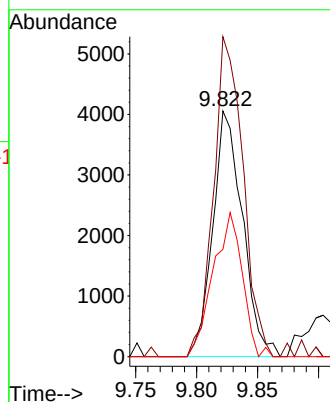
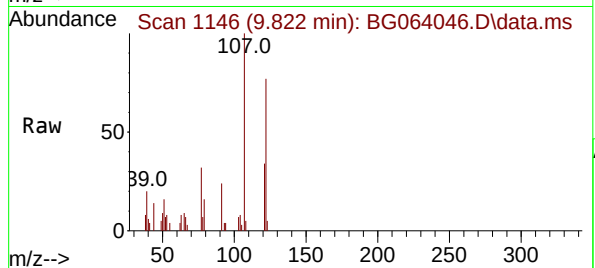
SSTDICC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 122   | Resp: | 688   |
| Ion      | Ratio | Lower | Upper |
| 122      | 100   |       |       |
| 107      | 130.3 | 95.4  | 143.0 |
| 121      | 43.7  | 44.9  | 67.3  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#28

bis(2-Chloroethoxy)methane

Concen: 4.832 ng

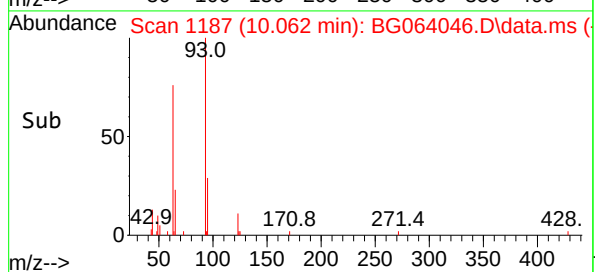
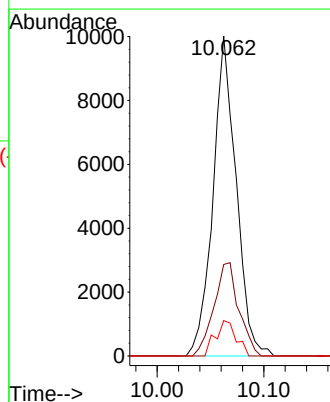
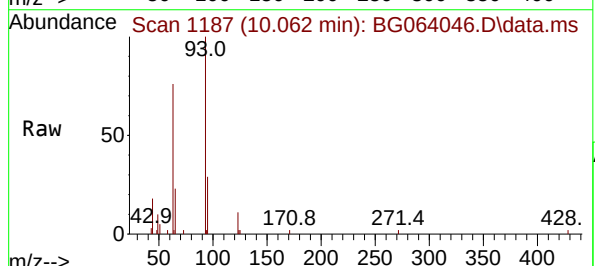
RT: 10.062 min Scan# 1187

Delta R.T. -0.006 min

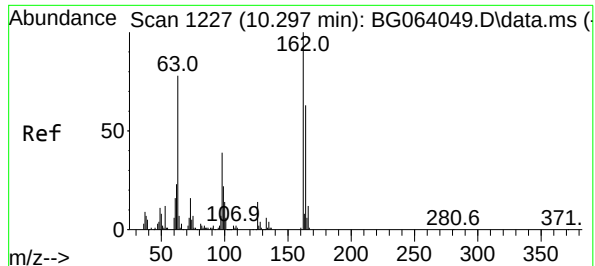
Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 15067 |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 95       | 28.6  | 25.0  | 37.4  |
| 123      | 11.1  | 7.6   | 11.4  |

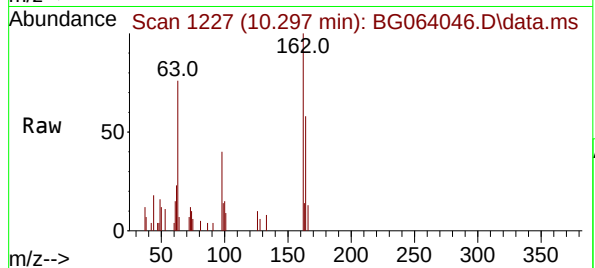






#29  
2,4-Dichlorophenol  
Concen: 4.056 ng  
RT: 10.297 min Scan# 1227  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

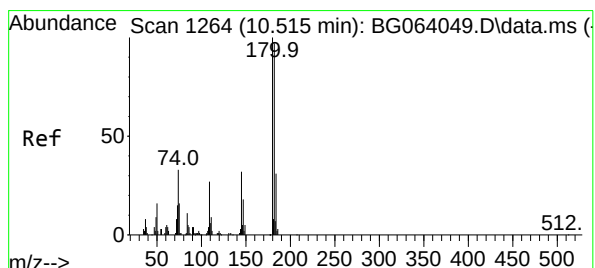
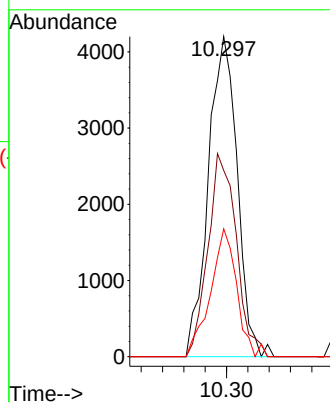
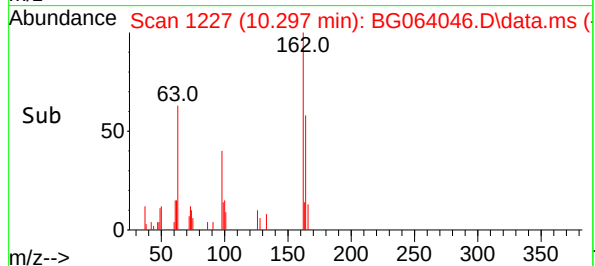
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion:162 Resp: 789  
Ion Ratio Lower Upper  
162 100  
164 58.2 42.8 82.8  
98 40.0 19.1 59.1

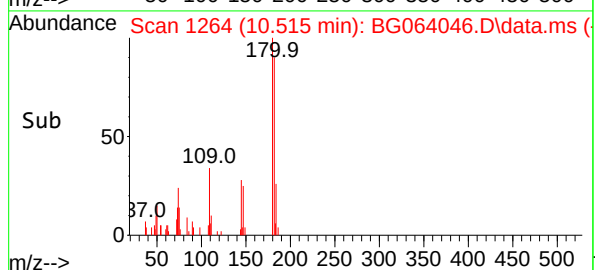
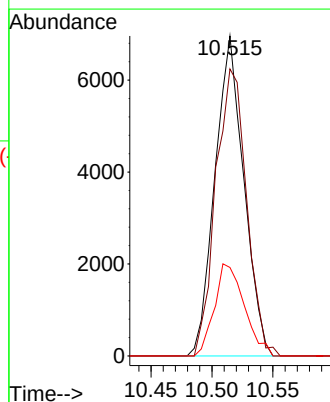
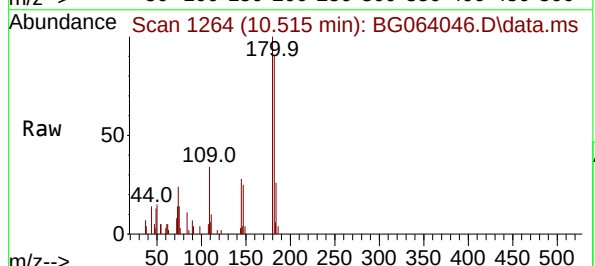
Manual Integrations  
APPROVED

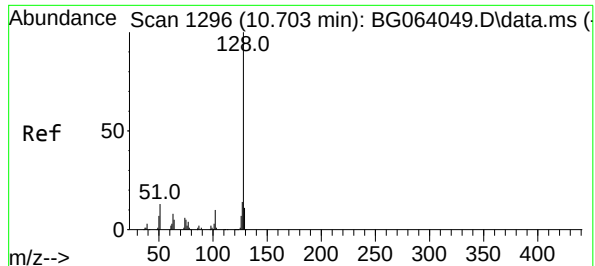
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#30  
1,2,4-Trichlorobenzene  
Concen: 4.884 ng  
RT: 10.515 min Scan# 1264  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

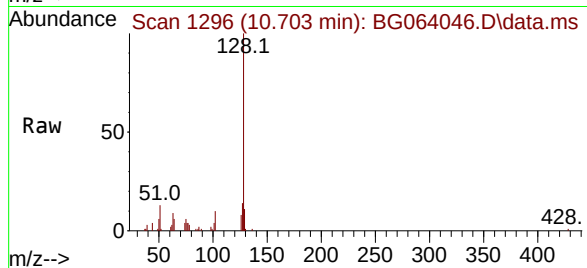
Tgt Ion:180 Resp: 11480  
Ion Ratio Lower Upper  
180 100  
182 89.7 77.3 115.9  
145 27.7 25.2 37.8





#31  
Naphthalene  
Concen: 4.999 ng  
RT: 10.703 min Scan# 1296  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

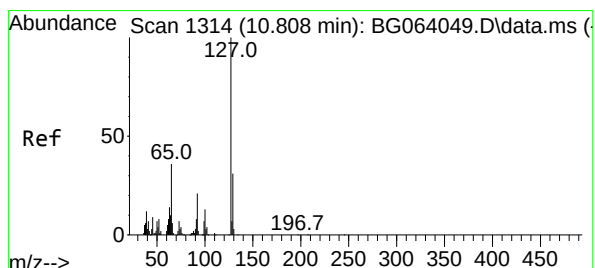
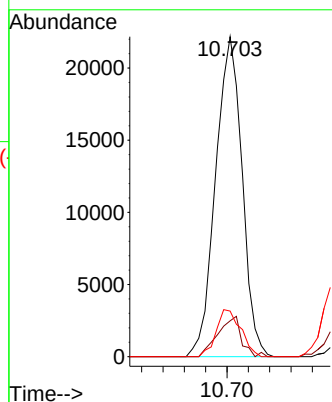
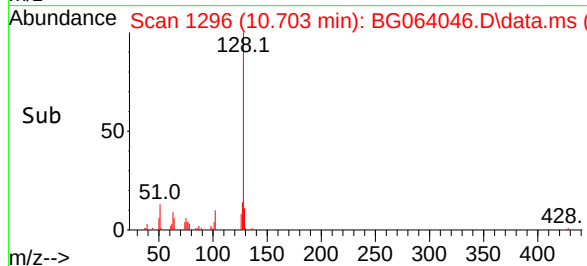
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion:128 Resp: 3828  
Ion Ratio Lower Upper  
128 100  
129 11.2 8.4 12.6  
127 14.3 11.1 16.7

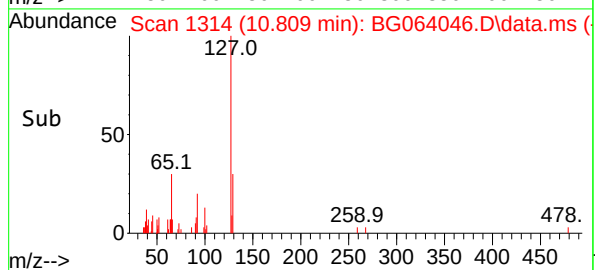
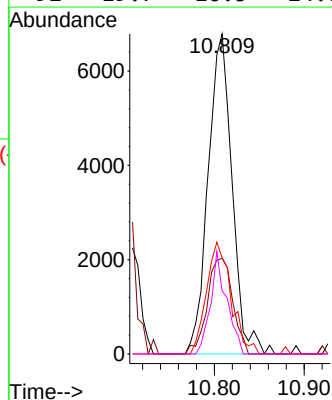
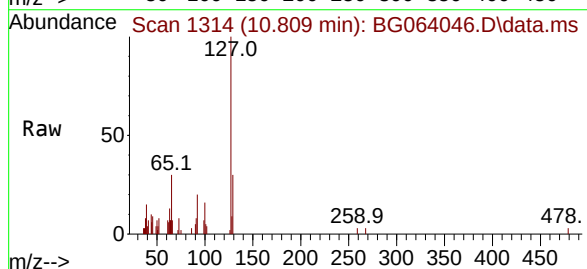
Manual Integrations  
APPROVED

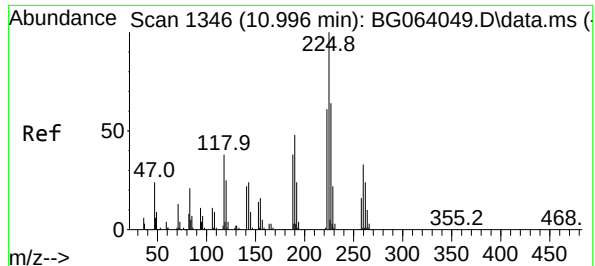
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#33  
4-Chloroaniline  
Concen: 4.499 ng  
RT: 10.809 min Scan# 1314  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

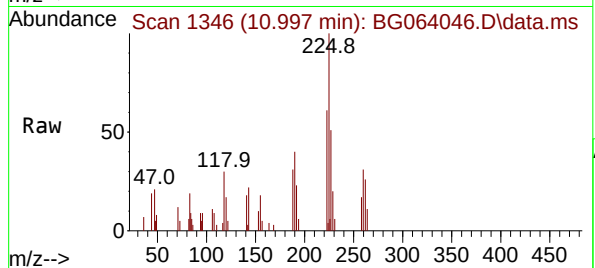
Tgt Ion:127 Resp: 12591  
Ion Ratio Lower Upper  
127 100  
129 29.8 25.0 37.4  
65 30.1 28.5 42.7  
92 19.7 16.5 24.7





#34  
Hexachlorobutadiene  
Concen: 4.786 ng  
RT: 10.997 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

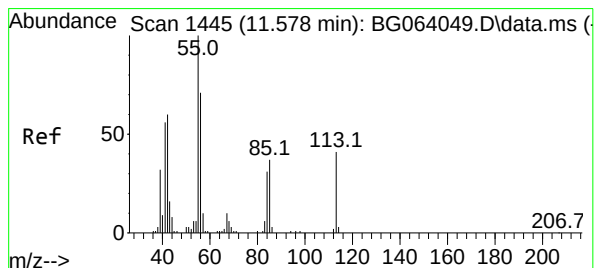
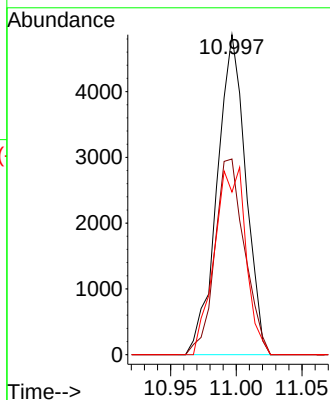
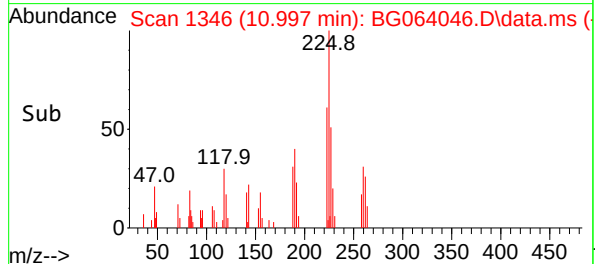
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion:225 Resp: 737  
Ion Ratio Lower Upper  
225 100  
223 61.2 48.5 72.7  
227 50.8 51.0 76.6

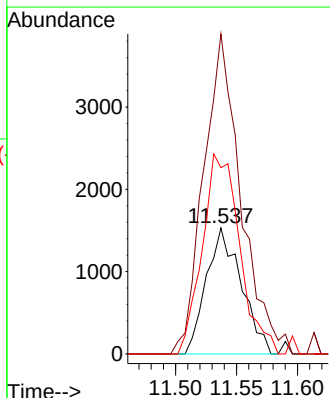
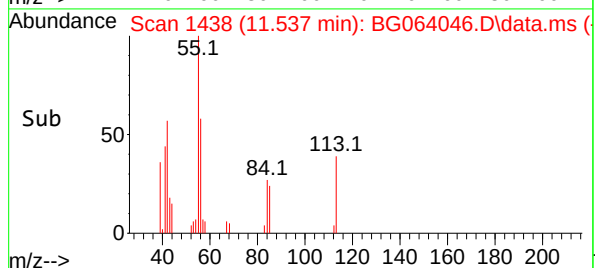
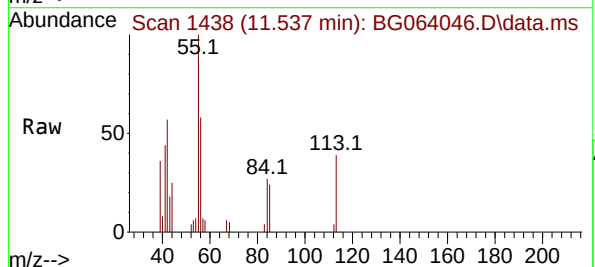
Manual Integrations  
APPROVED

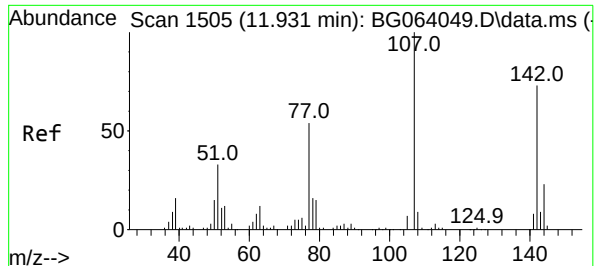
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#35  
Caprolactam  
Concen: 4.090 ng  
RT: 11.537 min Scan# 1438  
Delta R.T. -0.041 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Tgt Ion:113 Resp: 3052  
Ion Ratio Lower Upper  
113 100  
55 254.1 225.2 265.2  
56 147.8 153.4 193.4#





#36  
4-Chloro-3-methylphenol  
Concen: 4.078 ng  
RT: 11.925 min Scan# 1505  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

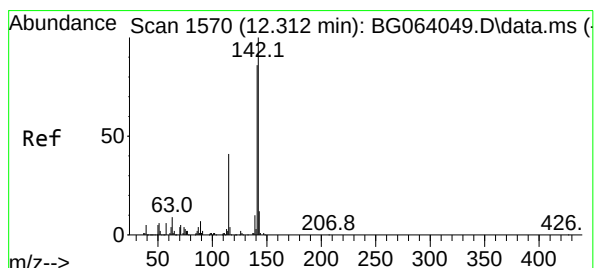
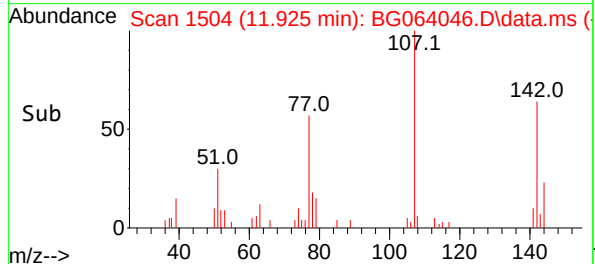
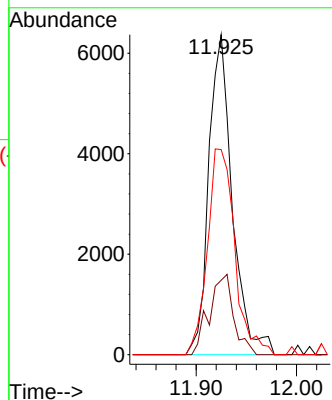
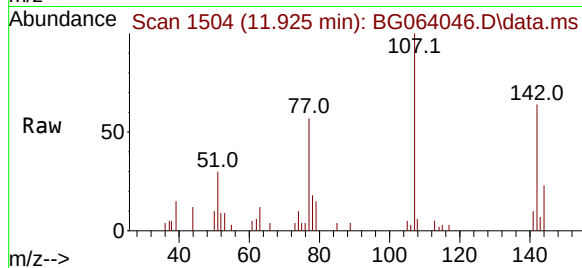
SSTDIC005

Tgt Ion:107 Resp: 10408  
Ion Ratio Lower Upper  
107 100  
144 23.2 18.6 28.0  
142 64.1 58.0 87.0

Manual Integrations

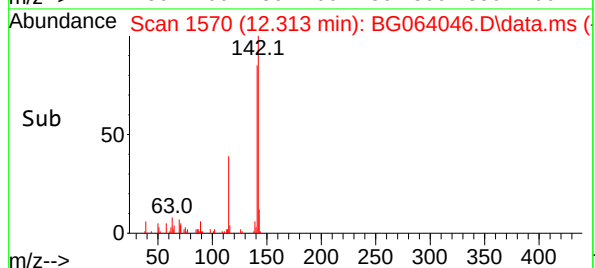
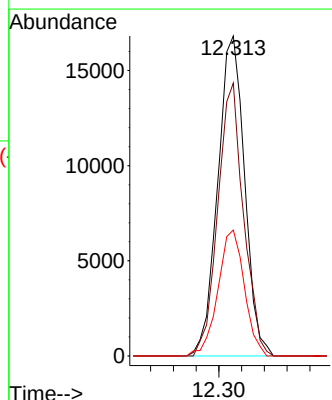
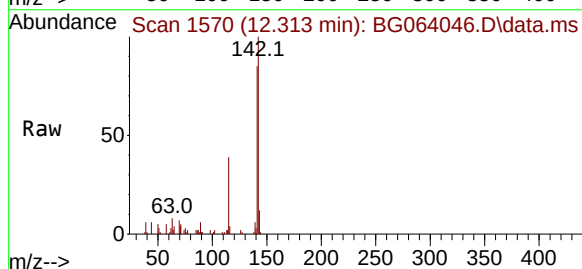
APPROVED

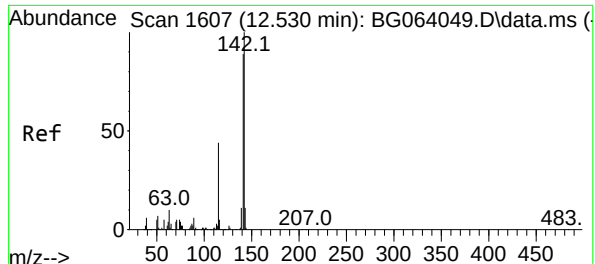
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#37  
2-Methylnaphthalene  
Concen: 5.093 ng  
RT: 12.313 min Scan# 1570  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

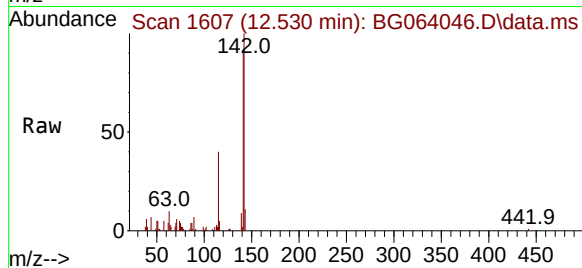
Tgt Ion:142 Resp: 27533  
Ion Ratio Lower Upper  
142 100  
141 85.3 68.6 103.0  
115 39.4 32.8 49.2





#38  
1-Methylnaphthalene  
Concen: 4.995 ng  
RT: 12.530 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

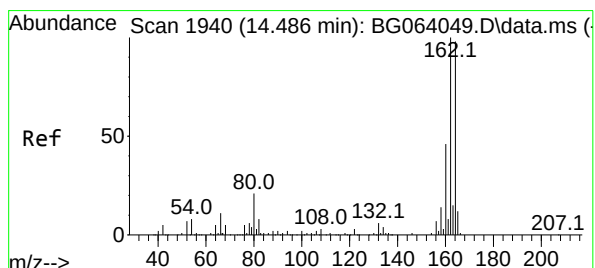
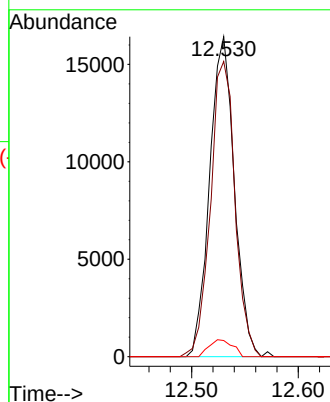
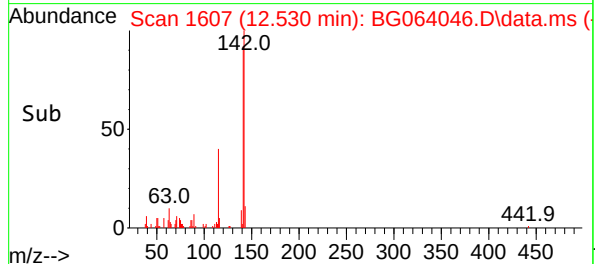
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



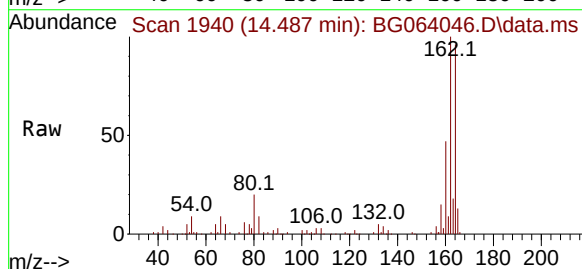
Tgt Ion:142 Resp: 26458  
Ion Ratio Lower Upper  
142 100  
141 92.2 71.2 106.8  
116 5.0 3.6 5.4

Manual Integrations  
APPROVED

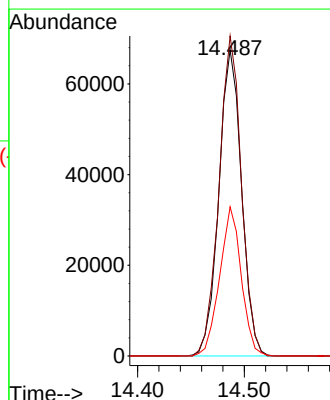
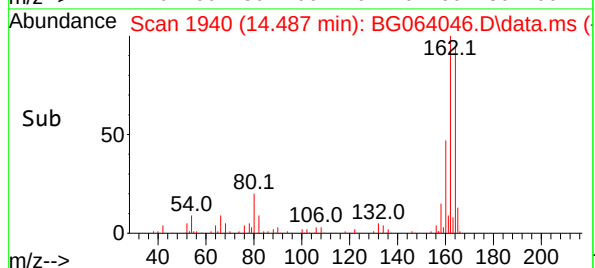
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

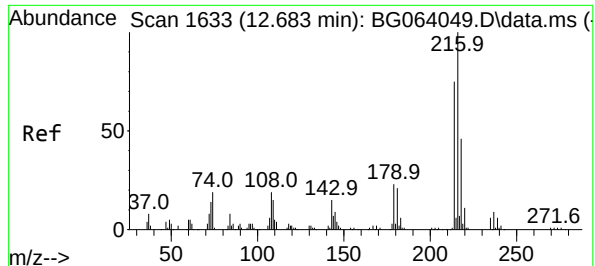


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.487 min Scan# 1940  
Delta R.T. 0.001 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42



Tgt Ion:164 Resp: 99722  
Ion Ratio Lower Upper  
164 100  
162 104.5 81.4 122.0  
160 48.7 37.0 55.6





#40

1,2,4,5-Tetrachlorobenzene

Concen: 4.789 ng

RT: 12.677 min Scan# 1

Delta R.T. -0.006 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

SSTDICC005

Tgt Ion:216 Resp: 13634

Ion Ratio Lower Upper

216 100

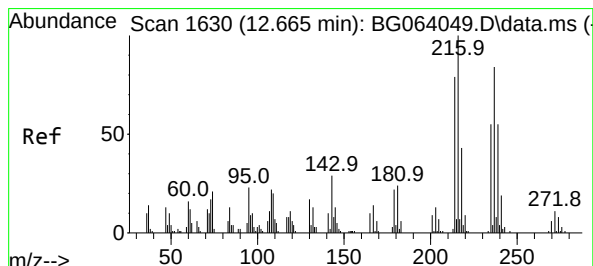
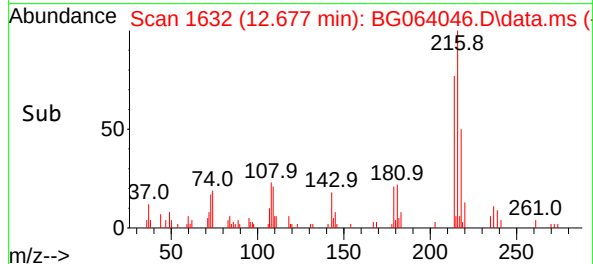
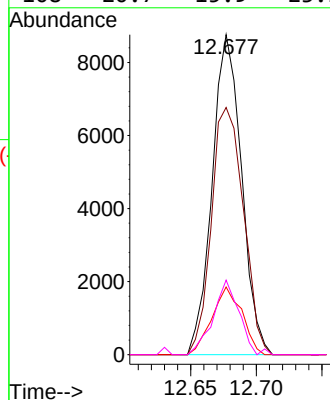
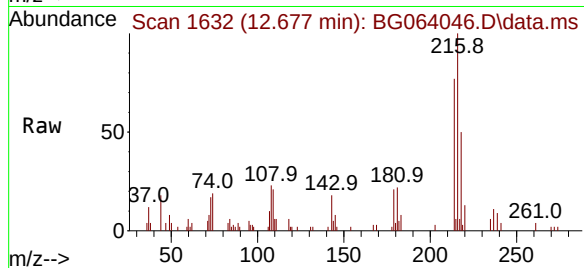
214 84.2 61.7 92.5

179 21.6 17.9 26.9

108 20.7 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#41

Hexachlorocyclopentadiene

Concen: 3.841 ng

RT: 12.665 min Scan# 1630

Delta R.T. 0.000 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

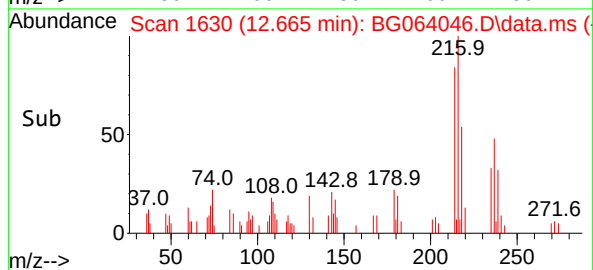
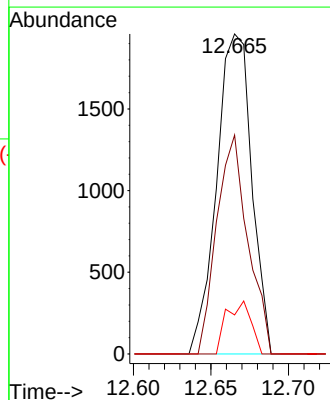
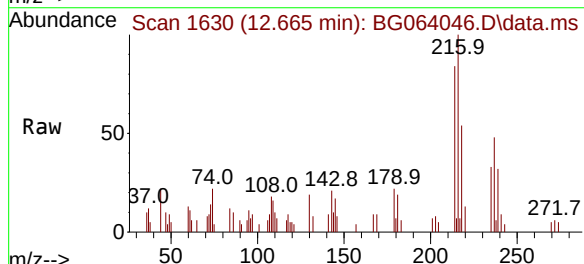
Tgt Ion:237 Resp: 3078

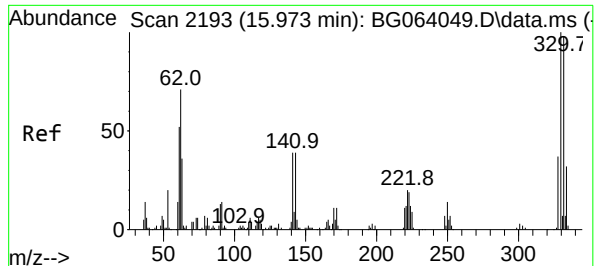
Ion Ratio Lower Upper

237 100

235 68.4 46.0 86.0

272 12.2 0.0 32.8





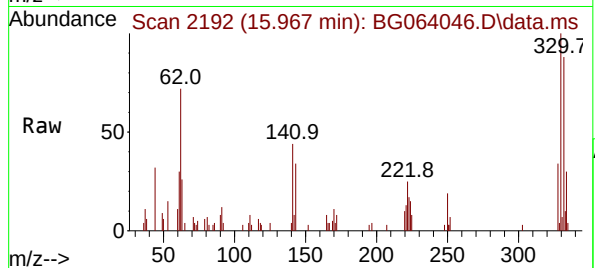
#42  
2,4,6-Tribromophenol  
Concen: 7.487 ng  
RT: 15.967 min Scan# 2192  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

SSTDICC005

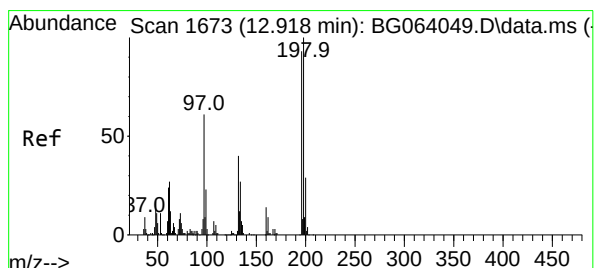
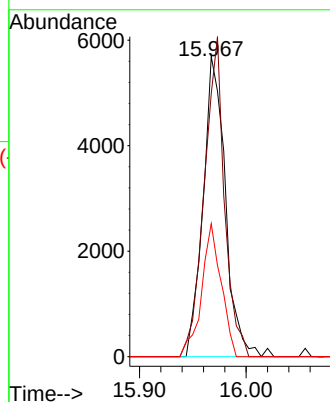
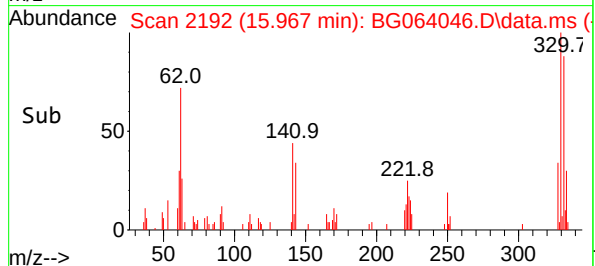


Tgt Ion:330 Resp: 8299  
Ion Ratio Lower Upper  
330 100  
332 96.5 76.7 115.1  
141 38.7 29.7 44.5

Manual Integrations

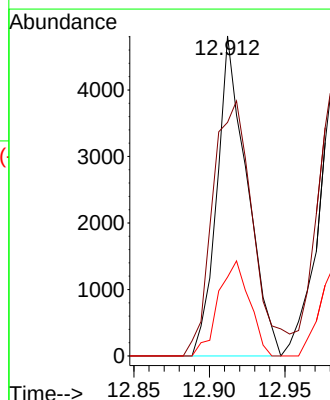
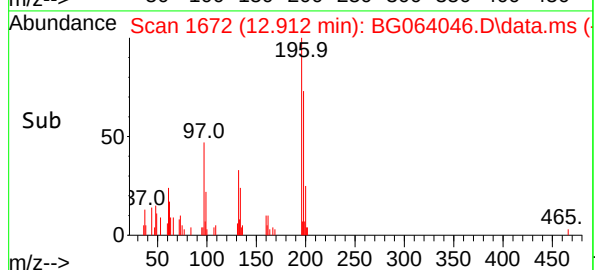
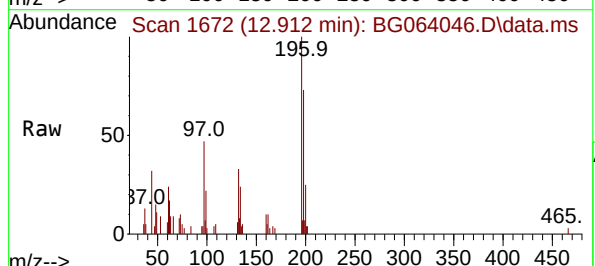
APPROVED

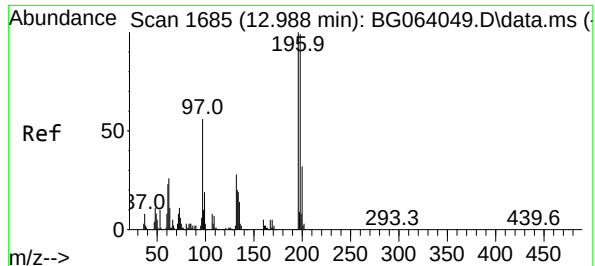
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#43  
2,4,6-Trichlorophenol  
Concen: 3.983 ng m  
RT: 12.912 min Scan# 1672  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Tgt Ion:196 Resp: 6684  
Ion Ratio Lower Upper  
196 100  
198 73.0 85.6 128.4#  
200 24.6 24.6 37.0





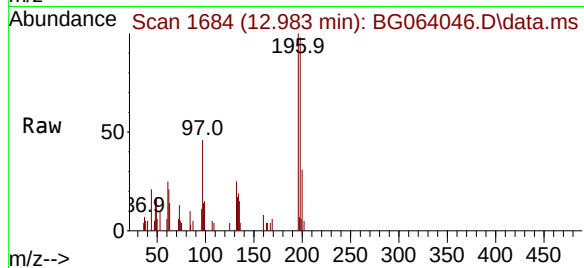
#44  
2,4,5-Trichlorophenol  
Concen: 3.804 ng  
RT: 12.983 min Scan# 1706  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

SSTDICC005

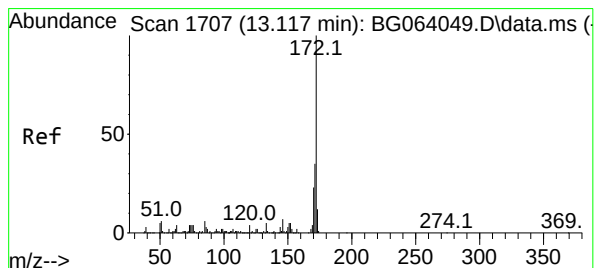
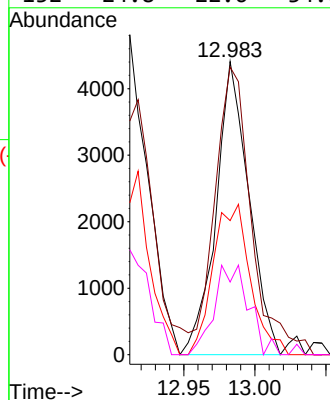
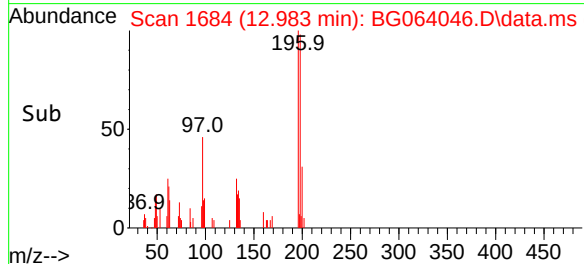


Tgt Ion:196 Resp: 7092  
Ion Ratio Lower Upper  
196 100  
198 98.2 79.5 119.3  
97 45.7 45.2 67.8  
132 24.8 22.6 34.0

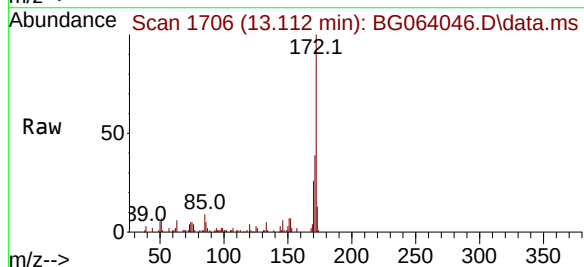
Manual Integrations

APPROVED

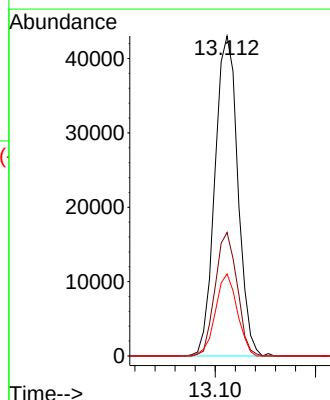
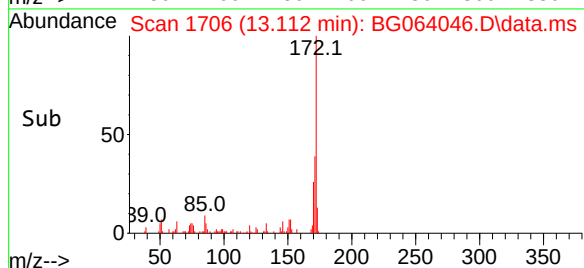
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



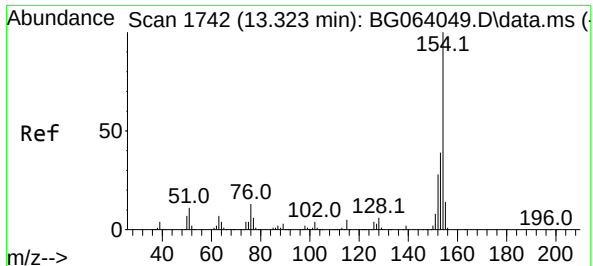
#45  
2-Fluorobiphenyl  
Concen: 10.386 ng  
RT: 13.112 min Scan# 1706  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42



Tgt Ion:172 Resp: 68235  
Ion Ratio Lower Upper  
172 100  
171 38.6 28.0 42.0  
170 25.7 18.7 28.1

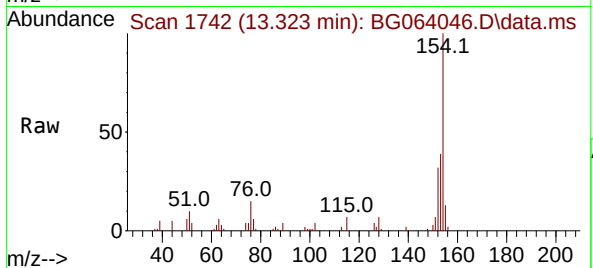






#46  
1,1'-Biphenyl  
Concen: 4.984 ng  
RT: 13.323 min Scan# 1742  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

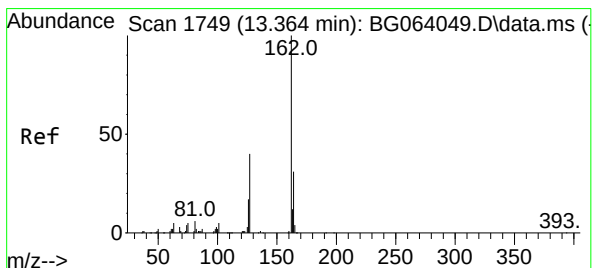
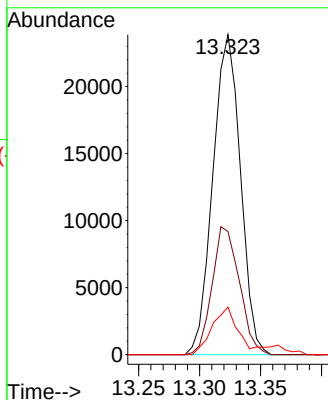
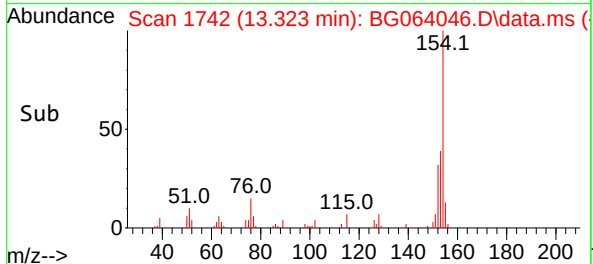
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion:154 Resp: 37550  
Ion Ratio Lower Upper  
154 100  
153 38.5 19.5 59.5  
76 14.8 0.0 33.5

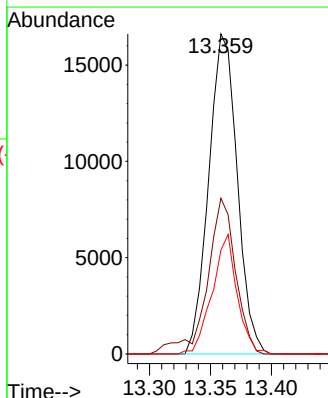
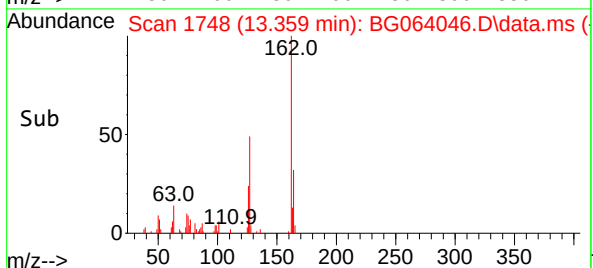
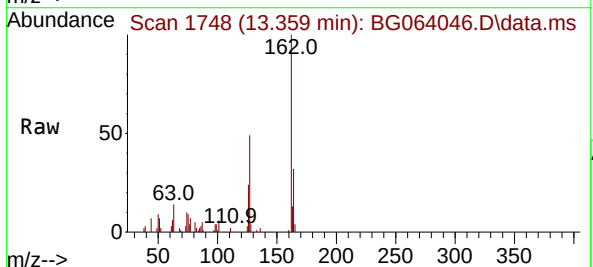
Manual Integrations  
APPROVED

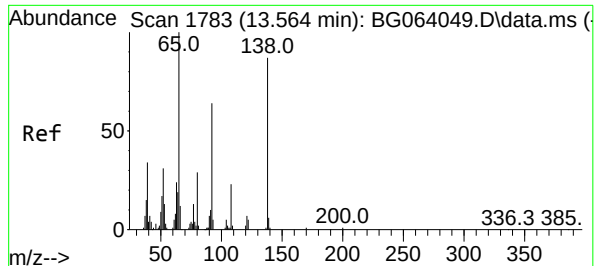
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#47  
2-Chloronaphthalene  
Concen: 4.928 ng  
RT: 13.359 min Scan# 1748  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Tgt Ion:162 Resp: 27076  
Ion Ratio Lower Upper  
162 100  
127 48.7 35.0 52.4  
164 32.4 25.0 37.6





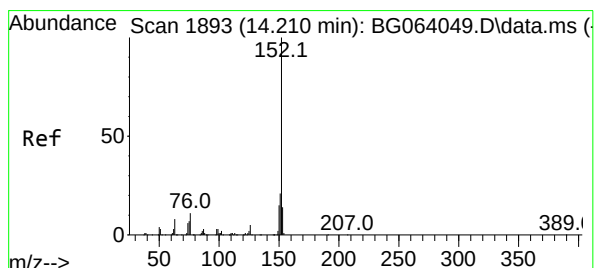
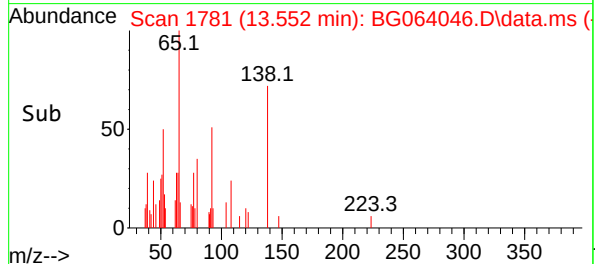
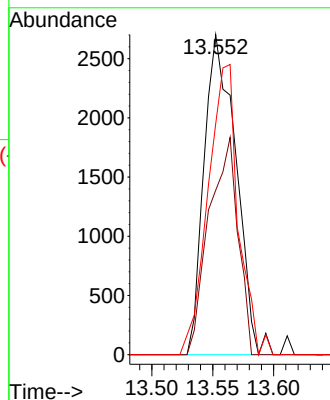
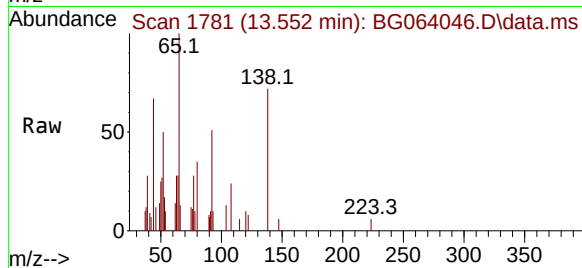
#48  
2-Nitroaniline  
Concen: 6.075 ng  
RT: 13.552 min Scan# 1781  
Delta R.T. -0.012 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005

Tgt Ion: 65 Resp: 4908  
Ion Ratio Lower Upper  
65 100  
92 51.4 51.2 76.8  
138 72.2 69.4 104.2

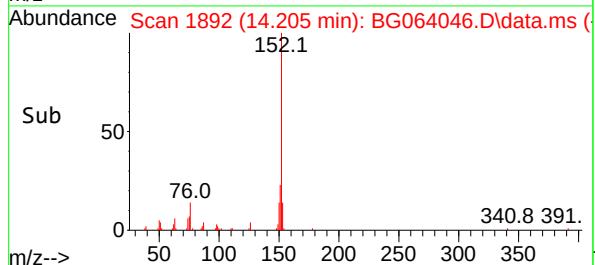
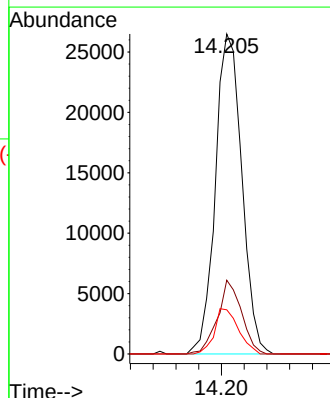
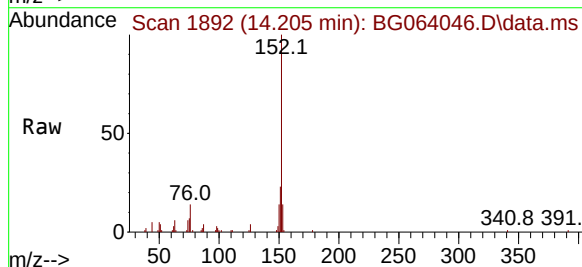
Manual Integrations  
APPROVED

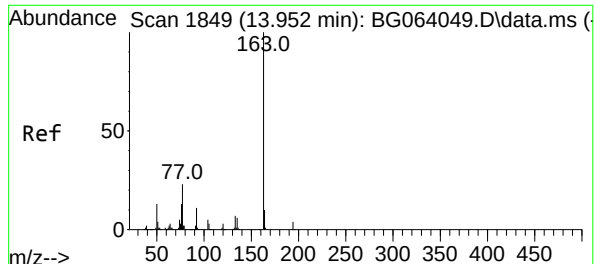
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#49  
Acenaphthylene  
Concen: 4.917 ng  
RT: 14.205 min Scan# 1892  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

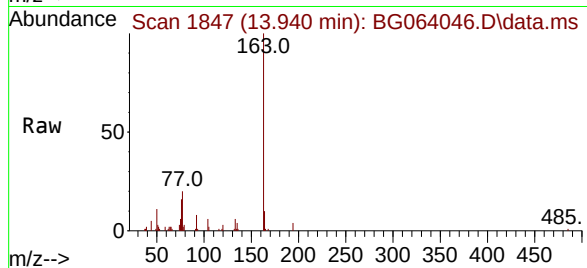
Tgt Ion:152 Resp: 42736  
Ion Ratio Lower Upper  
152 100  
151 23.1 16.4 24.6  
153 13.8 10.9 16.3





#50  
Dimethylphthalate  
Concen: 4.849 ng  
RT: 13.940 min Scan# 1847  
Delta R.T. -0.011 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

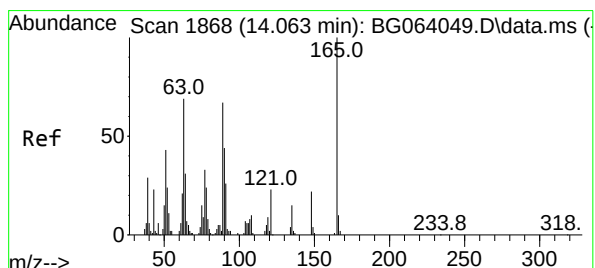
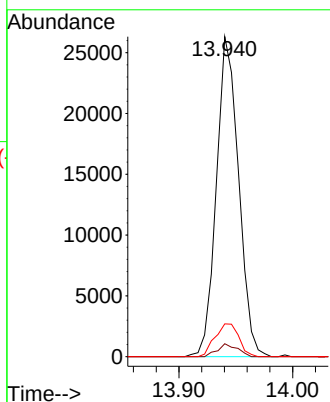
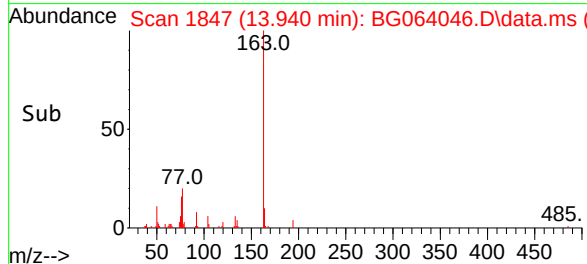
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion:163 Resp: 35694  
Ion Ratio Lower Upper  
163 100  
194 4.1 2.8 4.2  
164 10.2 8.2 12.2

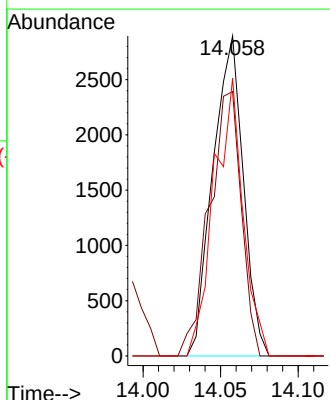
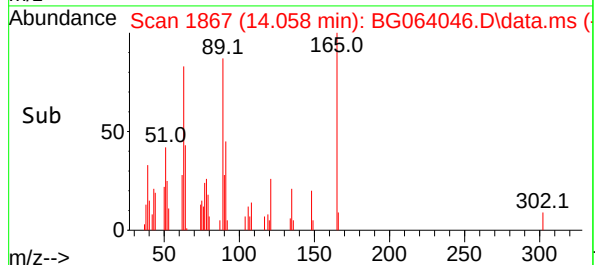
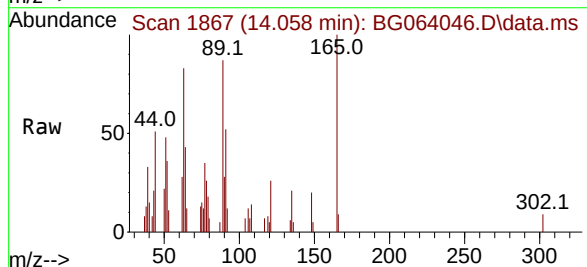
Manual Integrations  
APPROVED

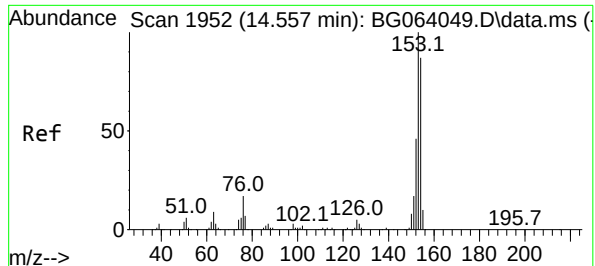
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#51  
2,6-Dinitrotoluene  
Concen: 5.812 ng  
RT: 14.058 min Scan# 1867  
Delta R.T. -0.005 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

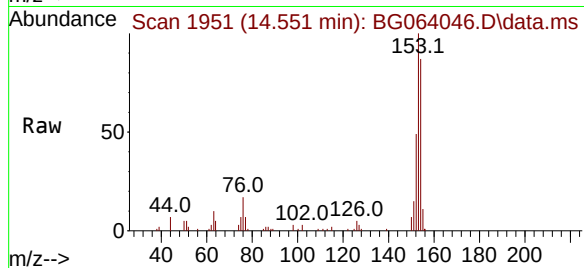
Tgt Ion:165 Resp: 3942  
Ion Ratio Lower Upper  
165 100  
63 82.6 56.7 85.1  
89 86.8 53.7 80.5#





#52  
Acenaphthene  
Concen: 4.969 ng m  
RT: 14.551 min Scan# 1952  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

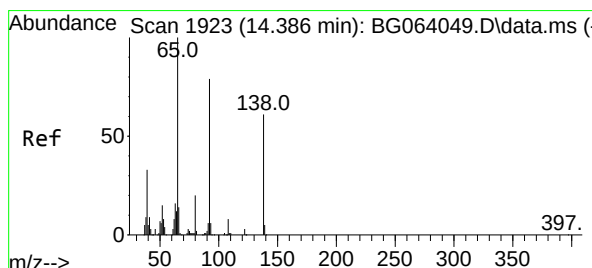
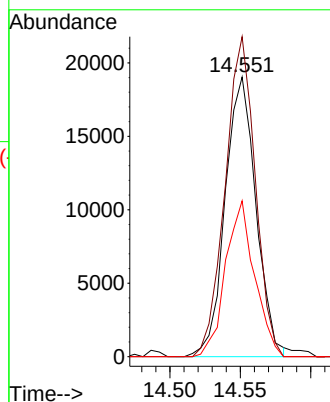
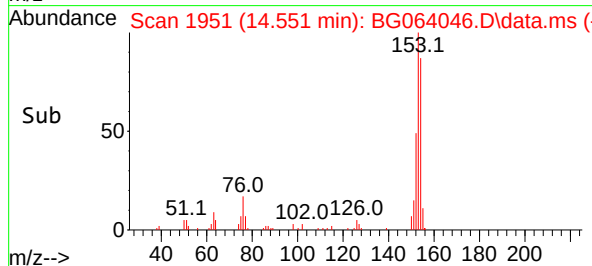
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion:154 Resp: 2904  
Ion Ratio Lower Upper  
154 100  
153 114.4 91.6 137.4  
152 55.7 42.5 63.7

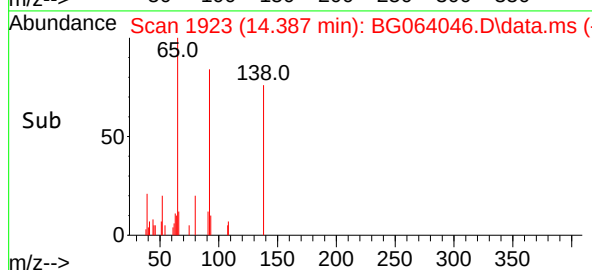
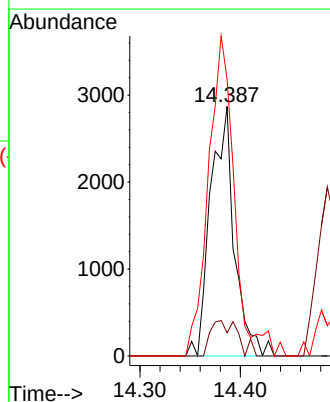
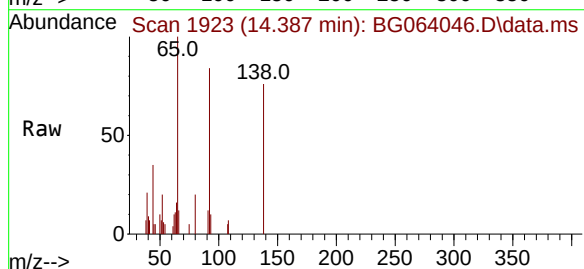
Manual Integrations  
APPROVED

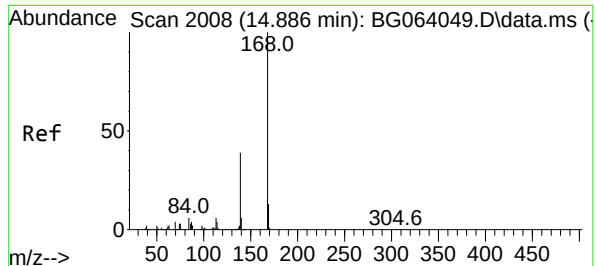
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#53  
3-Nitroaniline  
Concen: 3.329 ng  
RT: 14.387 min Scan# 1923  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

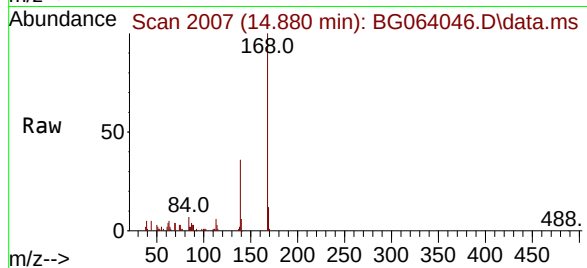
Tgt Ion:138 Resp: 4736  
Ion Ratio Lower Upper  
138 100  
108 9.3 10.1 15.1#  
92 110.9 104.1 156.1





#55  
Dibenzenofuran  
Concen: 5.080 ng  
RT: 14.880 min Scan# 2000  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

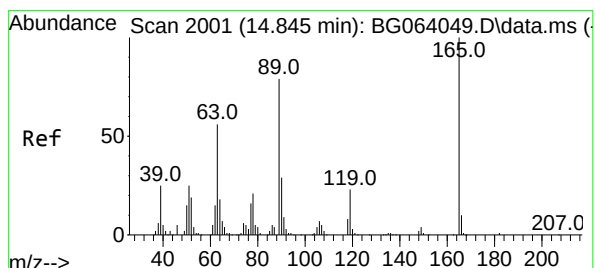
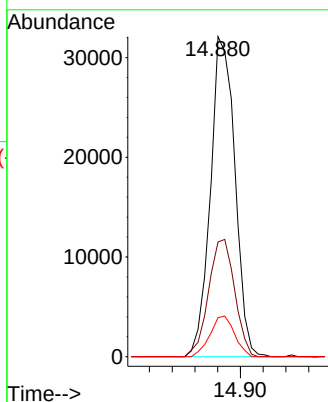
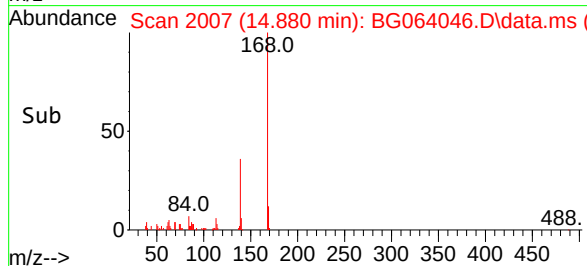
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion:168 Resp: 48004  
Ion Ratio Lower Upper  
168 100  
139 35.8 31.1 46.7  
169 12.2 10.5 15.7

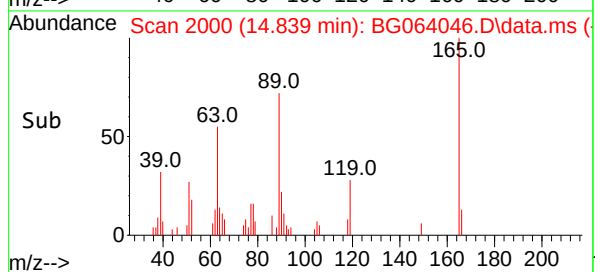
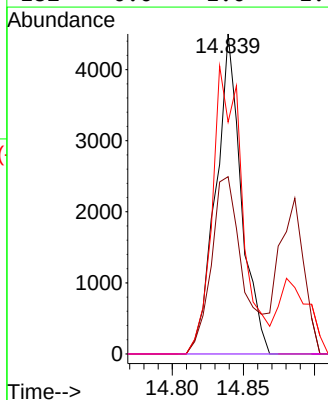
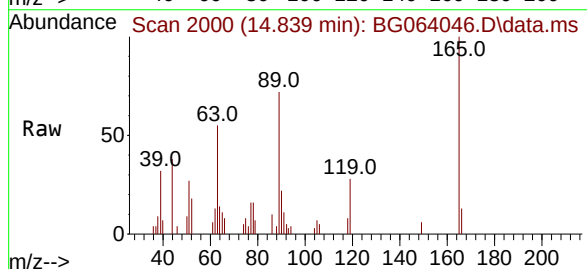
Manual Integrations  
APPROVED

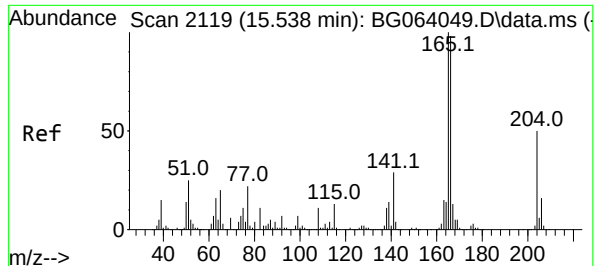
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#57  
2,4-Dinitrotoluene  
Concen: 6.165 ng  
RT: 14.839 min Scan# 2000  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Tgt Ion:165 Resp: 5618  
Ion Ratio Lower Upper  
165 100  
63 55.4 45.0 67.6  
89 72.5 63.1 94.7  
182 0.0 1.0 1.4#





#58  
Fluorene  
Concen: 5.269 ng  
RT: 15.532 min Scan# 2119  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

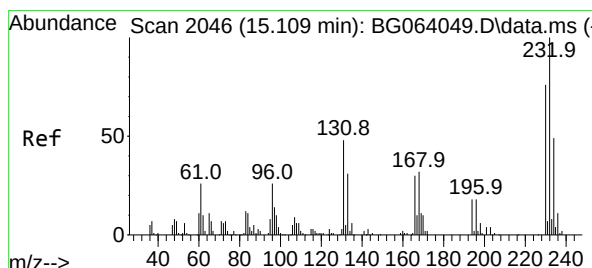
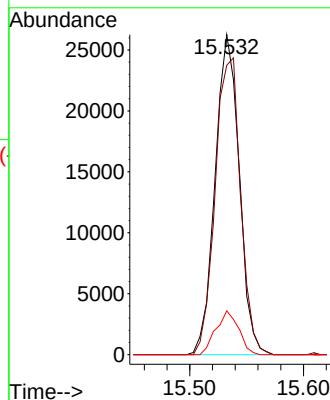
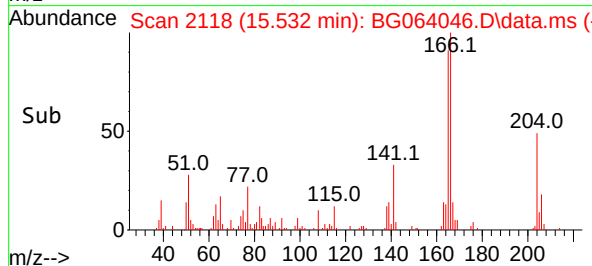
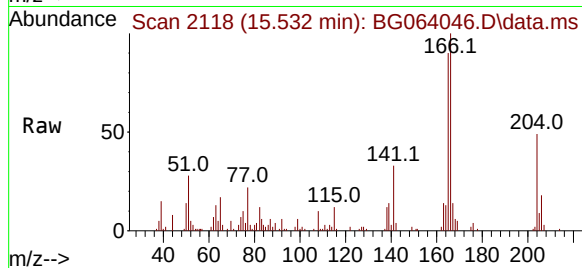
SSTDICC005

Tgt Ion:166 Resp: 3877  
Ion Ratio Lower Upper  
166 100  
165 90.4 81.8 122.8  
167 13.7 10.8 16.2

Manual Integrations

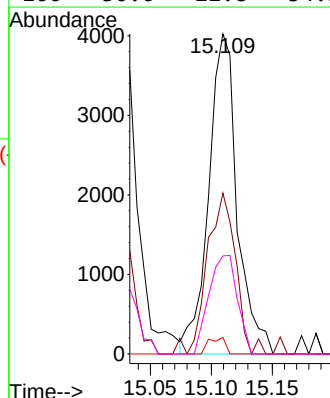
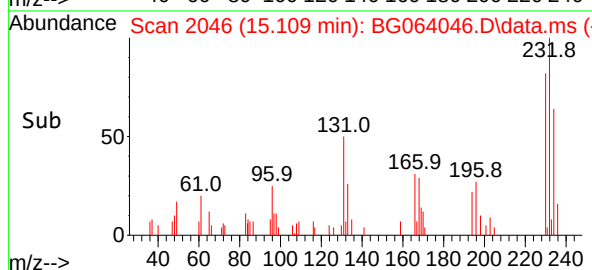
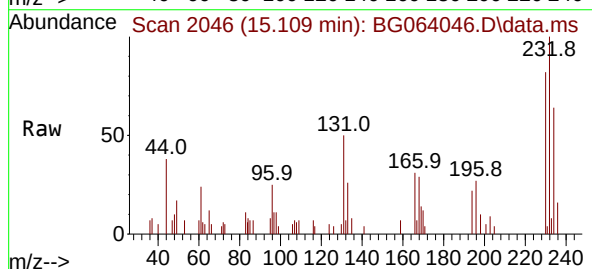
APPROVED

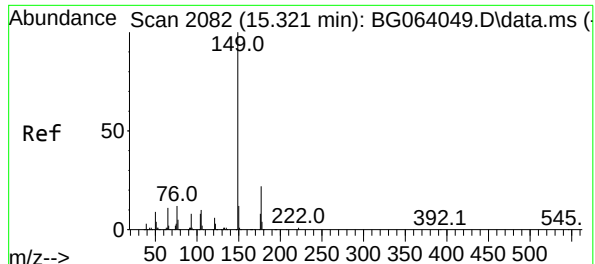
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#59  
2,3,4,6-Tetrachlorophenol  
Concen: 3.597 ng  
RT: 15.109 min Scan# 2046  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Tgt Ion:232 Resp: 6538  
Ion Ratio Lower Upper  
232 100  
131 50.2 36.3 54.5  
130 3.0 1.9 2.9#  
166 30.6 22.8 34.2





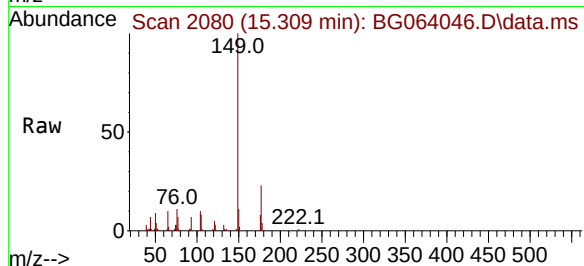
#60  
Diethylphthalate  
Concen: 4.666 ng  
RT: 15.309 min Scan# 2080  
Delta R.T. -0.011 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

SSTDICC005

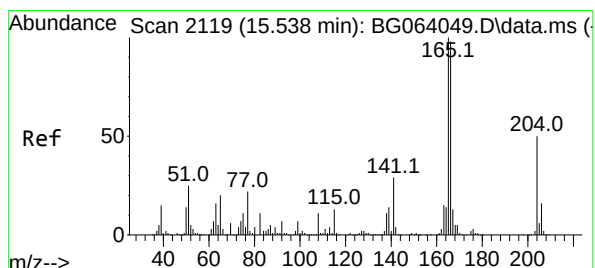
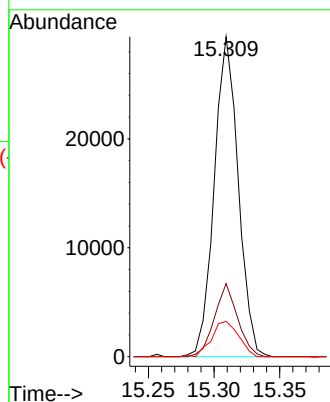
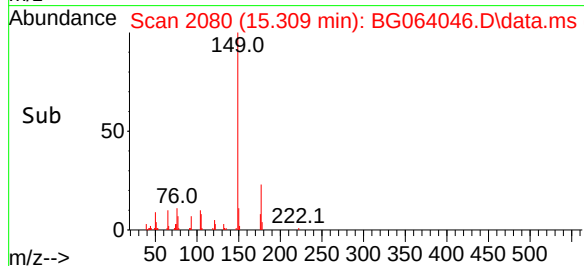


Tgt Ion:149 Resp: 37289  
Ion Ratio Lower Upper  
149 100  
177 22.8 17.4 26.2  
150 11.0 9.4 14.2

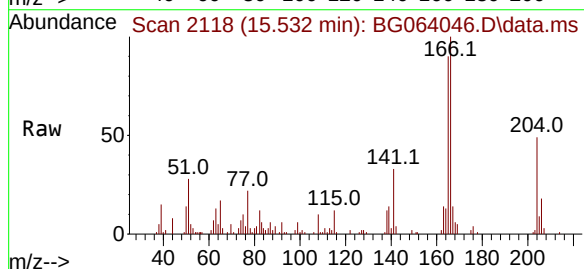
Manual Integrations

APPROVED

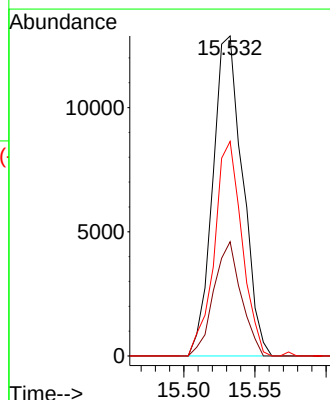
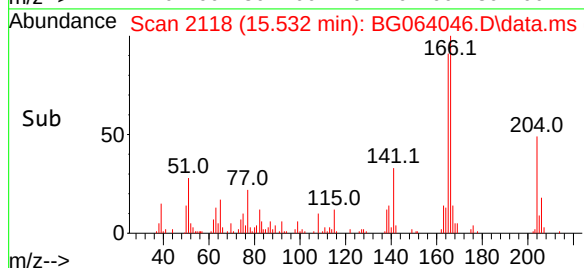
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

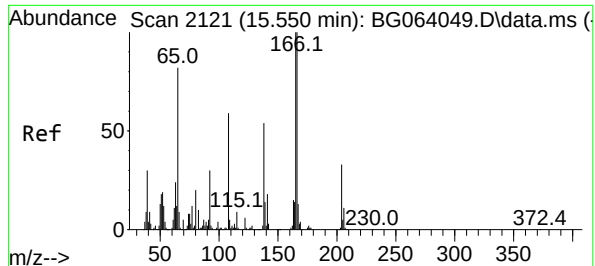


#61  
4-Chlorophenyl-phenylether  
Concen: 5.142 ng  
RT: 15.532 min Scan# 2118  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42



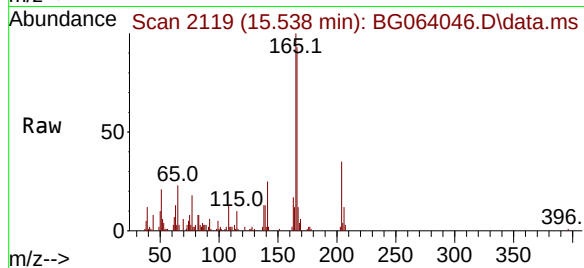
Tgt Ion:204 Resp: 18807  
Ion Ratio Lower Upper  
204 100  
206 35.7 25.5 38.3  
141 67.1 45.4 68.0





#62  
4-Nitroaniline  
Concen: 3.460 ng  
RT: 15.538 min Scan# 2119  
Delta R.T. -0.011 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

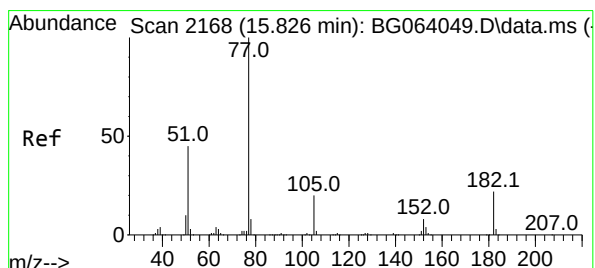
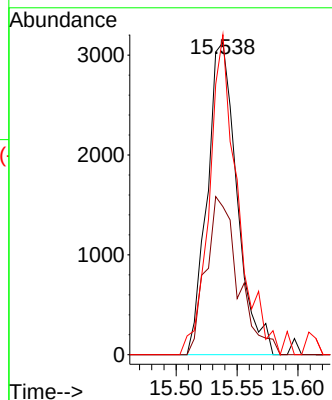
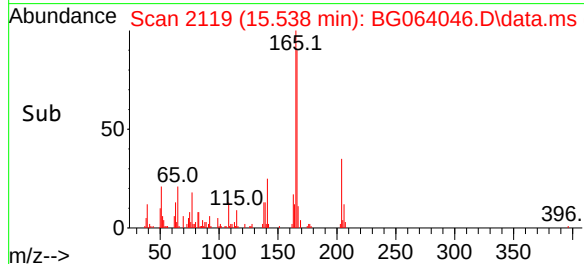
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



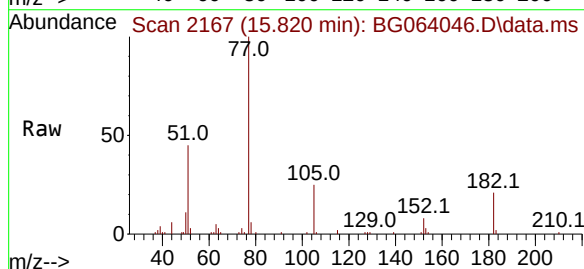
Tgt Ion:138 Resp: 5314  
Ion Ratio Lower Upper  
138 100  
92 47.4 36.1 76.1  
108 102.5 87.9 127.9

Manual Integrations  
APPROVED

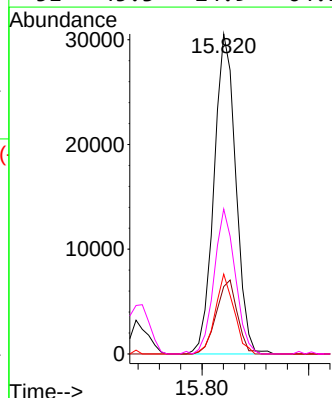
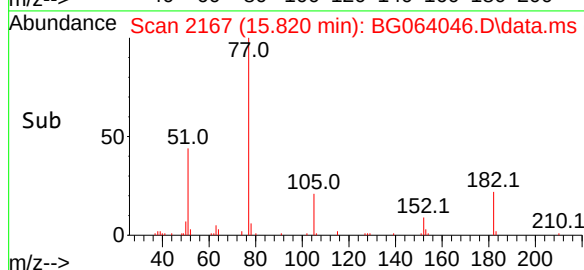
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



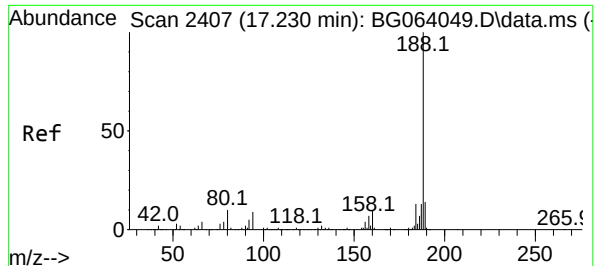
#63  
Azobenzene  
Concen: 5.070 ng  
RT: 15.820 min Scan# 2167  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42



Tgt Ion: 77 Resp: 43236  
Ion Ratio Lower Upper  
77 100  
182 21.1 2.4 42.4  
105 25.0 0.0 40.0  
51 45.3 24.9 64.9







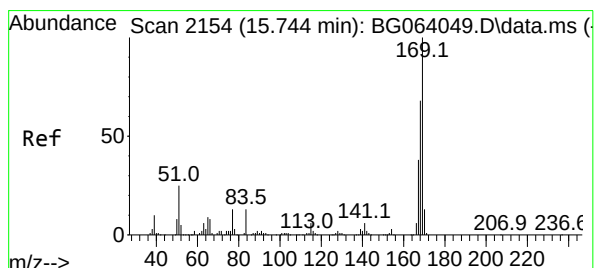
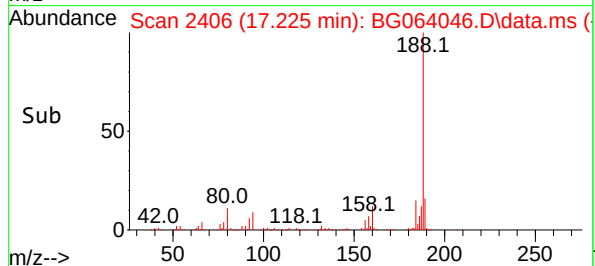
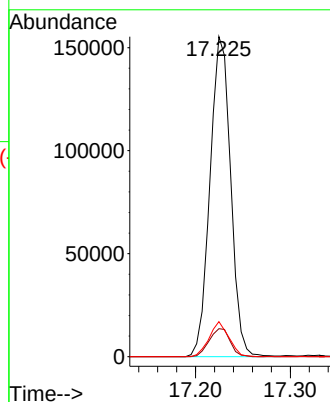
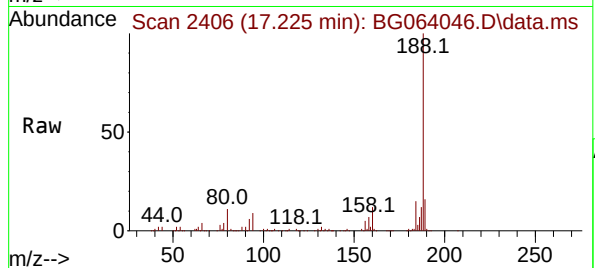
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.225 min Scan# 2406  
Delta R.T. -0.005 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005

Tgt Ion:188 Resp: 23486  
Ion Ratio Lower Upper  
188 100  
94 8.8 6.9 10.3  
80 10.9 8.1 12.1

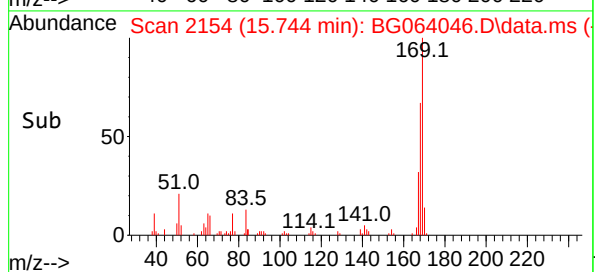
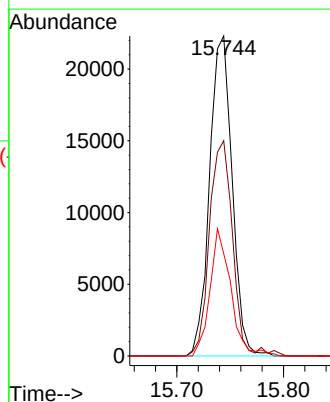
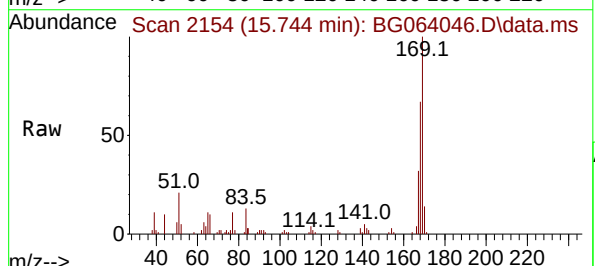
Manual Integrations  
APPROVED

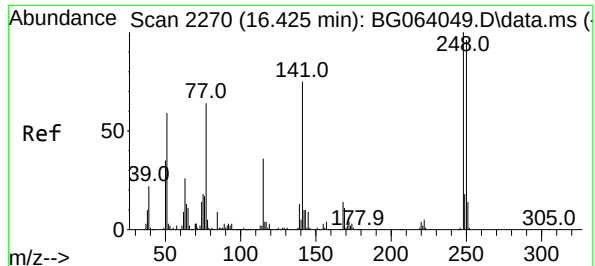
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#66  
n-Nitrosodiphenylamine  
Concen: 4.927 ng  
RT: 15.744 min Scan# 2154  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

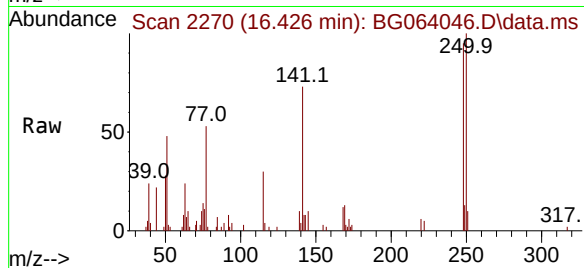
Tgt Ion:169 Resp: 32754  
Ion Ratio Lower Upper  
169 100  
168 67.3 54.1 81.1  
167 32.0 30.3 45.5





#67  
4-Bromophenyl-phenylether  
Concen: 4.531 ng  
RT: 16.426 min Scan# 2270  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

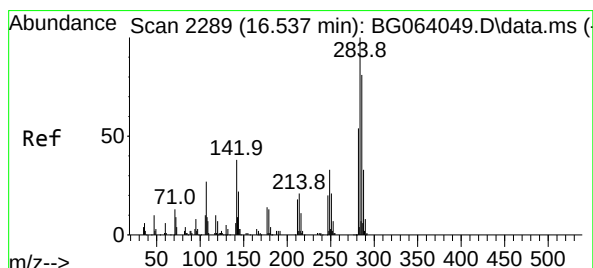
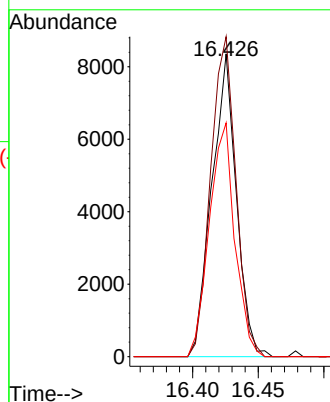
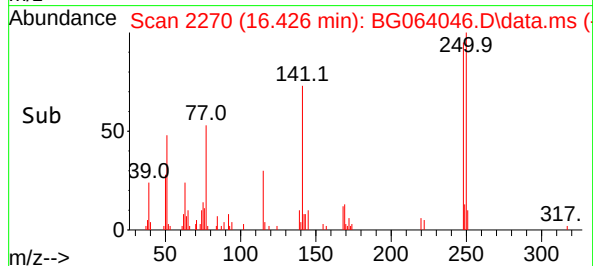
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion:248 Resp: 1089  
Ion Ratio Lower Upper  
248 100  
250 105.6 77.1 115.7  
141 77.2 59.8 89.8

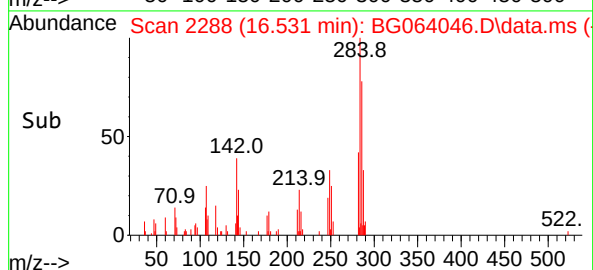
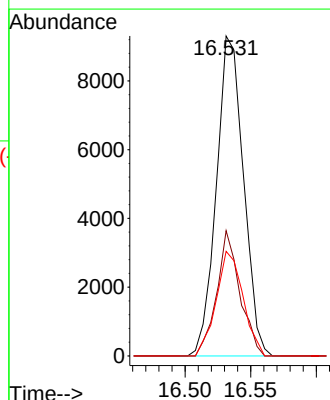
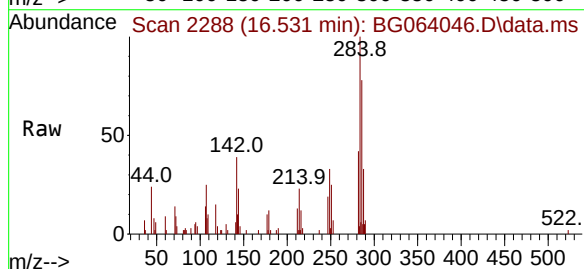
Manual Integrations  
APPROVED

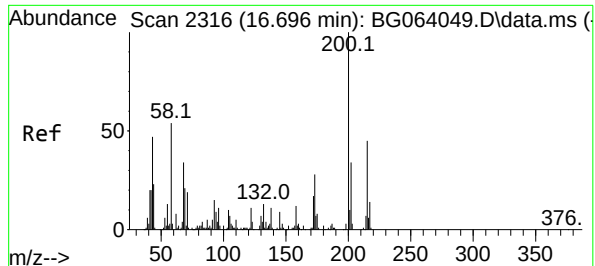
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#68  
Hexachlorobenzene  
Concen: 4.958 ng  
RT: 16.531 min Scan# 2288  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

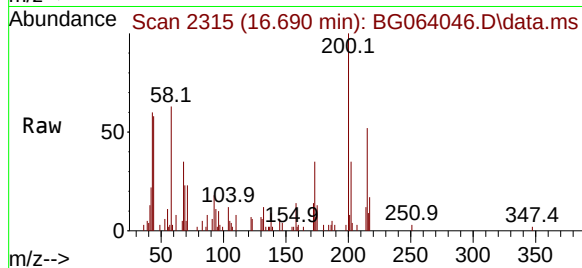
Tgt Ion:284 Resp: 13351  
Ion Ratio Lower Upper  
284 100  
142 39.1 30.6 45.8  
249 32.7 26.6 39.8





#69  
Atrazine  
Concen: 5.264 ng  
RT: 16.690 min Scan# 2109  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

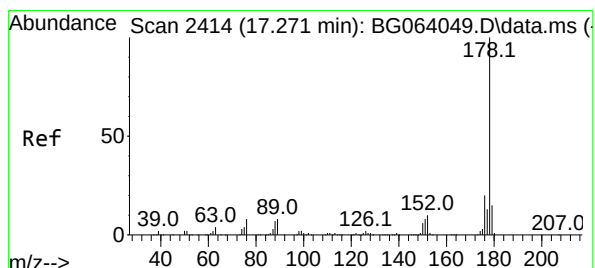
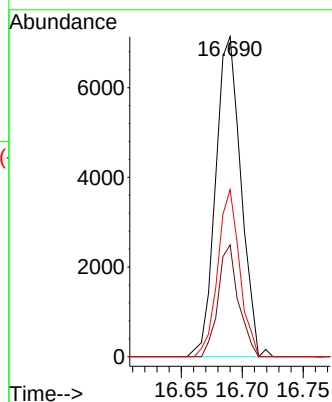
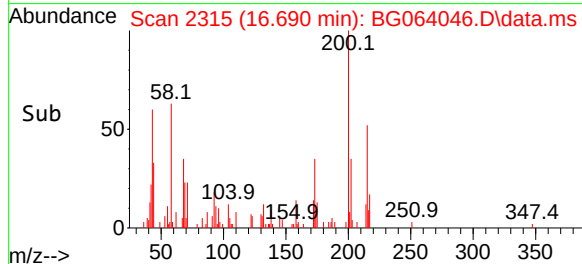
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



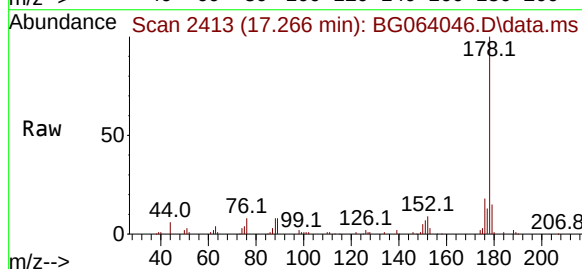
Tgt Ion:200 Resp: 1029  
Ion Ratio Lower Upper  
200 100  
173 34.9 8.2 48.2  
215 52.2 25.5 65.5

Manual Integrations  
APPROVED

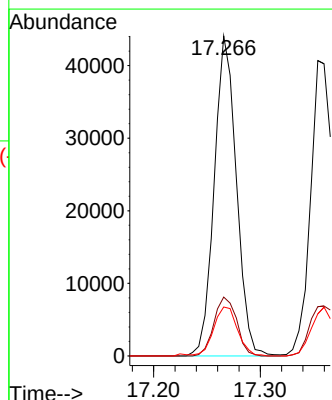
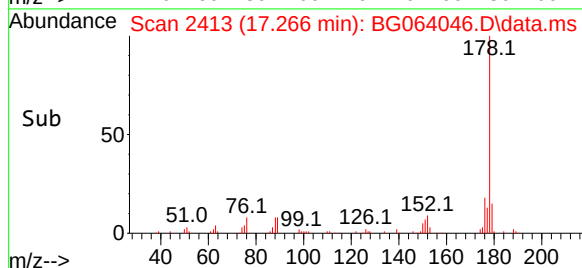
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

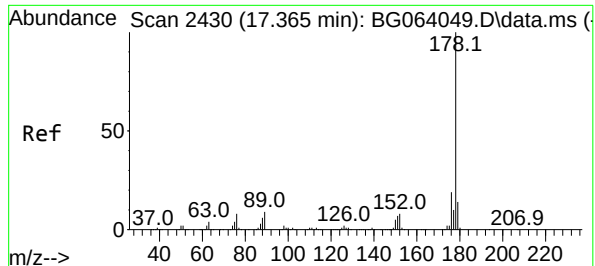


#71  
Phenanthrene  
Concen: 5.079 ng  
RT: 17.266 min Scan# 2413  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42



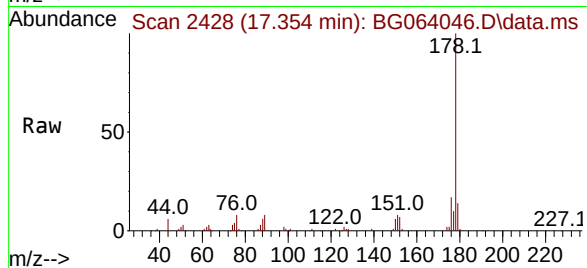
Tgt Ion:178 Resp: 63629  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.9 23.9  
179 15.3 12.2 18.2





#72  
Anthracene  
Concen: 4.825 ng  
RT: 17.354 min Scan# 2428  
Delta R.T. -0.011 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

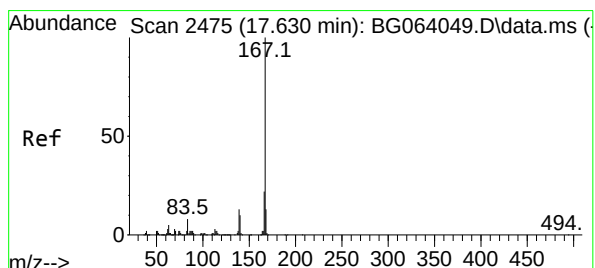
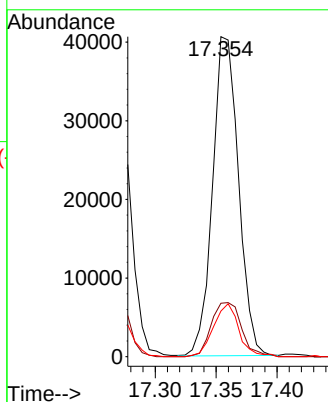
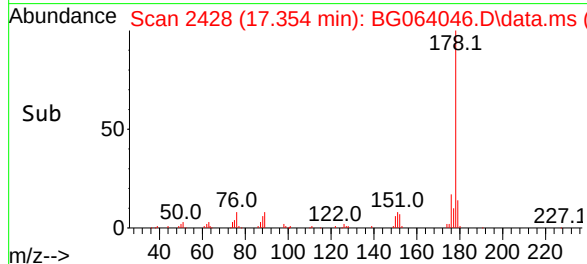
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion:178 Resp: 60108  
Ion Ratio Lower Upper  
178 100  
176 16.7 14.8 22.2  
179 14.2 11.5 17.3

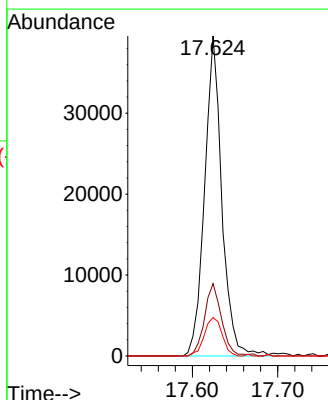
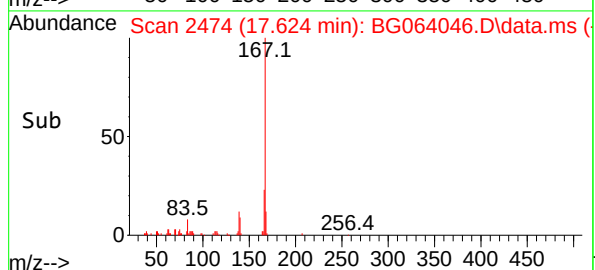
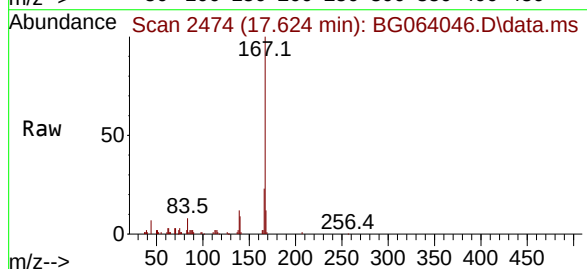
Manual Integrations  
APPROVED

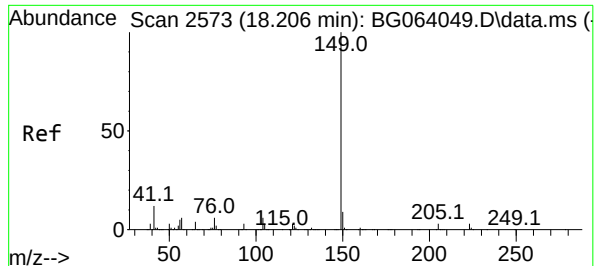
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#73  
Carbazole  
Concen: 4.792 ng  
RT: 17.624 min Scan# 2474  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

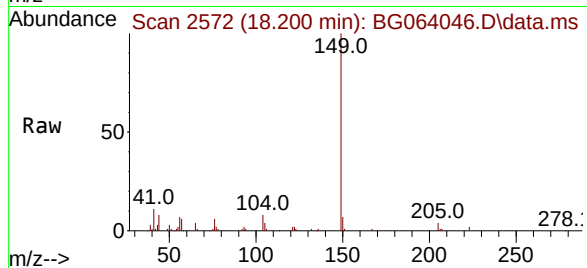
Tgt Ion:167 Resp: 55726  
Ion Ratio Lower Upper  
167 100  
166 22.6 18.0 27.0  
139 12.0 10.6 15.8





#74  
Di-n-butylphthalate  
Concen: 3.996 ng  
RT: 18.200 min Scan# 2573  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

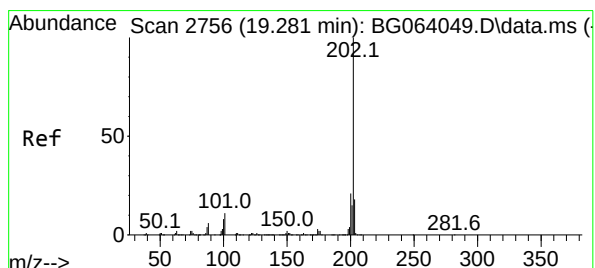
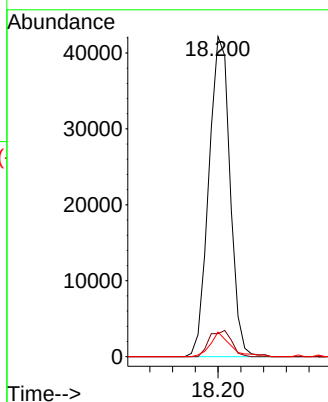
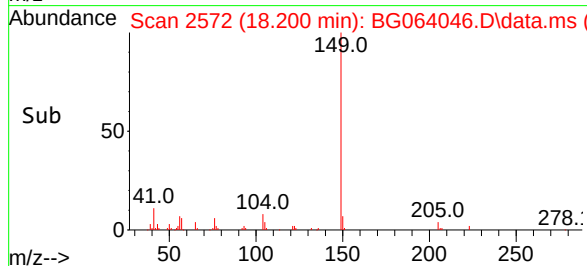
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



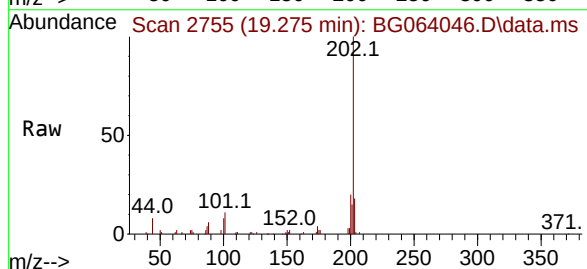
Tgt Ion:149 Resp: 54700  
Ion Ratio Lower Upper  
149 100  
150 7.2 7.4 11.0  
104 7.7 5.0 7.6

Manual Integrations  
APPROVED

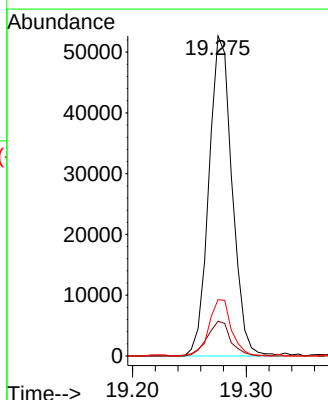
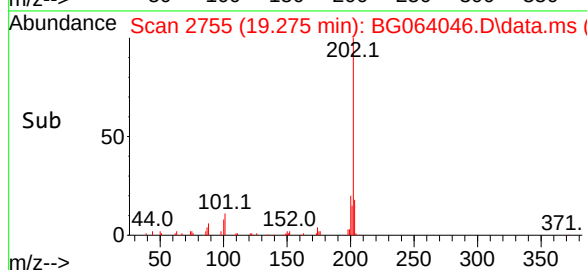
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

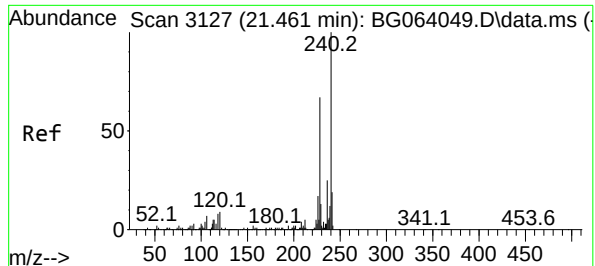


#75  
Fluoranthene  
Concen: 4.946 ng  
RT: 19.275 min Scan# 2755  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42



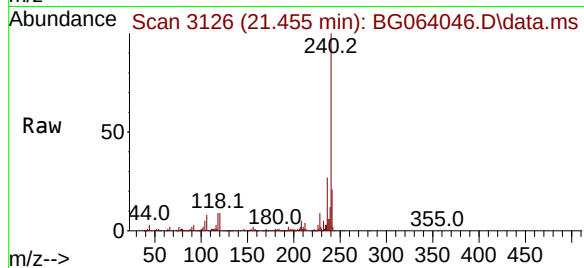
Tgt Ion:202 Resp: 74694  
Ion Ratio Lower Upper  
202 100  
101 10.8 0.0 30.5  
203 17.6 0.0 38.3





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.455 min Scan# 3127  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

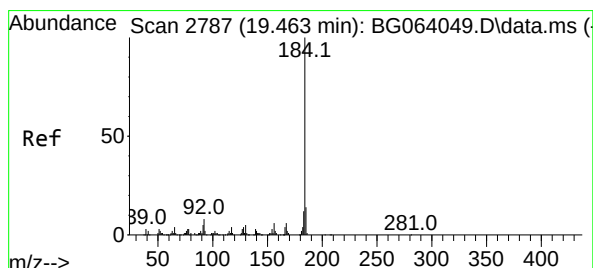
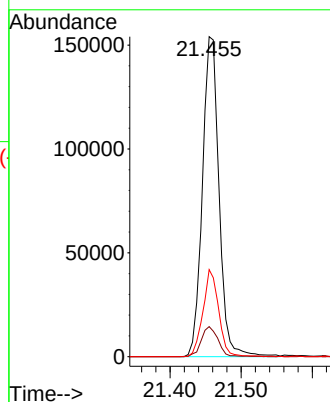
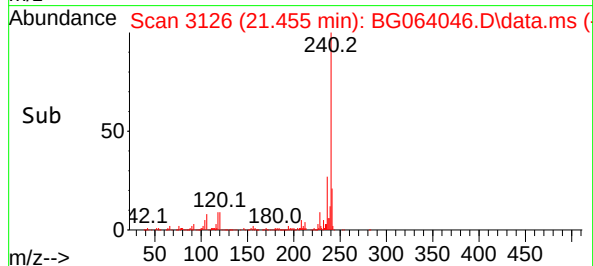
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion:240 Resp: 251570  
Ion Ratio Lower Upper  
240 100  
120 9.4 7.2 10.8  
236 27.2 20.2 30.2

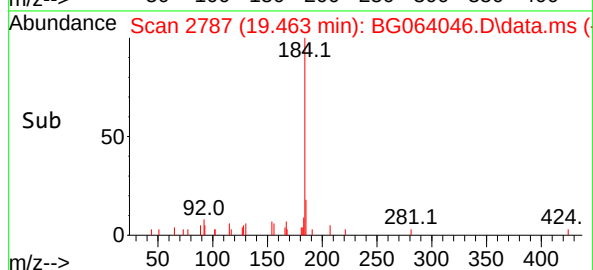
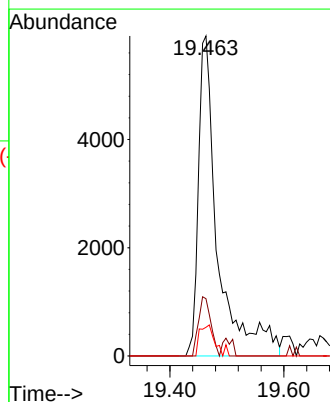
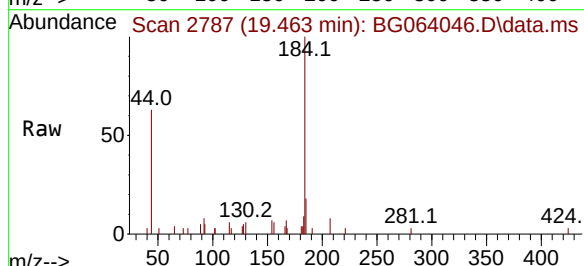
Manual Integrations  
APPROVED

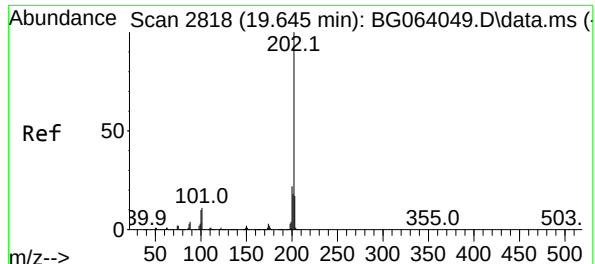
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#77  
Benzidine  
Concen: 3.941 ng m  
RT: 19.463 min Scan# 2787  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Tgt Ion:184 Resp: 13919  
Ion Ratio Lower Upper  
184 100  
185 17.9 11.3 16.9#  
183 9.0 9.5 14.3#





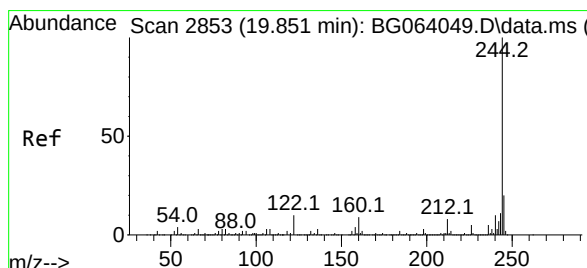
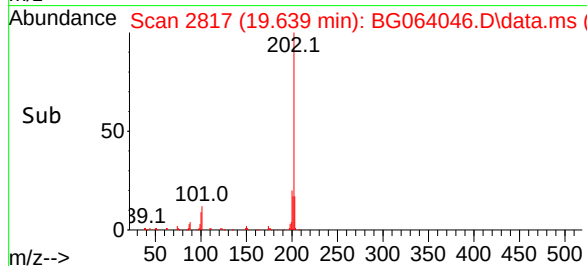
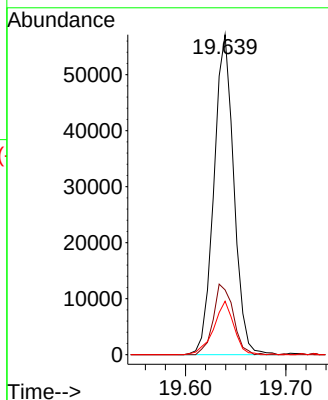
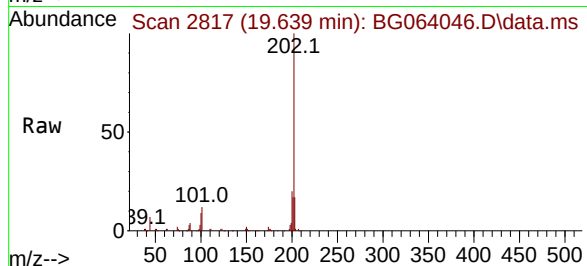
#78  
Pyrene  
Concen: 4.853 ng  
RT: 19.639 min Scan# 2817  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005

Tgt Ion:202 Resp: 7870  
Ion Ratio Lower Upper  
202 100  
200 20.3 17.3 25.9  
203 16.7 13.6 20.4

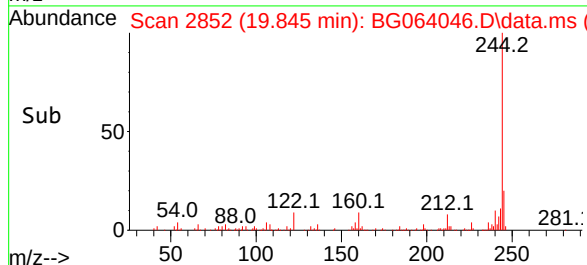
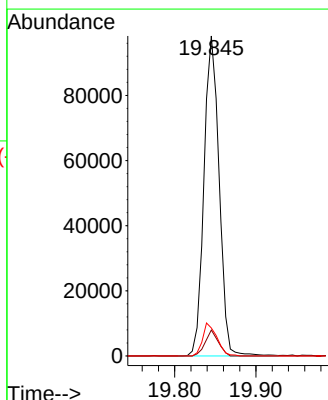
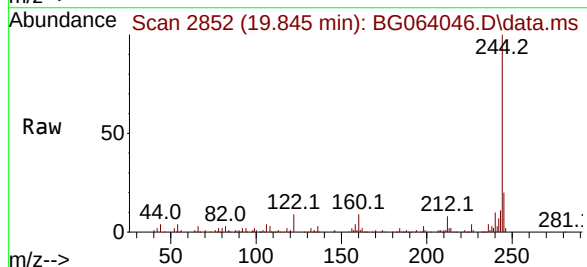
Manual Integrations  
APPROVED

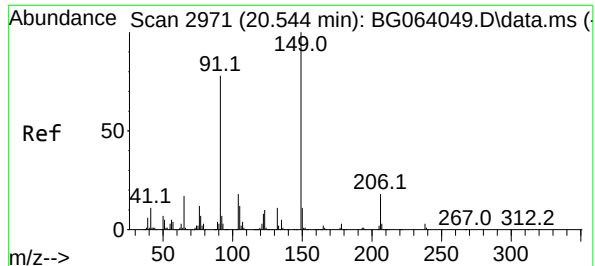
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#79  
Terphenyl-d14  
Concen: 10.226 ng  
RT: 19.845 min Scan# 2852  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

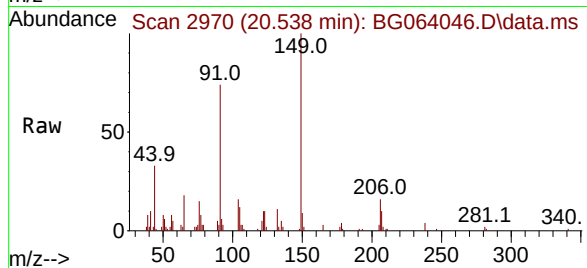
Tgt Ion:244 Resp: 127223  
Ion Ratio Lower Upper  
244 100  
212 8.1 6.2 9.4  
122 8.8 8.0 12.0





#80  
Butylbenzylphthalate  
Concen: 6.356 ng  
RT: 20.538 min Scan# 2970  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

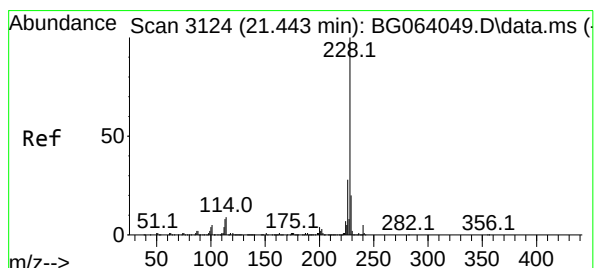
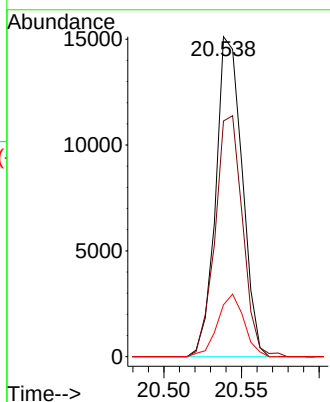
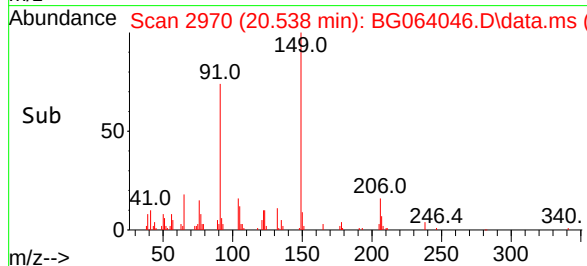
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



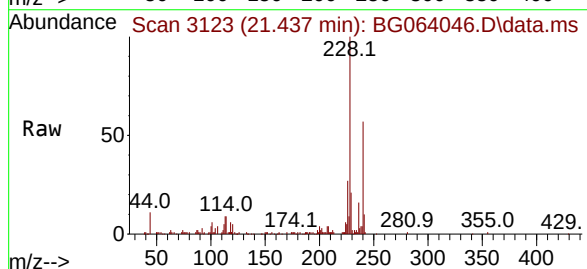
Tgt Ion:149 Resp: 17899  
Ion Ratio Lower Upper  
149 100  
91 73.7 62.0 93.0  
206 16.2 14.6 21.8

Manual Integrations  
APPROVED

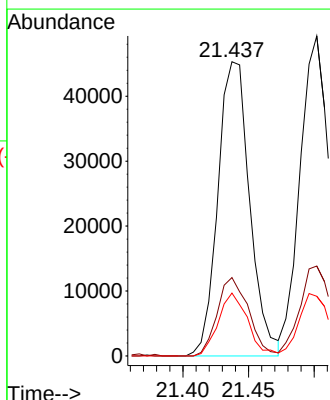
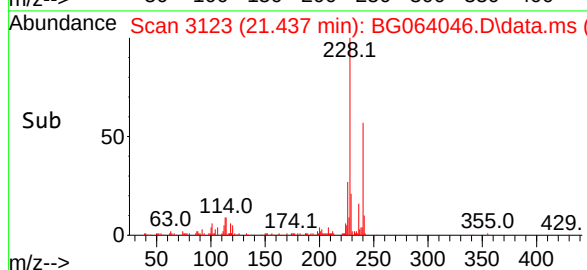
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



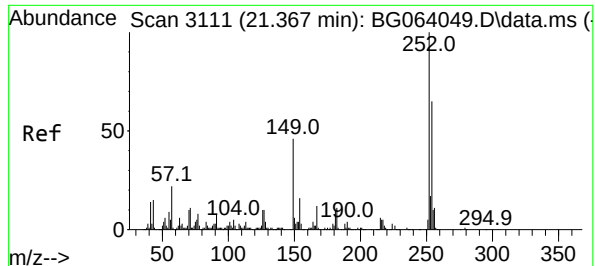
#81  
Benzo(a)anthracene  
Concen: 4.751 ng  
RT: 21.437 min Scan# 3123  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42



Tgt Ion:228 Resp: 76566  
Ion Ratio Lower Upper  
228 100  
226 26.7 22.2 33.2  
229 21.4 16.4 24.6

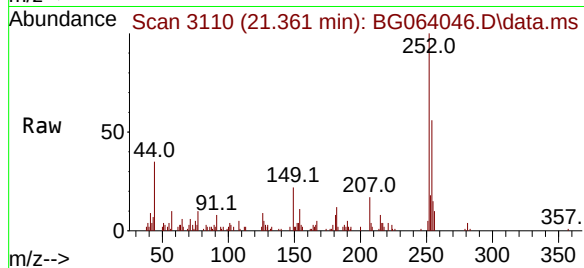






#82  
3,3'-Dichlorobenzidine  
Concen: 4.226 ng  
RT: 21.361 min Scan# 3110  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

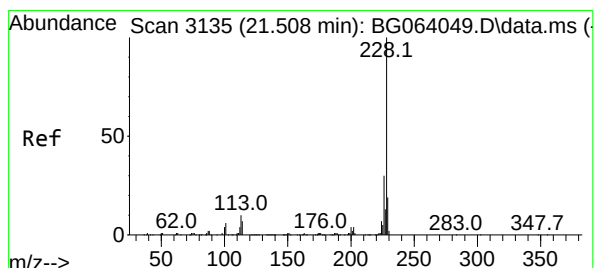
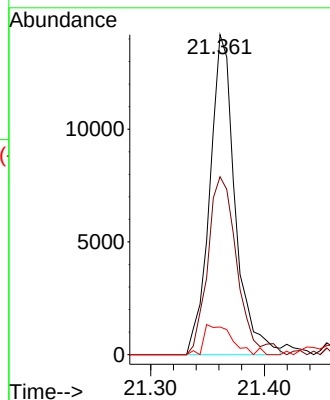
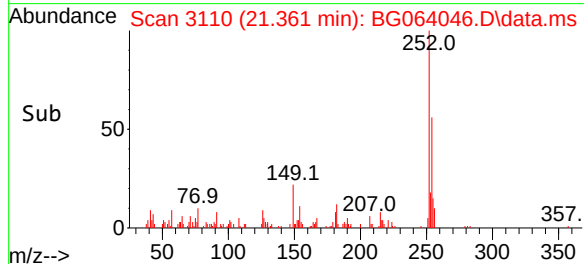
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion:252 Resp: 22038  
Ion Ratio Lower Upper  
252 100  
254 55.6 52.1 78.1  
126 8.6 7.8 11.8

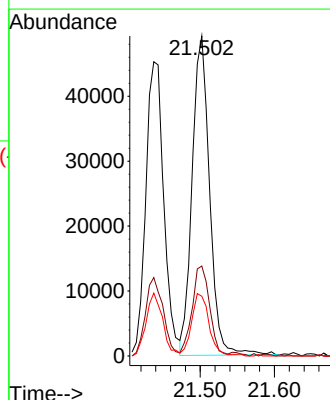
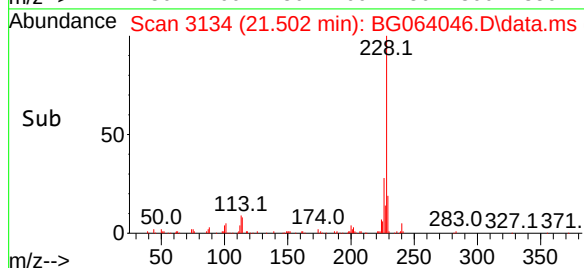
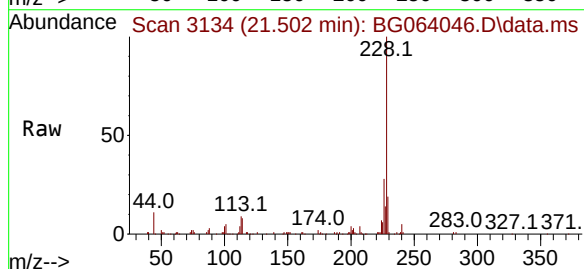
Manual Integrations  
APPROVED

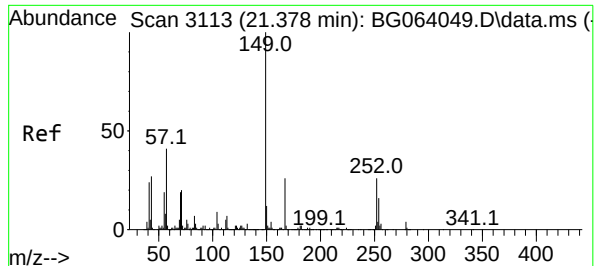
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#83  
Chrysene  
Concen: 5.014 ng  
RT: 21.502 min Scan# 3134  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

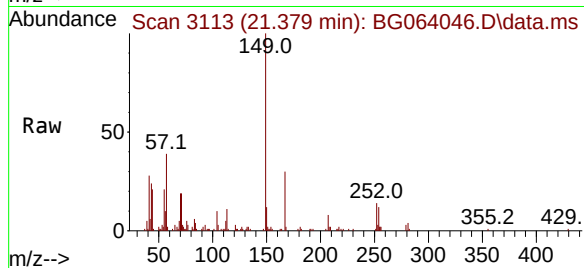
Tgt Ion:228 Resp: 80580  
Ion Ratio Lower Upper  
228 100  
226 28.1 23.9 35.9  
229 18.7 15.3 22.9





#84  
Bis(2-ethylhexyl)phthalate  
Concen: 3.634 ng  
RT: 21.379 min Scan# 3113  
Delta R.T. 0.000 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

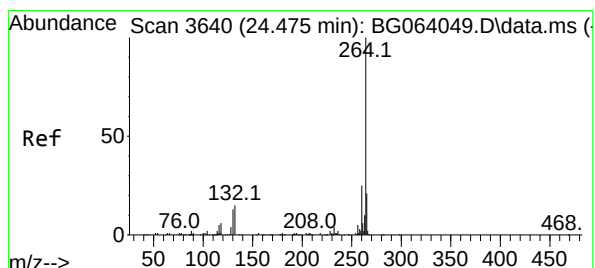
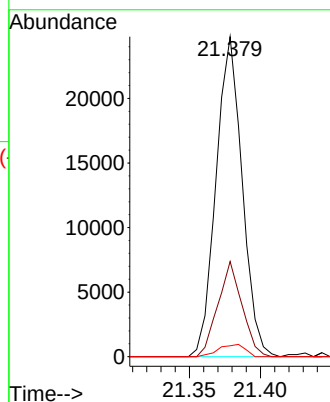
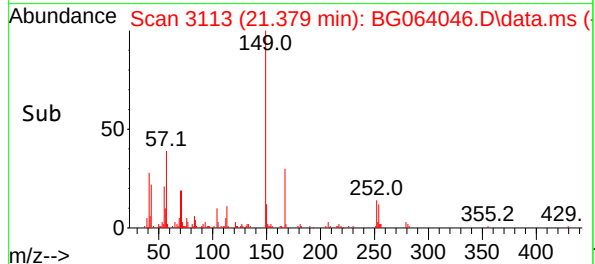
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion:149 Resp: 31674  
Ion Ratio Lower Upper  
149 100  
167 29.7 21.0 31.6  
279 3.4 2.8 4.2

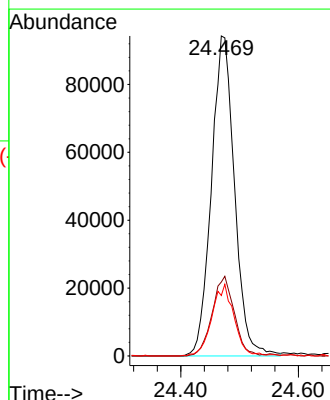
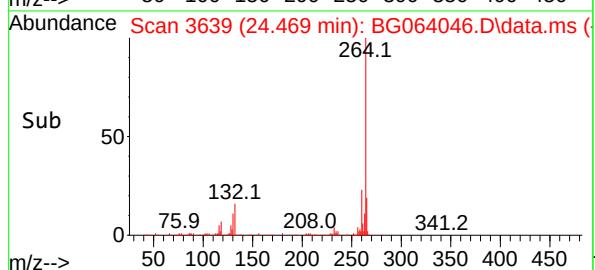
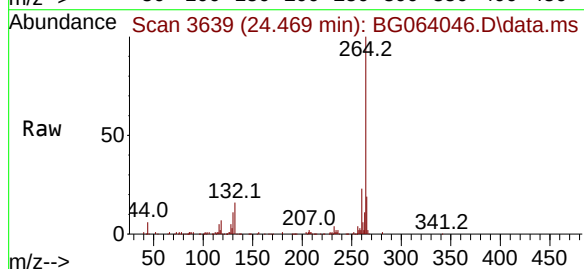
Manual Integrations  
APPROVED

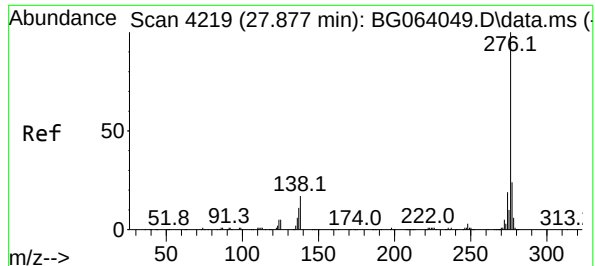
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.469 min Scan# 3639  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

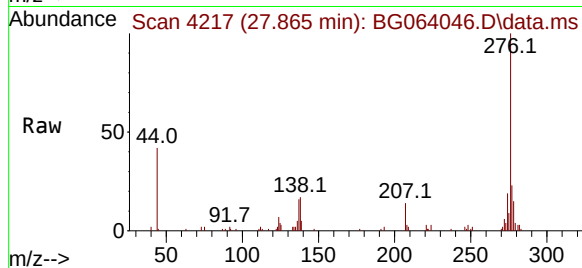
Tgt Ion:264 Resp: 257404  
Ion Ratio Lower Upper  
264 100  
260 23.1 19.6 29.4  
265 18.9 16.6 25.0





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.569 ng  
RT: 27.865 min Scan# 4217  
Delta R.T. -0.011 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

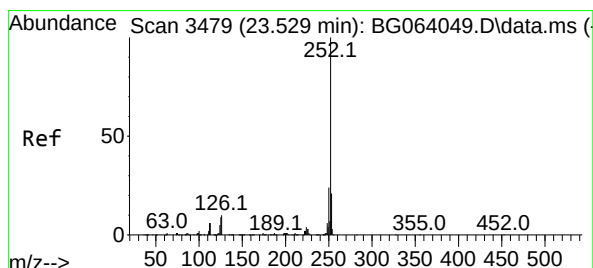
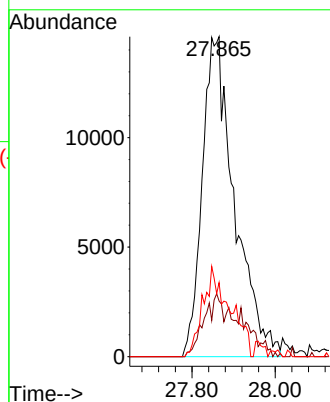
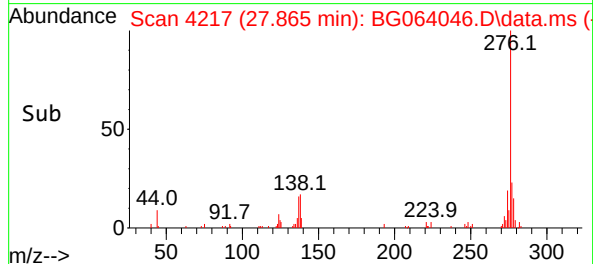
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion: 276 Resp: 7868  
Ion Ratio Lower Upper  
276 100  
138 11.1 12.1 18.1  
277 23.4 20.0 30.0

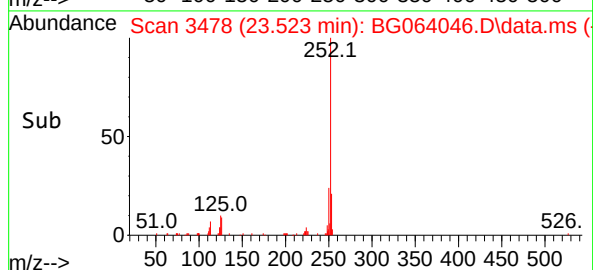
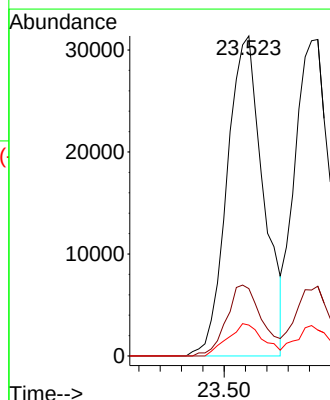
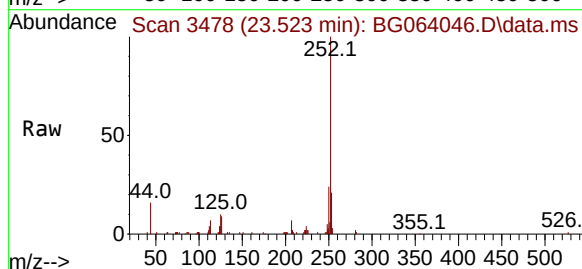
Manual Integrations  
APPROVED

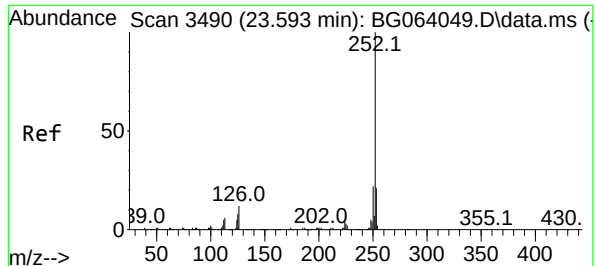
Reviewed By : Jagrut Upadhyay 03/06/2025  
Supervised By : mohammad ahmed 03/07/2025



#88  
Benzo(b)fluoranthene  
Concen: 4.757 ng  
RT: 23.523 min Scan# 3478  
Delta R.T. -0.006 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Tgt Ion: 252 Resp: 74031  
Ion Ratio Lower Upper  
252 100  
253 21.0 17.0 25.4  
125 9.7 7.4 11.2





#89

Benzo(k)fluoranthene

Concen: 4.582 ng

RT: 23.588 min Scan# 3490

Delta R.T. -0.006 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

Instrument :

BNA\_G

ClientSampleId :

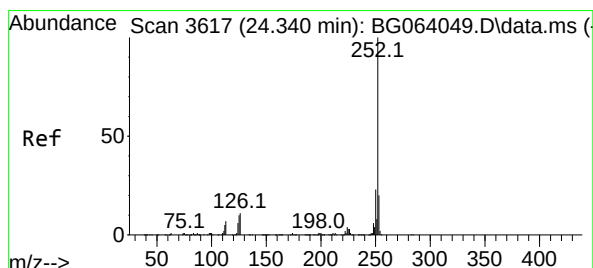
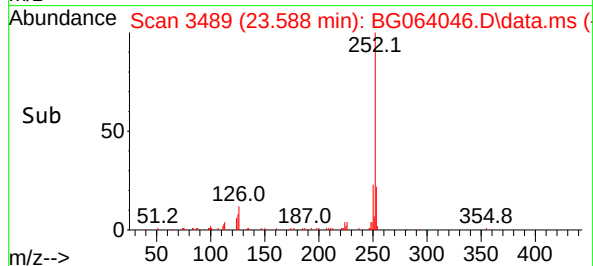
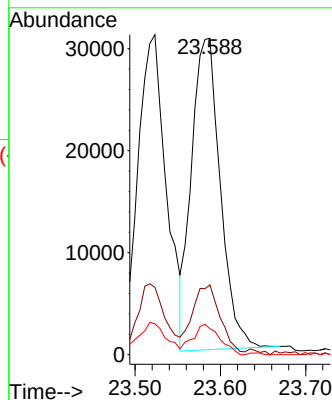
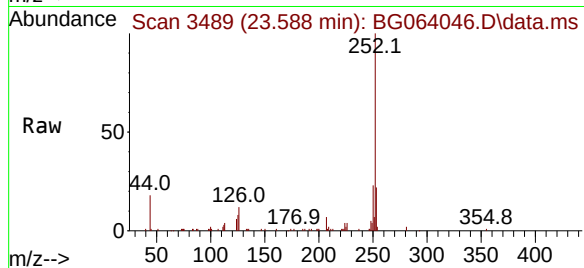
SSTDICC005

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 7152 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 22.1  | 16.8  | 25.2 |
| 125       | 8.2   | 6.9   | 10.3 |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#90

Benzo(a)pyrene

Concen: 4.610 ng

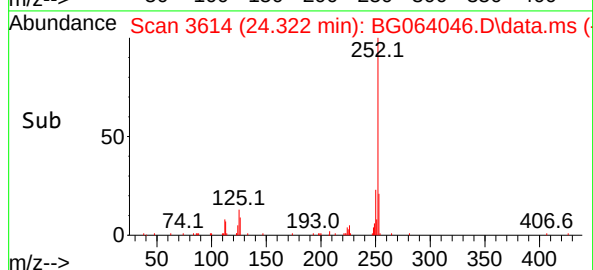
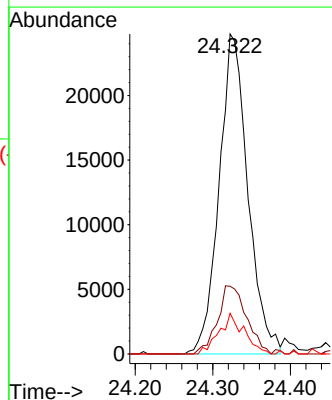
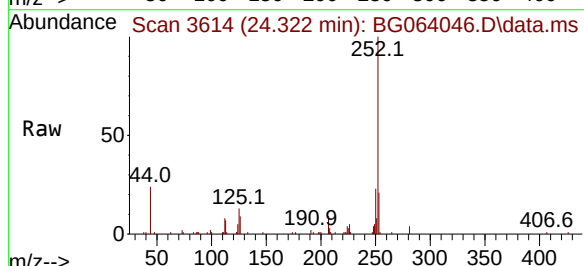
RT: 24.322 min Scan# 3614

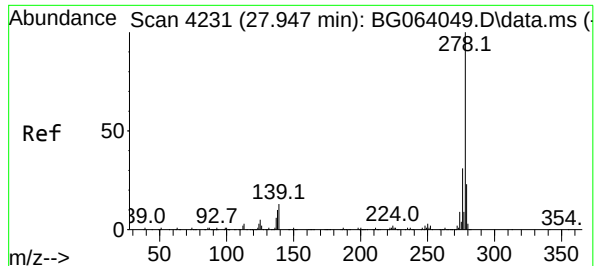
Delta R.T. -0.017 min

Lab File: BG064046.D

Acq: 5 Mar 2025 9:42

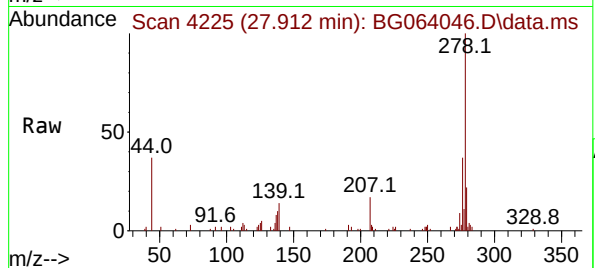
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 63881 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 21.2  | 16.2  | 24.2  |
| 125       | 12.7  | 7.8   | 11.6# |





#91  
Dibenzo(a,h)anthracene  
Concen: 4.638 ng  
RT: 27.912 min Scan# 41  
Delta R.T. -0.035 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

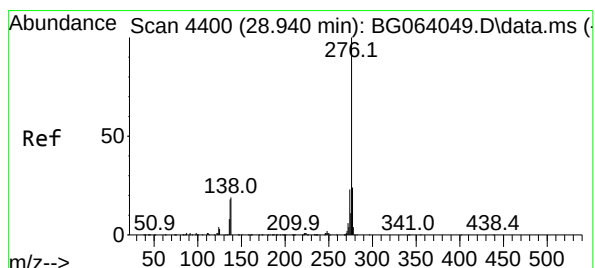
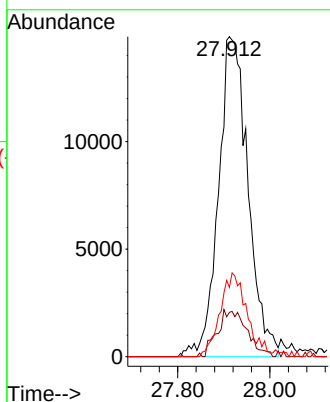
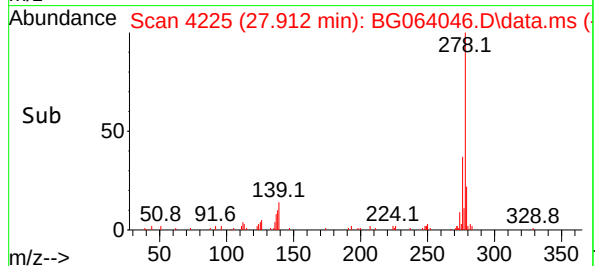
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC005



Tgt Ion:278 Resp: 66224  
Ion Ratio Lower Upper  
278 100  
139 13.9 10.2 15.2  
279 21.7 18.1 27.1

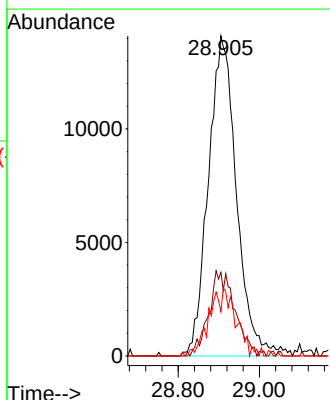
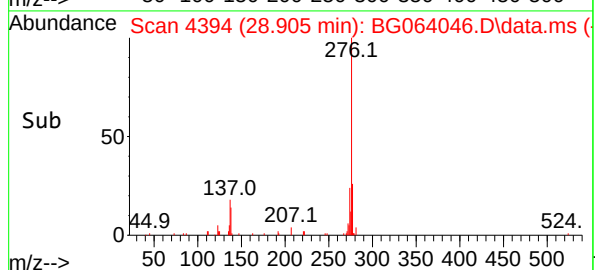
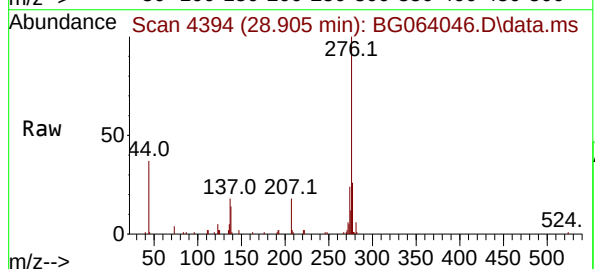
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#92  
Benzo(g,h,i)perylene  
Concen: 4.607 ng  
RT: 28.905 min Scan# 4394  
Delta R.T. -0.035 min  
Lab File: BG064046.D  
Acq: 5 Mar 2025 9:42

Tgt Ion:276 Resp: 67535  
Ion Ratio Lower Upper  
276 100  
277 26.1 19.5 29.3  
138 13.8 15.4 23.0#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064047.D  
 Acq On : 5 Mar 2025 10:22  
 Operator : RC/JU  
 Sample : SSTDICC010  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDICC010

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025

Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:21:34 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 14:45:06 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.867  | 152  | 31108    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.652 | 136  | 139041   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.489 | 164  | 93753    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.227 | 188  | 216134   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.457 | 240  | 243131   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 24.471 | 264  | 255316   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.446  | 112  | 38583    | 19.366 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.027  | 99   | 50726    | 18.716 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.013  | 82   | 41723    | 16.583 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.969 | 330  | 17898    | 17.174 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.114 | 172  | 122799   | 19.881 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.847 | 244  | 248866   | 20.697 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.378  | 88   | 9415     | 10.428 | ng    | 97       |
| 3) Pyridine                   | 3.760  | 79   | 22471    | 10.233 | ng    | 93       |
| 4) n-Nitrosodimethylamine     | 3.678  | 42   | 15180    | 9.676  | ng    | # 99     |
| 6) Aniline                    | 7.191  | 93   | 25976    | 9.767  | ng    | 98       |
| 8) 2-Chlorophenol             | 7.432  | 128  | 20803    | 9.722  | ng    | 95       |
| 9) Benzaldehyde               | 7.003  | 77   | 17458m   | 11.020 | ng    |          |
| 10) Phenol                    | 7.050  | 94   | 26326    | 9.487  | ng    | 98       |
| 11) bis(2-Chloroethyl)ether   | 7.285  | 93   | 22457    | 10.323 | ng    | 96       |
| 12) 1,3-Dichlorobenzene       | 7.755  | 146  | 23941    | 10.189 | ng    | 90       |
| 13) 1,4-Dichlorobenzene       | 7.896  | 146  | 24047    | 9.985  | ng    | 93       |
| 14) 1,2-Dichlorobenzene       | 8.214  | 146  | 22764    | 9.802  | ng    | 91       |
| 15) Benzyl Alcohol            | 8.096  | 79   | 19422    | 9.274  | ng    | 95       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.390  | 45   | 47034    | 9.615  | ng    | 97       |
| 17) 2-Methylphenol            | 8.296  | 107  | 17355    | 9.424  | ng    | 94       |
| 18) Hexachloroethane          | 8.948  | 117  | 8075     | 9.583  | ng    | 90       |
| 19) n-Nitroso-di-n-propyla... | 8.660  | 70   | 17996    | 9.461  | ng    | # 95     |
| 20) 3+4-Methylphenols         | 8.625  | 107  | 23611    | 9.313  | ng    | 93       |
| 22) Acetophenone              | 8.678  | 105  | 36468    | 9.566  | ng    | # 91     |
| 24) Nitrobenzene              | 9.054  | 77   | 22242    | 8.554  | ng    | # 96     |
| 25) Isophorone                | 9.577  | 82   | 46752    | 9.284  | ng    | 97       |
| 26) 2-Nitrophenol             | 9.765  | 139  | 5521     | 9.891  | ng    | # 79     |
| 27) 2,4-Dimethylphenol        | 9.823  | 122  | 13030    | 8.631  | ng    | 90       |
| 28) bis(2-Chloroethoxy)met... | 10.064 | 93   | 28970    | 9.488  | ng    | 98       |
| 29) 2,4-Dichlorophenol        | 10.293 | 162  | 16635    | 8.726  | ng    | 96       |
| 30) 1,2,4-Trichlorobenzene    | 10.517 | 180  | 22045    | 9.579  | ng    | 96       |
| 31) Naphthalene               | 10.699 | 128  | 72491    | 9.669  | ng    | 98       |
| 32) Benzoic acid              | 9.912  | 122  | 5442m    | 11.884 | ng    |          |
| 33) 4-Chloroaniline           | 10.805 | 127  | 25282    | 9.226  | ng    | # 92     |
| 34) Hexachlorobutadiene       | 10.993 | 225  | 14828    | 9.830  | ng    | 99       |
| 35) Caprolactam               | 11.539 | 113  | 6357     | 8.702  | ng    | # 91     |
| 36) 4-Chloro-3-methylphenol   | 11.921 | 107  | 22970    | 9.192  | ng    | 97       |
| 37) 2-Methylnaphthalene       | 12.309 | 142  | 50557    | 9.552  | ng    | 100      |
| 38) 1-Methylnaphthalene       | 12.526 | 142  | 50620    | 9.762  | ng    | # 92     |
| 40) 1,2,4,5-Tetrachloroben... | 12.679 | 216  | 27386    | 10.232 | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 12.667 | 237  | 6015     | 7.985  | ng    | 90       |
| 43) 2,4,6-Trichlorophenol     | 12.914 | 196  | 13713    | 8.693  | ng    | 95       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064047.D  
 Acq On : 5 Mar 2025 10:22  
 Operator : RC/JU  
 Sample : SSTDICC010  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDICC010

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025

Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:21:34 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 14:45:06 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.979 | 196  | 15468    | 8.825  | ng    | 95       |
| 46) 1,1'-Biphenyl             | 13.319 | 154  | 70250    | 9.918  | ng    | 94       |
| 47) 2-Chloronaphthalene       | 13.360 | 162  | 50394    | 9.755  | ng    | 98       |
| 48) 2-Nitroaniline            | 13.560 | 65   | 10834    | 9.850  | ng    | 90       |
| 49) Acenaphthylene            | 14.207 | 152  | 78614    | 9.621  | ng    | 96       |
| 50) Dimethylphthalate         | 13.942 | 163  | 65659    | 9.487  | ng    | # 95     |
| 51) 2,6-Dinitrotoluene        | 14.054 | 165  | 9373     | 9.566  | ng    | 90       |
| 52) Acenaphthene              | 14.547 | 154  | 53833m   | 9.797  | ng    |          |
| 53) 3-Nitroaniline            | 14.383 | 138  | 10697    | 7.997  | ng    | 98       |
| 54) 2,4-Dinitrophenol         | 14.583 | 184  | 3090     | 12.640 | ng    | # 74     |
| 55) Dibenzofuran              | 14.882 | 168  | 88163    | 9.924  | ng    | 97       |
| 56) 4-Nitrophenol             | 14.682 | 139  | 7683     | 6.849  | ng    | # 88     |
| 57) 2,4-Dinitrotoluene        | 14.835 | 165  | 11947    | 9.344  | ng    | # 95     |
| 58) Fluorene                  | 15.528 | 166  | 67954    | 9.821  | ng    | 96       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.111 | 232  | 15282    | 8.943  | ng    | 99       |
| 60) Diethylphthalate          | 15.311 | 149  | 70346    | 9.363  | ng    | 96       |
| 61) 4-Chlorophenyl-phenyle... | 15.534 | 204  | 34862    | 10.139 | ng    | 95       |
| 62) 4-Nitroaniline            | 15.540 | 138  | 12324    | 8.534  | ng    | 89       |
| 63) Azobenzene                | 15.822 | 77   | 77127    | 9.620  | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 15.605 | 198  | 5373     | 12.953 | ng    | 97       |
| 66) n-Nitrosodiphenylamine    | 15.740 | 169  | 59511    | 9.727  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.422 | 248  | 21085    | 9.525  | ng    | 97       |
| 68) Hexachlorobenzene         | 16.539 | 284  | 24406    | 9.848  | ng    | # 89     |
| 69) Atrazine                  | 16.686 | 200  | 20585    | 11.436 | ng    | 92       |
| 70) Pentachlorophenol         | 16.874 | 266  | 11318    | 7.355  | ng    | # 87     |
| 71) Phenanthrene              | 17.268 | 178  | 111754   | 9.694  | ng    | 97       |
| 72) Anthracene                | 17.356 | 178  | 112451   | 9.810  | ng    | 99       |
| 73) Carbazole                 | 17.626 | 167  | 106750   | 9.974  | ng    | 98       |
| 74) Di-n-butylphthalate       | 18.202 | 149  | 118366   | 9.396  | ng    | 97       |
| 75) Fluoranthene              | 19.277 | 202  | 142097   | 10.224 | ng    | 98       |
| 77) Benzidine                 | 19.465 | 184  | 48648m   | 14.253 | ng    |          |
| 78) Pyrene                    | 19.641 | 202  | 156414   | 9.980  | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.546 | 149  | 40179    | 9.952  | ng    | # 88     |
| 81) Benzo(a)anthracene        | 21.439 | 228  | 154113   | 9.895  | ng    | 97       |
| 82) 3,3'-Dichlorobenzidine    | 21.363 | 252  | 48080    | 9.539  | ng    | # 93     |
| 83) Chrysene                  | 21.504 | 228  | 149887   | 9.649  | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 21.380 | 149  | 70780    | 8.403  | ng    | 95       |
| 85) Di-n-octyl phthalate      | 22.526 | 149  | 108389   | 7.461  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 27.855 | 276  | 157212   | 9.203  | ng    | # 75     |
| 88) Benzo(b)fluoranthene      | 23.519 | 252  | 146238   | 9.475  | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 23.584 | 252  | 151826   | 9.805  | ng    | 97       |
| 90) Benzo(a)pyrene            | 24.330 | 252  | 130528   | 9.496  | ng    | 96       |
| 91) Dibenzo(a,h)anthracene    | 27.914 | 278  | 132272   | 9.340  | ng    | # 97     |
| 92) Benzo(g,h,i)perylene      | 28.907 | 276  | 139536   | 9.596  | ng    | 97       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

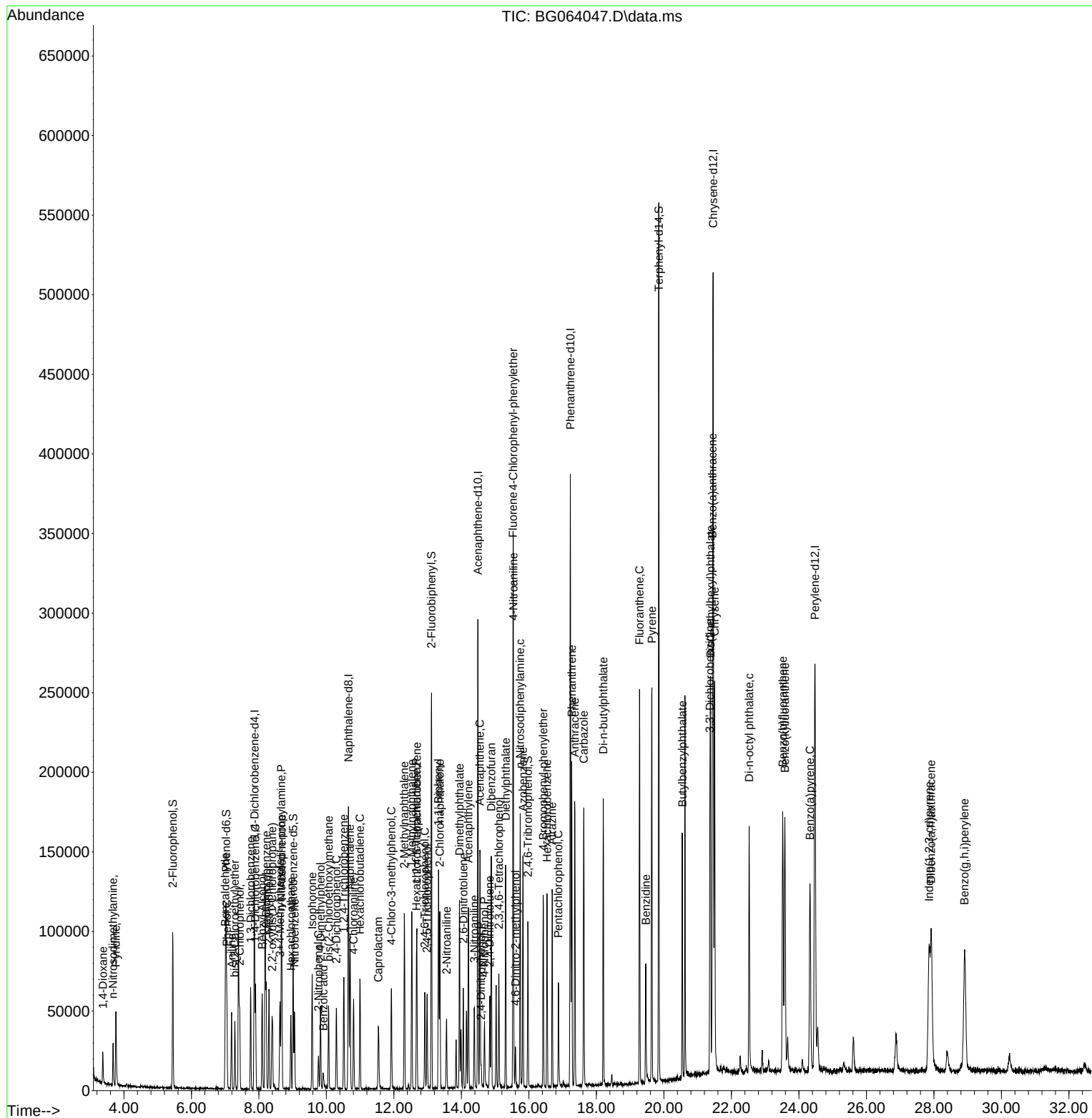
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
Data File : BG064047.D  
Acq On : 5 Mar 2025 10:22  
Operator : RC/JU  
Sample : SSTDICC010  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**  
BNA\_G  
**ClientSampleId :**  
SSTDICC010

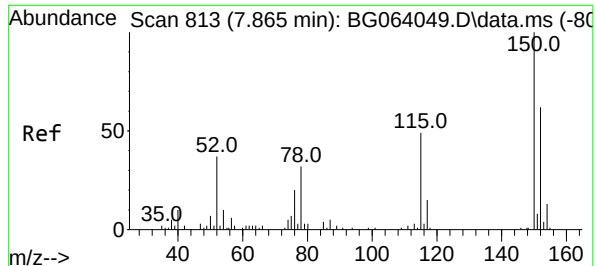
## Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:21:34 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 14:45:06 2025  
Response via : Initial Calibration

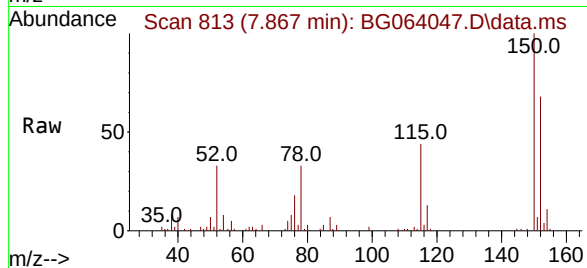






#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.867 min Scan# 813  
Delta R.T. 0.002 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

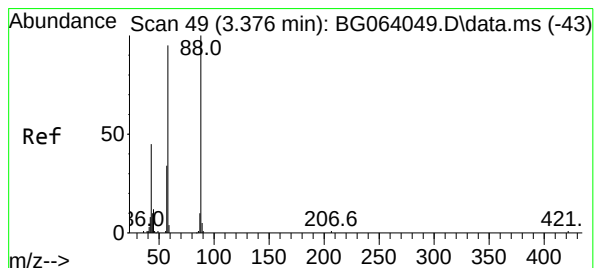
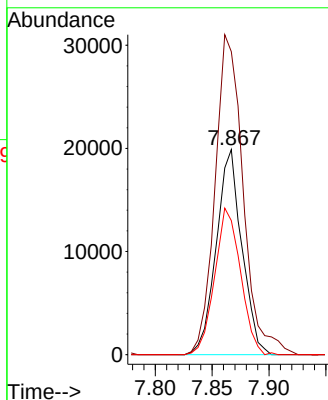
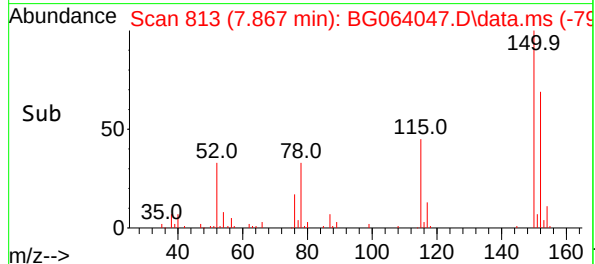
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:152 Resp: 31108  
Ion Ratio Lower Upper  
152 100  
150 147.8 129.2 193.8  
115 65.4 63.0 94.6

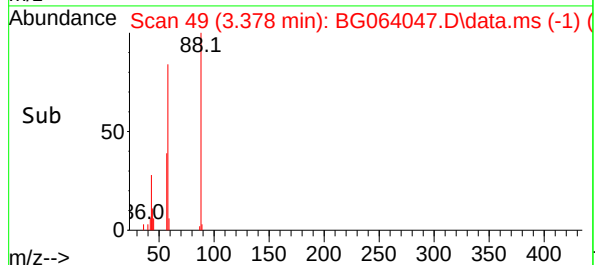
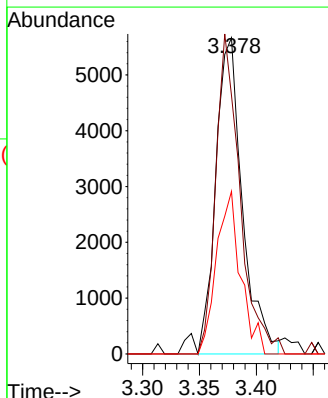
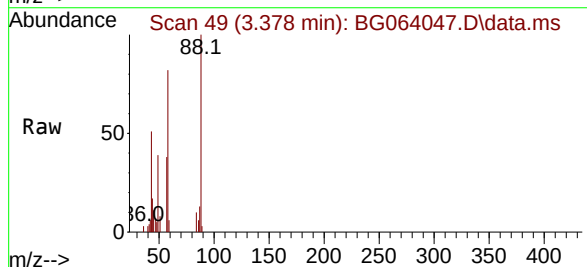
Manual Integrations  
APPROVED

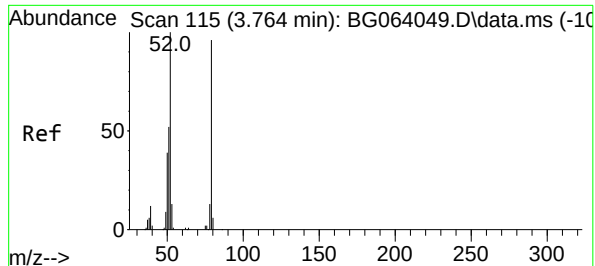
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#2  
1,4-Dioxane  
Concen: 10.428 ng  
RT: 3.378 min Scan# 49  
Delta R.T. 0.002 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

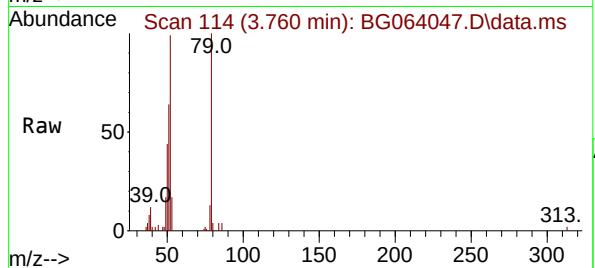
Tgt Ion: 88 Resp: 9415  
Ion Ratio Lower Upper  
88 100  
58 89.7 74.6 111.8  
43 45.8 35.5 53.3





#3  
Pyridine  
Concen: 10.233 ng  
RT: 3.760 min Scan# 115  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

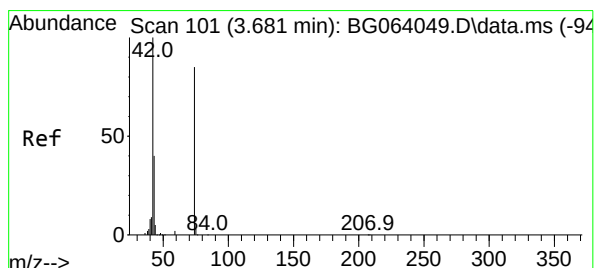
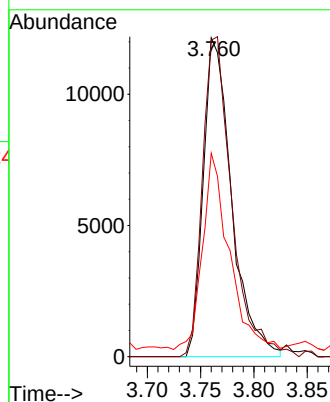
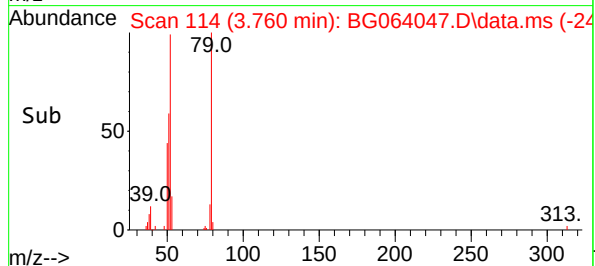
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion: 79 Resp: 2247  
Ion Ratio Lower Upper  
79 100  
52 99.2 83.0 124.6  
51 63.8 44.3 66.5

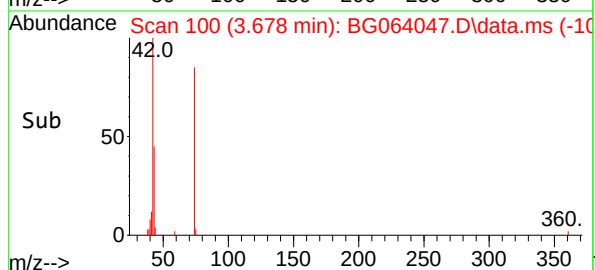
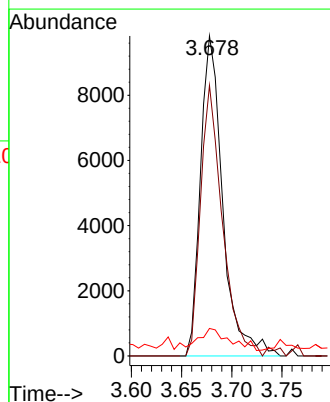
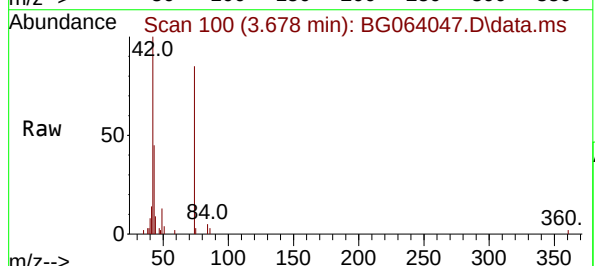
Manual Integrations  
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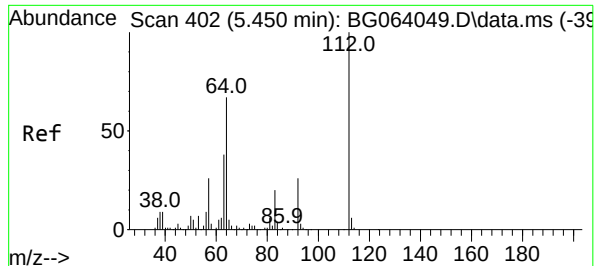
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#4  
n-Nitrosodimethylamine  
Concen: 9.676 ng  
RT: 3.678 min Scan# 100  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion: 42 Resp: 15180  
Ion Ratio Lower Upper  
42 100  
74 84.6 68.0 102.0  
44 8.6 4.9 7.3#





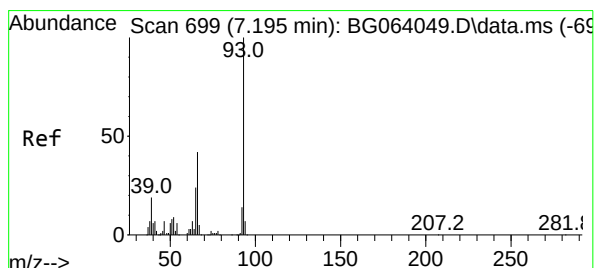
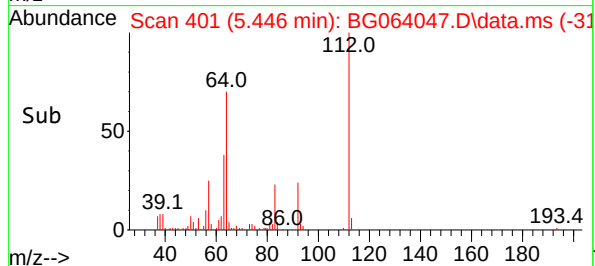
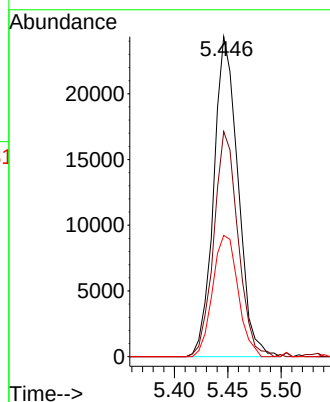
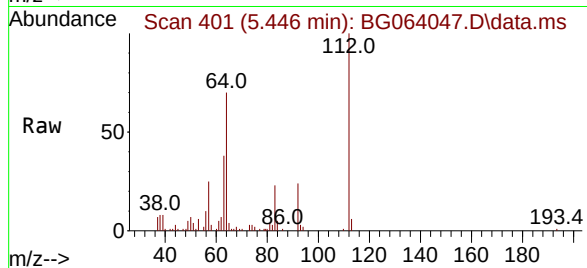
#5  
2-Fluorophenol  
Concen: 19.366 ng  
RT: 5.446 min Scan# 402  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010

Tgt Ion: 112 Resp: 3858  
Ion Ratio Lower Upper  
112 100  
64 70.4 53.7 80.5  
63 37.9 30.2 45.4

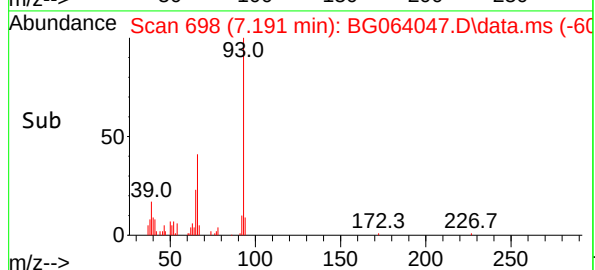
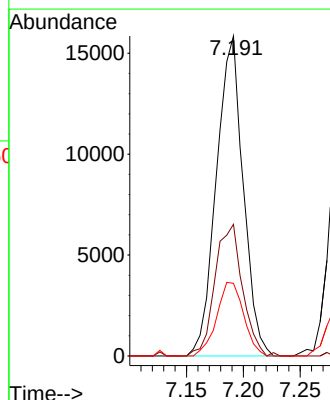
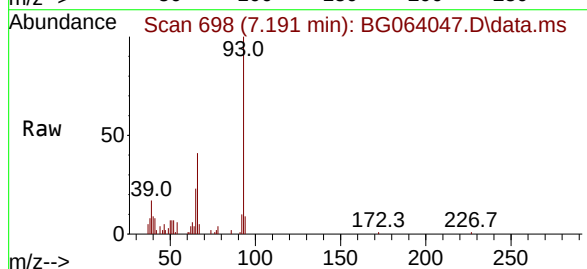
Manual Integrations  
APPROVED

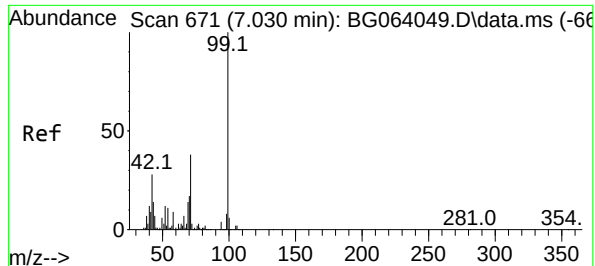
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#6  
Aniline  
Concen: 9.767 ng  
RT: 7.191 min Scan# 698  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion: 93 Resp: 25976  
Ion Ratio Lower Upper  
93 100  
66 41.2 33.7 50.5  
65 22.7 19.1 28.7





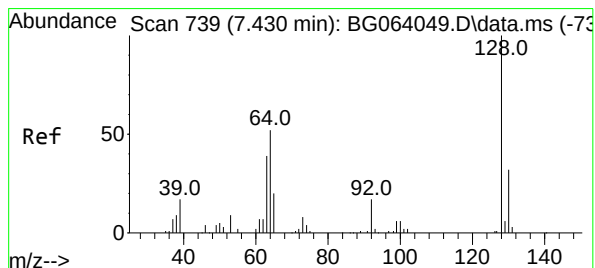
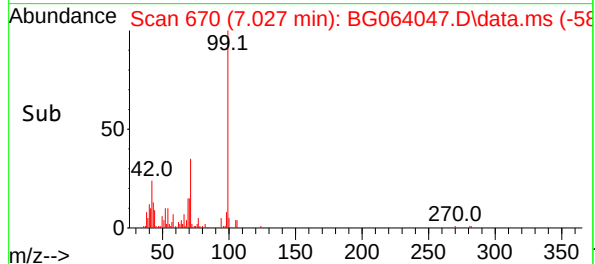
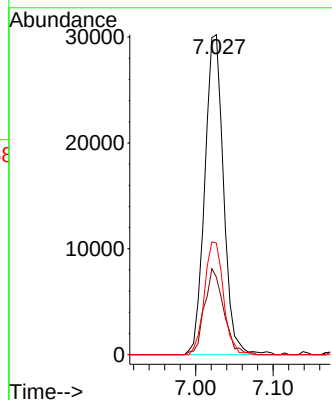
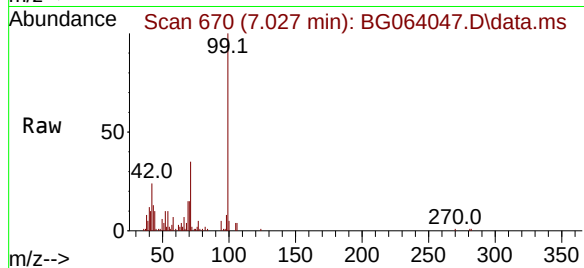
#7  
Phenol-d6  
Concen: 18.716 ng  
RT: 7.027 min Scan# 671  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010

Tgt Ion: 99 Resp: 50720  
Ion Ratio Lower Upper  
99 100  
42 24.2 22.7 34.1  
71 34.9 30.6 46.0

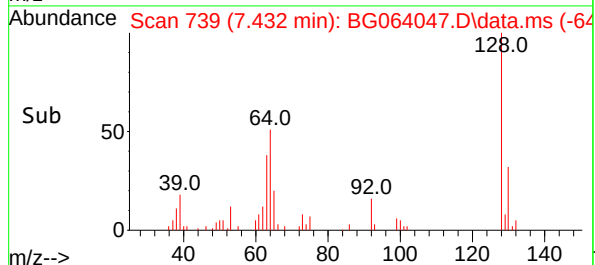
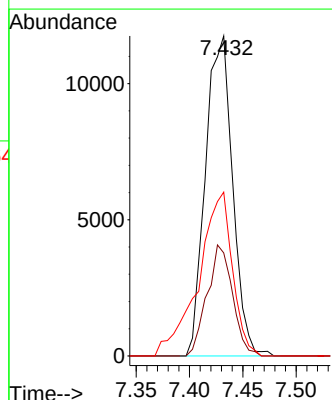
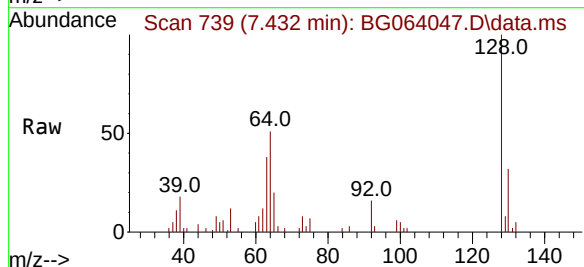
Manual Integrations  
APPROVED

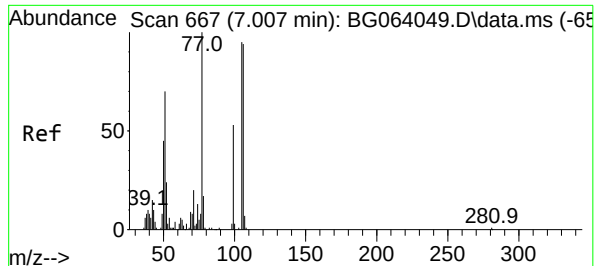
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#8  
2-Chlorophenol  
Concen: 9.722 ng  
RT: 7.432 min Scan# 739  
Delta R.T. 0.002 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion:128 Resp: 20803  
Ion Ratio Lower Upper  
128 100  
130 32.2 12.3 52.3  
64 51.2 37.0 77.0





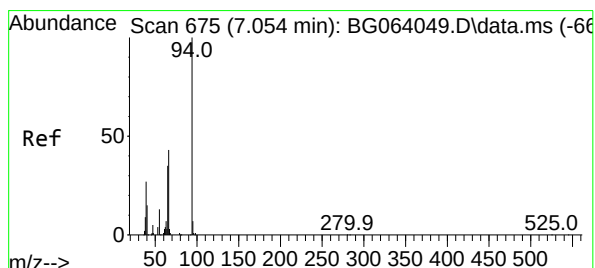
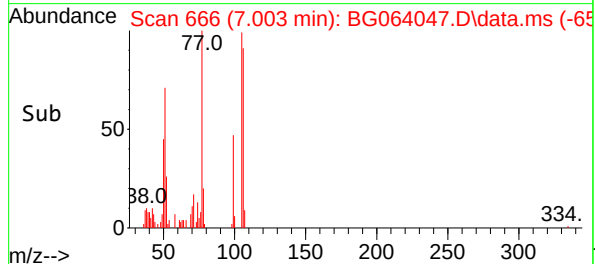
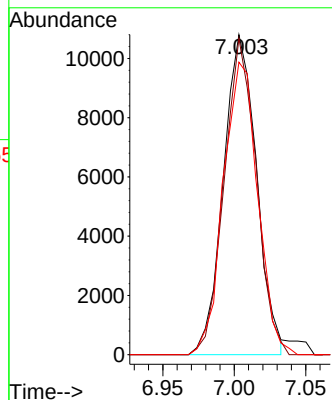
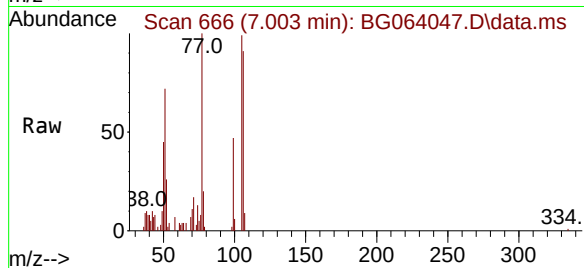
#9  
Benzaldehyde  
Concen: 11.020 ng m  
RT: 7.003 min Scan# 666  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010

Tgt Ion: 77 Resp: 17458  
Ion Ratio Lower Upper  
77 100  
105 98.8 75.5 115.5  
106 91.4 74.2 114.2

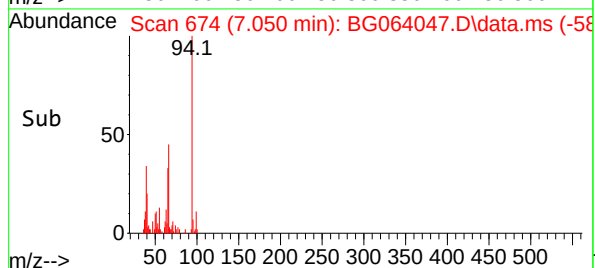
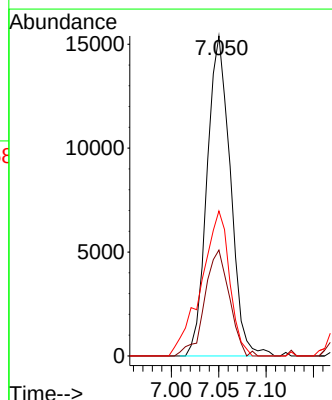
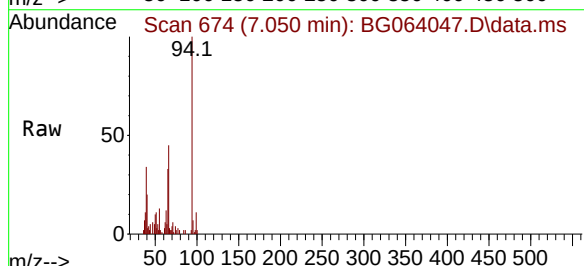
Manual Integrations  
APPROVED

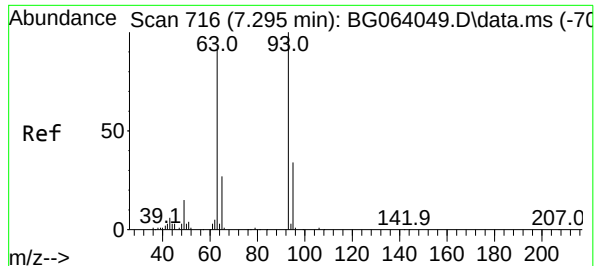
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#10  
Phenol  
Concen: 9.487 ng  
RT: 7.050 min Scan# 674  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion: 94 Resp: 26326  
Ion Ratio Lower Upper  
94 100  
65 33.1 15.2 55.2  
66 45.3 25.1 65.1





#11

bis(2-Chloroethyl)ether

Concen: 10.323 ng

RT: 7.285 min Scan# 714

Delta R.T. -0.010 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

Instrument :

BNA\_G

ClientSampleId :

SSTDICC010

Tgt Ion: 93 Resp: 2245

Ion Ratio Lower Upper

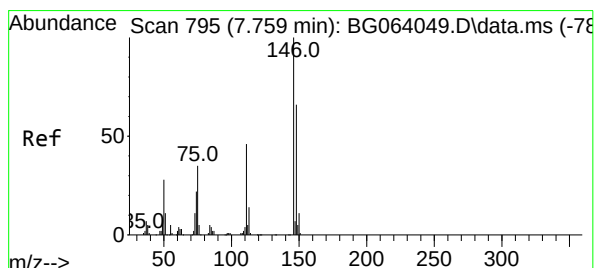
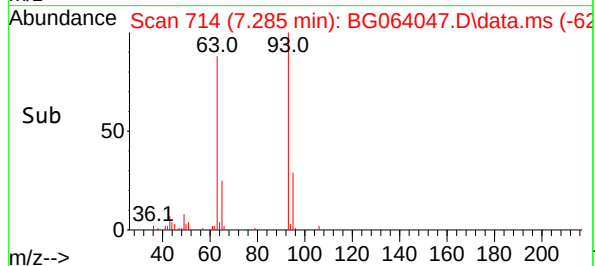
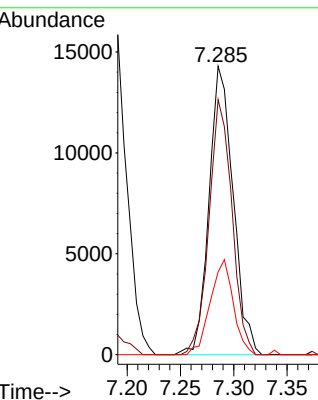
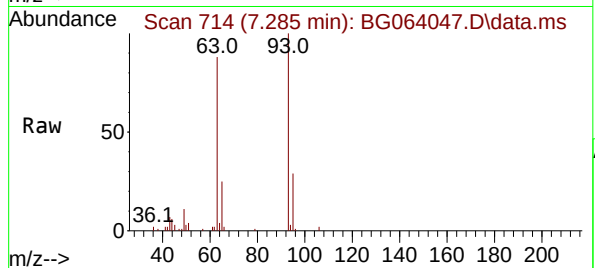
93 100

63 88.5 70.0 110.0

95 28.7 13.7 53.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#12

1,3-Dichlorobenzene

Concen: 10.189 ng

RT: 7.755 min Scan# 794

Delta R.T. -0.004 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

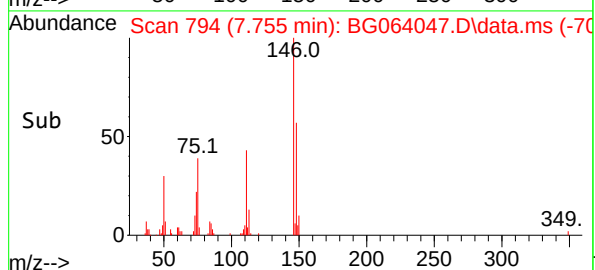
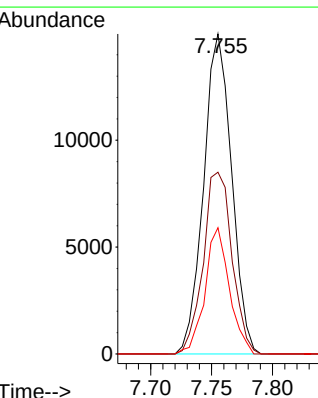
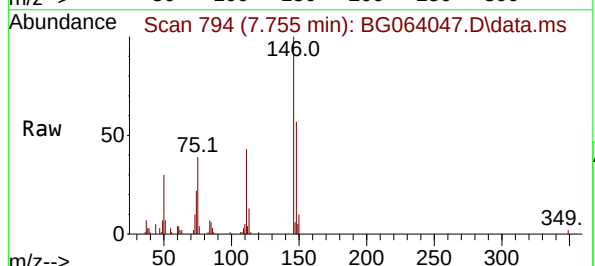
Tgt Ion:146 Resp: 23941

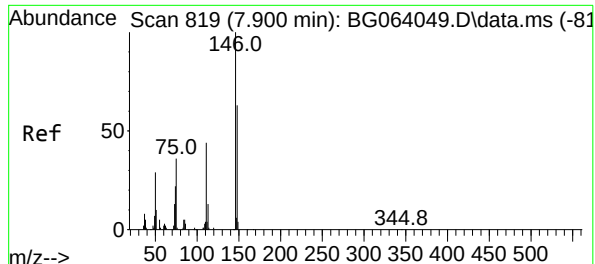
Ion Ratio Lower Upper

146 100

148 56.8 52.6 78.8

75 39.5 28.1 42.1





#13

1,4-Dichlorobenzene

Concen: 9.985 ng

RT: 7.896 min Scan# 81

Delta R.T. -0.004 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

Instrument :

BNA\_G

ClientSampleId :

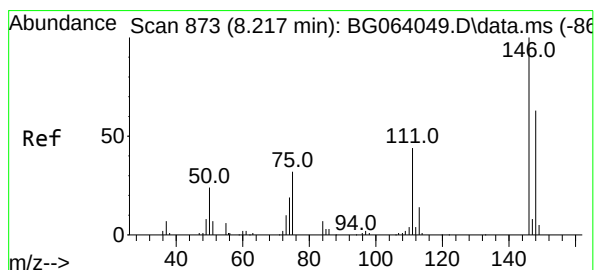
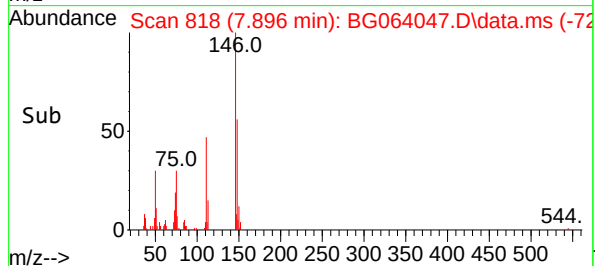
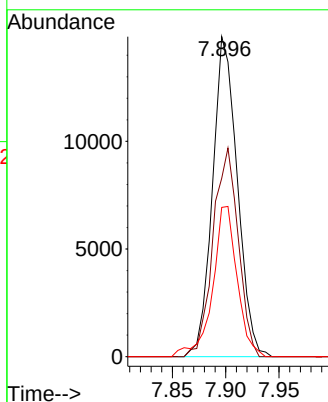
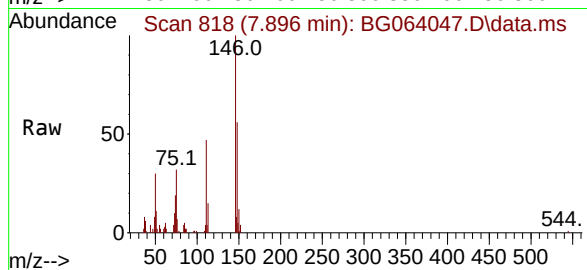
SSTDICC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 55.7  | 50.6  | 75.8  |
| 111     | 46.7  | 35.1  | 52.7  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#14

1,2-Dichlorobenzene

Concen: 9.802 ng

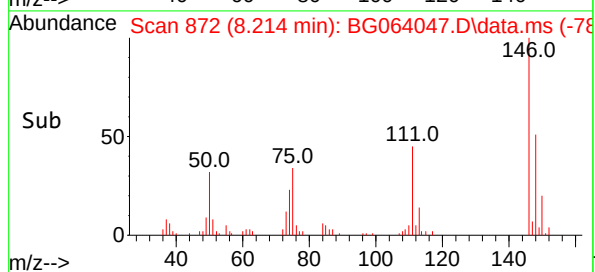
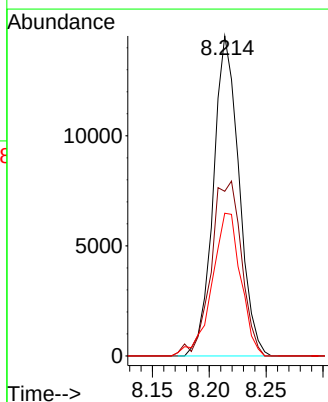
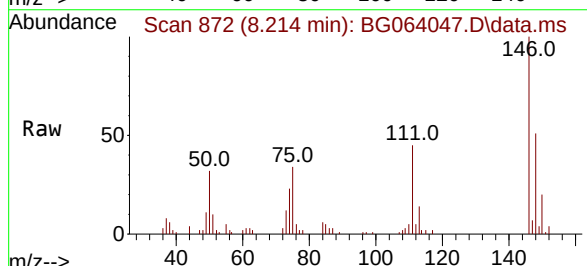
RT: 8.214 min Scan# 872

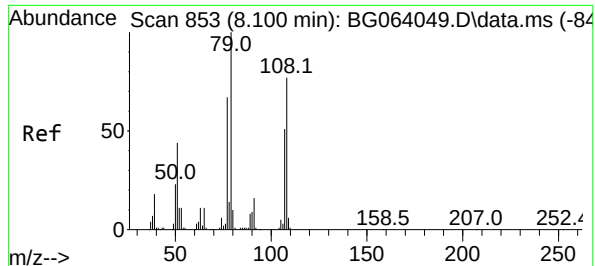
Delta R.T. -0.004 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

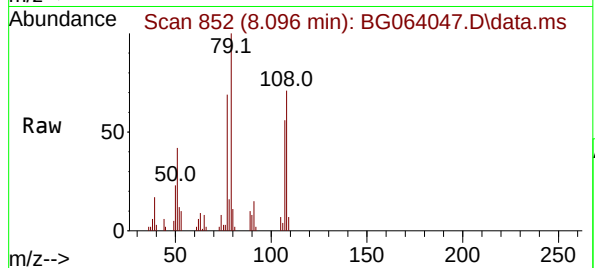
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 51.4  | 50.2  | 75.2  |
| 111     | 44.6  | 36.4  | 54.6  |





#15  
Benzyl Alcohol  
Concen: 9.274 ng  
RT: 8.096 min Scan# 81  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

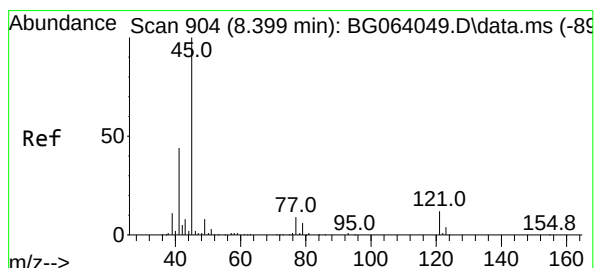
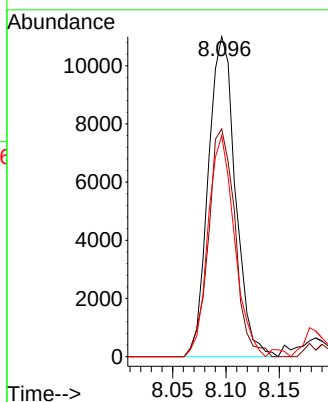
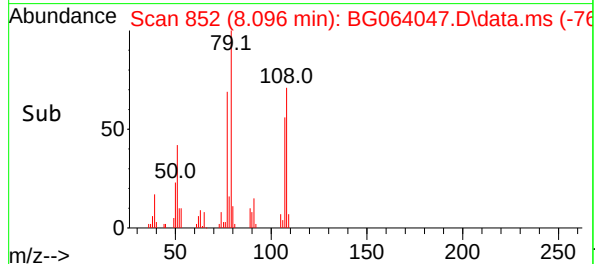
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



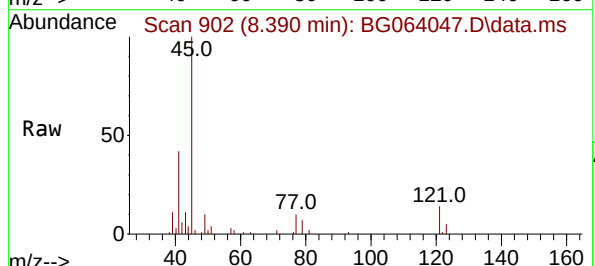
Tgt Ion: 79 Resp: 1942  
Ion Ratio Lower Upper  
79 100  
108 71.2 61.7 92.5  
77 69.0 53.9 80.9

Manual Integrations  
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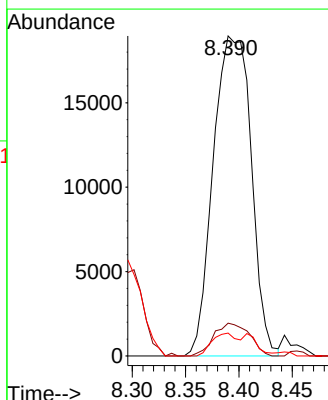
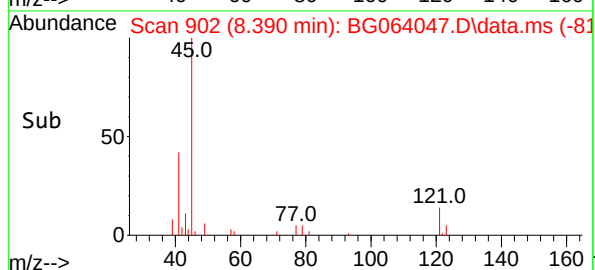
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



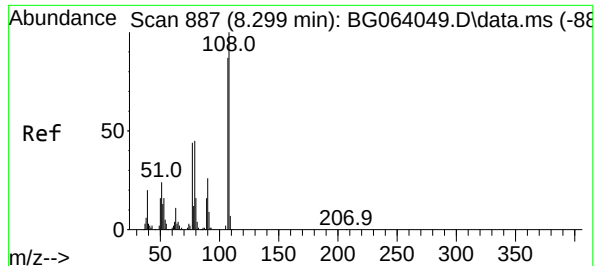
#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 9.615 ng  
RT: 8.390 min Scan# 902  
Delta R.T. -0.010 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22



Tgt Ion: 45 Resp: 47034  
Ion Ratio Lower Upper  
45 100  
77 10.3 0.0 29.0  
79 7.1 0.0 26.6

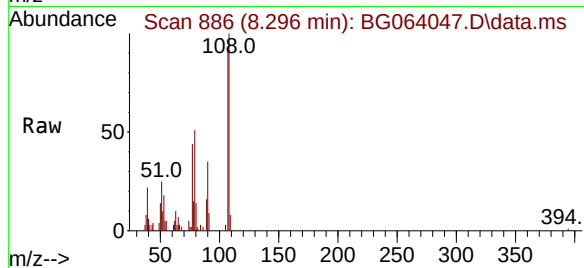






#17  
2-Methylphenol  
Concen: 9.424 ng  
RT: 8.296 min Scan# 887  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

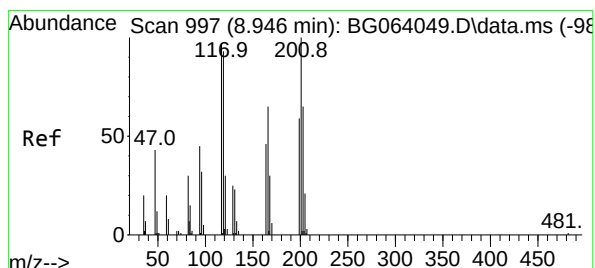
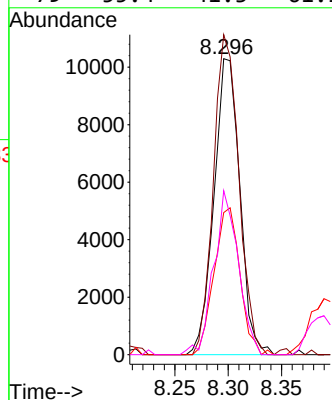
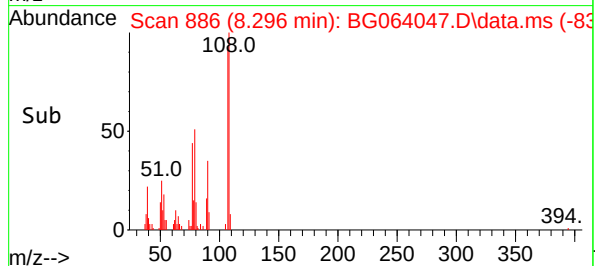
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:107 Resp: 1735  
Ion Ratio Lower Upper  
107 100  
108 108.1 92.5 138.7  
77 48.0 40.5 60.7  
79 55.4 41.3 61.9

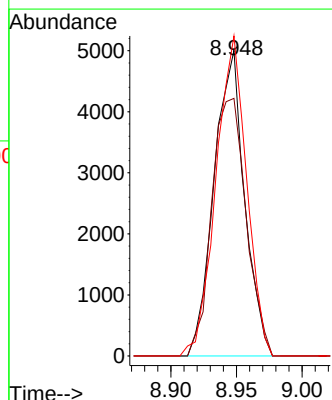
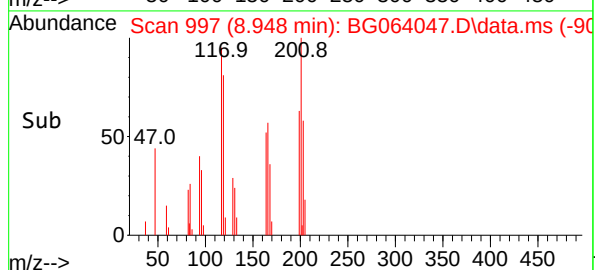
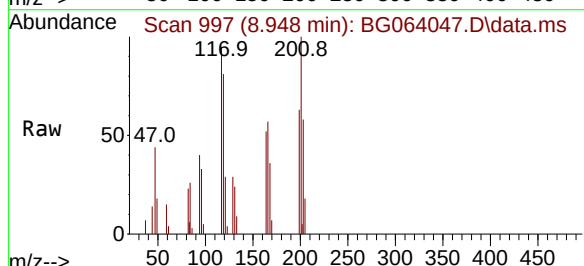
Manual Integrations  
APPROVED

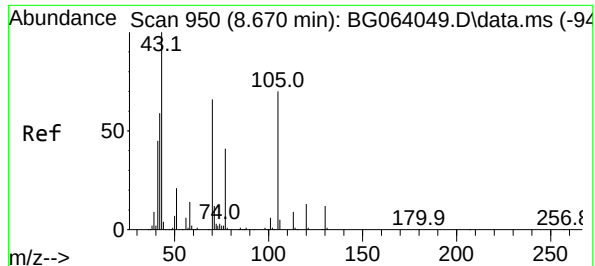
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#18  
Hexachloroethane  
Concen: 9.583 ng  
RT: 8.948 min Scan# 997  
Delta R.T. 0.002 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion:117 Resp: 8075  
Ion Ratio Lower Upper  
117 100  
119 84.3 76.2 114.2  
201 110.2 81.5 122.3





#19

n-Nitroso-di-n-propylamine

Concen: 9.461 ng

RT: 8.660 min Scan# 948

Delta R.T. -0.010 min

Lab File: BG064047.D

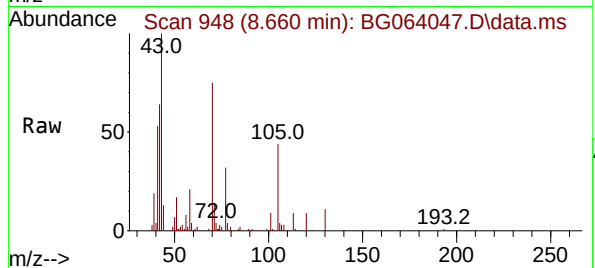
Acq: 5 Mar 2025 10:22

Instrument :

BNA\_G

ClientSampleId :

SSTDICC010



Tgt Ion: 70 Resp: 17990

Ion Ratio Lower Upper

70 100

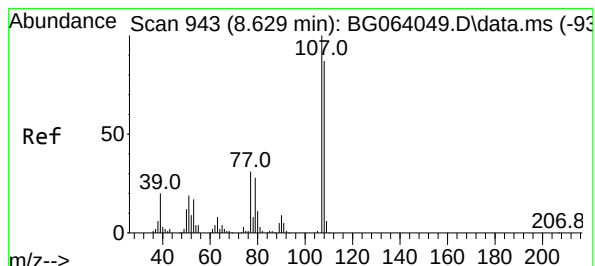
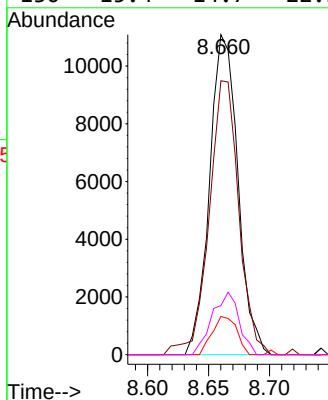
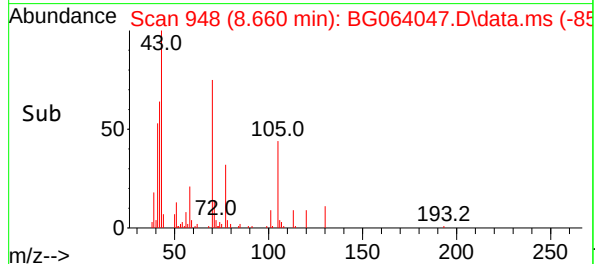
42 85.6 72.1 108.1

101 12.0 7.2 10.8

130 15.4 14.7 22.1

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#20

3+4-Methylphenols

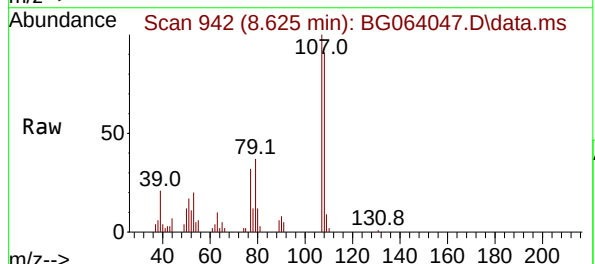
Concen: 9.313 ng

RT: 8.625 min Scan# 942

Delta R.T. -0.004 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22



Tgt Ion:107 Resp: 23611

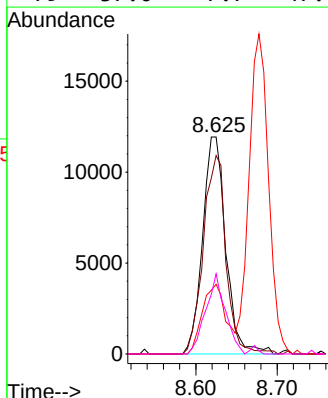
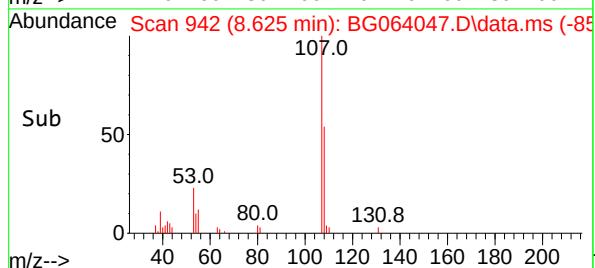
Ion Ratio Lower Upper

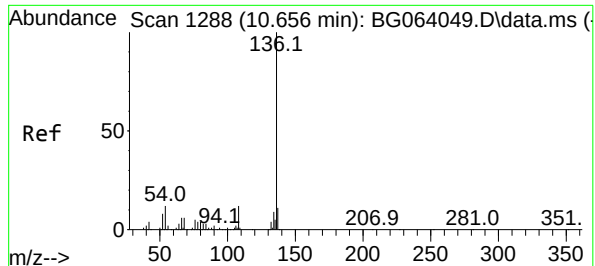
107 100

108 91.4 67.0 107.0

77 32.0 11.2 51.2

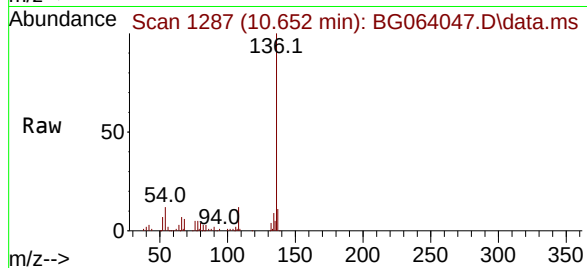
79 37.0 7.7 47.7





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.652 min Scan# 1288  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

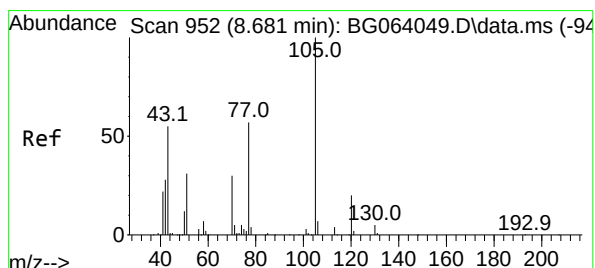
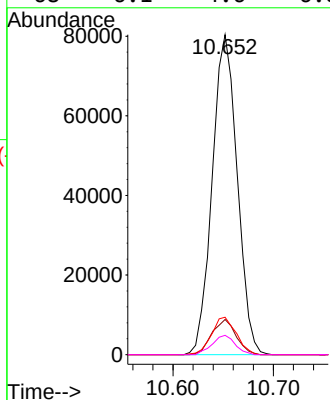
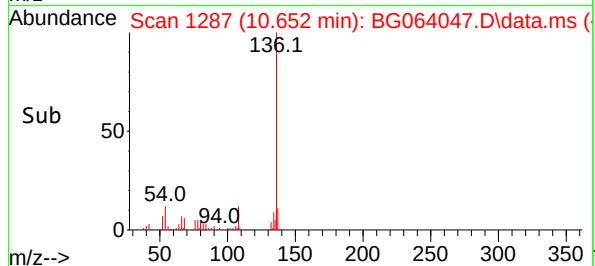
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDIC010



Tgt Ion:136 Resp: 13904  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.5 12.7  
54 11.7 9.9 14.9  
68 6.1 4.6 6.8

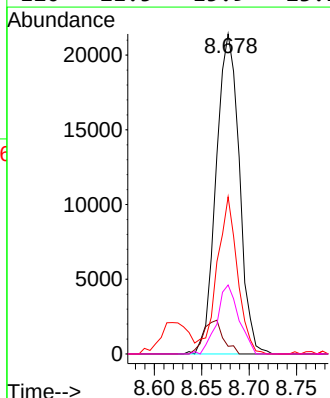
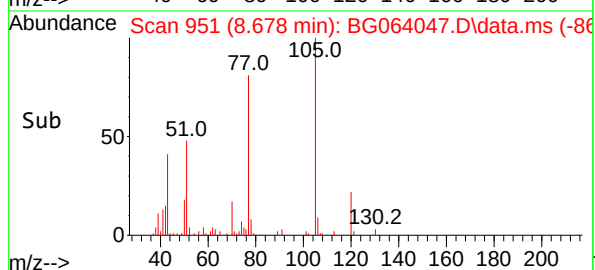
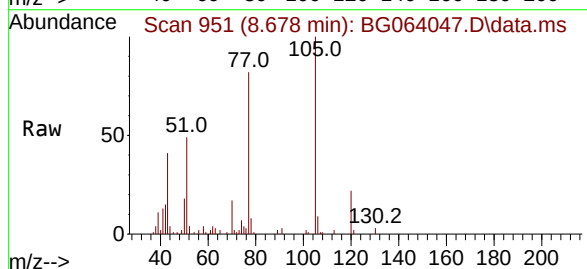
Manual Integrations  
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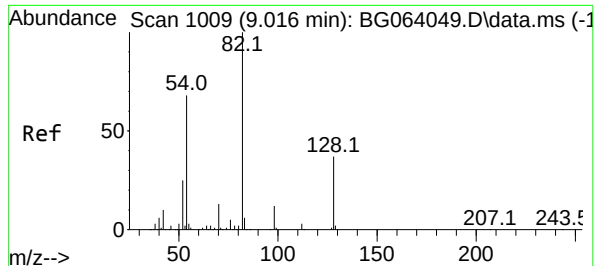
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#22  
Acetophenone  
Concen: 9.566 ng  
RT: 8.678 min Scan# 951  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion:105 Resp: 36468  
Ion Ratio Lower Upper  
105 100  
71 2.4 4.2 6.4#  
51 49.1 33.3 49.9  
120 21.5 15.9 23.9





#23

Nitrobenzene-d5

Concen: 16.583 ng

RT: 9.013 min Scan# 1008

Delta R.T. -0.004 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

Instrument :

BNA\_G

ClientSampleId :

SSTDICC010

Tgt Ion: 82 Resp: 4172

Ion Ratio Lower Upper

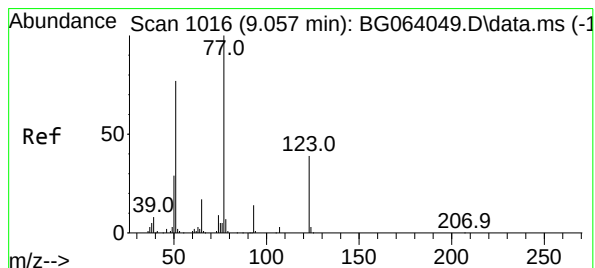
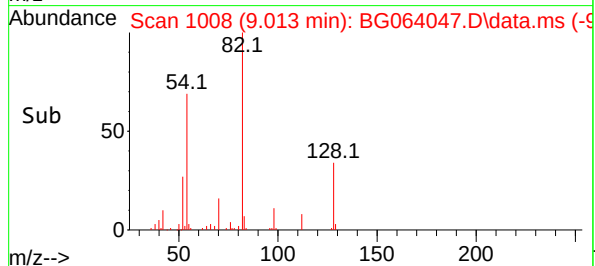
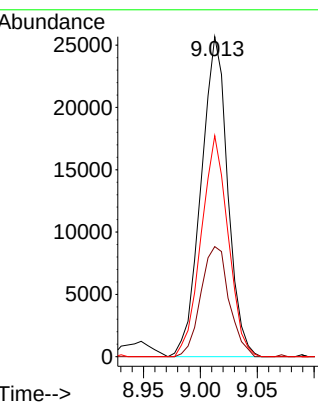
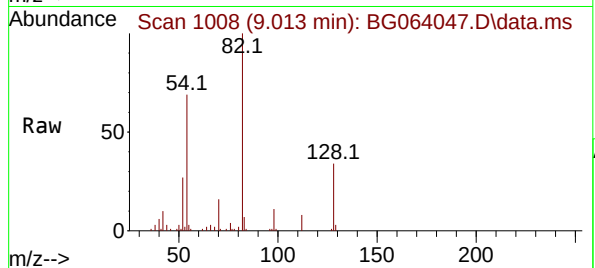
82 100

128 34.4 30.0 45.0

54 69.0 54.7 82.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#24

Nitrobenzene

Concen: 8.554 ng

RT: 9.054 min Scan# 1015

Delta R.T. -0.004 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

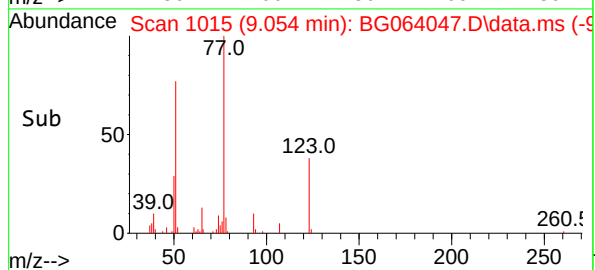
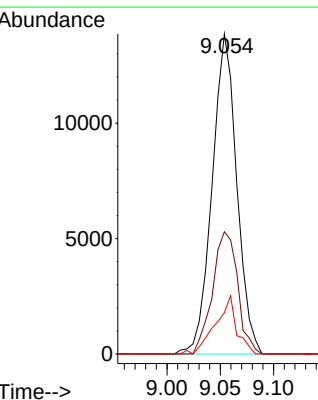
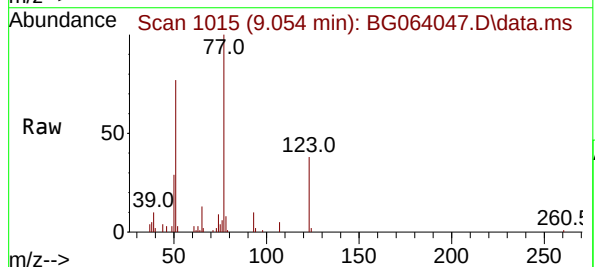
Tgt Ion: 77 Resp: 22242

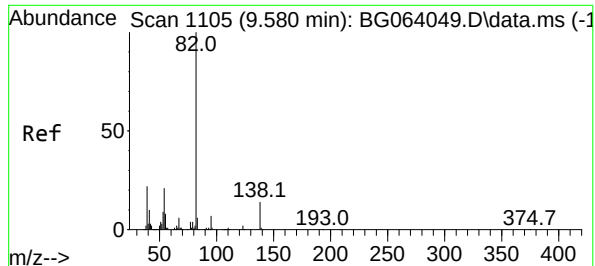
Ion Ratio Lower Upper

77 100

123 38.2 31.4 47.2

65 12.9 13.4 20.0#





#25

Isophorone

Concen: 9.284 ng

RT: 9.577 min Scan# 1104

Delta R.T. -0.004 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

Instrument :

BNA\_G

ClientSampleId :

SSTDICC010

Tgt Ion: 82 Resp: 4675

Ion Ratio Lower Upper

82 100

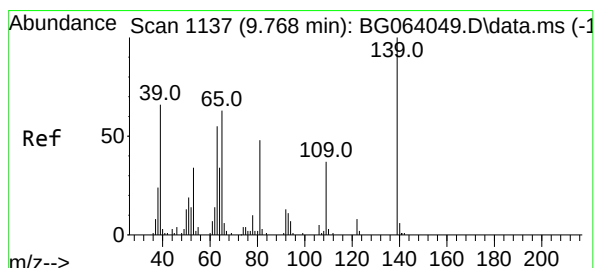
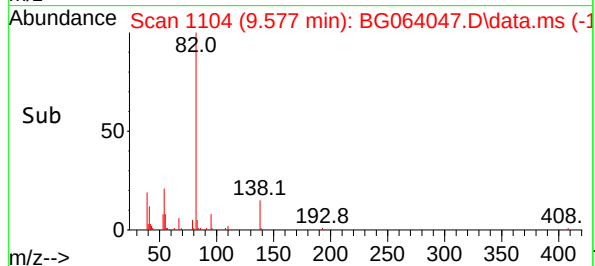
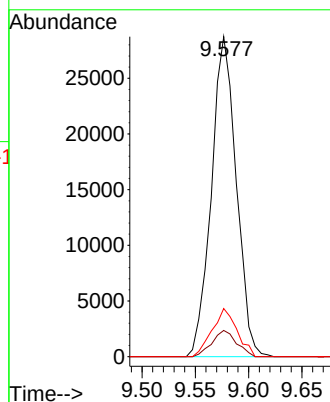
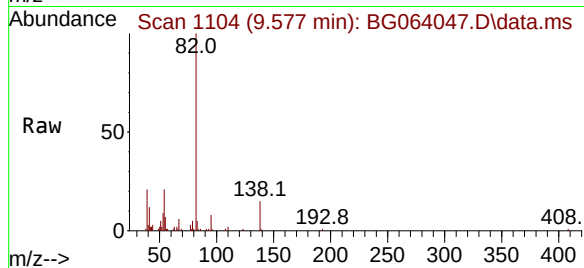
95 8.2 5.8 8.8

138 15.1 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025



#26

2-Nitrophenol

Concen: 9.891 ng

RT: 9.765 min Scan# 1136

Delta R.T. -0.003 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

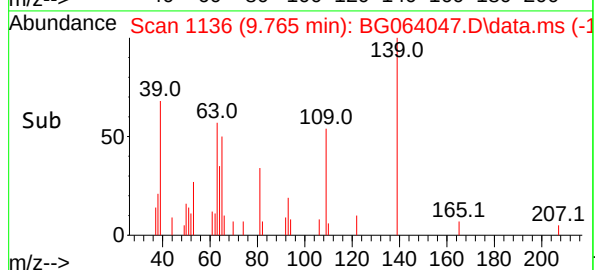
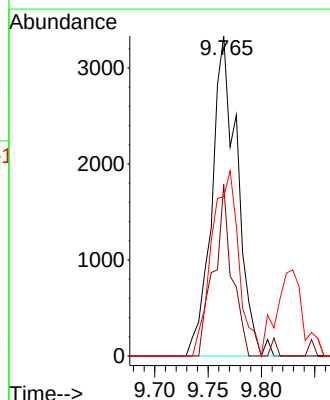
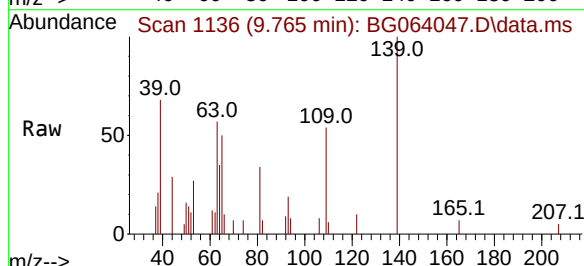
Tgt Ion:139 Resp: 5521

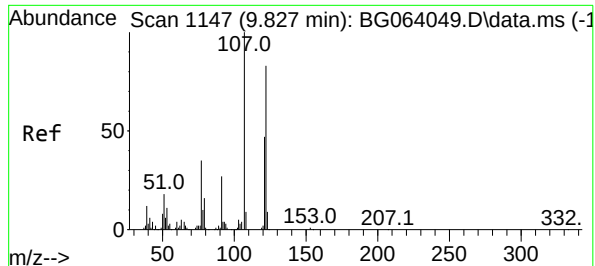
Ion Ratio Lower Upper

139 100

109 53.6 29.9 44.9#

65 49.7 50.6 76.0#





#27

2,4-Dimethylphenol

Concen: 8.631 ng

RT: 9.823 min Scan# 1146

Delta R.T. -0.004 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

Instrument :

BNA\_G

ClientSampleId :

SSTDICC010

Tgt Ion:122 Resp: 13030

Ion Ratio Lower Upper

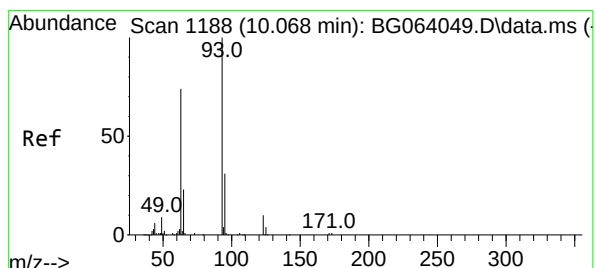
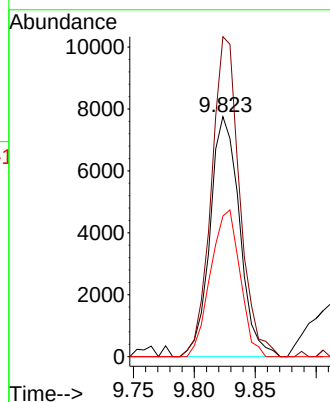
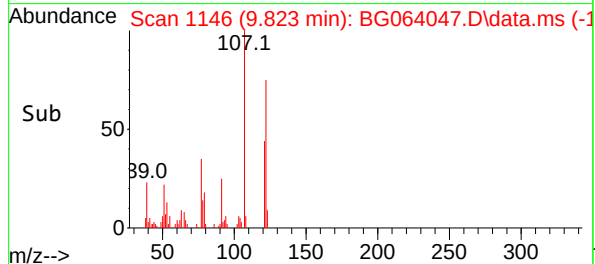
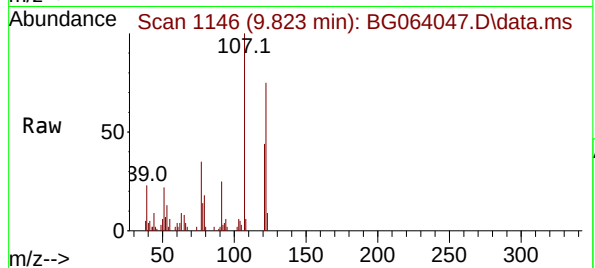
122 100

107 133.3 95.4 143.0

121 58.6 44.9 67.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#28

bis(2-Chloroethoxy)methane

Concen: 9.488 ng

RT: 10.064 min Scan# 1187

Delta R.T. -0.004 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

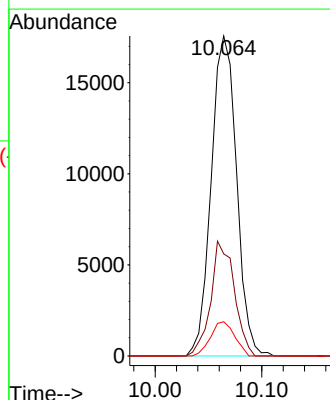
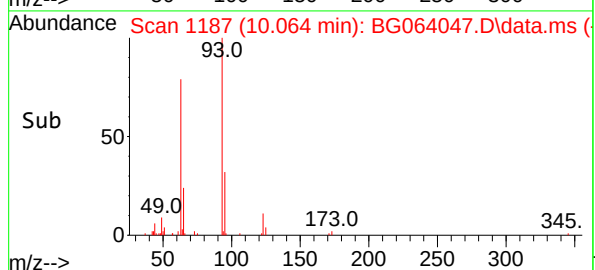
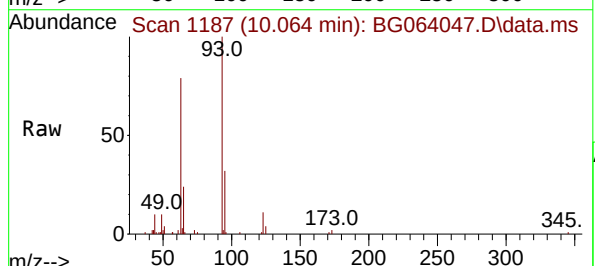
Tgt Ion: 93 Resp: 28970

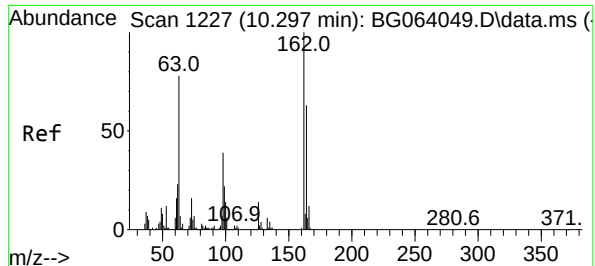
Ion Ratio Lower Upper

93 100

95 31.9 25.0 37.4

123 10.7 7.6 11.4





#29

2,4-Dichlorophenol

Concen: 8.726 ng

RT: 10.293 min Scan# 1226

Delta R.T. -0.004 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

Instrument :

BNA\_G

ClientSampleId :

SSTDICC010

Tgt Ion:162 Resp: 1663

Ion Ratio Lower Upper

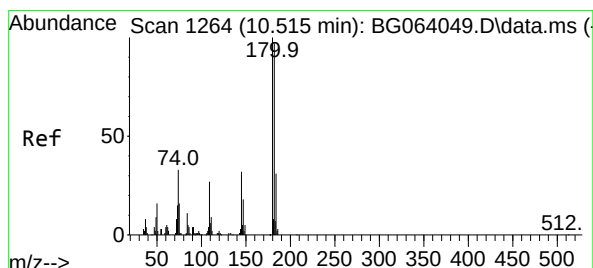
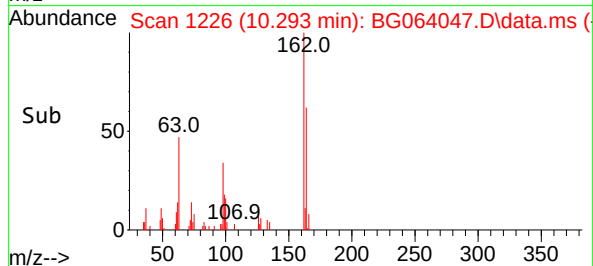
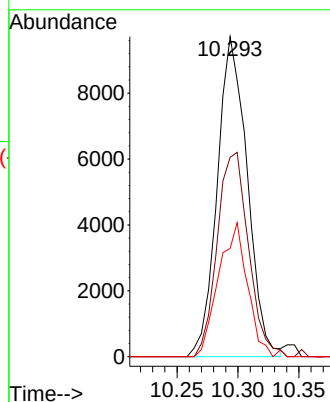
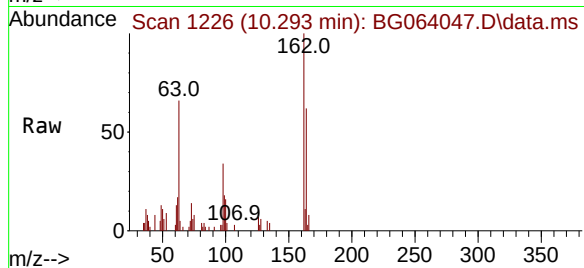
162 100

164 62.3 42.8 82.8

98 33.9 19.1 59.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#30

1,2,4-Trichlorobenzene

Concen: 9.579 ng

RT: 10.517 min Scan# 1264

Delta R.T. 0.002 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

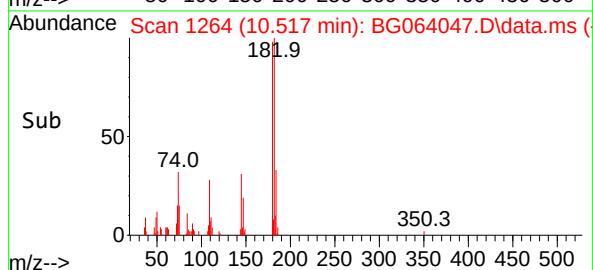
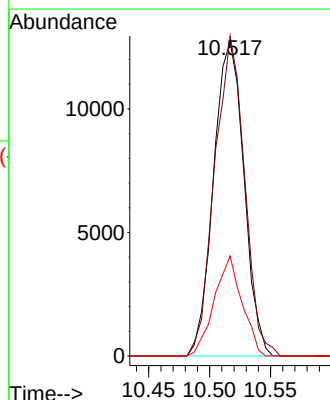
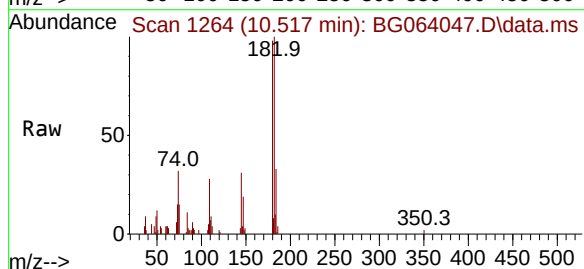
Tgt Ion:180 Resp: 22045

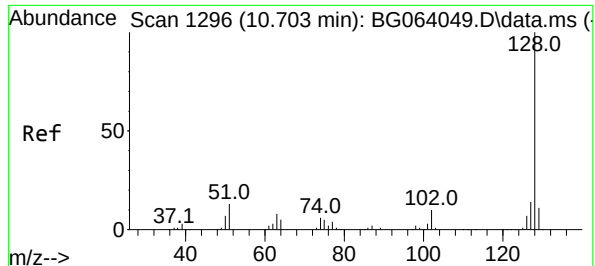
Ion Ratio Lower Upper

180 100

182 101.7 77.3 115.9

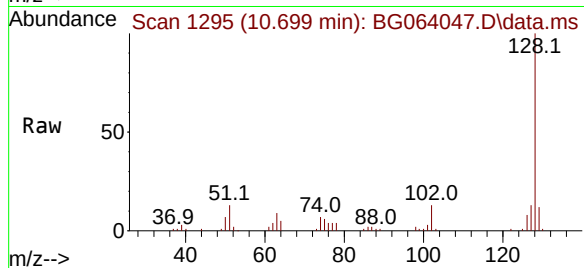
145 31.8 25.2 37.8





#31  
Naphthalene  
Concen: 9.669 ng  
RT: 10.699 min Scan# 1161  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

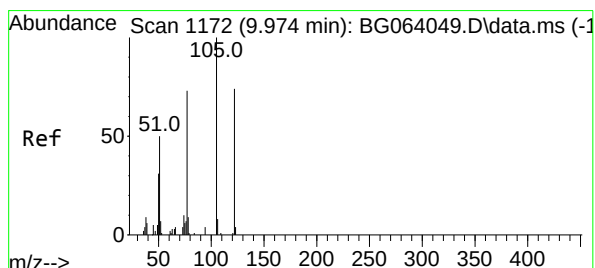
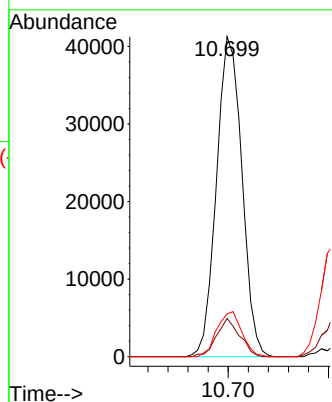
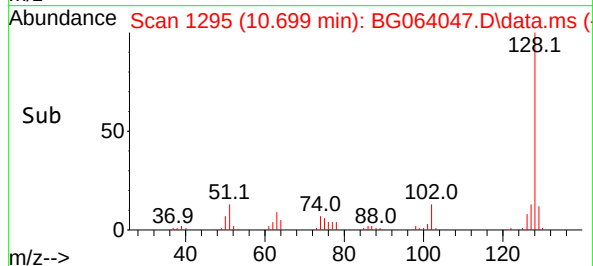
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:128 Resp: 7249  
Ion Ratio Lower Upper  
128 100  
129 11.9 8.4 12.6  
127 13.4 11.1 16.7

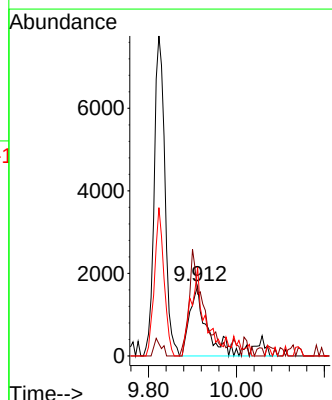
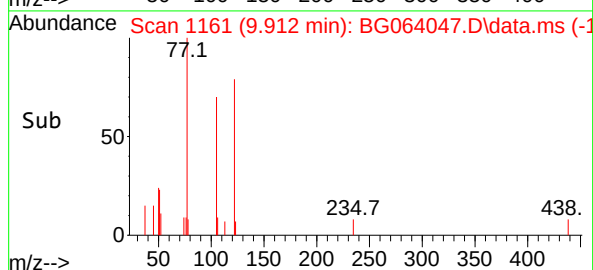
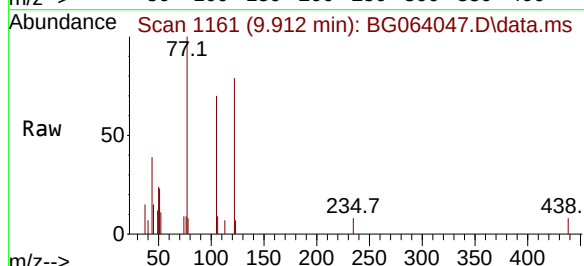
Manual Integrations  
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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

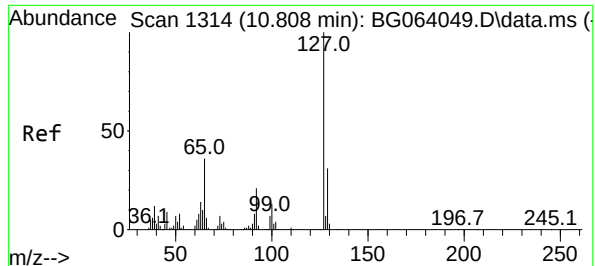


#32  
Benzoic acid  
Concen: 11.884 ng m  
RT: 9.912 min Scan# 1161  
Delta R.T. -0.062 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion:122 Resp: 5442  
Ion Ratio Lower Upper  
122 100  
105 88.5 115.0 155.0#  
77 126.7 80.9 120.9#

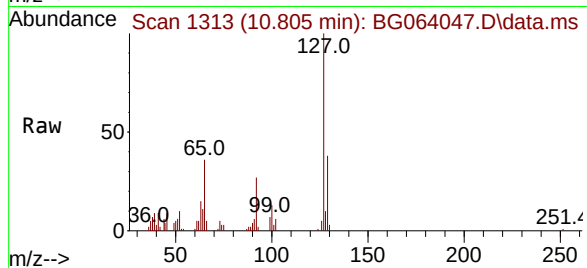






#33  
4-Chloroaniline  
Concen: 9.226 ng  
RT: 10.805 min Scan# 1313  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

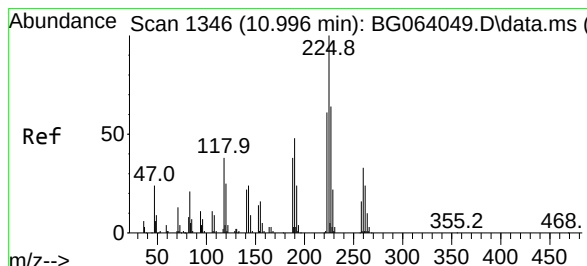
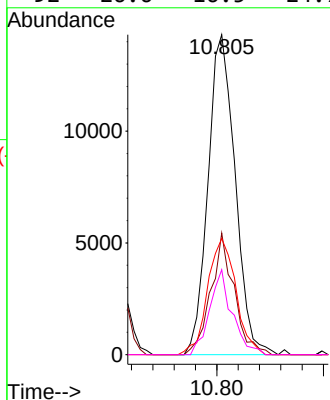
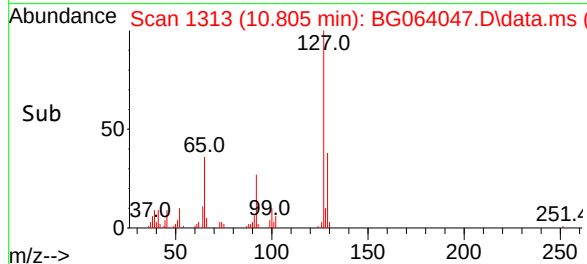
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:127 Resp: 2528  
Ion Ratio Lower Upper  
127 100  
129 38.0 25.0 37.4  
65 36.3 28.5 42.7  
92 26.6 16.5 24.7#

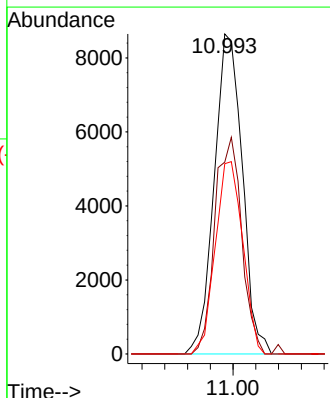
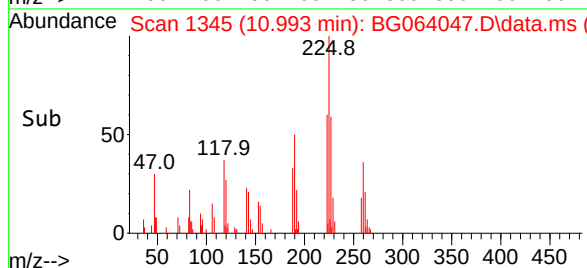
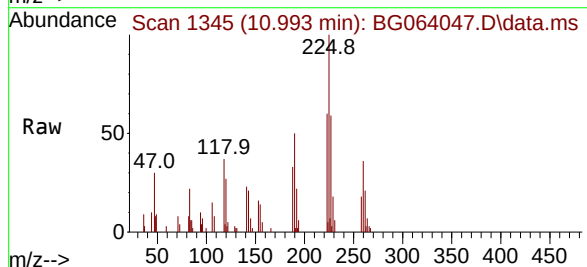
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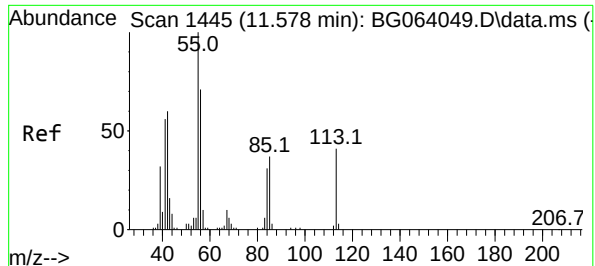
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#34  
Hexachlorobutadiene  
Concen: 9.830 ng  
RT: 10.993 min Scan# 1345  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

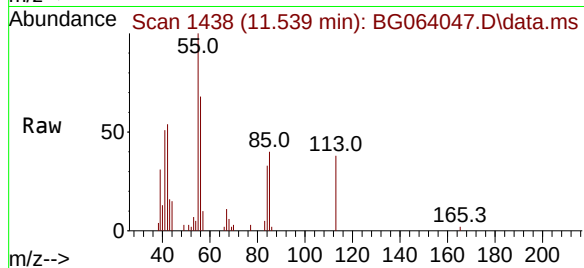
Tgt Ion:225 Resp: 14828  
Ion Ratio Lower Upper  
225 100  
223 60.0 48.5 72.7  
227 62.9 51.0 76.6





#35  
Caprolactam  
Concen: 8.702 ng  
RT: 11.539 min Scan# 1445  
Delta R.T. -0.039 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

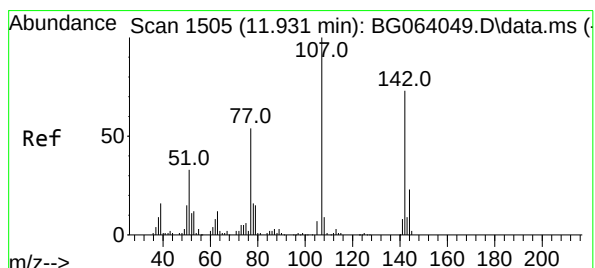
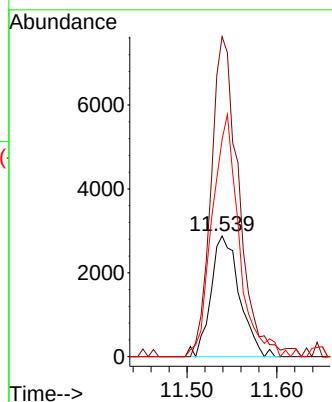
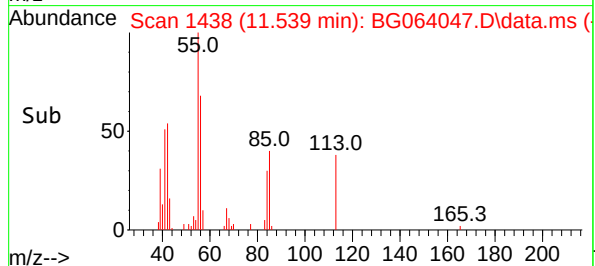
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:113 Resp: 635  
Ion Ratio Lower Upper  
113 100  
55 265.4 225.2 265.2  
56 180.2 153.4 193.4

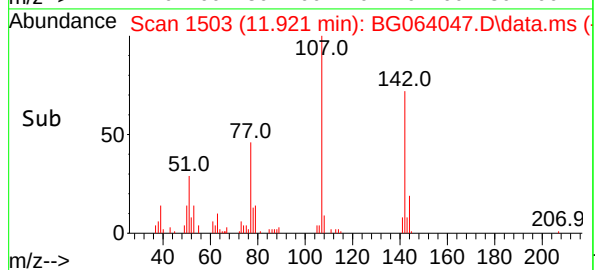
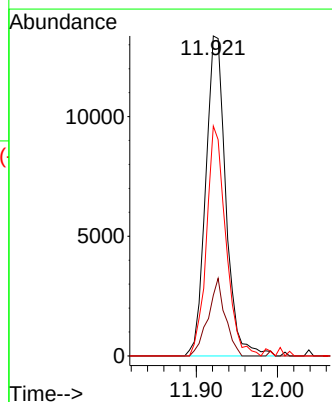
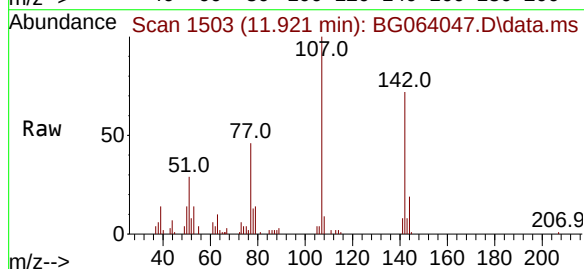
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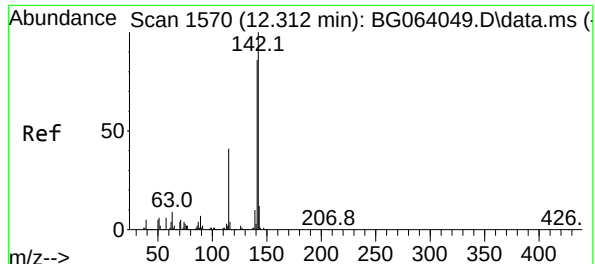
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#36  
4-Chloro-3-methylphenol  
Concen: 9.192 ng  
RT: 11.921 min Scan# 1503  
Delta R.T. -0.010 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion:107 Resp: 22970  
Ion Ratio Lower Upper  
107 100  
144 19.0 18.6 28.0  
142 71.8 58.0 87.0





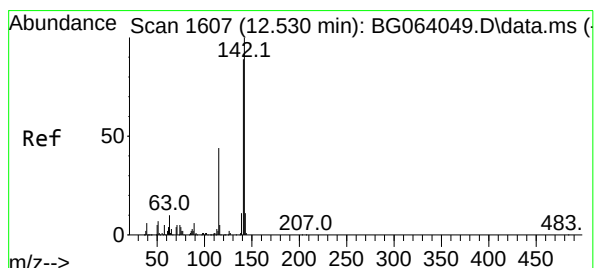
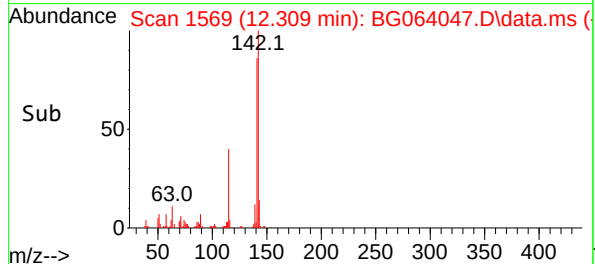
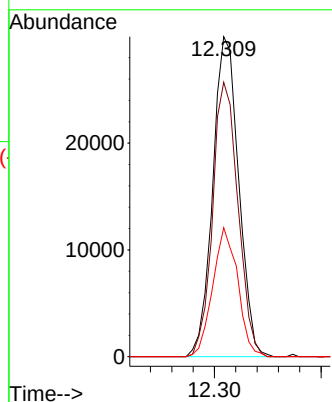
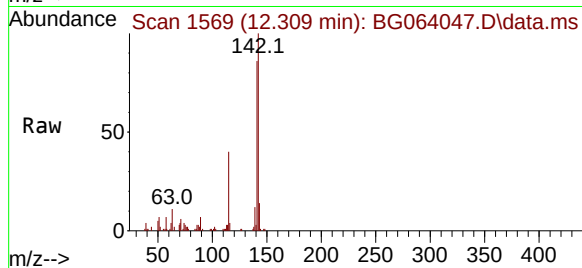
#37  
2-Methylnaphthalene  
Concen: 9.552 ng  
RT: 12.309 min Scan# 1569  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 85.8  | 68.6  | 103.0 |
| 115     | 40.3  | 32.8  | 49.2  |

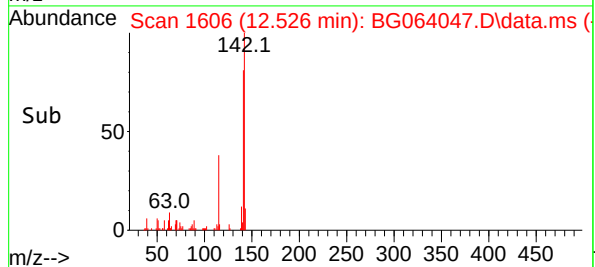
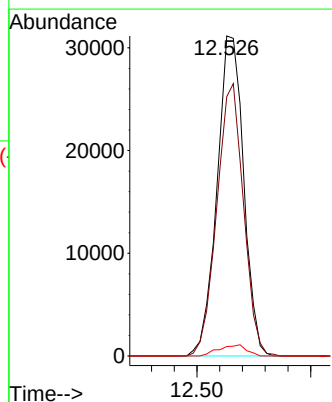
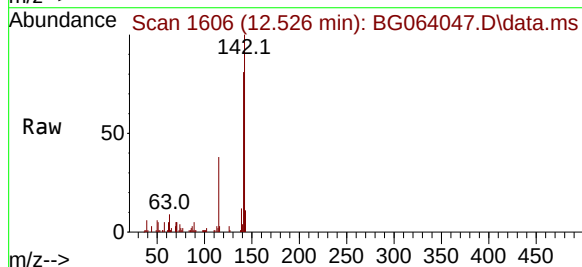
Manual Integrations  
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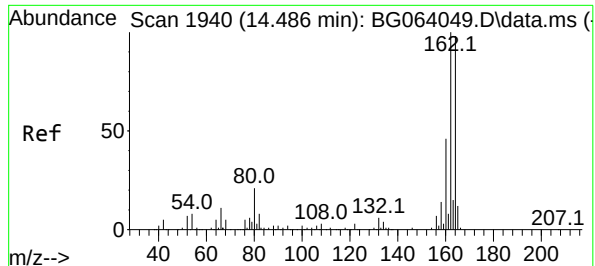
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#38  
1-Methylnaphthalene  
Concen: 9.762 ng  
RT: 12.526 min Scan# 1606  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 81.1  | 71.2  | 106.8 |
| 116     | 3.0   | 3.6   | 5.4   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.489 min Scan# 1940

Delta R.T. 0.003 min

Lab File: BG064047.D

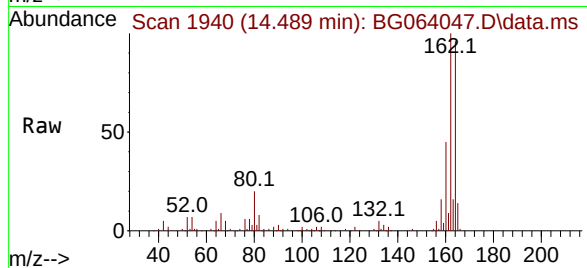
Acq: 5 Mar 2025 10:22

Instrument :

BNA\_G

ClientSampleId :

SSTDICC010

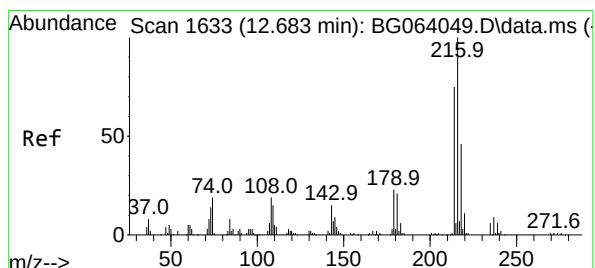
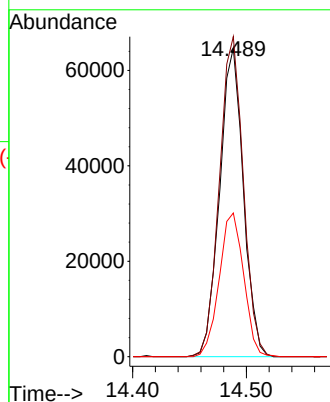
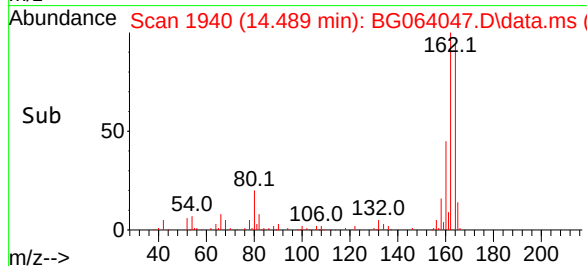


|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 9375  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 162      | 103.7 | 81.4  | 122.0 |
| 160      | 46.5  | 37.0  | 55.6  |

## Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#40

1,2,4,5-Tetrachlorobenzene

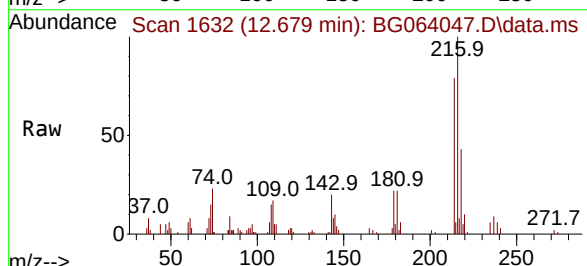
Concen: 10.232 ng

RT: 12.679 min Scan# 1632

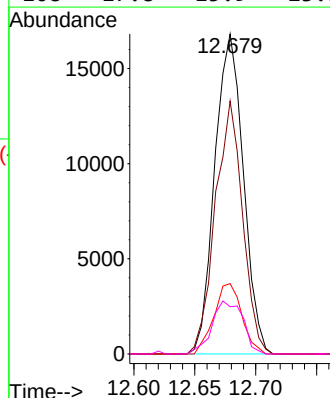
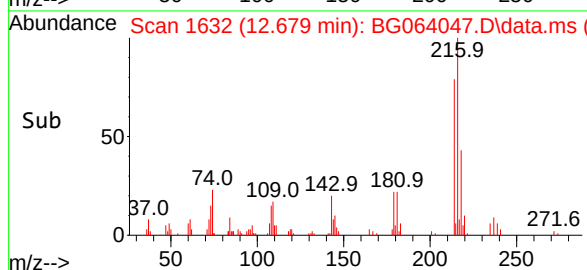
Delta R.T. -0.004 min

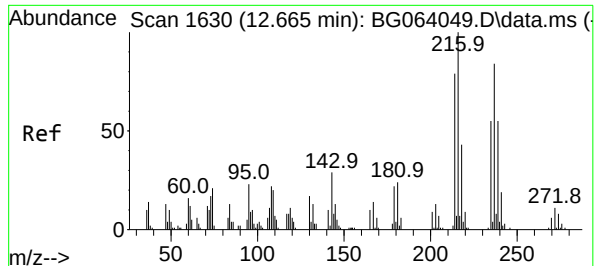
Lab File: BG064047.D

Acq: 5 Mar 2025 10:22



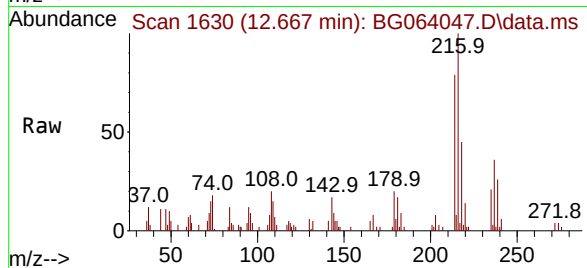
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 216   | Resp: | 27386 |
| Ion      | Ratio | Lower | Upper |
| 216      | 100   |       |       |
| 214      | 75.7  | 61.7  | 92.5  |
| 179      | 21.6  | 17.9  | 26.9  |
| 108      | 17.8  | 15.9  | 23.9  |





#41  
Hexachlorocyclopentadiene  
Concen: 7.985 ng  
RT: 12.667 min Scan# 1630  
Delta R.T. 0.002 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

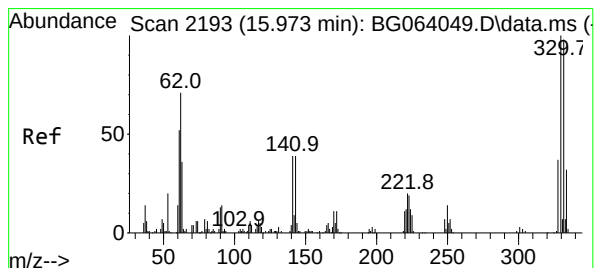
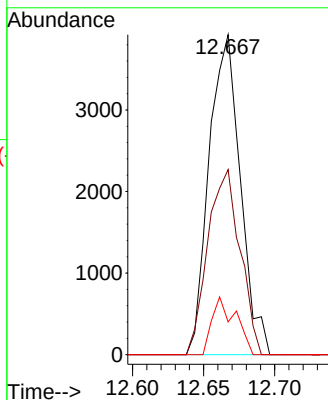
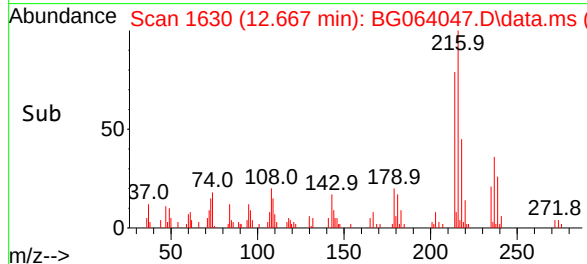
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



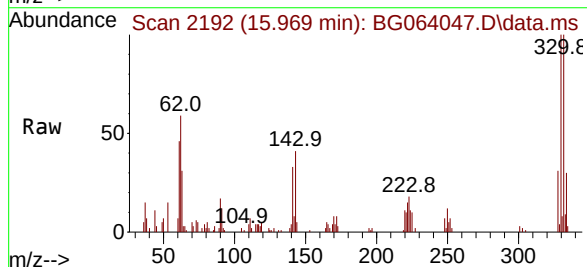
Tgt Ion:237 Resp: 601  
Ion Ratio Lower Upper  
237 100  
235 57.9 46.0 86.0  
272 10.2 0.0 32.8

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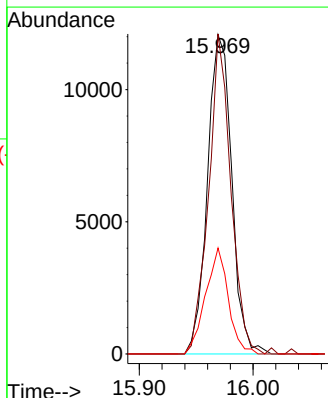
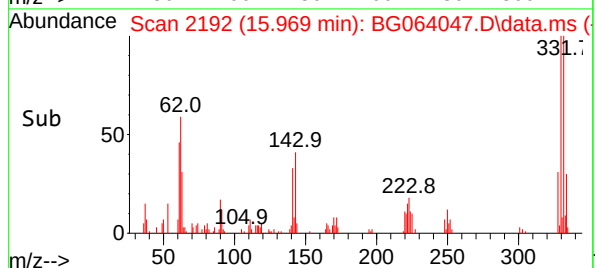
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

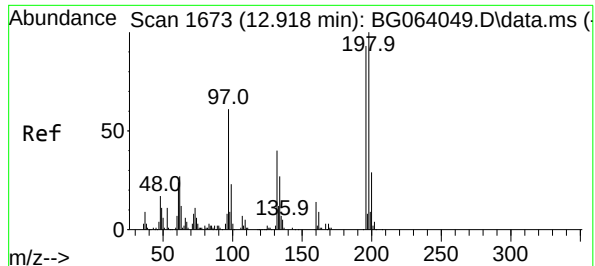


#42  
2,4,6-Tribromophenol  
Concen: 17.174 ng  
RT: 15.969 min Scan# 2192  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22



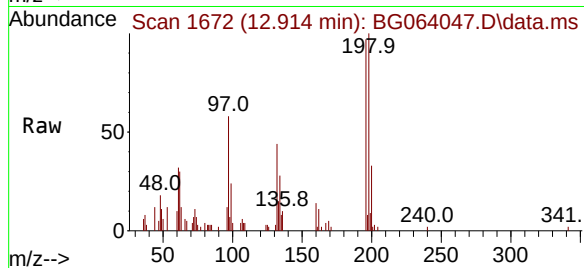
Tgt Ion:330 Resp: 17898  
Ion Ratio Lower Upper  
330 100  
332 91.7 76.7 115.1  
141 31.2 29.7 44.5





#43  
2,4,6-Trichlorophenol  
Concen: 8.693 ng  
RT: 12.914 min Scan# 1672  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

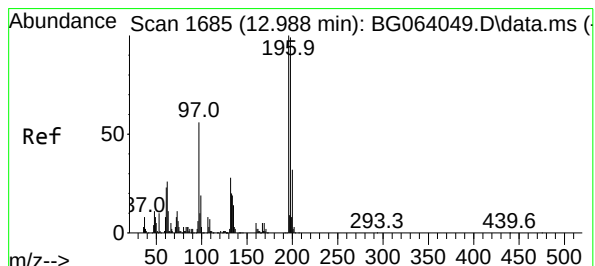
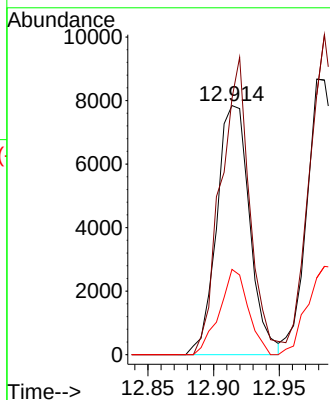
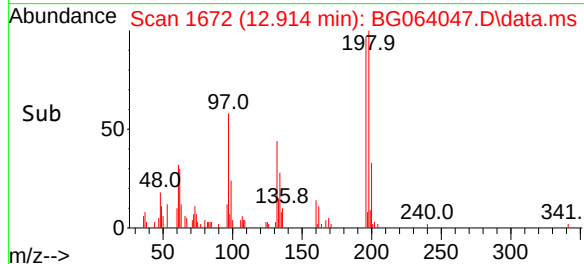
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:196 Resp: 1371  
Ion Ratio Lower Upper  
196 100  
198 102.8 85.6 128.4  
200 36.2 24.6 37.0

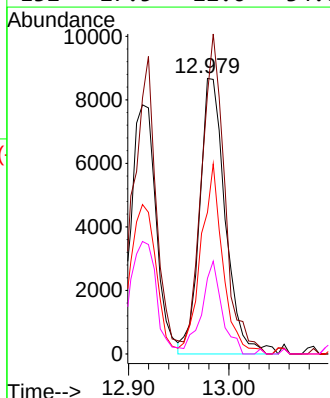
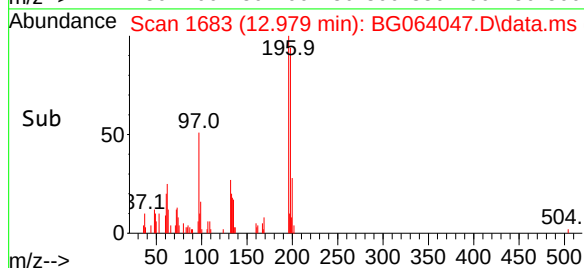
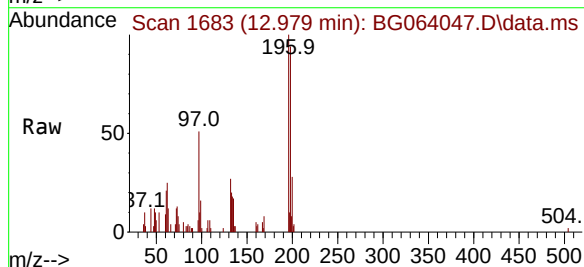
Manual Integrations  
APPROVED

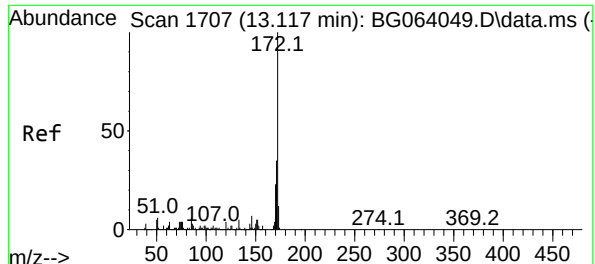
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#44  
2,4,5-Trichlorophenol  
Concen: 8.825 ng  
RT: 12.979 min Scan# 1683  
Delta R.T. -0.010 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion:196 Resp: 15468  
Ion Ratio Lower Upper  
196 100  
198 94.3 79.5 119.3  
97 51.4 45.2 67.8  
132 27.5 22.6 34.0





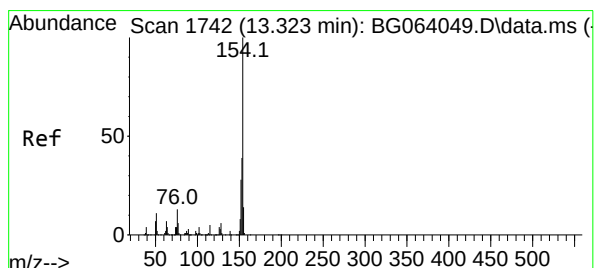
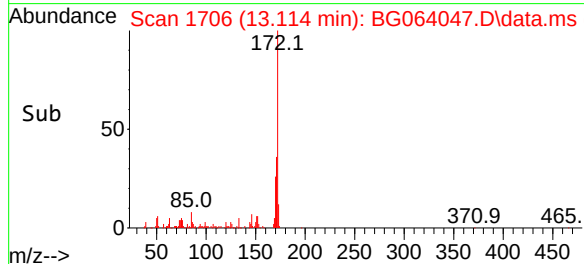
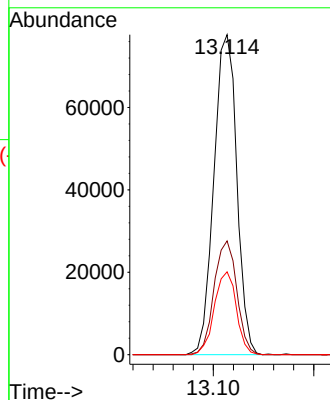
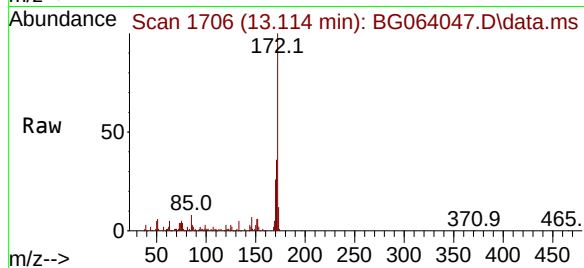
#45  
2-Fluorobiphenyl  
Concen: 19.881 ng  
RT: 13.114 min Scan# 1706  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010

Tgt Ion:172 Resp: 122799  
Ion Ratio Lower Upper  
172 100  
171 35.5 28.0 42.0  
170 25.9 18.7 28.1

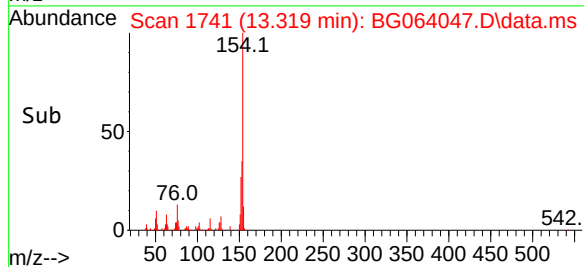
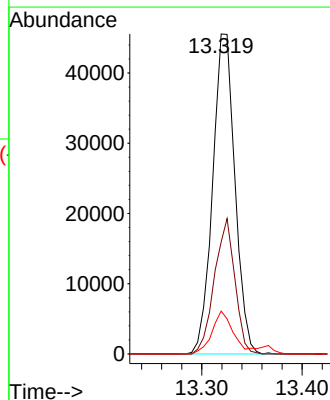
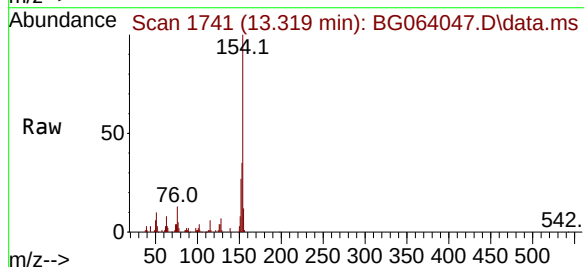
Manual Integrations  
APPROVED

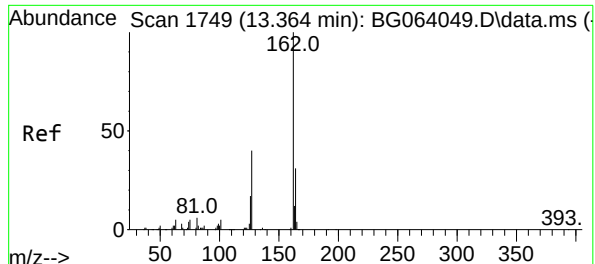
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#46  
1,1'-Biphenyl  
Concen: 9.918 ng  
RT: 13.319 min Scan# 1741  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

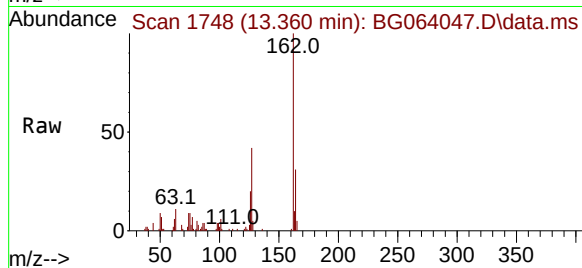
Tgt Ion:154 Resp: 70250  
Ion Ratio Lower Upper  
154 100  
153 35.0 19.5 59.5  
76 13.4 0.0 33.5





#47  
2-Chloronaphthalene  
Concen: 9.755 ng  
RT: 13.360 min Scan# 1748  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

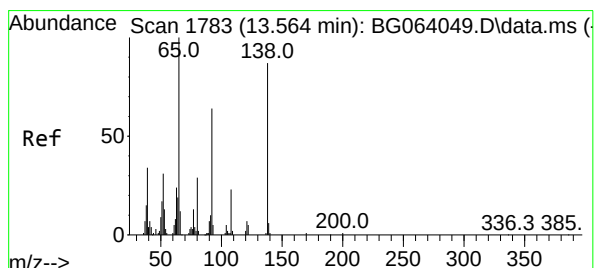
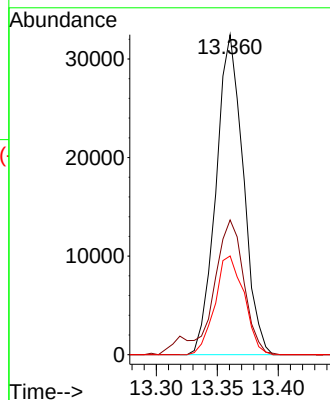
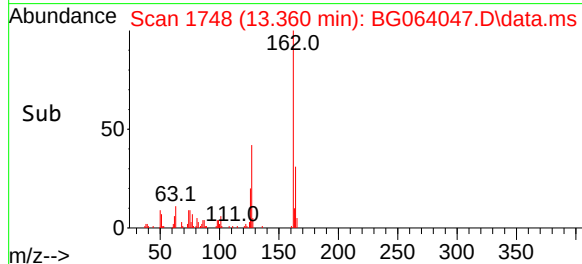
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:162 Resp: 50394  
Ion Ratio Lower Upper  
162 100  
127 42.1 35.0 52.4  
164 30.8 25.0 37.6

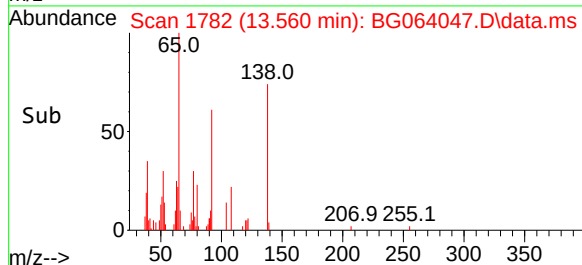
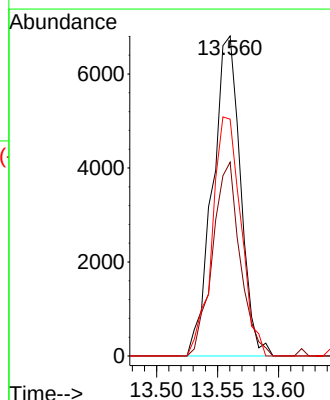
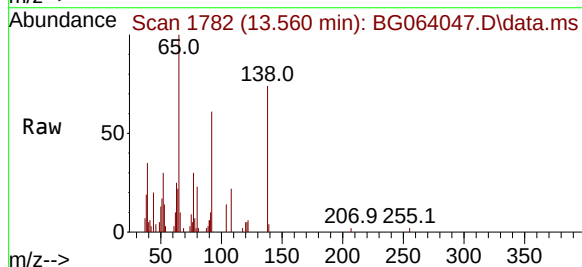
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

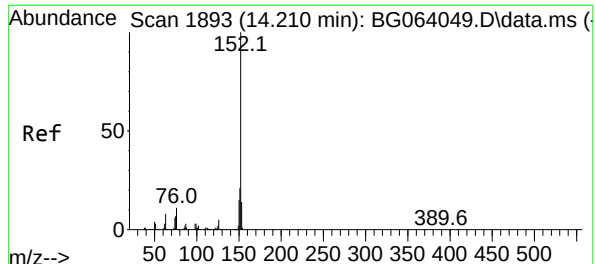


#48  
2-Nitroaniline  
Concen: 9.850 ng  
RT: 13.560 min Scan# 1782  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion: 65 Resp: 10834  
Ion Ratio Lower Upper  
65 100  
92 60.6 51.2 76.8  
138 74.0 69.4 104.2

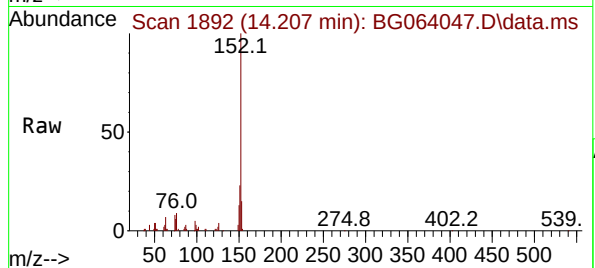






#49  
Acenaphthylene  
Concen: 9.621 ng  
RT: 14.207 min Scan# 1892  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

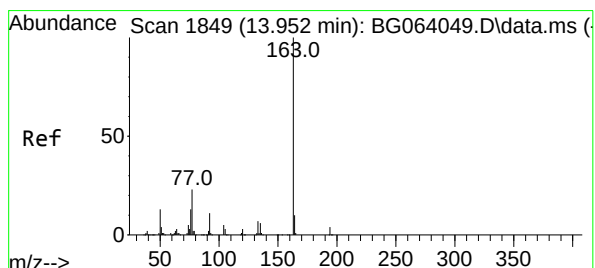
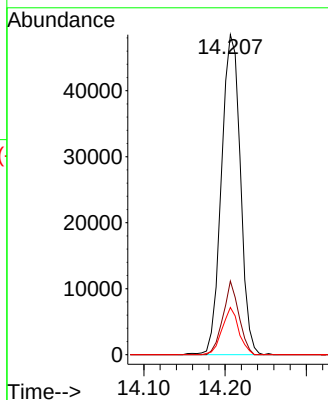
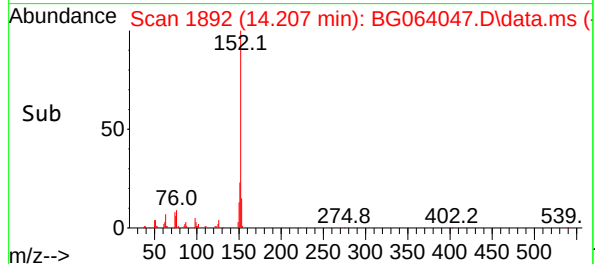
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:152 Resp: 78614  
Ion Ratio Lower Upper  
152 100  
151 23.0 16.4 24.6  
153 14.8 10.9 16.3

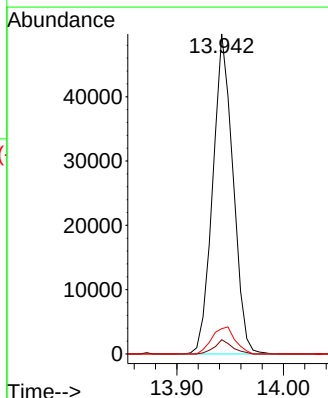
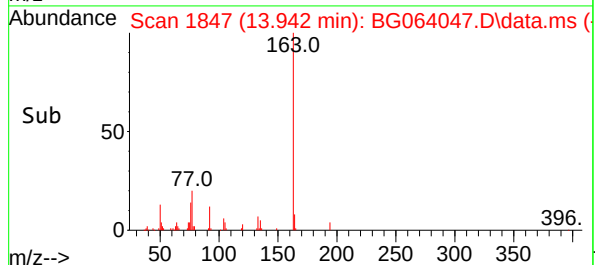
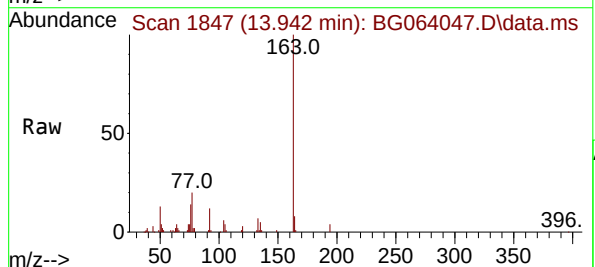
Manual Integrations  
APPROVED

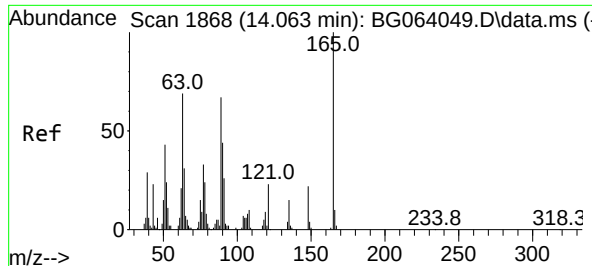
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#50  
Dimethylphthalate  
Concen: 9.487 ng  
RT: 13.942 min Scan# 1847  
Delta R.T. -0.010 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

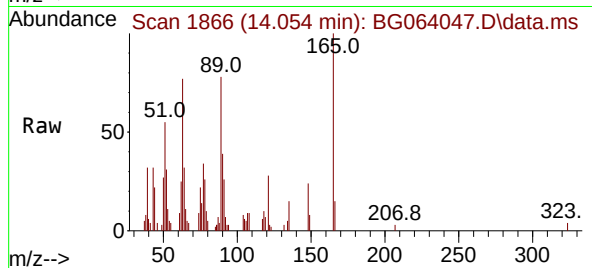
Tgt Ion:163 Resp: 65659  
Ion Ratio Lower Upper  
163 100  
194 4.5 2.8 4.2#  
164 7.9 8.2 12.2#





#51  
2,6-Dinitrotoluene  
Concen: 9.566 ng  
RT: 14.054 min Scan# 1866  
Delta R.T. -0.009 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

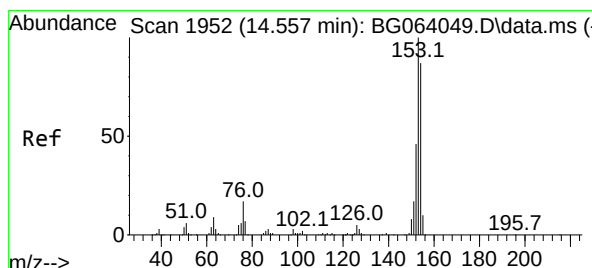
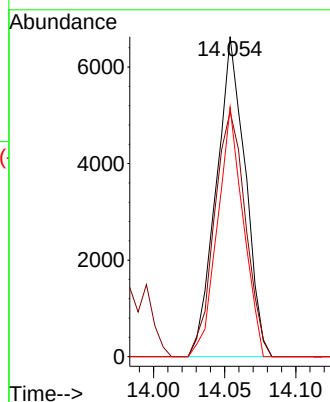
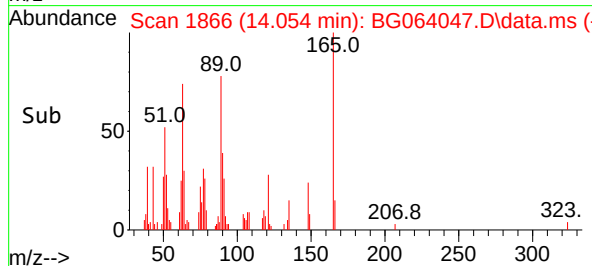
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



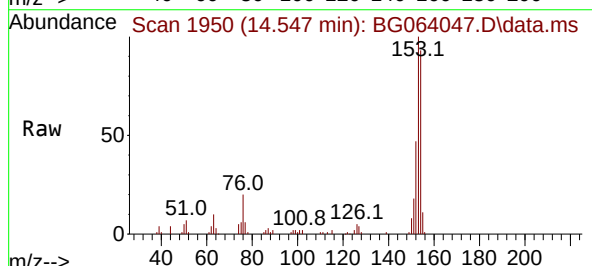
Tgt Ion:165 Resp: 937  
Ion Ratio Lower Upper  
165 100  
63 76.6 56.7 85.1  
89 78.0 53.7 80.5

Manual Integrations  
APPROVED

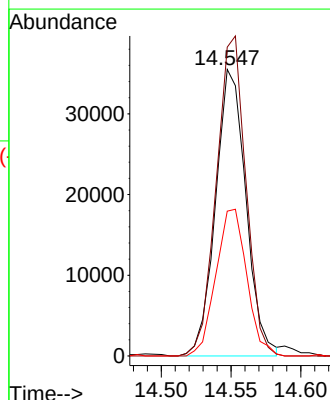
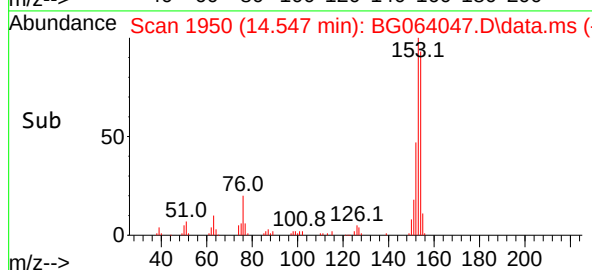
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

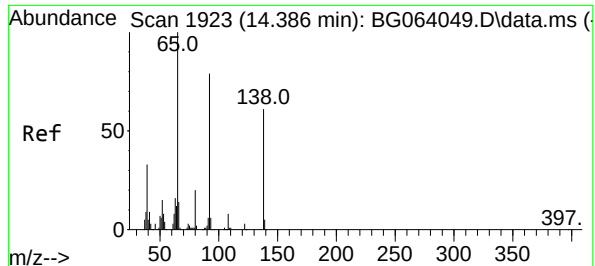


#52  
Acenaphthene  
Concen: 9.797 ng m  
RT: 14.547 min Scan# 1950  
Delta R.T. -0.010 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22



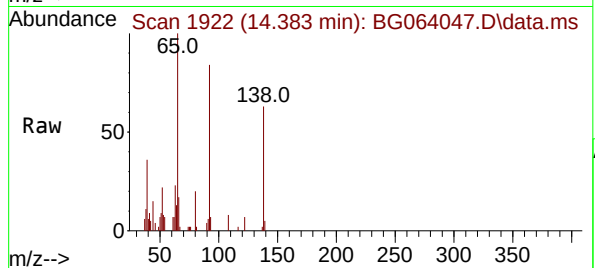
Tgt Ion:154 Resp: 53833  
Ion Ratio Lower Upper  
154 100  
153 107.8 91.6 137.4  
152 50.6 42.5 63.7





#53  
3-Nitroaniline  
Concen: 7.997 ng  
RT: 14.383 min Scan# 1923  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

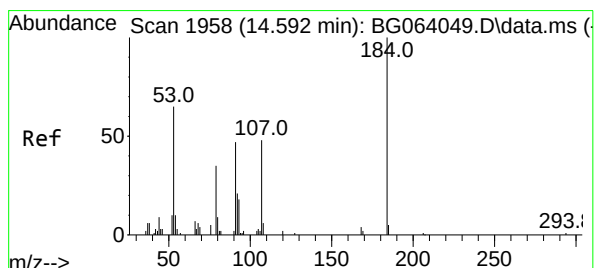
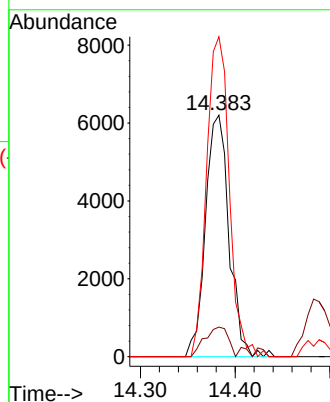
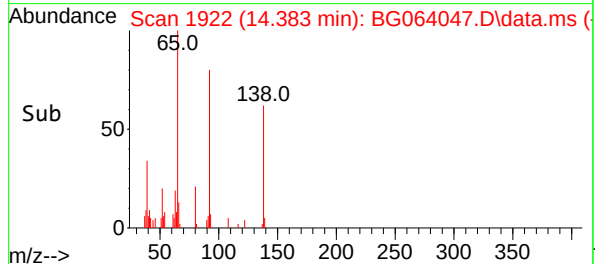
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:138 Resp: 1069  
Ion Ratio Lower Upper  
138 100  
108 12.3 10.1 15.1  
92 132.5 104.1 156.1

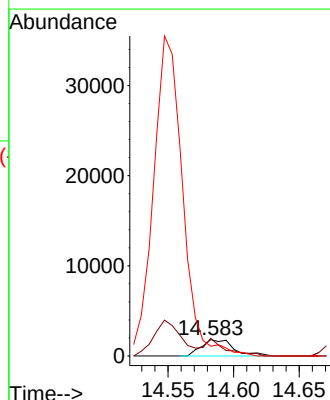
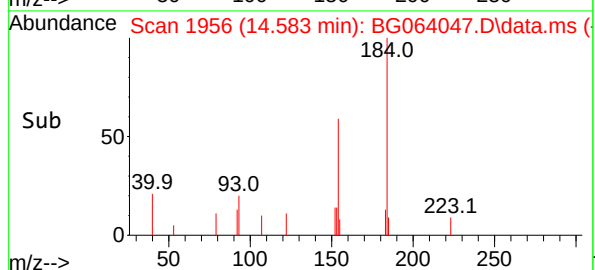
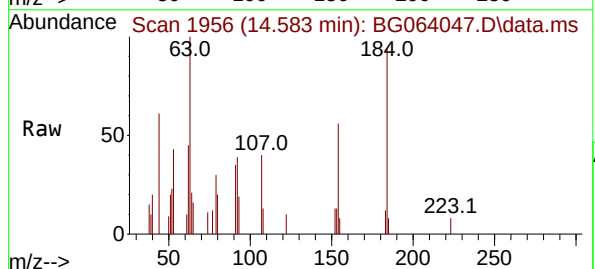
Manual Integrations  
APPROVED

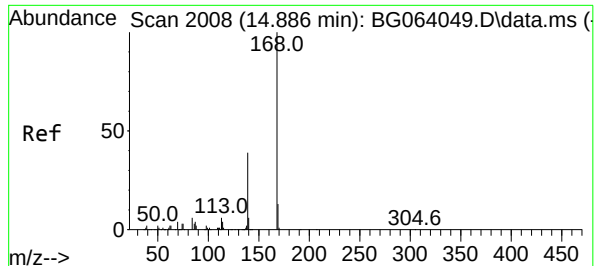
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#54  
2,4-Dinitrophenol  
Concen: 12.640 ng  
RT: 14.583 min Scan# 1956  
Delta R.T. -0.009 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion:184 Resp: 3090  
Ion Ratio Lower Upper  
184 100  
63 106.9 57.5 86.3#  
154 59.5 52.3 78.5





#55

Dibenzenofuran

Concen: 9.924 ng

RT: 14.882 min Scan# 20

Delta R.T. -0.004 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

Instrument :

BNA\_G

ClientSampleId :

SSTDICC010

Tgt Ion:168 Resp: 8816

Ion Ratio Lower Upper

168 100

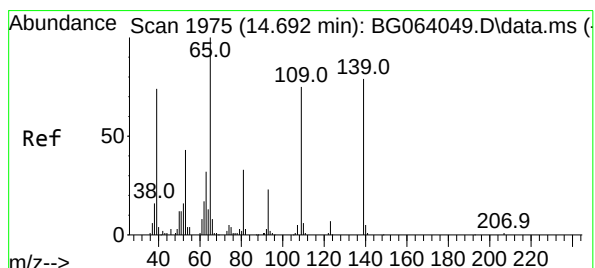
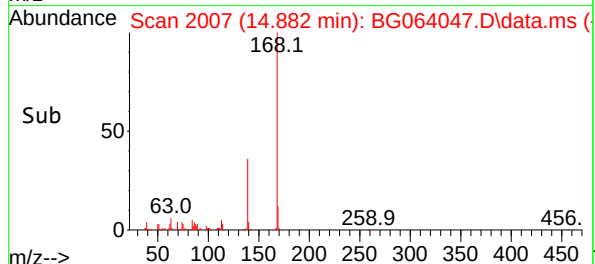
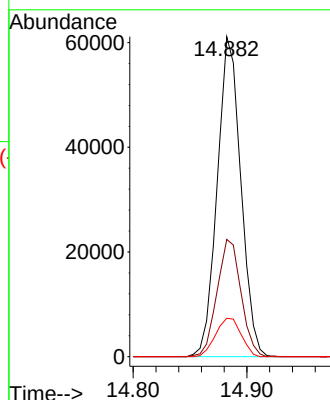
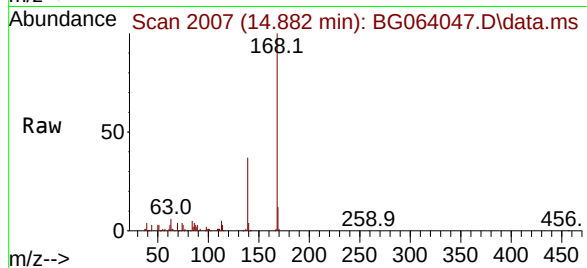
139 36.7 31.1 46.7

169 12.0 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025



#56

4-Nitrophenol

Concen: 6.849 ng

RT: 14.682 min Scan# 1973

Delta R.T. -0.010 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

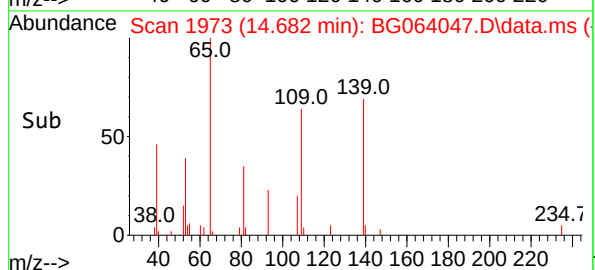
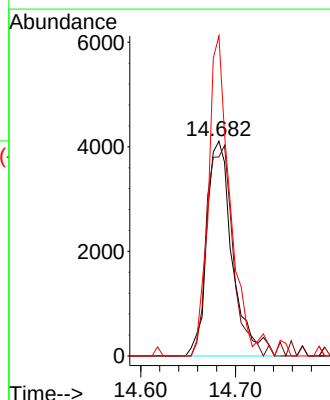
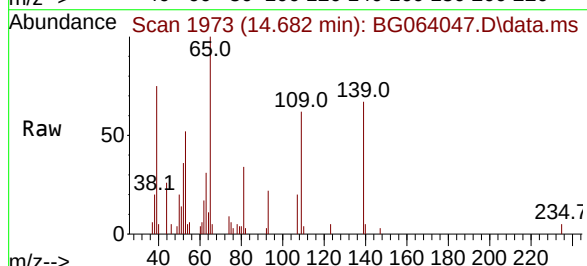
Tgt Ion:139 Resp: 7683

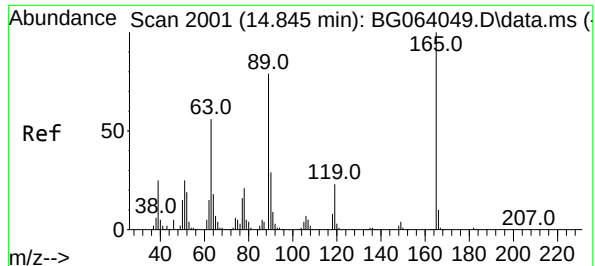
Ion Ratio Lower Upper

139 100

109 92.7 74.9 114.9

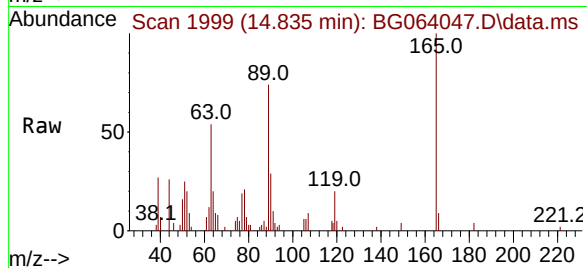
65 149.0 106.8 146.8#





#57  
2,4-Dinitrotoluene  
Concen: 9.344 ng  
RT: 14.835 min Scan# 1999  
Delta R.T. -0.010 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

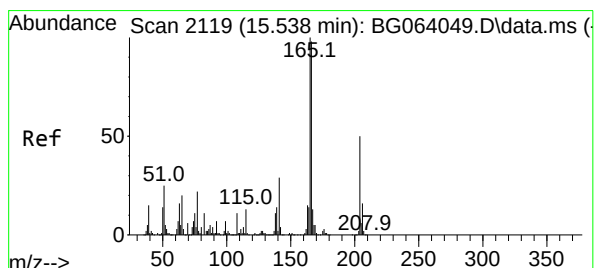
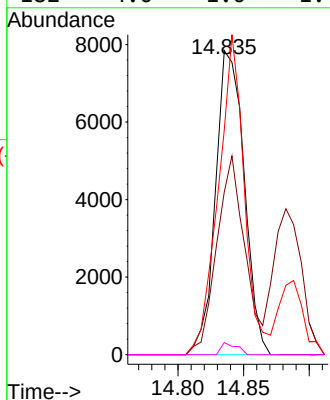
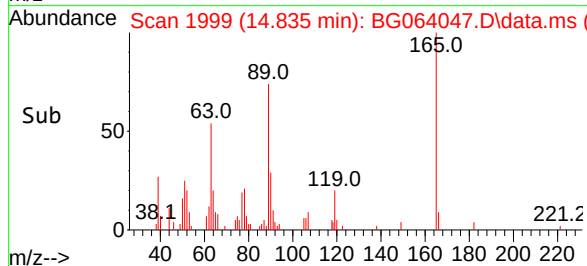
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:165 Resp: 1194  
Ion Ratio Lower Upper  
165 100  
63 53.5 45.0 67.6  
89 74.0 63.1 94.7  
182 4.0 1.0 1.4#

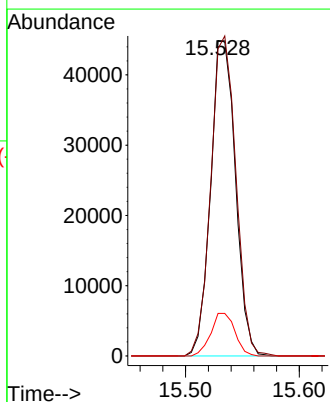
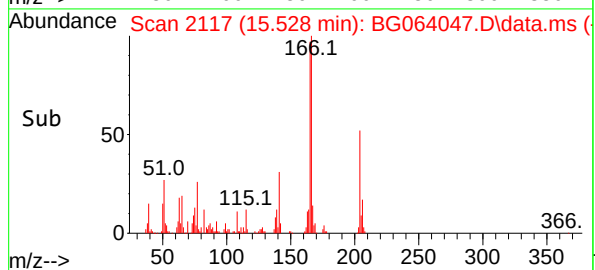
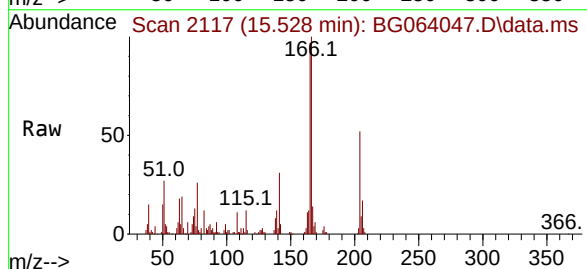
Manual Integrations  
APPROVED

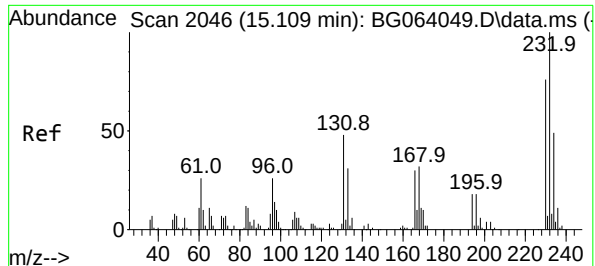
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#58  
Fluorene  
Concen: 9.821 ng  
RT: 15.528 min Scan# 2117  
Delta R.T. -0.010 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion:166 Resp: 67954  
Ion Ratio Lower Upper  
166 100  
165 97.4 81.8 122.8  
167 13.5 10.8 16.2





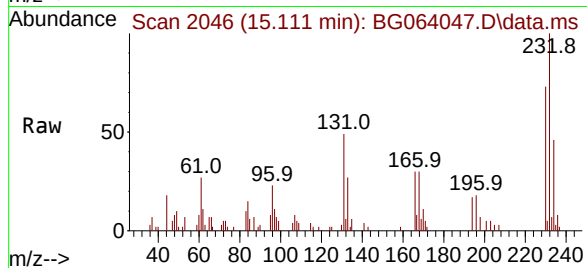
#59  
2,3,4,6-Tetrachlorophenol  
Concen: 8.943 ng  
RT: 15.111 min Scan# 2046  
Delta R.T. 0.002 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Instrument :

BNA\_G

ClientSampleId :

SSTDICC010

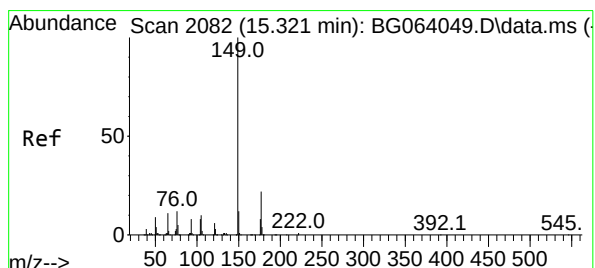
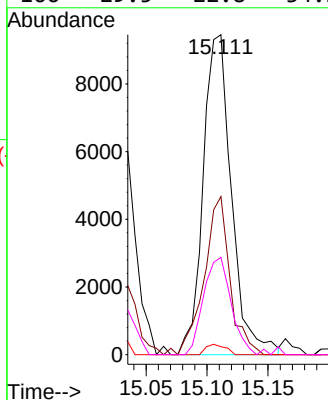
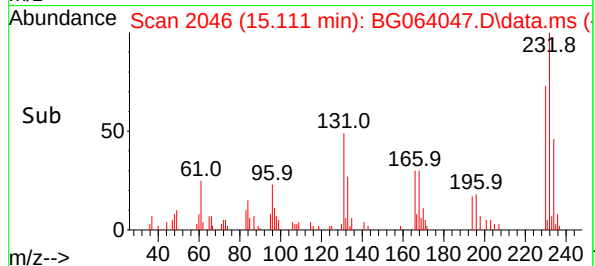


Tgt Ion:232 Resp: 1528  
Ion Ratio Lower Upper  
232 100  
131 45.2 36.3 54.5  
130 2.2 1.9 2.9  
166 29.5 22.8 34.2

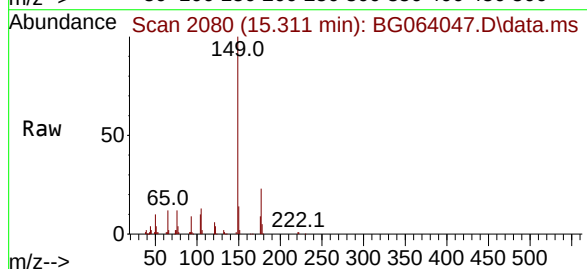
Manual Integrations

APPROVED

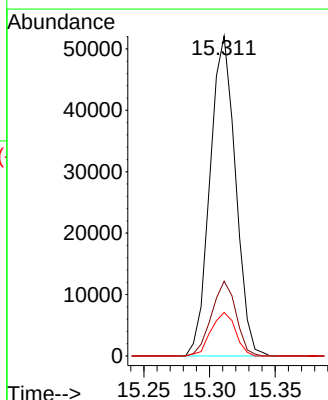
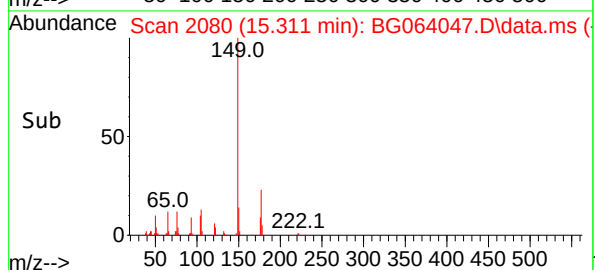
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

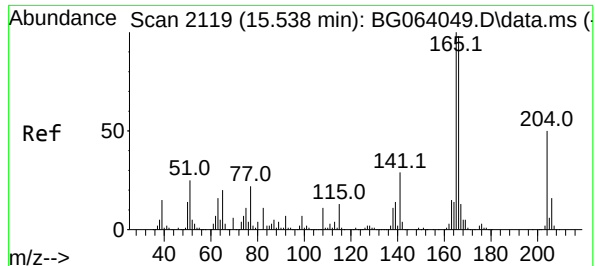


#60  
Diethylphthalate  
Concen: 9.363 ng  
RT: 15.311 min Scan# 2080  
Delta R.T. -0.010 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22



Tgt Ion:149 Resp: 70346  
Ion Ratio Lower Upper  
149 100  
177 23.4 17.4 26.2  
150 13.6 9.4 14.2





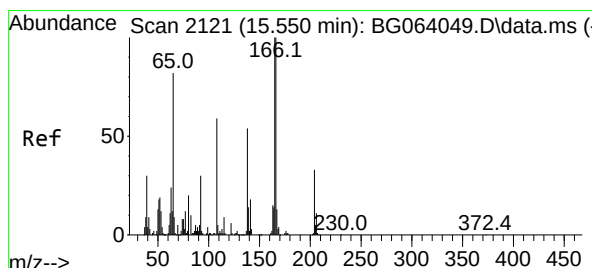
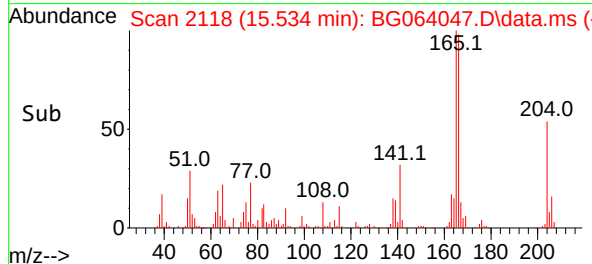
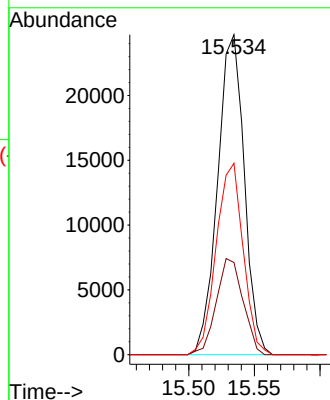
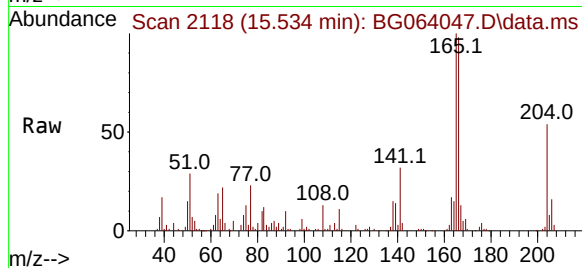
#61  
4-Chlorophenyl-phenylether  
Concen: 10.139 ng  
RT: 15.534 min Scan# 2119  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010

Tgt Ion:204 Resp: 34862  
Ion Ratio Lower Upper  
204 100  
206 28.8 25.5 38.3  
141 59.8 45.4 68.0

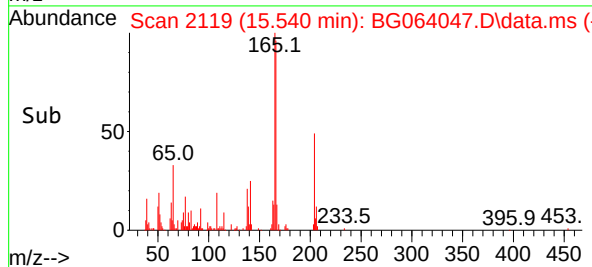
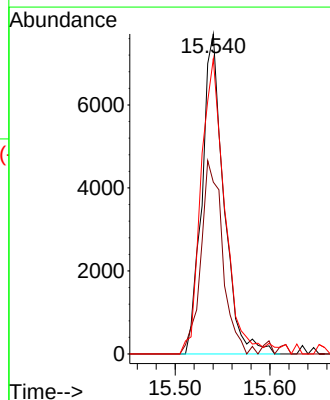
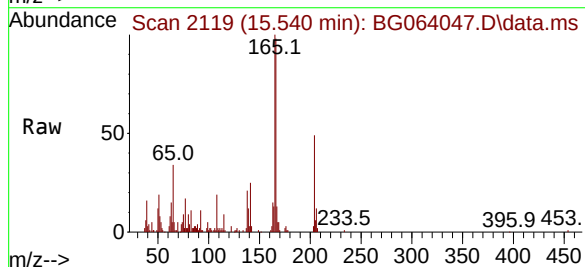
Manual Integrations  
APPROVED

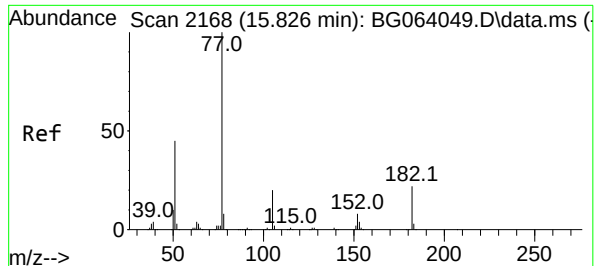
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#62  
4-Nitroaniline  
Concen: 8.534 ng  
RT: 15.540 min Scan# 2119  
Delta R.T. -0.010 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

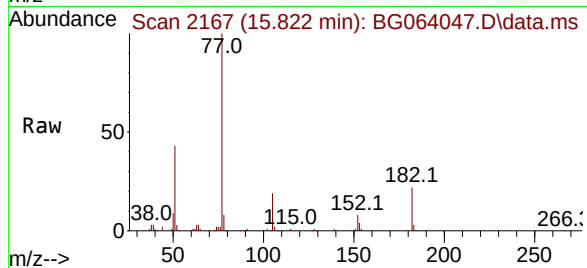
Tgt Ion:138 Resp: 12324  
Ion Ratio Lower Upper  
138 100  
92 53.7 36.1 76.1  
108 92.2 87.9 127.9





#63  
Azobenzene  
Concen: 9.620 ng  
RT: 15.822 min Scan# 2168  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

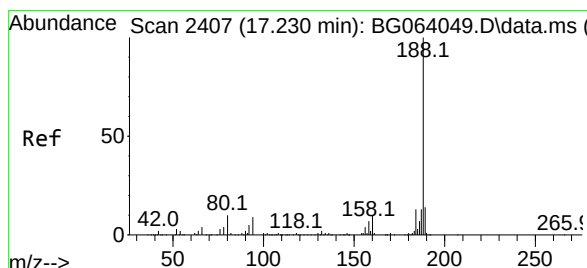
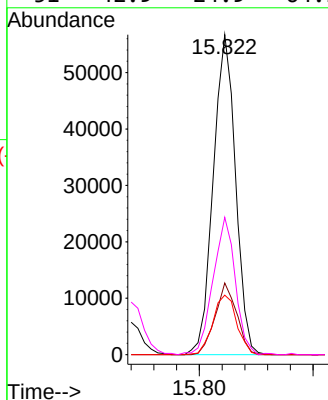
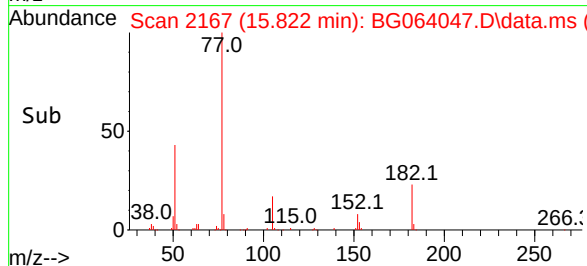
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion: 77 Resp: 7712  
Ion Ratio Lower Upper  
77 100  
182 22.4 2.4 42.4  
105 18.6 0.0 40.0  
51 42.9 24.9 64.9

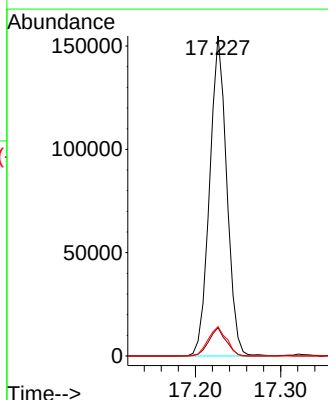
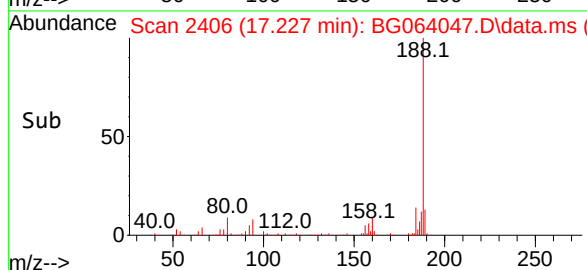
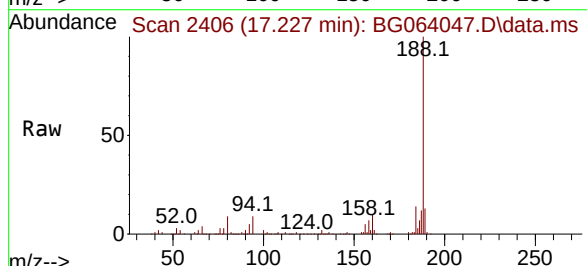
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

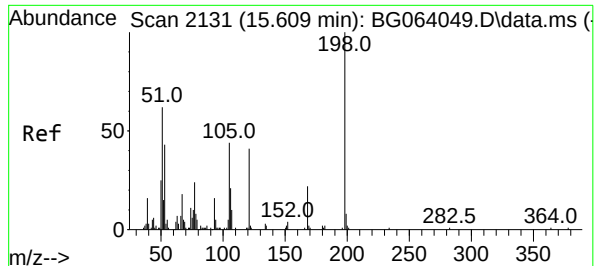


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.227 min Scan# 2406  
Delta R.T. -0.003 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion:188 Resp: 216134  
Ion Ratio Lower Upper  
188 100  
94 8.9 6.9 10.3  
80 9.2 8.1 12.1







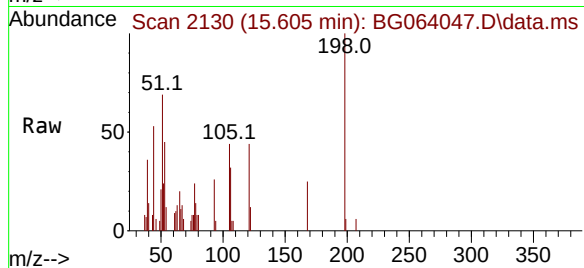
#65  
4,6-Dinitro-2-methylphenol  
Concen: 12.953 ng  
RT: 15.605 min Scan# 2131  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Instrument :

BNA\_G

ClientSampleId :

SSTDICC010

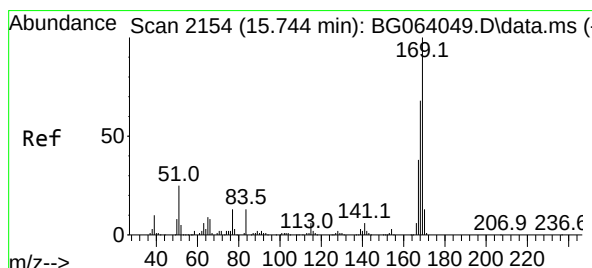
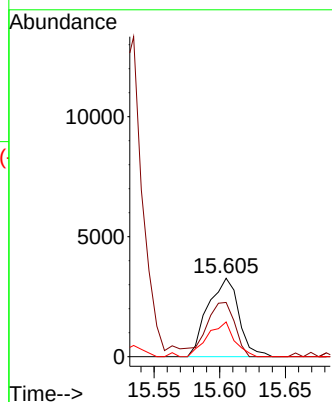
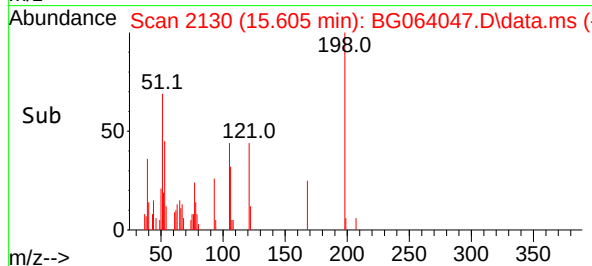


Tgt Ion:198 Resp: 537  
Ion Ratio Lower Upper  
198 100  
51 69.2 45.6 85.6  
105 44.3 25.3 65.3

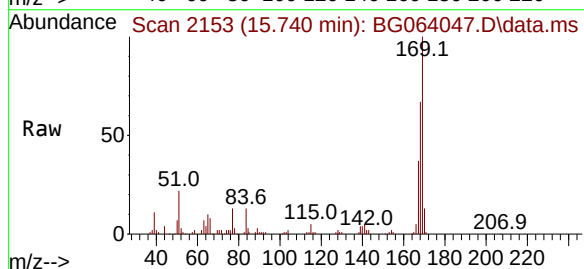
Manual Integrations

APPROVED

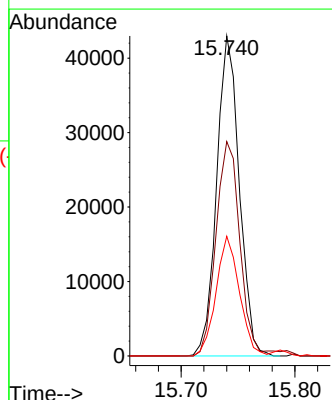
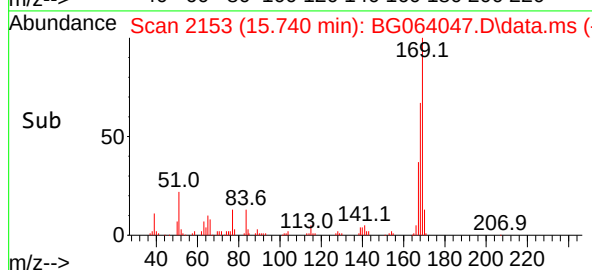
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

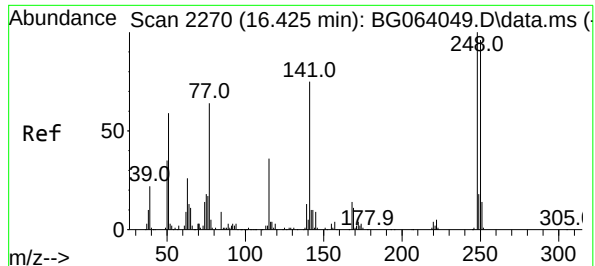


#66  
n-Nitrosodiphenylamine  
Concen: 9.727 ng  
RT: 15.740 min Scan# 2153  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22



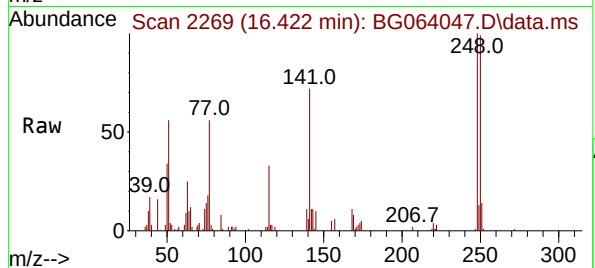
Tgt Ion:169 Resp: 59511  
Ion Ratio Lower Upper  
169 100  
168 67.0 54.1 81.1  
167 37.4 30.3 45.5





#67  
4-Bromophenyl-phenylether  
Concen: 9.525 ng  
RT: 16.422 min Scan# 2108  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

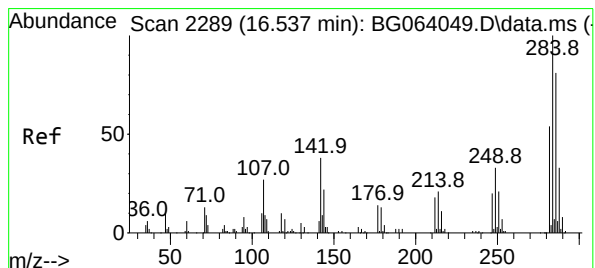
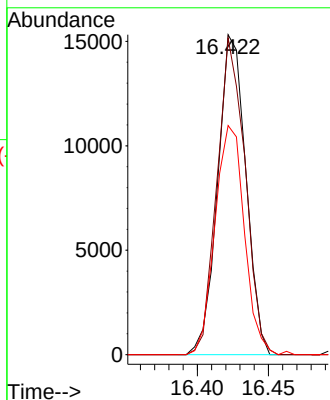
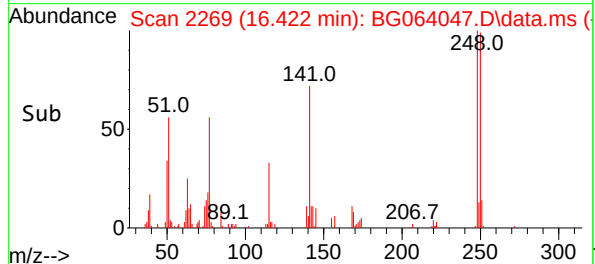
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



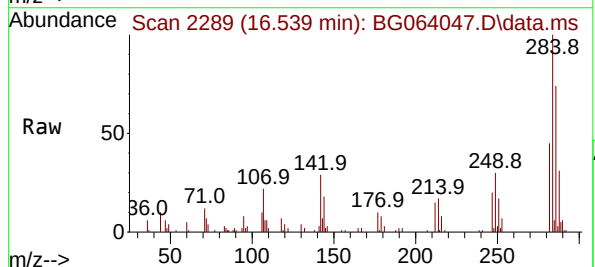
Tgt Ion:248 Resp: 2108  
Ion Ratio Lower Upper  
248 100  
250 98.9 77.1 115.7  
141 71.6 59.8 89.8

Manual Integrations  
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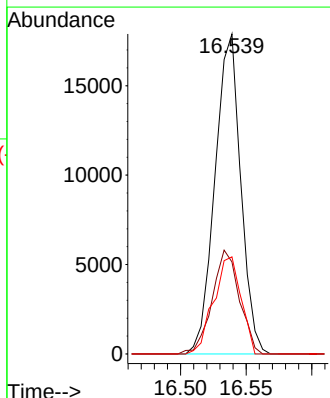
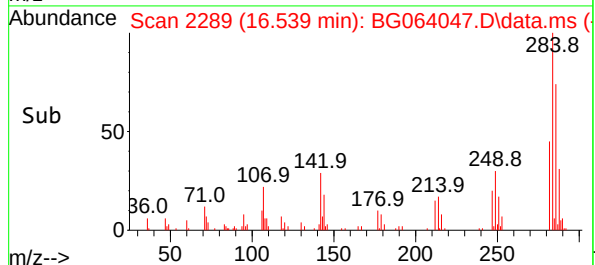
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

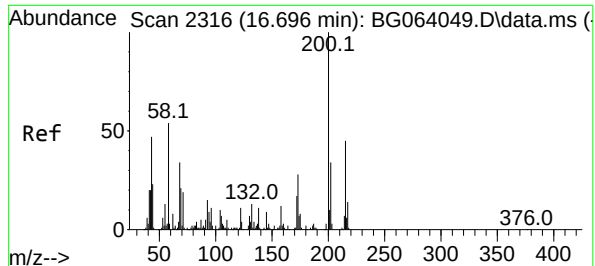


#68  
Hexachlorobenzene  
Concen: 9.848 ng  
RT: 16.539 min Scan# 2289  
Delta R.T. 0.002 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22



Tgt Ion:284 Resp: 24406  
Ion Ratio Lower Upper  
284 100  
142 28.7 30.6 45.8#  
249 30.3 26.6 39.8





#69

Atrazine

Concen: 11.436 ng

RT: 16.686 min Scan# 21

Delta R.T. -0.010 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

Instrument :

BNA\_G

ClientSampleId :

SSTDICC010

Tgt Ion:200 Resp: 2058

Ion Ratio Lower Upper

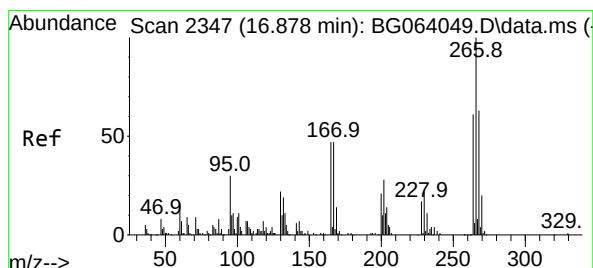
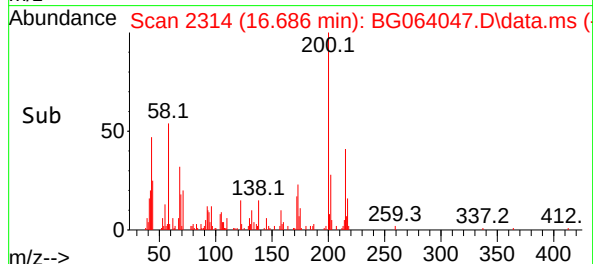
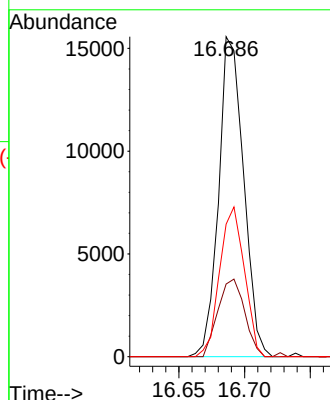
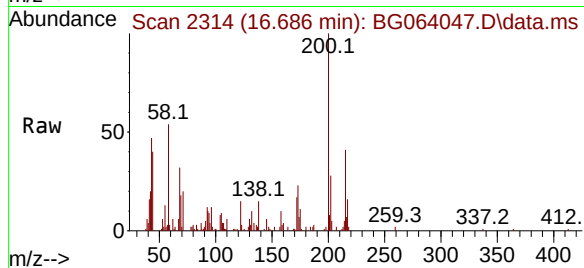
200 100

173 22.7 8.2 48.2

215 41.4 25.5 65.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#70

Pentachlorophenol

Concen: 7.355 ng

RT: 16.874 min Scan# 2346

Delta R.T. -0.004 min

Lab File: BG064047.D

Acq: 5 Mar 2025 10:22

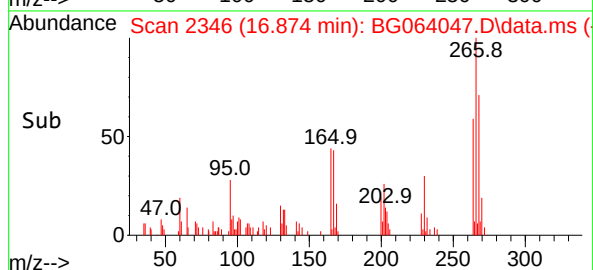
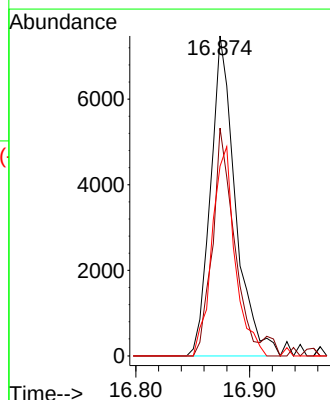
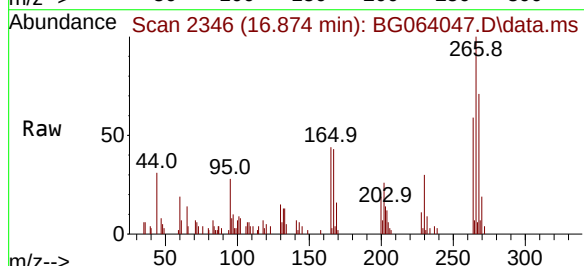
Tgt Ion:266 Resp: 11318

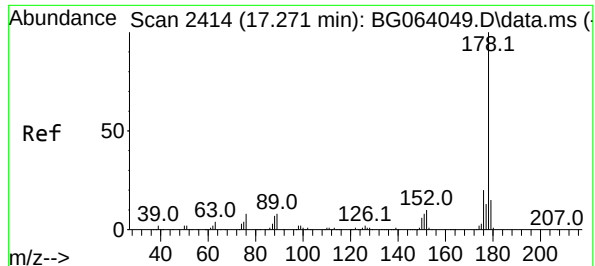
Ion Ratio Lower Upper

266 100

268 77.8 50.2 75.4#

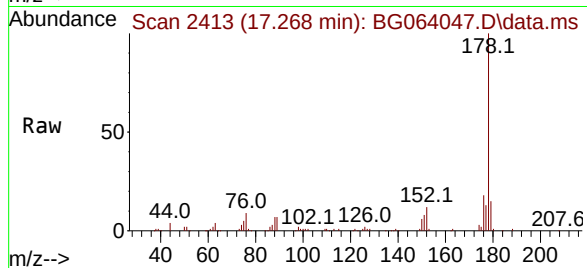
264 66.2 48.9 73.3





#71  
Phenanthrene  
Concen: 9.694 ng  
RT: 17.268 min Scan# 2413  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

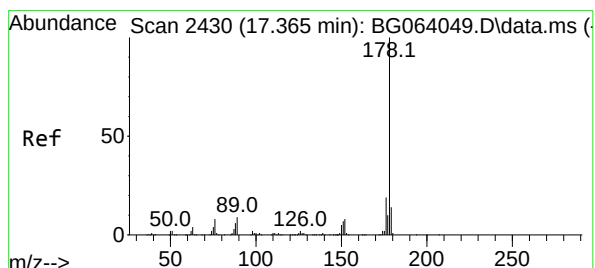
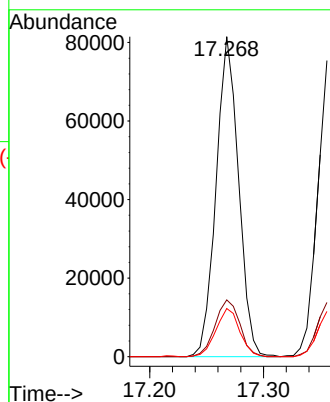
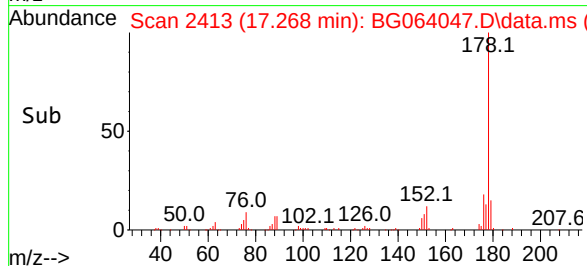
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



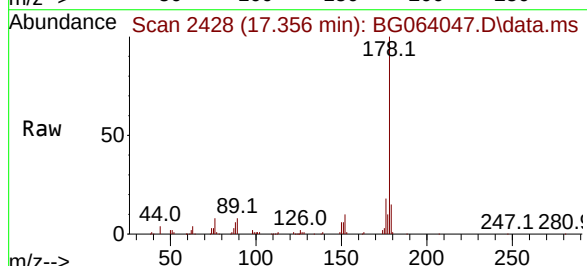
Tgt Ion:178 Resp: 111754  
Ion Ratio Lower Upper  
178 100  
176 17.7 15.9 23.9  
179 15.0 12.2 18.2

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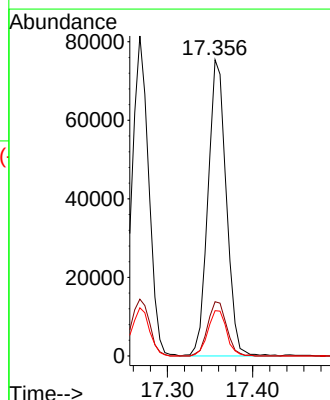
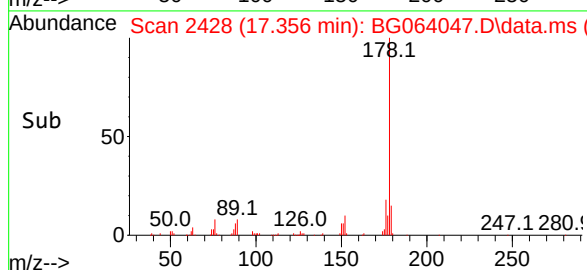
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

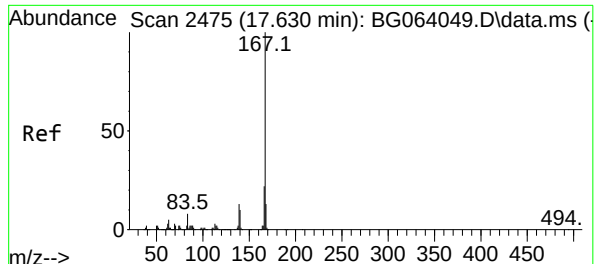


#72  
Anthracene  
Concen: 9.810 ng  
RT: 17.356 min Scan# 2428  
Delta R.T. -0.010 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22



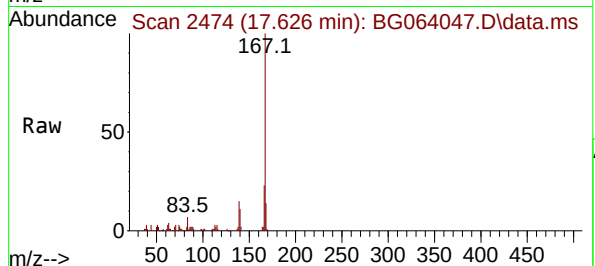
Tgt Ion:178 Resp: 112451  
Ion Ratio Lower Upper  
178 100  
176 18.3 14.8 22.2  
179 15.3 11.5 17.3





#73  
Carbazole  
Concen: 9.974 ng  
RT: 17.626 min Scan# 2475  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

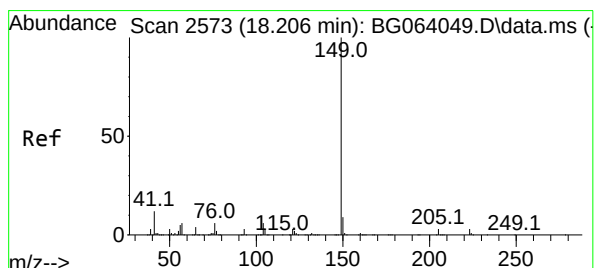
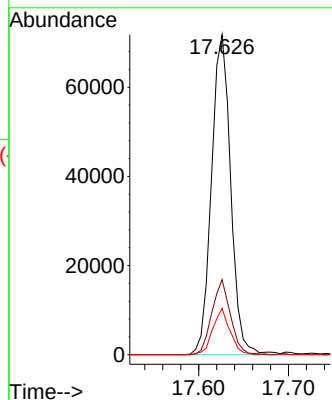
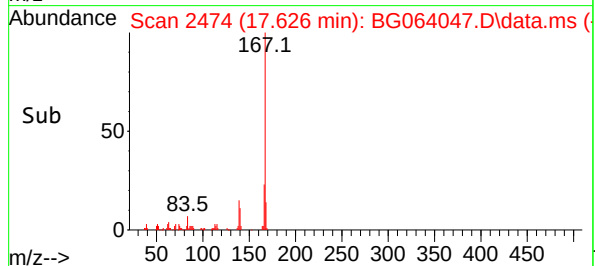
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:167 Resp: 106750  
Ion Ratio Lower Upper  
167 100  
166 23.5 18.0 27.0  
139 14.5 10.6 15.8

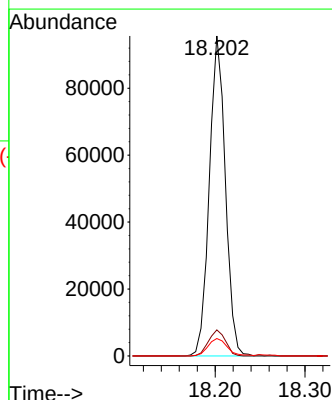
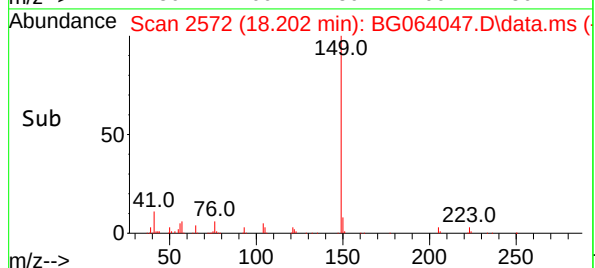
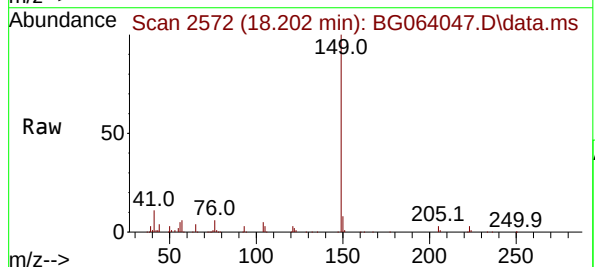
Manual Integrations  
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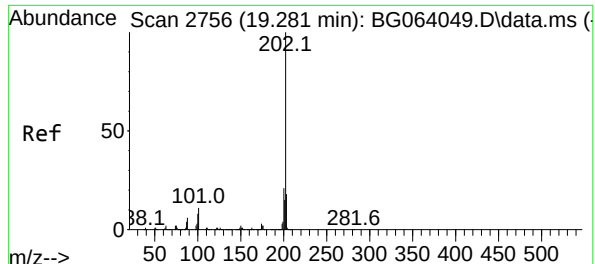
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#74  
Di-n-butylphthalate  
Concen: 9.396 ng  
RT: 18.202 min Scan# 2572  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

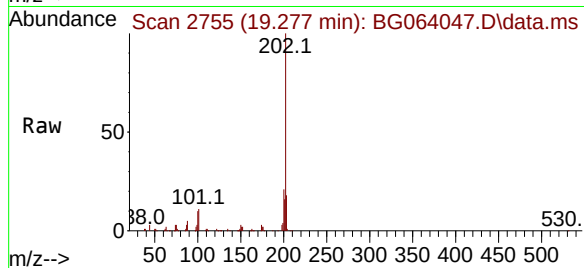
Tgt Ion:149 Resp: 118366  
Ion Ratio Lower Upper  
149 100  
150 8.2 7.4 11.0  
104 5.5 5.0 7.6





#75  
Fluoranthene  
Concen: 10.224 ng  
RT: 19.277 min Scan# 21  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

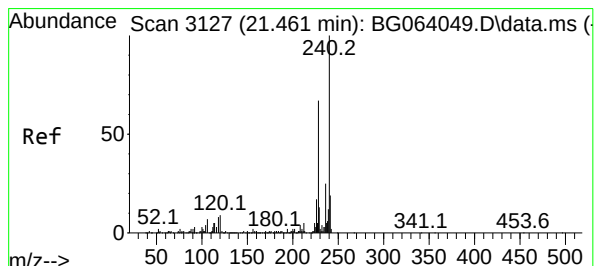
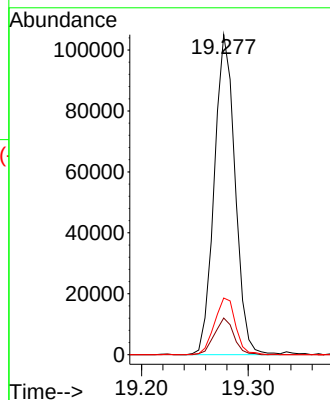
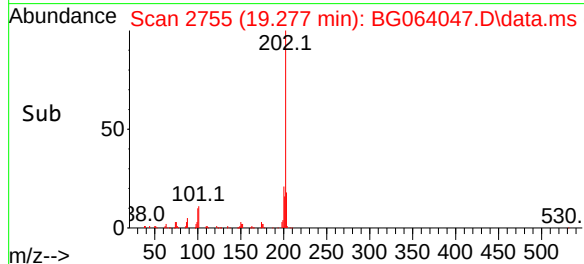
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:202 Resp: 14209  
Ion Ratio Lower Upper  
202 100  
101 11.5 0.0 30.5  
203 17.7 0.0 38.3

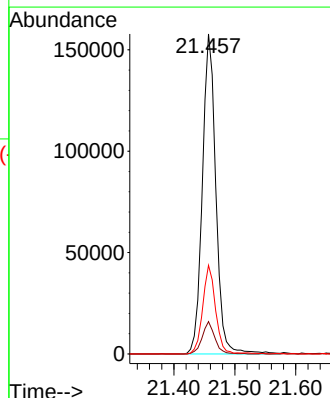
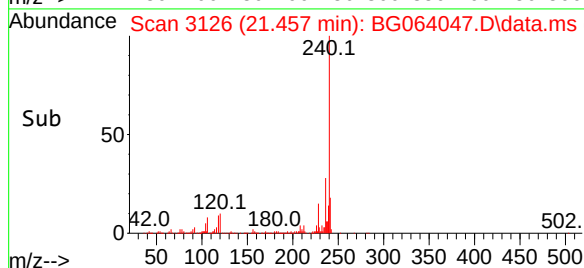
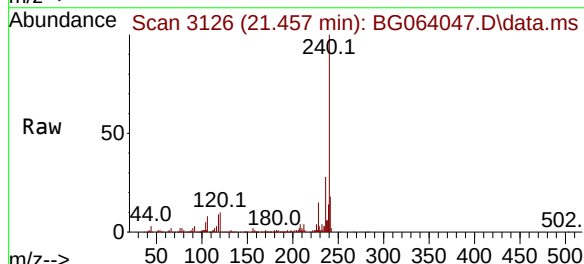
Manual Integrations  
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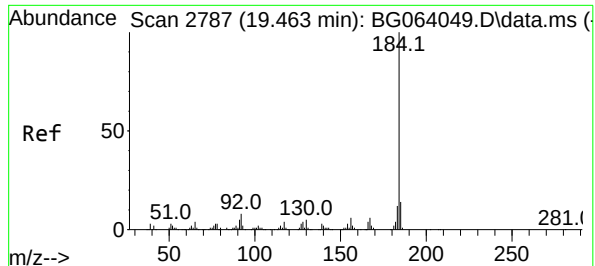
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.457 min Scan# 3126  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

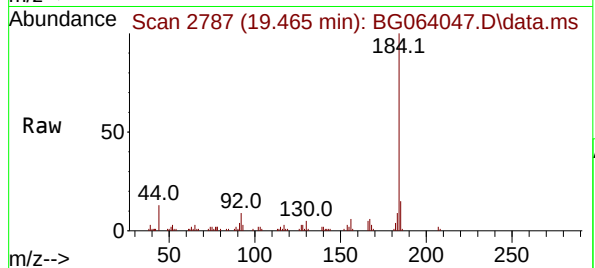
Tgt Ion:240 Resp: 243131  
Ion Ratio Lower Upper  
240 100  
120 10.1 7.2 10.8  
236 27.7 20.2 30.2





#77  
Benzidine  
Concen: 14.253 ng m  
RT: 19.465 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

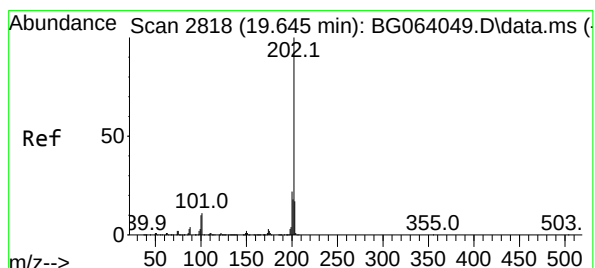
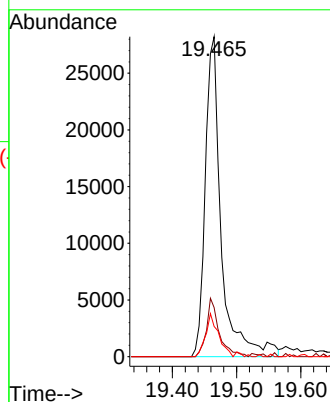
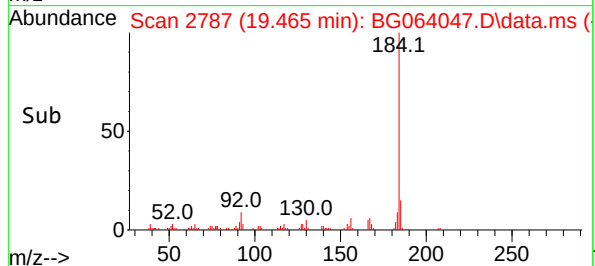
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:184 Resp: 4864  
Ion Ratio Lower Upper  
184 100  
185 15.4 11.3 16.9  
183 9.5 9.5 14.3

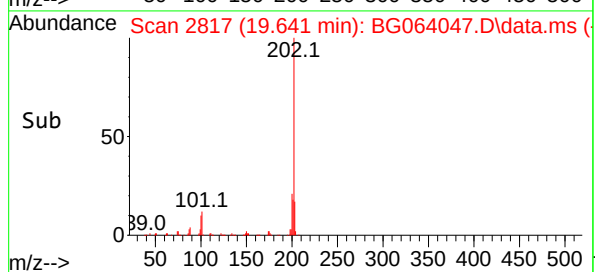
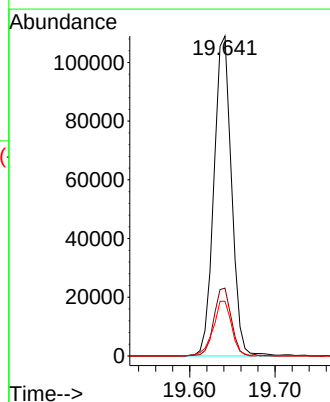
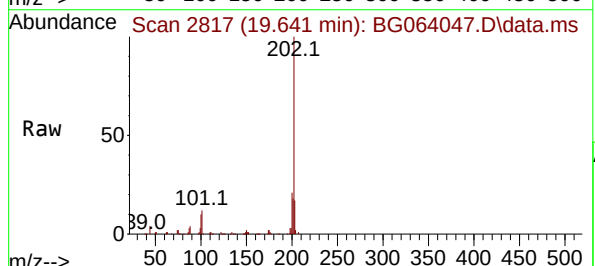
Manual Integrations  
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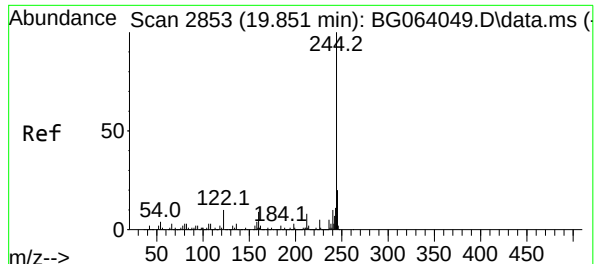
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#78  
Pyrene  
Concen: 9.980 ng  
RT: 19.641 min Scan# 2817  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion:202 Resp: 156414  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.3 25.9  
203 17.1 13.6 20.4





#79  
 Terphenyl-d14  
 Concen: 20.697 ng  
 RT: 19.847 min Scan# 2853  
 Delta R.T. -0.004 min  
 Lab File: BG064047.D  
 Acq: 5 Mar 2025 10:22

Instrument :

BNA\_G

ClientSampleId :

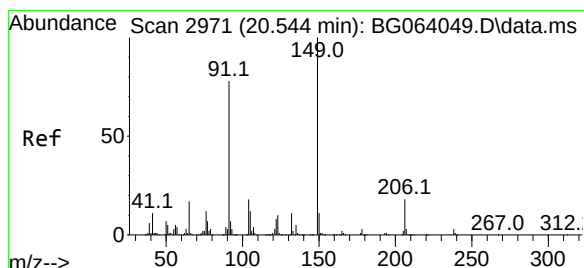
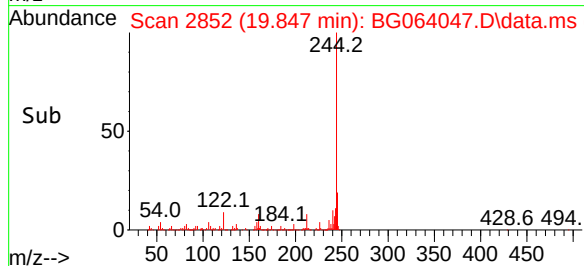
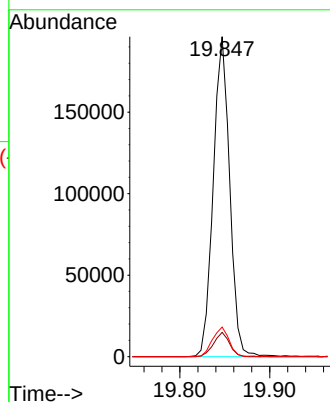
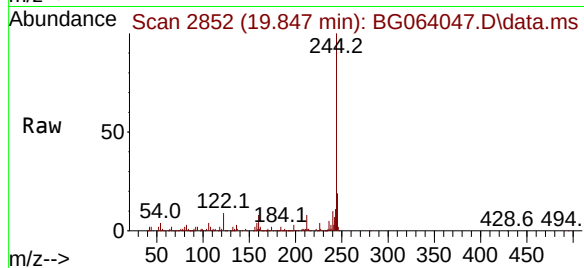
SSTDICC010

Tgt Ion:244 Resp: 248860  
 Ion Ratio Lower Upper  
 244 100  
 212 7.6 6.2 9.4  
 122 9.2 8.0 12.0

Manual Integrations

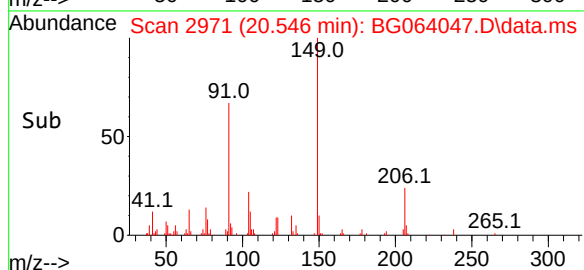
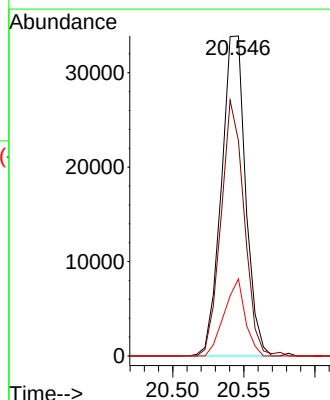
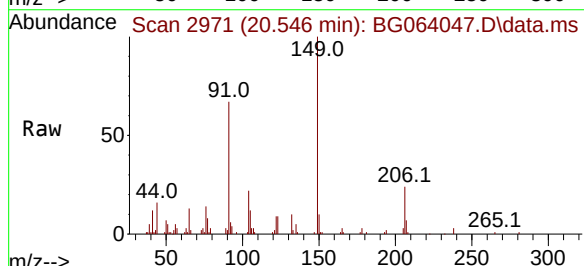
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025

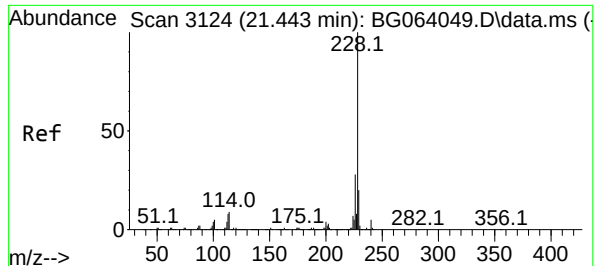


#80  
 Butylbenzylphthalate  
 Concen: 9.952 ng  
 RT: 20.546 min Scan# 2971  
 Delta R.T. 0.002 min  
 Lab File: BG064047.D  
 Acq: 5 Mar 2025 10:22

Tgt Ion:149 Resp: 40179  
 Ion Ratio Lower Upper  
 149 100  
 91 67.2 62.0 93.0  
 206 24.1 14.6 21.8#

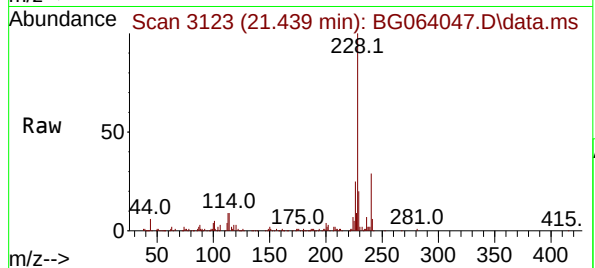






#81  
Benzo(a)anthracene  
Concen: 9.895 ng  
RT: 21.439 min Scan# 3110  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

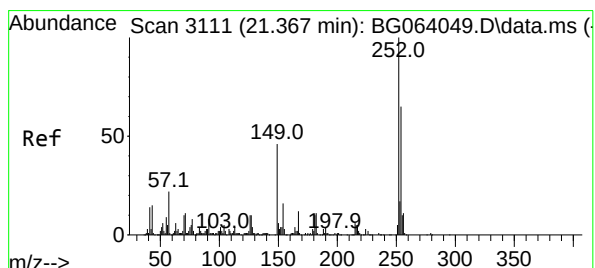
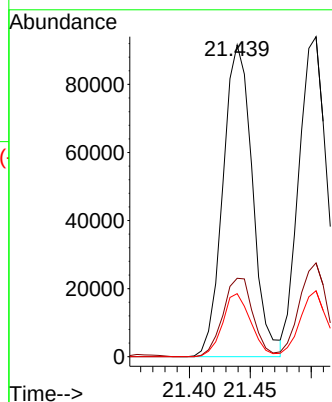
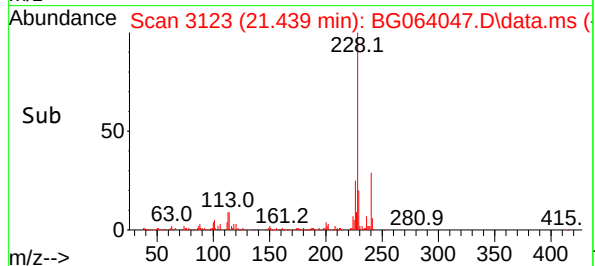
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:228 Resp: 15411  
Ion Ratio Lower Upper  
228 100  
226 25.1 22.2 33.2  
229 20.2 16.4 24.6

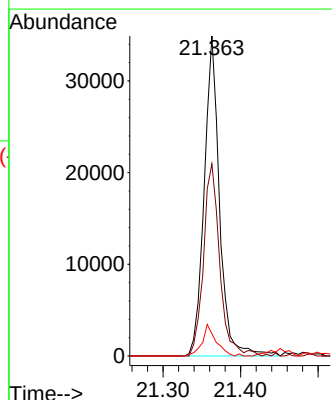
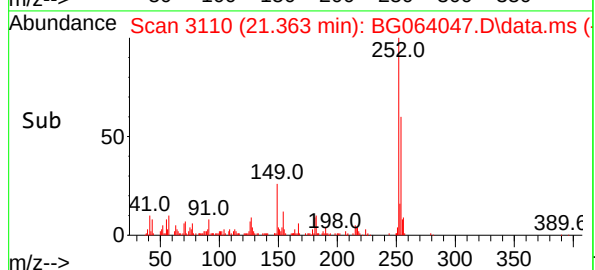
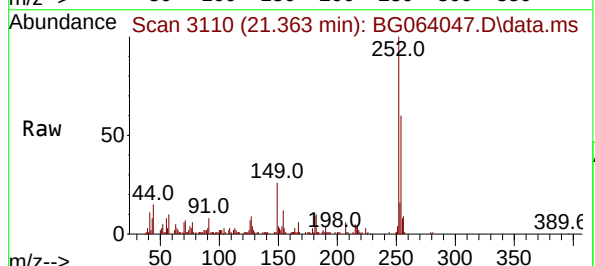
Manual Integrations  
APPROVED

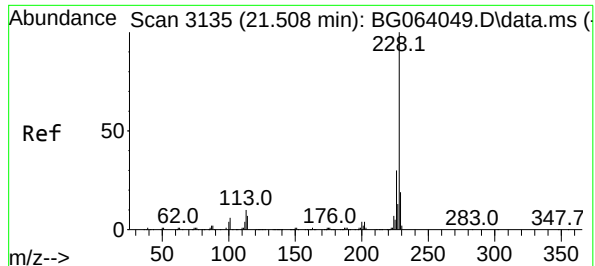
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#82  
3,3'-Dichlorobenzidine  
Concen: 9.539 ng  
RT: 21.363 min Scan# 3110  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

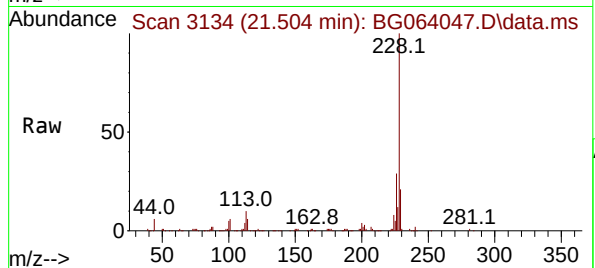
Tgt Ion:252 Resp: 48080  
Ion Ratio Lower Upper  
252 100  
254 60.1 52.1 78.1  
126 7.0 7.8 11.8#





#83  
Chrysene  
Concen: 9.649 ng  
RT: 21.504 min Scan# 3135  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

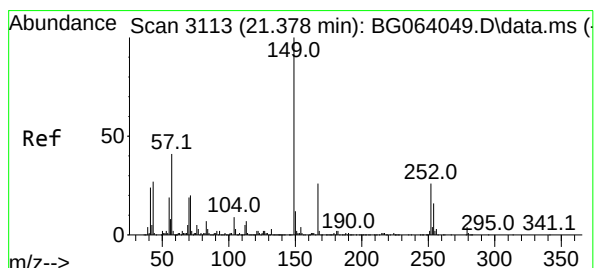
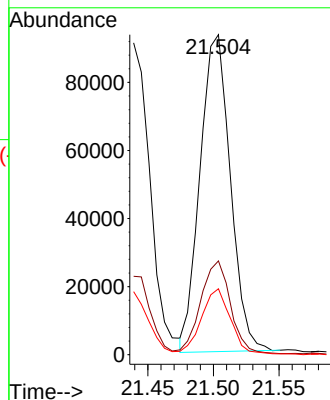
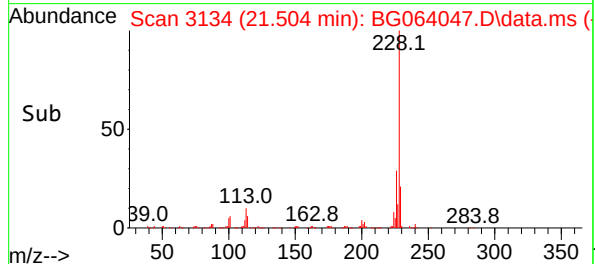
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:228 Resp: 14988  
Ion Ratio Lower Upper  
228 100  
226 29.3 23.9 35.9  
229 20.6 15.3 22.9

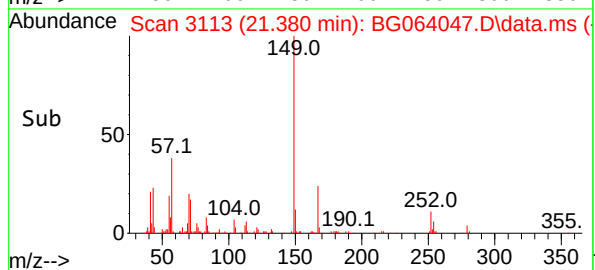
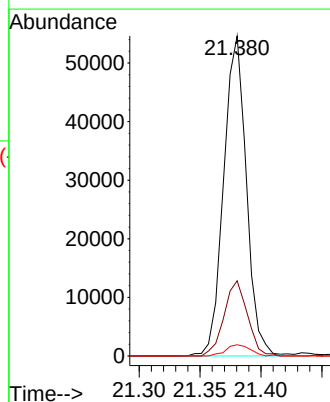
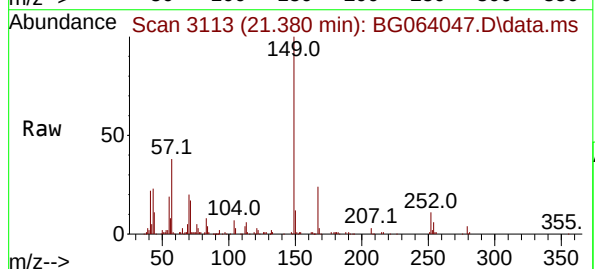
Manual Integrations  
APPROVED

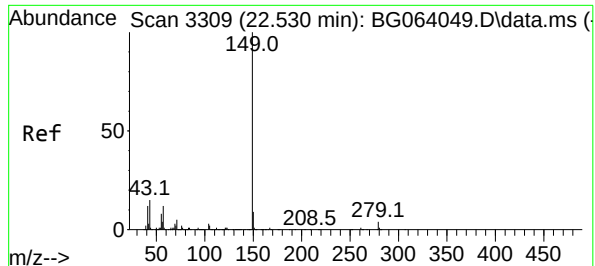
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 8.403 ng  
RT: 21.380 min Scan# 3113  
Delta R.T. 0.002 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Tgt Ion:149 Resp: 70780  
Ion Ratio Lower Upper  
149 100  
167 23.5 21.0 31.6  
279 3.5 2.8 4.2





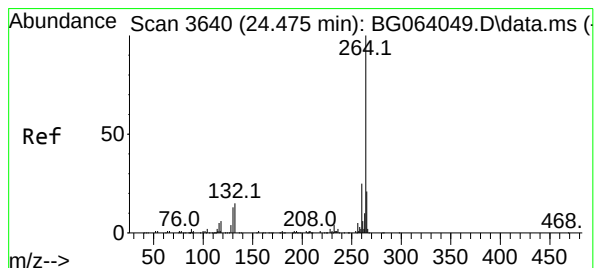
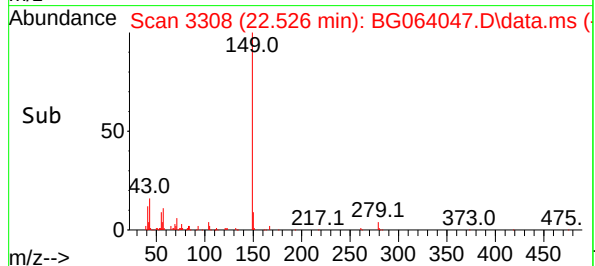
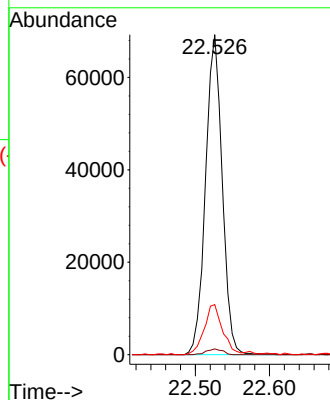
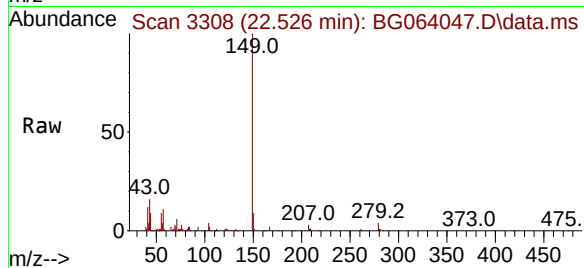
#85  
Di-n-octyl phthalate  
Concen: 7.461 ng  
RT: 22.526 min Scan# 31  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010

Tgt Ion:149 Resp: 108389  
Ion Ratio Lower Upper  
149 100  
167 1.8 1.2 1.8  
43 17.2 12.6 19.0

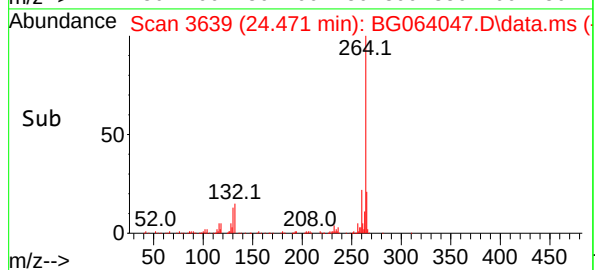
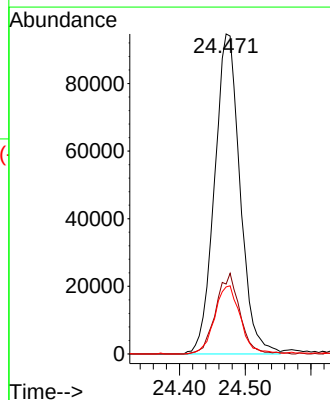
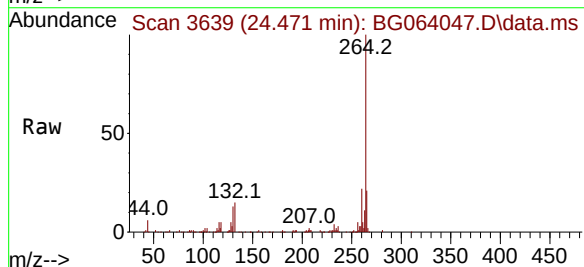
Manual Integrations  
APPROVED

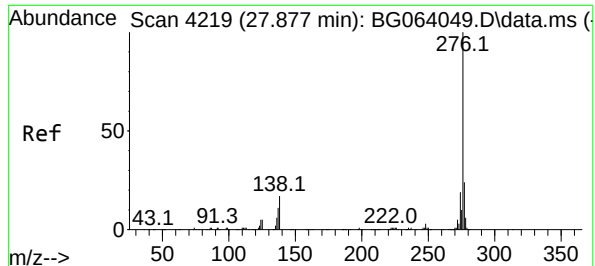
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.471 min Scan# 3639  
Delta R.T. -0.004 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

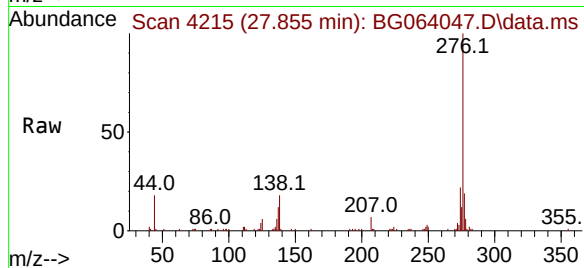
Tgt Ion:264 Resp: 255316  
Ion Ratio Lower Upper  
264 100  
260 21.8 19.6 29.4  
265 21.0 16.6 25.0





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 9.203 ng  
RT: 27.855 min Scan# 4215  
Delta R.T. -0.021 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

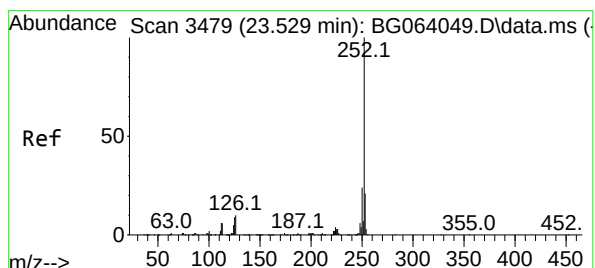
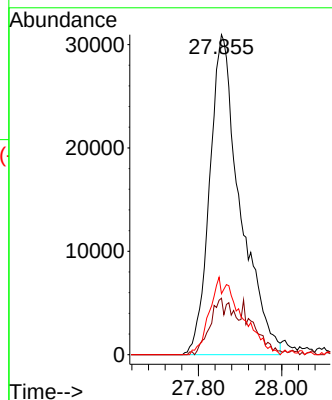
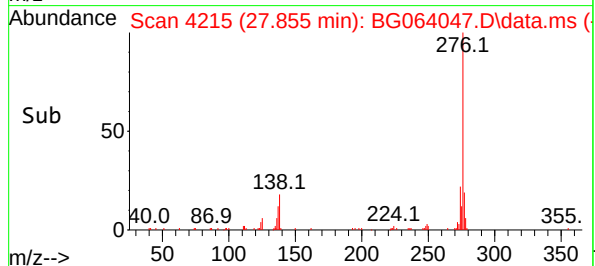
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:276 Resp: 157212  
Ion Ratio Lower Upper  
276 100  
138 8.2 12.1 18.1  
277 10.0 20.0 30.0

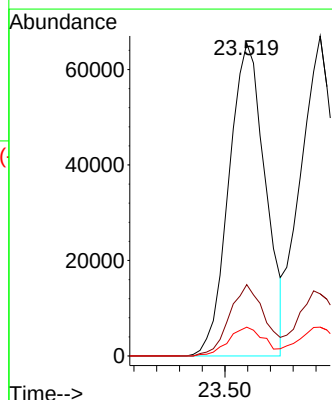
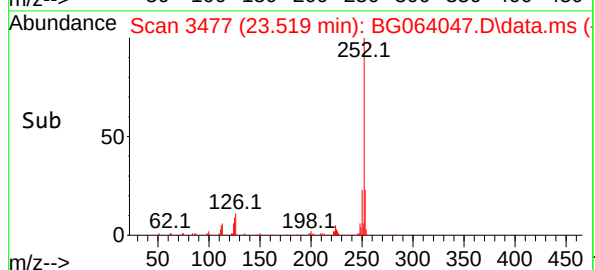
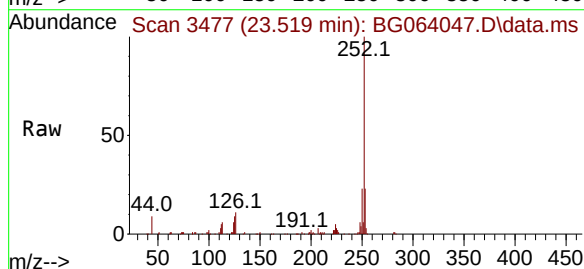
Manual Integrations  
APPROVED

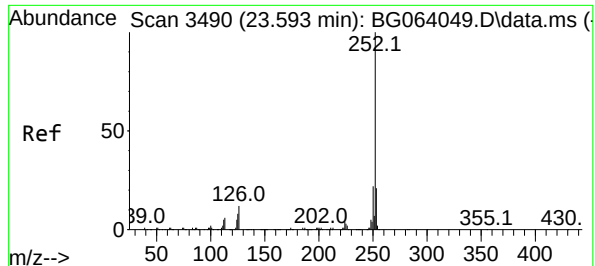
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#88  
Benzo(b)fluoranthene  
Concen: 9.475 ng  
RT: 23.519 min Scan# 3477  
Delta R.T. -0.010 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

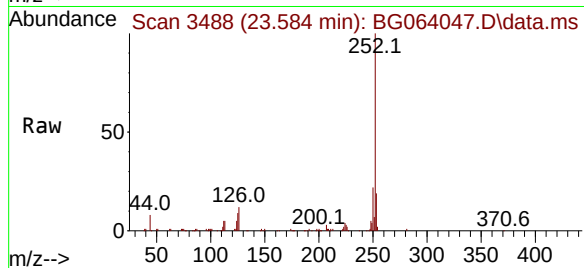
Tgt Ion:252 Resp: 146238  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.0 25.4  
125 9.2 7.4 11.2





#89  
Benzo(k)fluoranthene  
Concen: 9.805 ng  
RT: 23.584 min Scan# 3490  
Delta R.T. -0.010 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

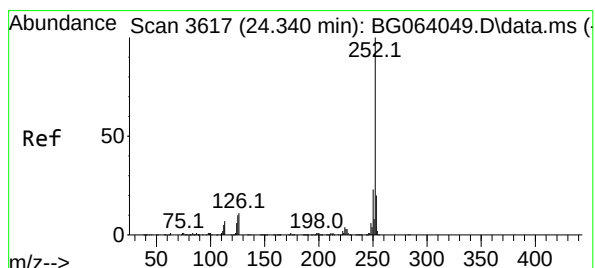
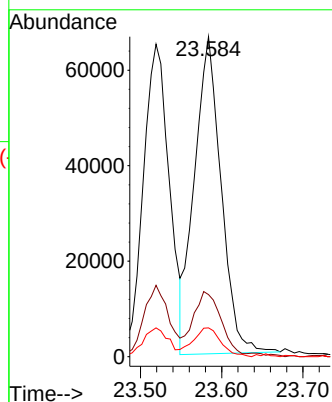
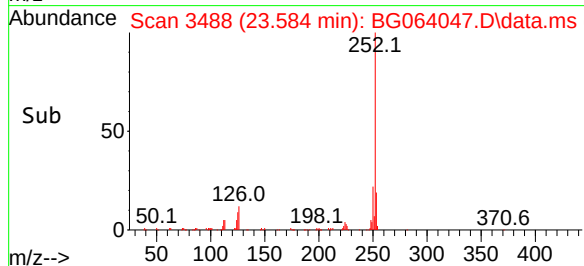
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



Tgt Ion:252 Resp: 151820  
Ion Ratio Lower Upper  
252 100  
253 19.4 16.8 25.2  
125 9.0 6.9 10.3

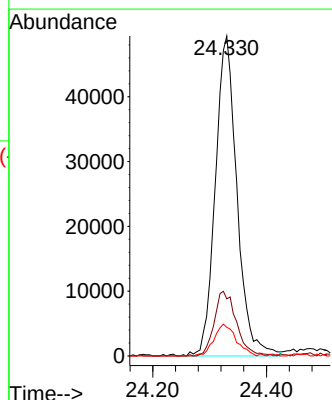
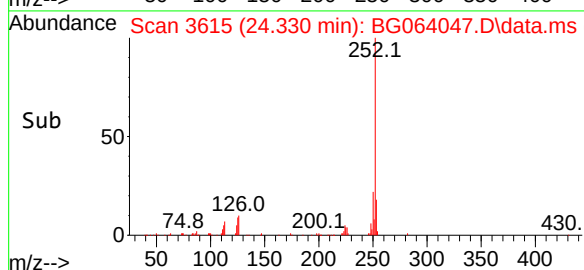
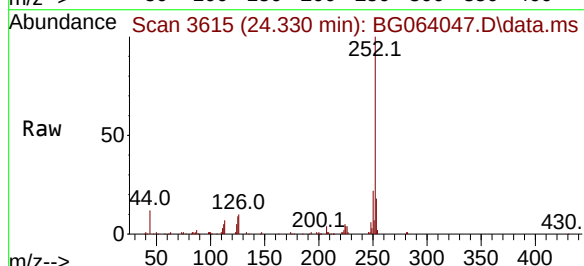
Manual Integrations  
APPROVED

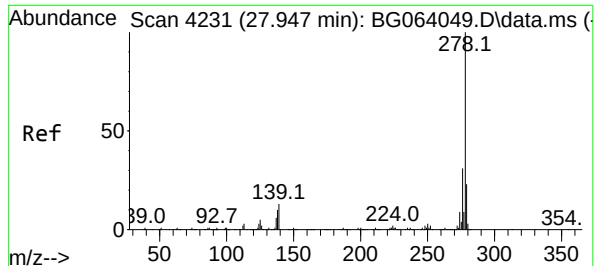
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#90  
Benzo(a)pyrene  
Concen: 9.496 ng  
RT: 24.330 min Scan# 3615  
Delta R.T. -0.010 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

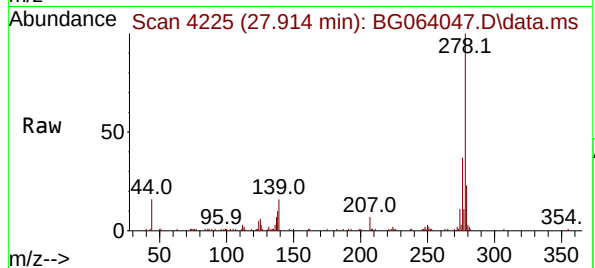
Tgt Ion:252 Resp: 130528  
Ion Ratio Lower Upper  
252 100  
253 17.8 16.2 24.2  
125 9.0 7.8 11.6





#91  
Dibenzo(a,h)anthracene  
Concen: 9.340 ng  
RT: 27.914 min Scan# 41  
Delta R.T. -0.033 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22

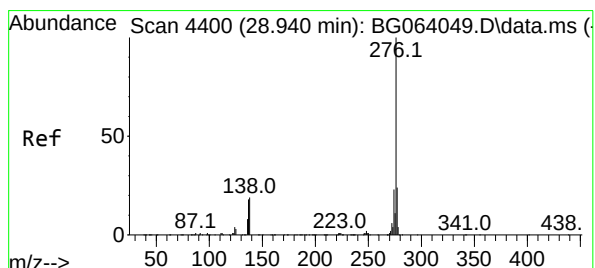
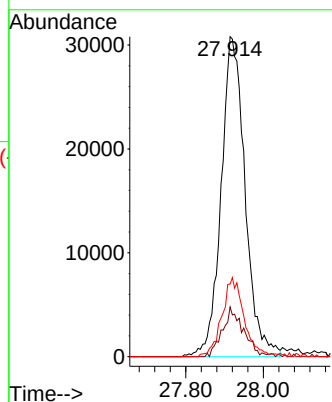
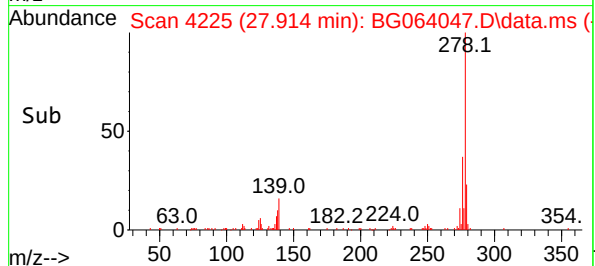
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC010



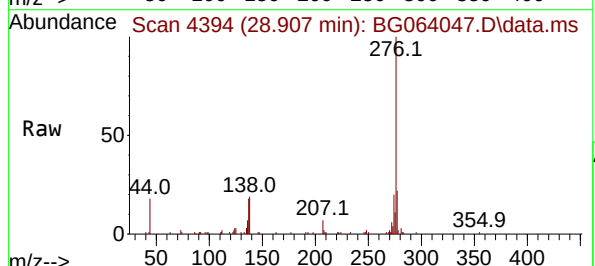
Tgt Ion:278 Resp: 13227  
Ion Ratio Lower Upper  
278 100  
139 15.6 10.2 15.2  
279 22.7 18.1 27.1

Manual Integrations  
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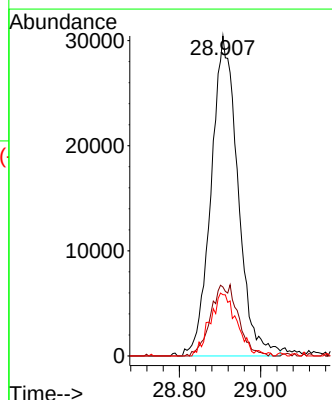
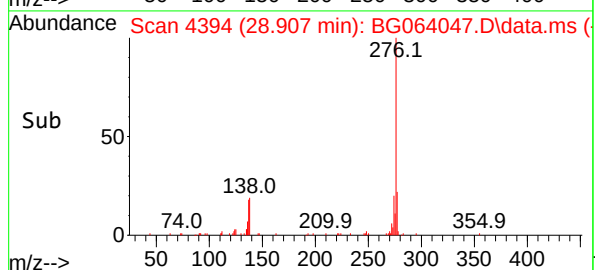
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#92  
Benzo(g,h,i)perylene  
Concen: 9.596 ng  
RT: 28.907 min Scan# 4394  
Delta R.T. -0.033 min  
Lab File: BG064047.D  
Acq: 5 Mar 2025 10:22



Tgt Ion:276 Resp: 139536  
Ion Ratio Lower Upper  
276 100  
277 21.6 19.5 29.3  
138 19.1 15.4 23.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064048.D  
 Acq On : 5 Mar 2025 11:03  
 Operator : RC/JU  
 Sample : SSTDICC020  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDICC020

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025

Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:22:23 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 14:45:06 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.867  | 152  | 32618    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.652 | 136  | 145081   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.489 | 164  | 102335   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.227 | 188  | 239469   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.463 | 240  | 245725   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 24.471 | 264  | 254102   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.446  | 112  | 86747    | 41.526 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.027  | 99   | 117028   | 41.181 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.013  | 82   | 104347   | 39.746 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.969 | 330  | 46324    | 40.723 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.114 | 172  | 278220   | 41.267 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.847 | 244  | 521784   | 42.936 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.372  | 88   | 20346    | 21.491 | ng    | 94       |
| 3) Pyridine                   | 3.760  | 79   | 47376    | 20.577 | ng    | 90       |
| 4) n-Nitrosodimethylamine     | 3.678  | 42   | 33180    | 20.170 | ng    | # 98     |
| 6) Aniline                    | 7.191  | 93   | 59532    | 21.349 | ng    | 98       |
| 8) 2-Chlorophenol             | 7.432  | 128  | 46053    | 20.527 | ng    | 91       |
| 9) Benzaldehyde               | 7.003  | 77   | 36954m   | 22.246 | ng    |          |
| 10) Phenol                    | 7.050  | 94   | 59566    | 20.473 | ng    | 96       |
| 11) bis(2-Chloroethyl)ether   | 7.291  | 93   | 46439    | 20.359 | ng    | 96       |
| 12) 1,3-Dichlorobenzene       | 7.755  | 146  | 48956    | 19.871 | ng    | 98       |
| 13) 1,4-Dichlorobenzene       | 7.902  | 146  | 52419    | 20.757 | ng    | 97       |
| 14) 1,2-Dichlorobenzene       | 8.214  | 146  | 50317    | 20.663 | ng    | 98       |
| 15) Benzyl Alcohol            | 8.096  | 79   | 43802    | 19.946 | ng    | 96       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.390  | 45   | 104660   | 20.405 | ng    | 98       |
| 17) 2-Methylphenol            | 8.302  | 107  | 38395    | 19.883 | ng    | # 90     |
| 18) Hexachloroethane          | 8.948  | 117  | 16959    | 19.194 | ng    | 99       |
| 19) n-Nitroso-di-n-propyla... | 8.666  | 70   | 41803    | 20.960 | ng    | 94       |
| 20) 3+4-Methylphenols         | 8.625  | 107  | 53440    | 20.102 | ng    | 93       |
| 22) Acetophenone              | 8.678  | 105  | 84092    | 21.140 | ng    | 94       |
| 24) Nitrobenzene              | 9.060  | 77   | 56511    | 20.828 | ng    | # 97     |
| 25) Isophorone                | 9.577  | 82   | 107881   | 20.530 | ng    | 98       |
| 26) 2-Nitrophenol             | 9.765  | 139  | 13886    | 18.663 | ng    | 96       |
| 27) 2,4-Dimethylphenol        | 9.824  | 122  | 32013    | 20.322 | ng    | 95       |
| 28) bis(2-Chloroethoxy)met... | 10.064 | 93   | 67945    | 21.327 | ng    | 97       |
| 29) 2,4-Dichlorophenol        | 10.294 | 162  | 40728    | 20.475 | ng    | 96       |
| 30) 1,2,4-Trichlorobenzene    | 10.517 | 180  | 49701    | 20.698 | ng    | 96       |
| 31) Naphthalene               | 10.705 | 128  | 161582   | 20.654 | ng    | 100      |
| 32) Benzoic acid              | 9.929  | 122  | 20223m   | 20.131 | ng    |          |
| 33) 4-Chloroaniline           | 10.805 | 127  | 59095    | 20.668 | ng    | 98       |
| 34) Hexachlorobutadiene       | 10.999 | 225  | 32675    | 20.760 | ng    | 96       |
| 35) Caprolactam               | 11.557 | 113  | 16251    | 21.319 | ng    | 97       |
| 36) 4-Chloro-3-methylphenol   | 11.927 | 107  | 55024    | 21.103 | ng    | 94       |
| 37) 2-Methylnaphthalene       | 12.309 | 142  | 114303   | 20.696 | ng    | 94       |
| 38) 1-Methylnaphthalene       | 12.532 | 142  | 111828   | 20.668 | ng    | 95       |
| 40) 1,2,4,5-Tetrachloroben... | 12.679 | 216  | 60556    | 20.727 | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 12.667 | 237  | 16470    | 20.029 | ng    | 90       |
| 43) 2,4,6-Trichlorophenol     | 12.914 | 196  | 34893    | 20.264 | ng    | 93       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064048.D  
 Acq On : 5 Mar 2025 11:03  
 Operator : RC/JU  
 Sample : SSTDICC020  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDICC020

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:22:23 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 14:45:06 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.985 | 196  | 38995    | 20.381 | ng    | 95       |
| 46) 1,1'-Biphenyl             | 13.325 | 154  | 160835   | 20.803 | ng    | 97       |
| 47) 2-Chloronaphthalene       | 13.361 | 162  | 112611   | 19.971 | ng    | 99       |
| 48) 2-Nitroaniline            | 13.560 | 65   | 28373    | 18.684 | ng    | 98       |
| 49) Acenaphthylene            | 14.207 | 152  | 183469   | 20.571 | ng    | 99       |
| 50) Dimethylphthalate         | 13.948 | 163  | 159500   | 21.114 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 14.054 | 165  | 26787    | 19.614 | ng    | 92       |
| 52) Acenaphthene              | 14.553 | 154  | 125939m  | 20.997 | ng    |          |
| 53) 3-Nitroaniline            | 14.383 | 138  | 30517    | 20.902 | ng    | 88       |
| 54) 2,4-Dinitrophenol         | 14.594 | 184  | 8560     | 19.958 | ng    | # 74     |
| 55) Dibenzofuran              | 14.888 | 168  | 202235   | 20.856 | ng    | 96       |
| 56) 4-Nitrophenol             | 14.683 | 139  | 20425    | 16.681 | ng    | 87       |
| 57) 2,4-Dinitrotoluene        | 14.841 | 165  | 35172    | 19.015 | ng    | # 97     |
| 58) Fluorene                  | 15.534 | 166  | 157795   | 20.894 | ng    | 97       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.111 | 232  | 39748    | 21.310 | ng    | 99       |
| 60) Diethylphthalate          | 15.311 | 149  | 174872   | 21.324 | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 15.534 | 204  | 80605    | 21.477 | ng    | 95       |
| 62) 4-Nitroaniline            | 15.540 | 138  | 32000    | 20.301 | ng    | 88       |
| 63) Azobenzene                | 15.822 | 77   | 182618   | 20.868 | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 15.599 | 198  | 14079    | 19.469 | ng    | 95       |
| 66) n-Nitrosodiphenylamine    | 15.740 | 169  | 139451   | 20.573 | ng    | 100      |
| 67) 4-Bromophenyl-phenylether | 16.422 | 248  | 50868    | 20.740 | ng    | 99       |
| 68) Hexachlorobenzene         | 16.539 | 284  | 56538    | 20.591 | ng    | 95       |
| 69) Atrazine                  | 16.692 | 200  | 42810    | 21.465 | ng    | 97       |
| 70) Pentachlorophenol         | 16.874 | 266  | 30561    | 17.926 | ng    | # 88     |
| 71) Phenanthrene              | 17.268 | 178  | 265841   | 20.813 | ng    | 99       |
| 72) Anthracene                | 17.362 | 178  | 264350   | 20.814 | ng    | 99       |
| 73) Carbazole                 | 17.626 | 167  | 244169   | 20.591 | ng    | 100      |
| 74) Di-n-butylphthalate       | 18.202 | 149  | 290500   | 20.812 | ng    | 100      |
| 75) Fluoranthene              | 19.277 | 202  | 319913   | 20.776 | ng    | 98       |
| 77) Benzidine                 | 19.459 | 184  | 58504    | 16.960 | ng    | 99       |
| 78) Pyrene                    | 19.641 | 202  | 331849   | 20.950 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.546 | 149  | 99429    | 19.098 | ng    | 98       |
| 81) Benzo(a)anthracene        | 21.439 | 228  | 321777   | 20.443 | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.363 | 252  | 109121   | 21.421 | ng    | 98       |
| 83) Chrysene                  | 21.504 | 228  | 321379   | 20.471 | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 21.381 | 149  | 168286   | 19.769 | ng    | 98       |
| 85) Di-n-octyl phthalate      | 22.526 | 149  | 272257   | 18.542 | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 27.867 | 276  | 357779   | 21.044 | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 23.525 | 252  | 322554   | 20.998 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 23.590 | 252  | 325538   | 21.124 | ng    | 99       |
| 90) Benzo(a)pyrene            | 24.330 | 252  | 285622   | 20.878 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene    | 27.932 | 278  | 292558   | 20.756 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 28.931 | 276  | 307072   | 21.219 | ng    | 97       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



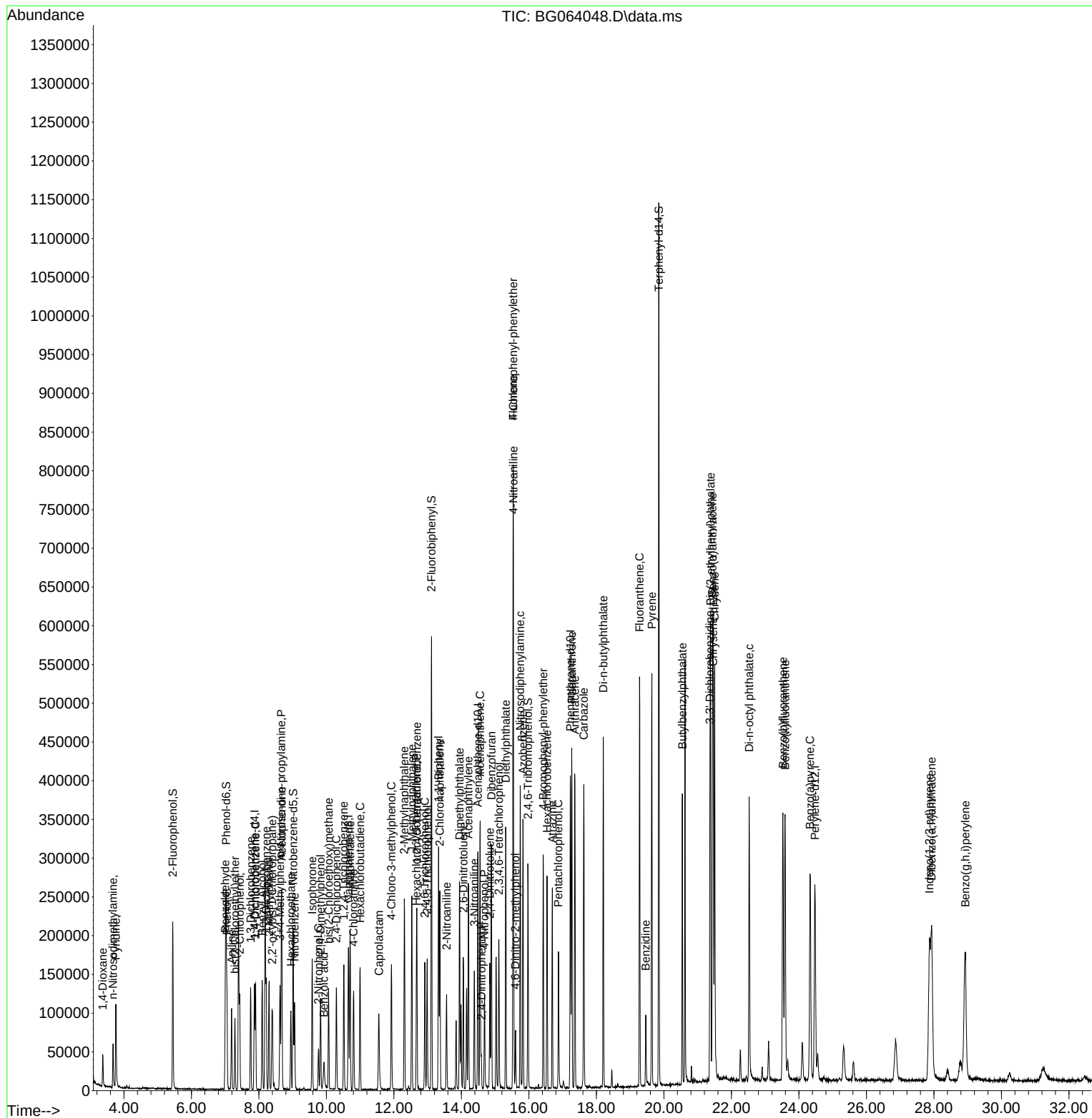
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Data File : BG064048.D  
Acq On : 5 Mar 2025 11:03  
Operator : RC/JU  
Sample : SSTDICC020  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

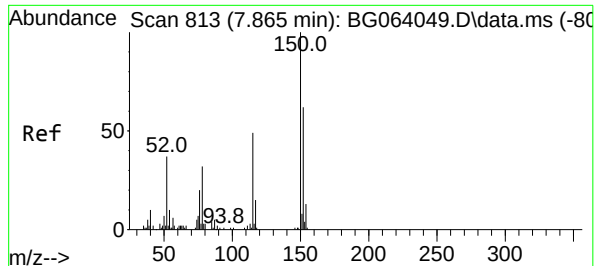
**Instrument :**  
BNA\_G  
**ClientSampleId :**  
SSTDICC020

## Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

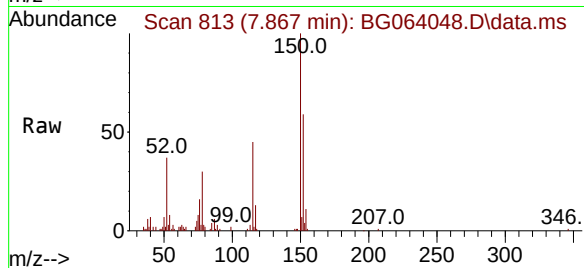
Quant Time: Mar 05 15:22:23 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 14:45:06 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.867 min Scan# 81  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

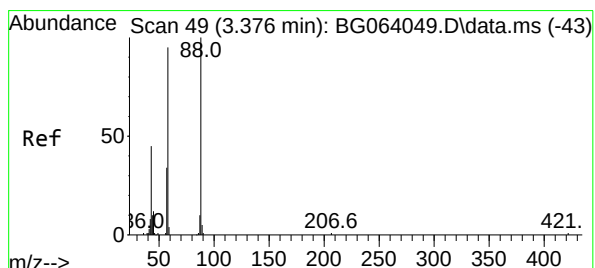
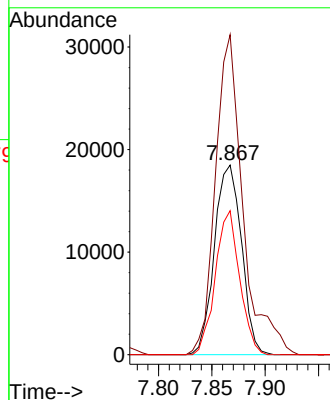
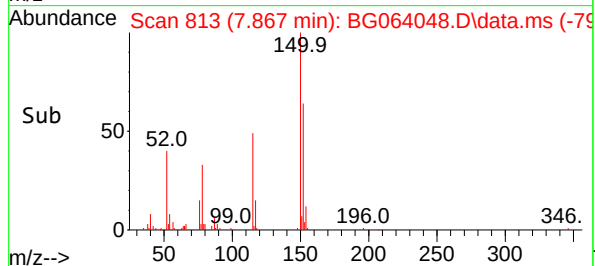
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:152 Resp: 32618  
Ion Ratio Lower Upper  
152 100  
150 168.8 129.2 193.8  
115 76.0 63.0 94.6

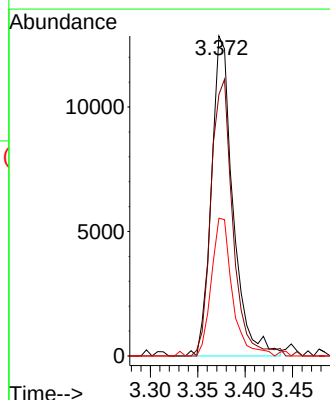
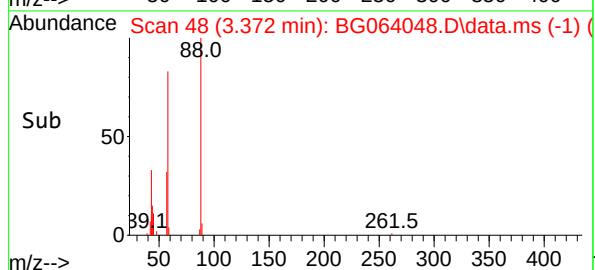
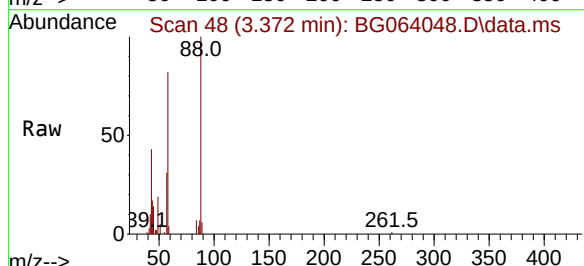
Manual Integrations  
APPROVED

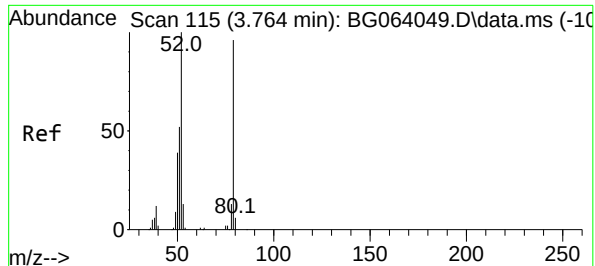
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#2  
1,4-Dioxane  
Concen: 21.491 ng  
RT: 3.372 min Scan# 48  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

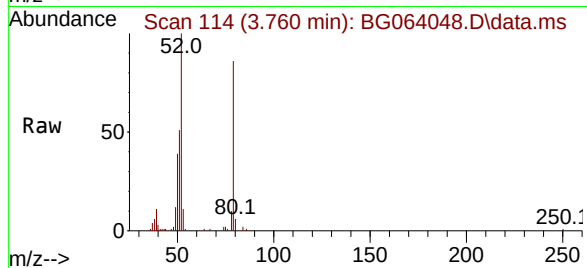
Tgt Ion: 88 Resp: 20346  
Ion Ratio Lower Upper  
88 100  
58 87.3 74.6 111.8  
43 41.6 35.5 53.3





#3  
Pyridine  
Concen: 20.577 ng  
RT: 3.760 min Scan# 115  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

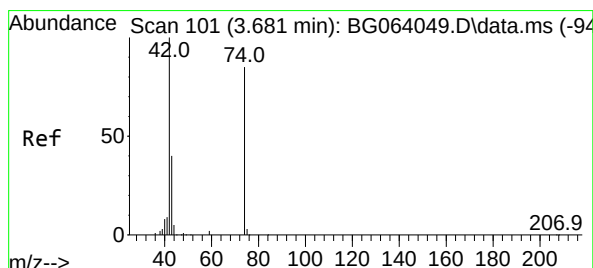
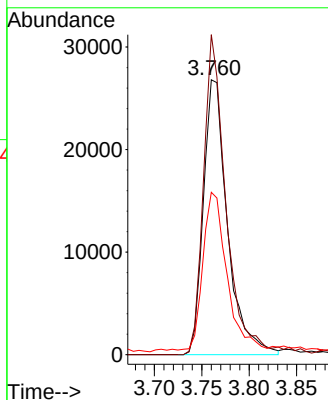
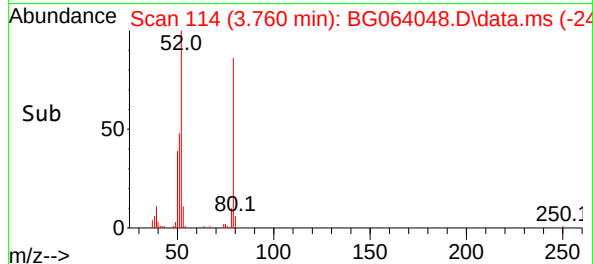
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion: 79 Resp: 47370  
Ion Ratio Lower Upper  
79 100  
52 116.4 83.0 124.6  
51 59.1 44.3 66.5

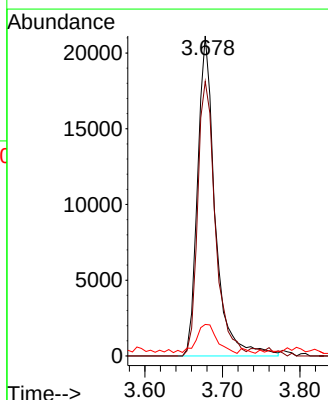
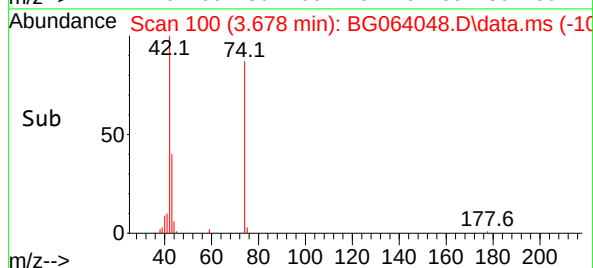
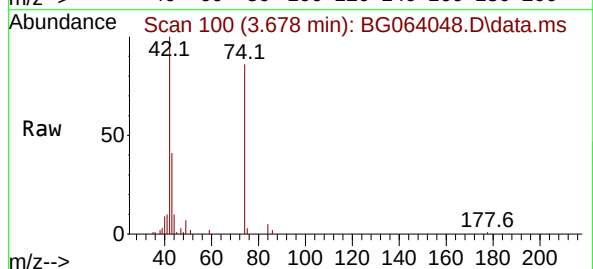
Manual Integrations  
APPROVED

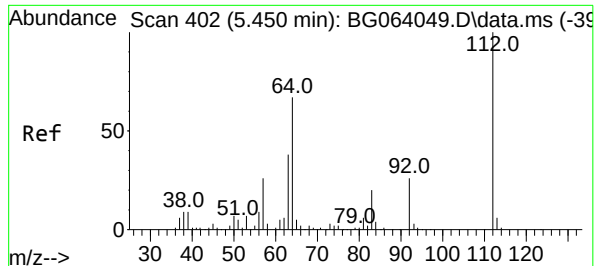
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#4  
n-Nitrosodimethylamine  
Concen: 20.170 ng  
RT: 3.678 min Scan# 100  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion: 42 Resp: 33180  
Ion Ratio Lower Upper  
42 100  
74 85.8 68.0 102.0  
44 9.9 4.9 7.3#





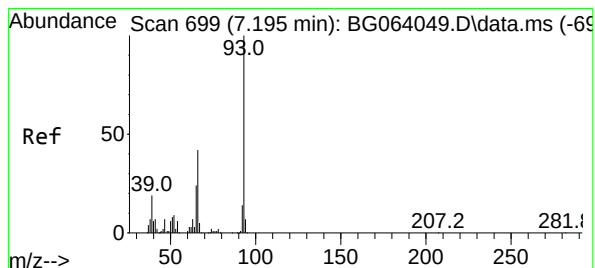
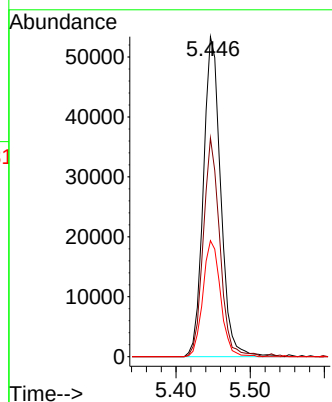
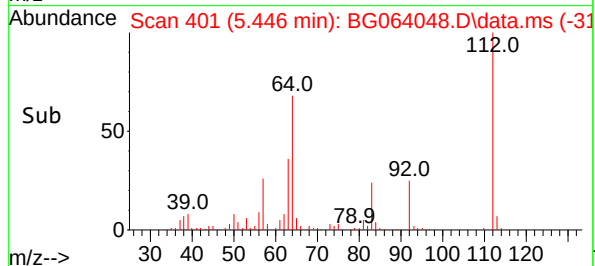
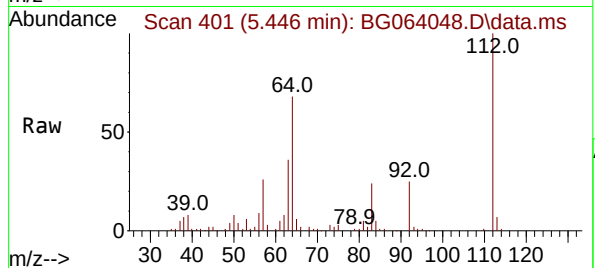
#5  
2-Fluorophenol  
Concen: 41.526 ng  
RT: 5.446 min Scan# 401  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020

Tgt Ion: 112 Resp: 8674  
Ion Ratio Lower Upper  
112 100  
64 68.3 53.7 80.5  
63 36.3 30.2 45.4

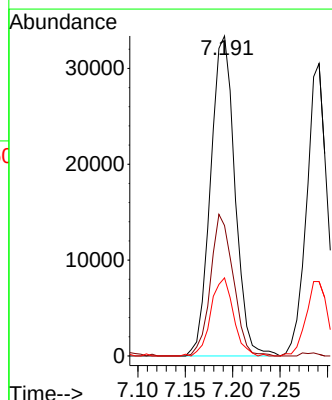
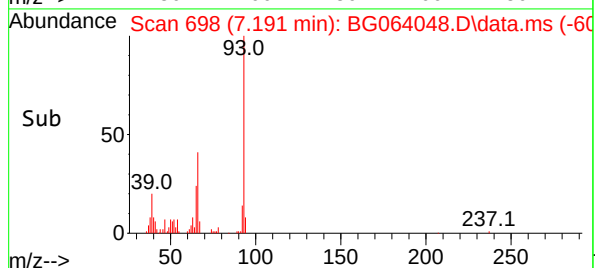
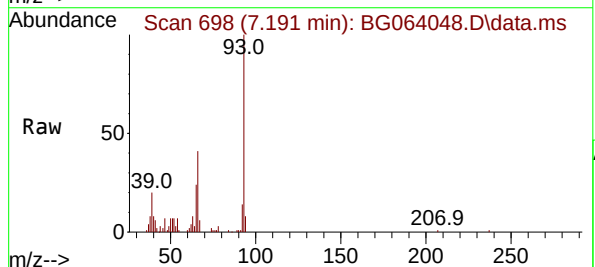
Manual Integrations  
APPROVED

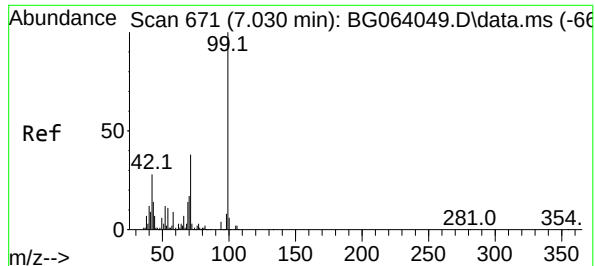
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#6  
Aniline  
Concen: 21.349 ng  
RT: 7.191 min Scan# 698  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion: 93 Resp: 59532  
Ion Ratio Lower Upper  
93 100  
66 40.7 33.7 50.5  
65 24.4 19.1 28.7





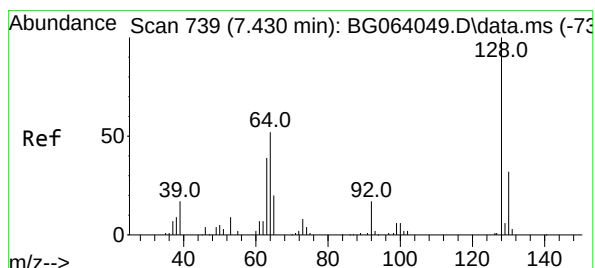
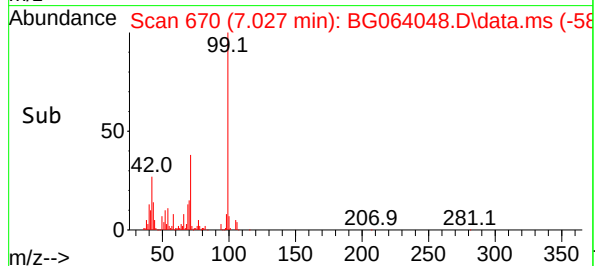
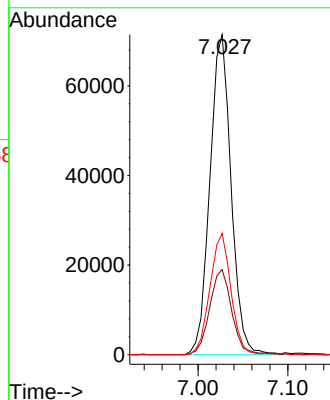
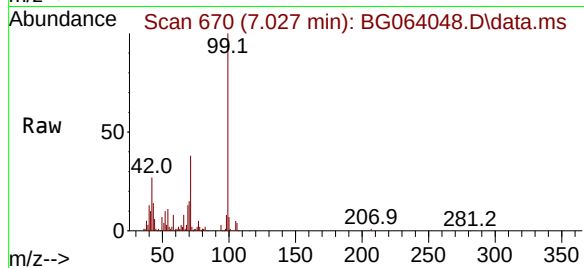
#7  
Phenol-d6  
Concen: 41.181 ng  
RT: 7.027 min Scan# 671  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020

Tgt Ion: 99 Resp: 117028  
Ion Ratio Lower Upper  
99 100  
42 26.6 22.7 34.1  
71 37.9 30.6 46.0

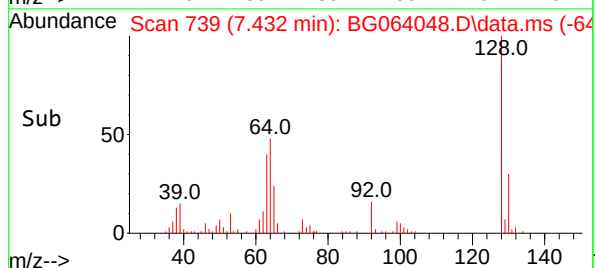
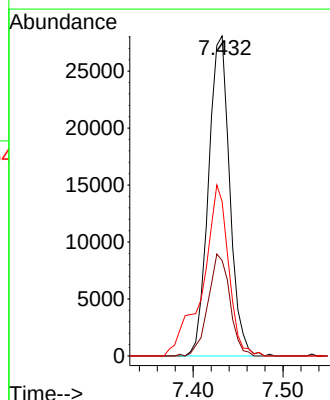
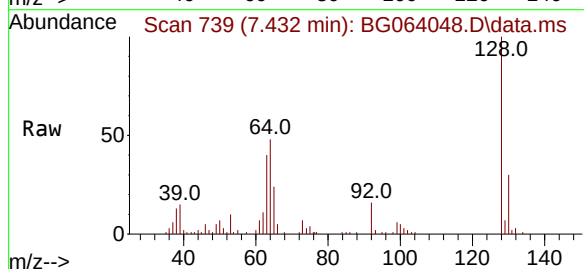
Manual Integrations  
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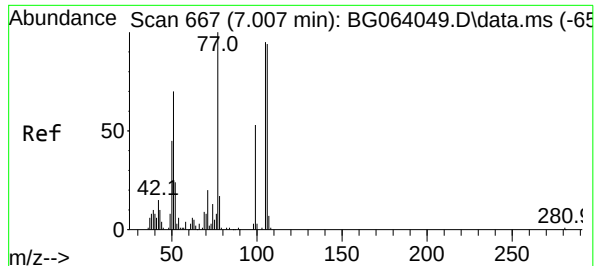
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#8  
2-Chlorophenol  
Concen: 20.527 ng  
RT: 7.432 min Scan# 739  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

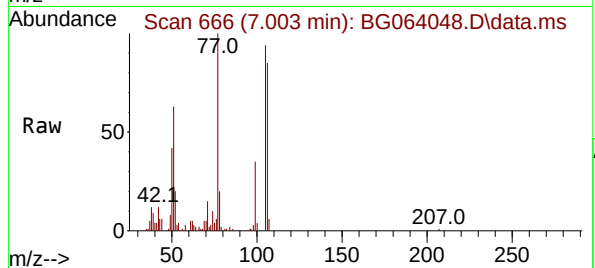
Tgt Ion:128 Resp: 46053  
Ion Ratio Lower Upper  
128 100  
130 29.8 12.3 52.3  
64 48.3 37.0 77.0





#9  
Benzaldehyde  
Concen: 22.246 ng m  
RT: 7.003 min Scan# 60  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

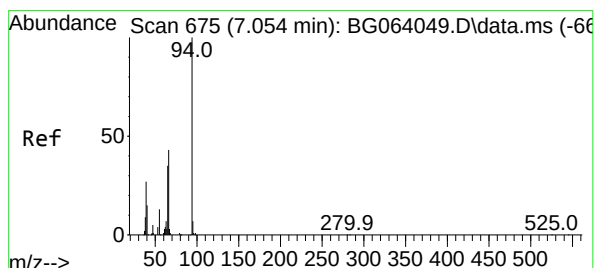
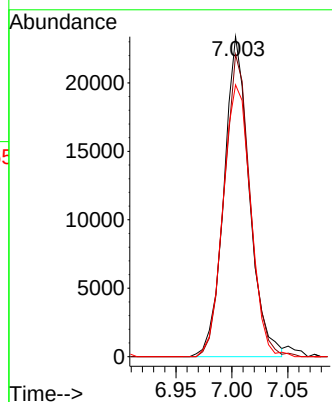
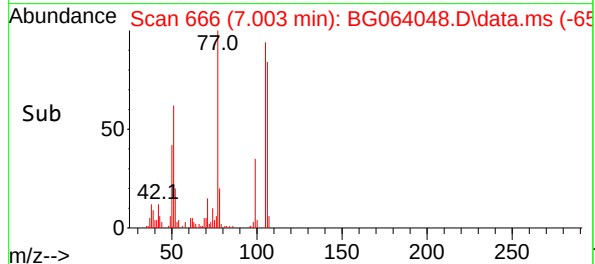
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion: 77 Resp: 36954  
Ion Ratio Lower Upper  
77 100  
105 94.5 75.5 115.5  
106 84.9 74.2 114.2

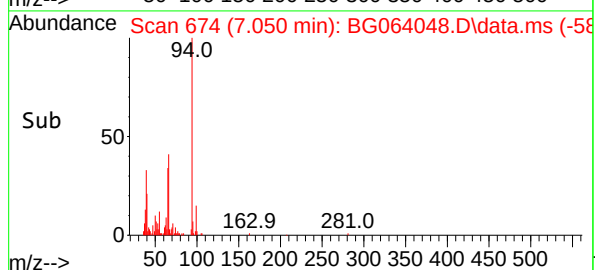
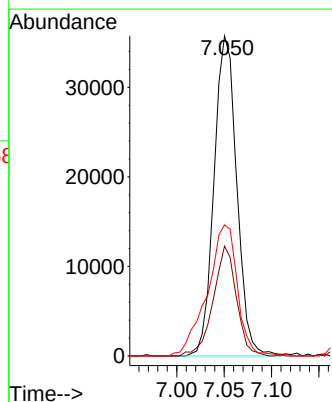
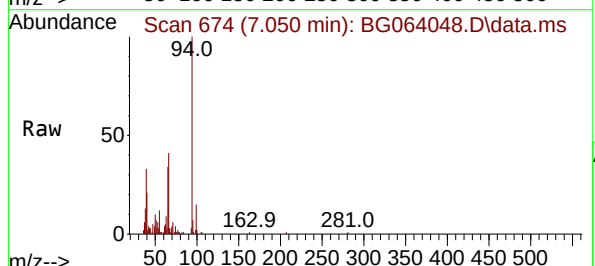
Manual Integrations  
APPROVED

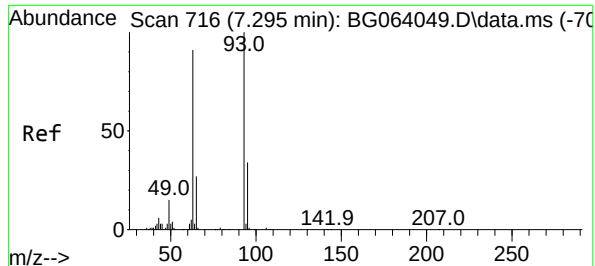
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#10  
Phenol  
Concen: 20.473 ng  
RT: 7.050 min Scan# 674  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion: 94 Resp: 59566  
Ion Ratio Lower Upper  
94 100  
65 34.3 15.2 55.2  
66 41.0 25.1 65.1





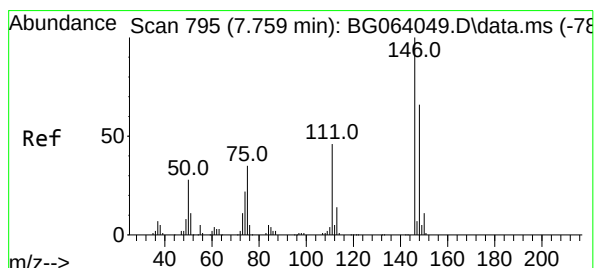
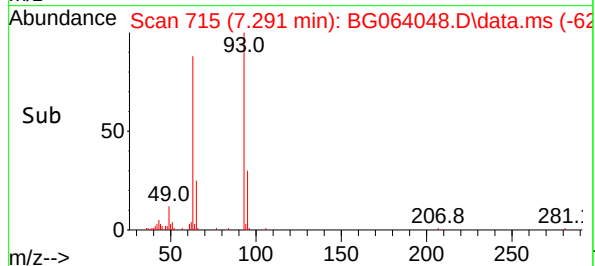
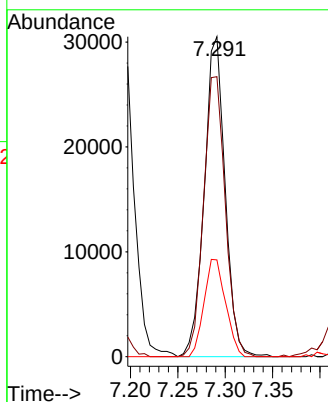
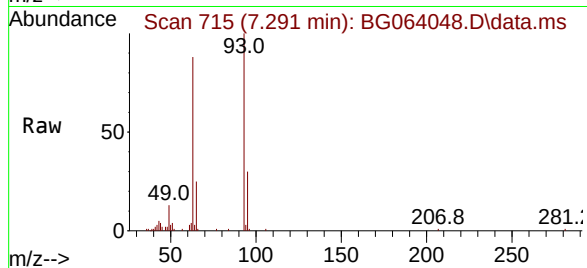
#11  
bis(2-Chloroethyl)ether  
Concen: 20.359 ng  
RT: 7.291 min Scan# 716  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020

Tgt Ion: 93 Resp: 46439  
Ion Ratio Lower Upper  
93 100  
63 87.5 70.0 110.0  
95 30.2 13.7 53.7

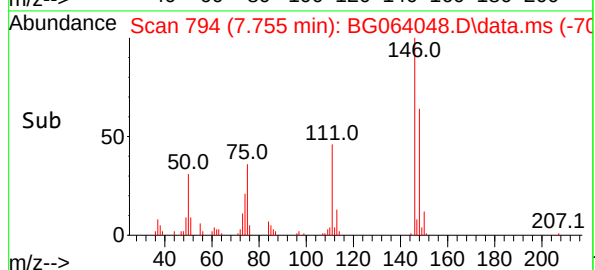
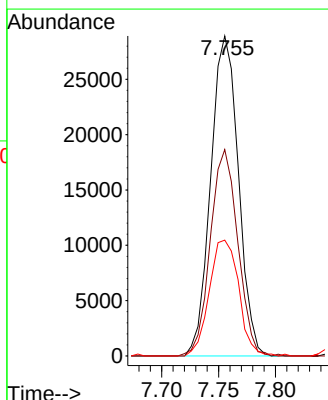
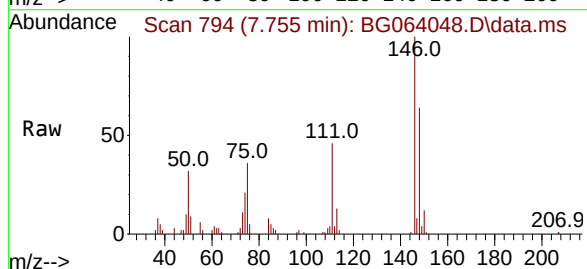
Manual Integrations  
APPROVED

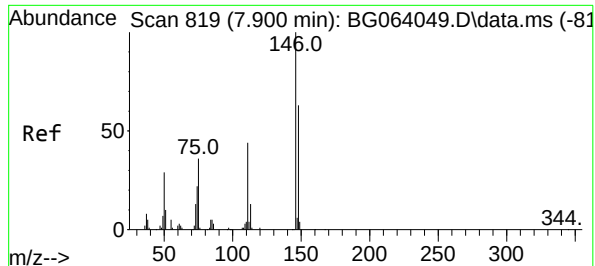
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#12  
1,3-Dichlorobenzene  
Concen: 19.871 ng  
RT: 7.755 min Scan# 794  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion:146 Resp: 48956  
Ion Ratio Lower Upper  
146 100  
148 64.5 52.6 78.8  
75 36.2 28.1 42.1





#13

1,4-Dichlorobenzene

Concen: 20.757 ng

RT: 7.902 min Scan# 819

Delta R.T. 0.002 min

Lab File: BG064048.D

Acq: 5 Mar 2025 11:03

Instrument :

BNA\_G

ClientSampleId :

SSTDICC020

Tgt Ion:146 Resp: 52419

Ion Ratio Lower Upper

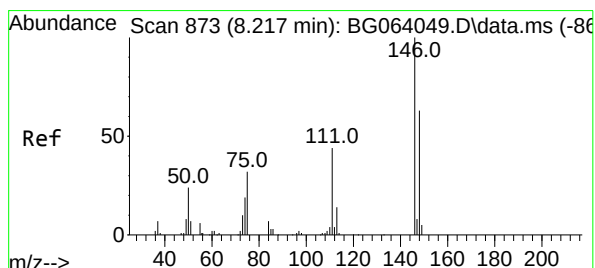
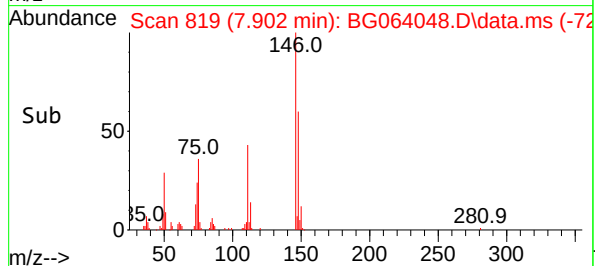
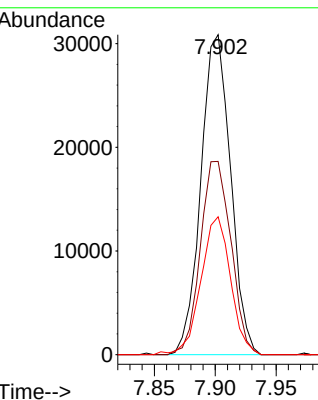
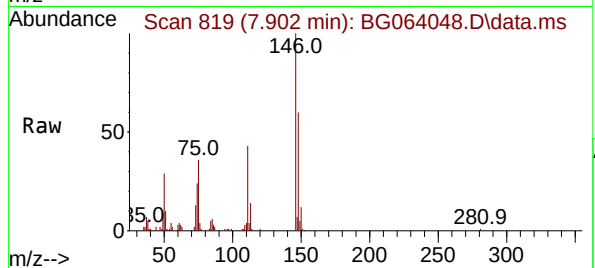
146 100

148 60.4 50.6 75.8

111 43.1 35.1 52.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#14

1,2-Dichlorobenzene

Concen: 20.663 ng

RT: 8.214 min Scan# 872

Delta R.T. -0.004 min

Lab File: BG064048.D

Acq: 5 Mar 2025 11:03

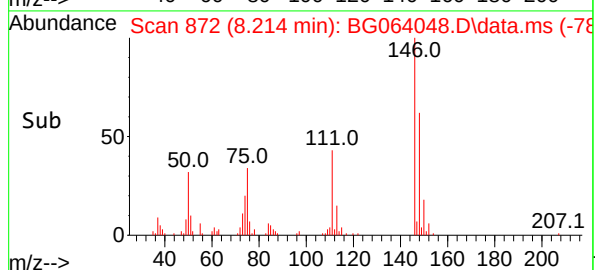
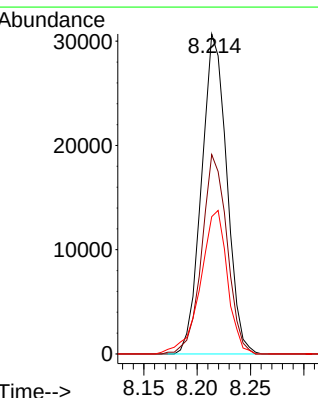
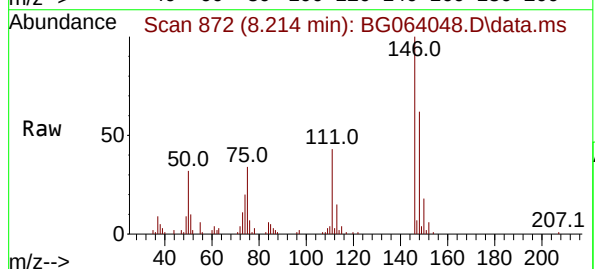
Tgt Ion:146 Resp: 50317

Ion Ratio Lower Upper

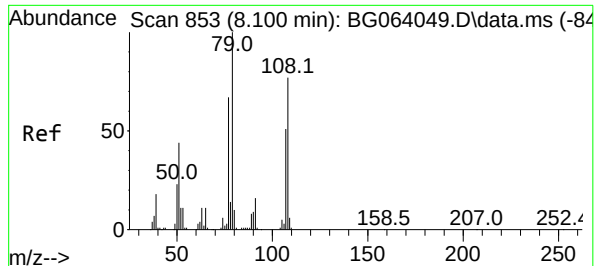
146 100

148 62.3 50.2 75.2

111 42.9 36.4 54.6

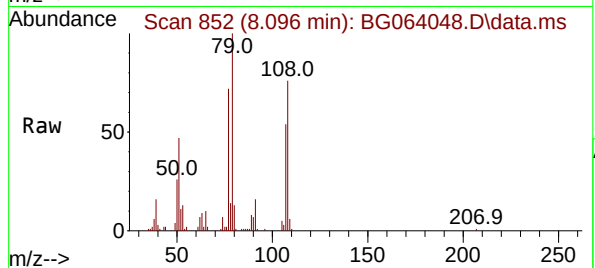






#15  
Benzyl Alcohol  
Concen: 19.946 ng  
RT: 8.096 min Scan# 81  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

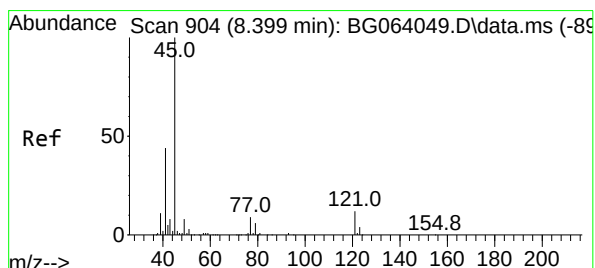
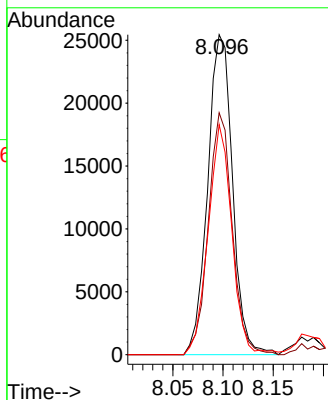
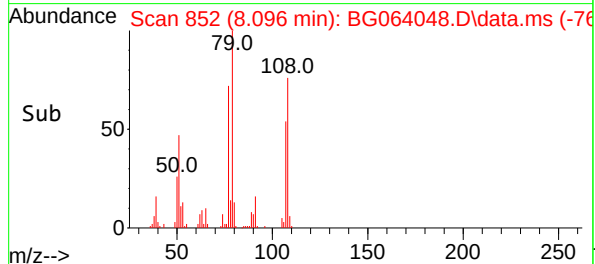
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion: 79 Resp: 4380  
Ion Ratio Lower Upper  
79 100  
108 75.6 61.7 92.5  
77 71.9 53.9 80.9

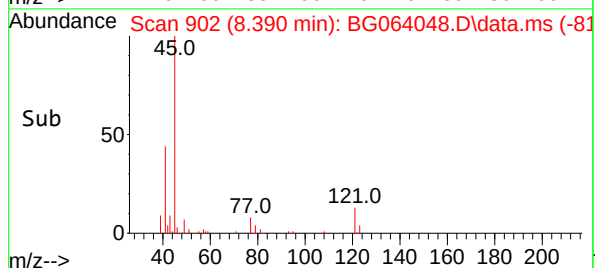
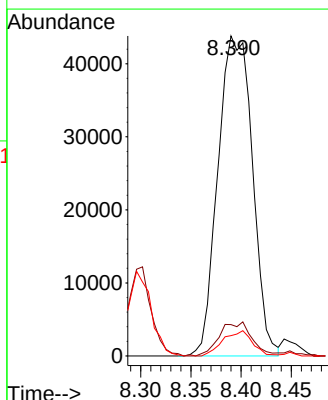
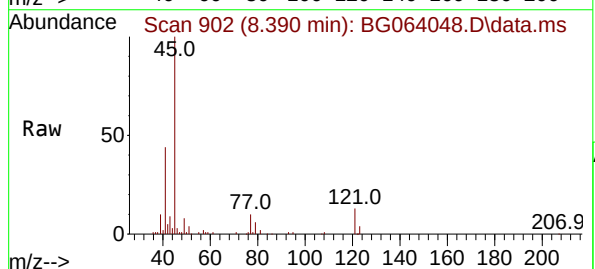
Manual Integrations  
APPROVED

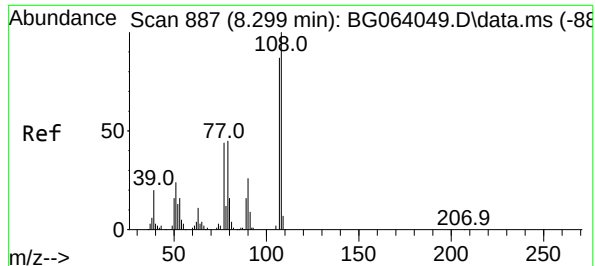
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 20.405 ng  
RT: 8.390 min Scan# 902  
Delta R.T. -0.009 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion: 45 Resp: 104660  
Ion Ratio Lower Upper  
45 100  
77 9.8 0.0 29.0  
79 6.3 0.0 26.6





#17

2-Methylphenol

Concen: 19.883 ng

RT: 8.302 min Scan# 887

Delta R.T. 0.002 min

Lab File: BG064048.D

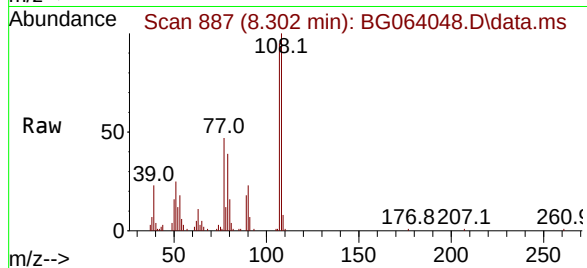
Acq: 5 Mar 2025 11:03

Instrument :

BNA\_G

ClientSampleId :

SSTDICC020

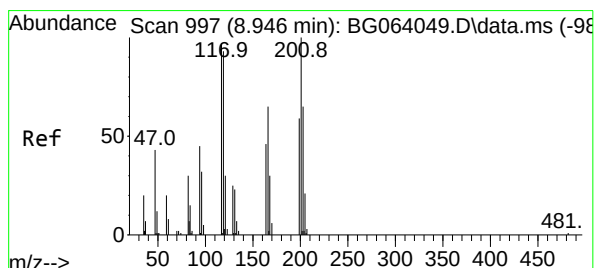
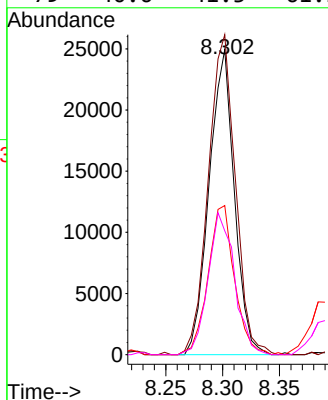
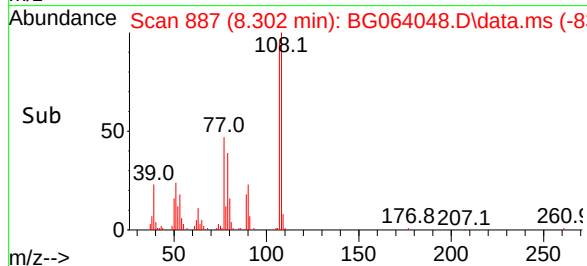


|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 3839  |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 104.8 | 92.5  | 138.7 |
| 77       | 48.9  | 40.5  | 60.7  |
| 79       | 40.6  | 41.3  | 61.9  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#18

Hexachloroethane

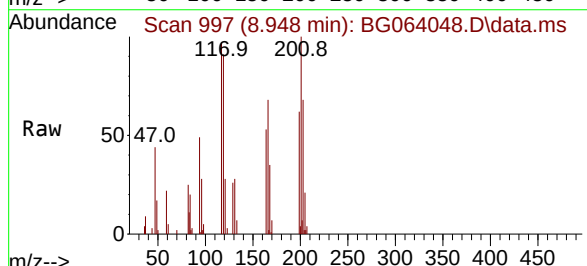
Concen: 19.194 ng

RT: 8.948 min Scan# 997

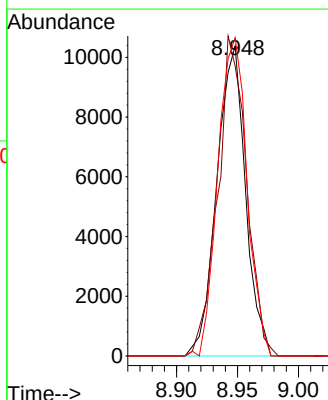
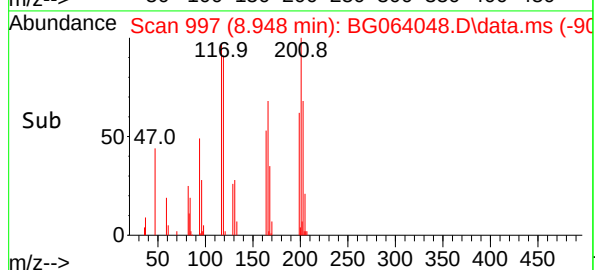
Delta R.T. 0.002 min

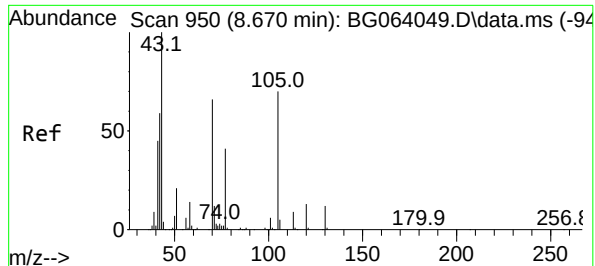
Lab File: BG064048.D

Acq: 5 Mar 2025 11:03



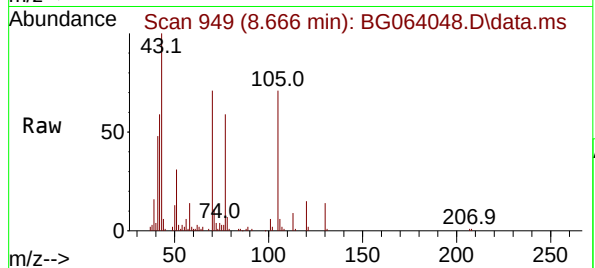
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 16959 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 93.5  | 76.2  | 114.2 |
| 201      | 102.7 | 81.5  | 122.3 |





#19  
n-Nitroso-di-n-propylamine  
Concen: 20.960 ng  
RT: 8.666 min Scan# 949  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

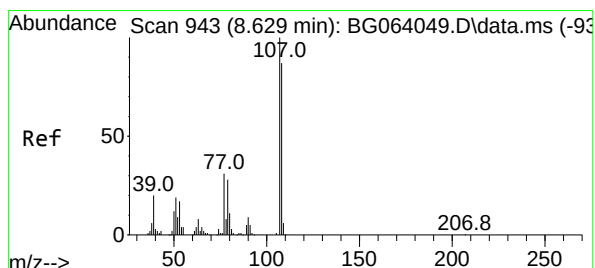
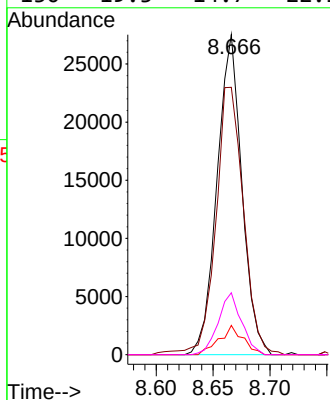
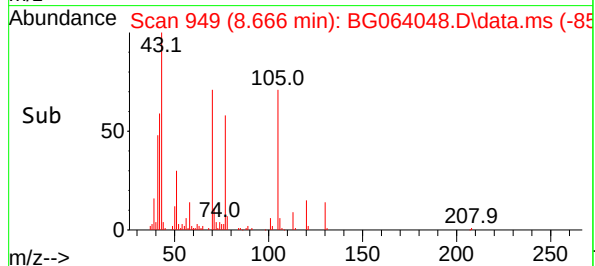
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion: 70 Resp: 4180  
Ion Ratio Lower Upper  
70 100  
42 83.5 72.1 108.1  
101 9.2 7.2 10.8  
130 19.3 14.7 22.1

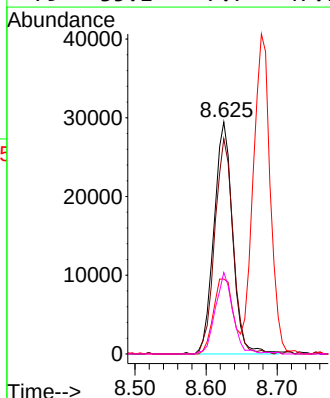
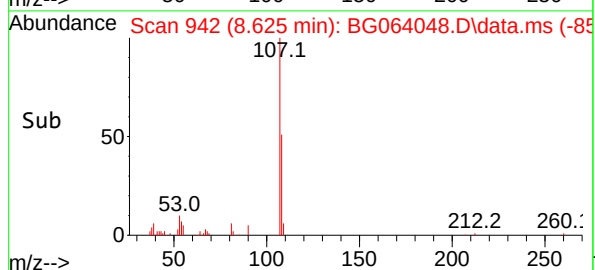
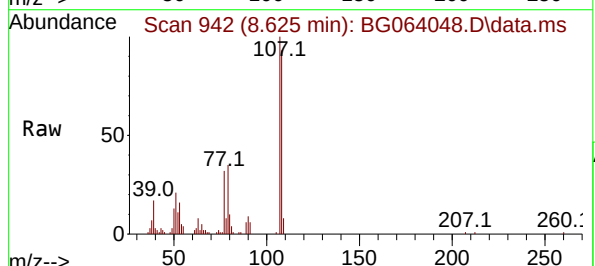
Manual Integrations  
APPROVED

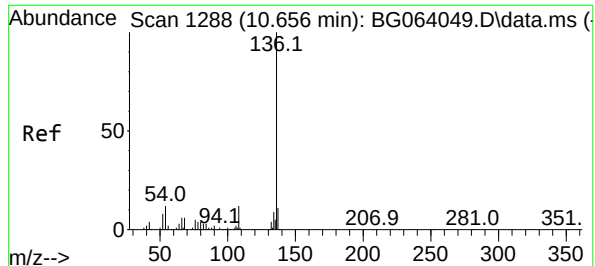
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#20  
3+4-Methylphenols  
Concen: 20.102 ng  
RT: 8.625 min Scan# 942  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

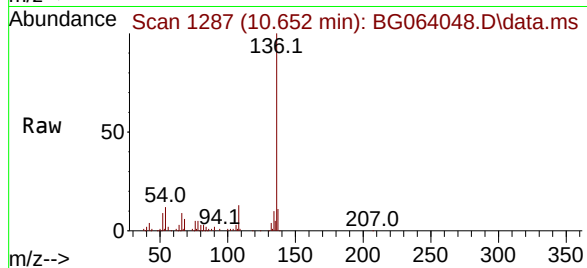
Tgt Ion:107 Resp: 53440  
Ion Ratio Lower Upper  
107 100  
108 92.8 67.0 107.0  
77 32.3 11.2 51.2  
79 35.1 7.7 47.7





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.652 min Scan# 1288  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

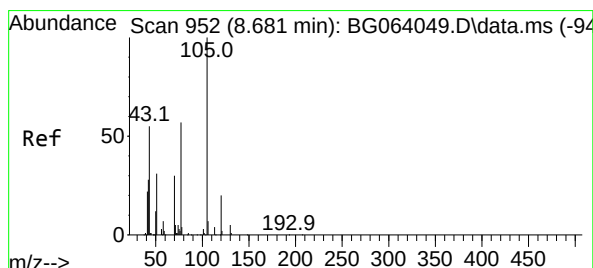
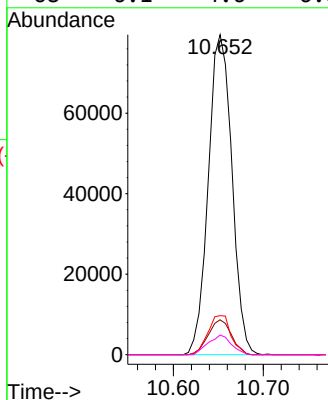
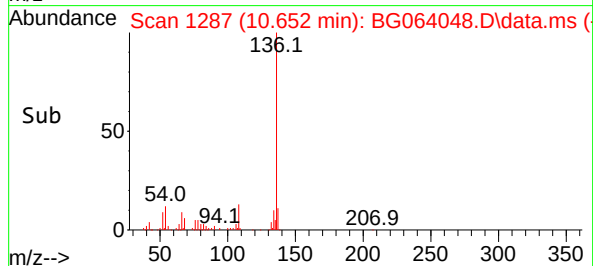
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:136 Resp: 14508  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.5 12.7  
54 12.2 9.9 14.9  
68 6.1 4.6 6.8

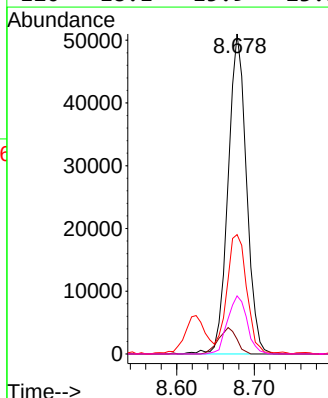
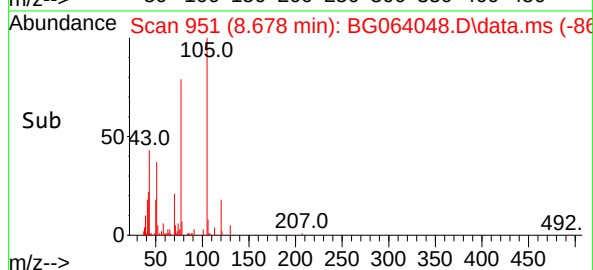
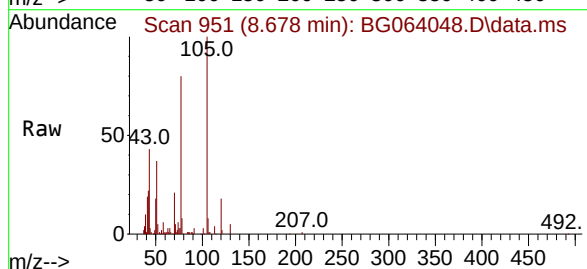
Manual Integrations  
APPROVED

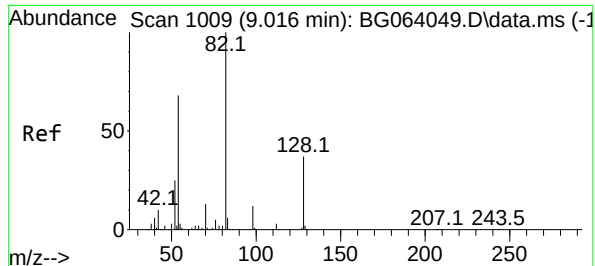
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#22  
Acetophenone  
Concen: 21.140 ng  
RT: 8.678 min Scan# 951  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion:105 Resp: 84092  
Ion Ratio Lower Upper  
105 100  
71 4.6 4.2 6.4  
51 37.3 33.3 49.9  
120 18.1 15.9 23.9





#23

Nitrobenzene-d5

Concen: 39.746 ng

RT: 9.013 min Scan# 1008

Delta R.T. -0.004 min

Lab File: BG064048.D

Acq: 5 Mar 2025 11:03

Instrument :

BNA\_G

ClientSampleId :

SSTDICC020

Tgt Ion: 82 Resp: 10434

Ion Ratio Lower Upper

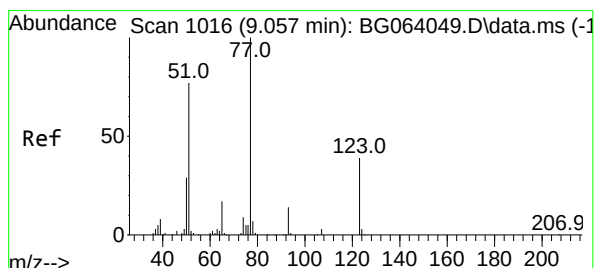
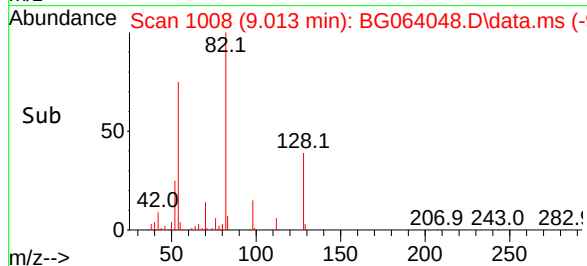
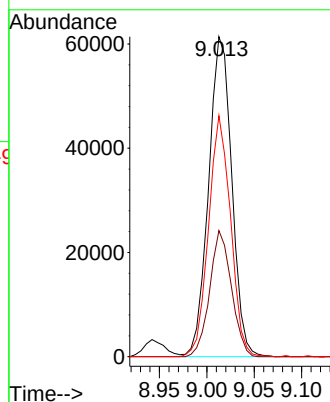
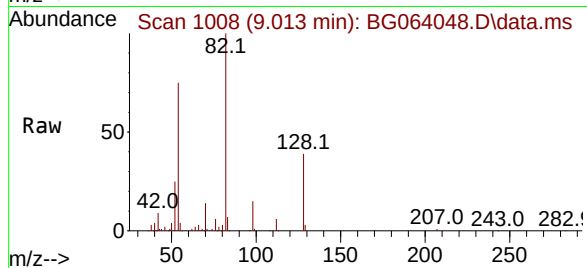
82 100

128 39.4 30.0 45.0

54 75.3 54.7 82.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#24

Nitrobenzene

Concen: 20.828 ng

RT: 9.060 min Scan# 1016

Delta R.T. 0.002 min

Lab File: BG064048.D

Acq: 5 Mar 2025 11:03

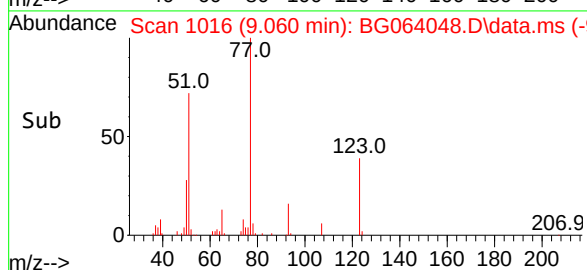
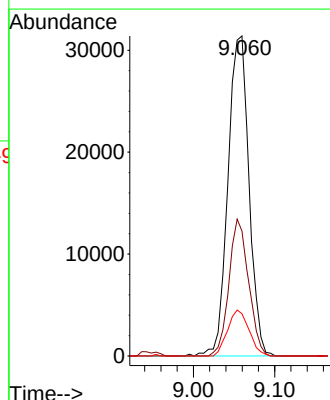
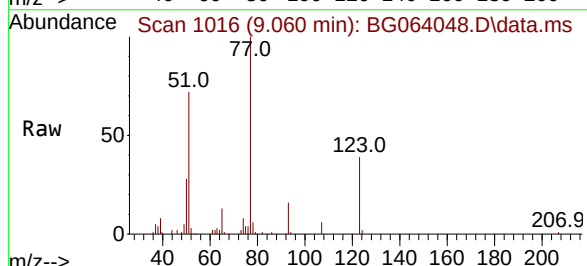
Tgt Ion: 77 Resp: 56511

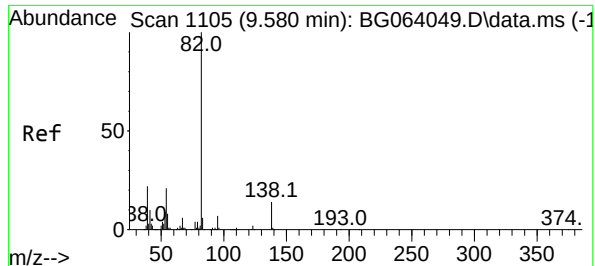
Ion Ratio Lower Upper

77 100

123 39.1 31.4 47.2

65 13.2 13.4 20.0#





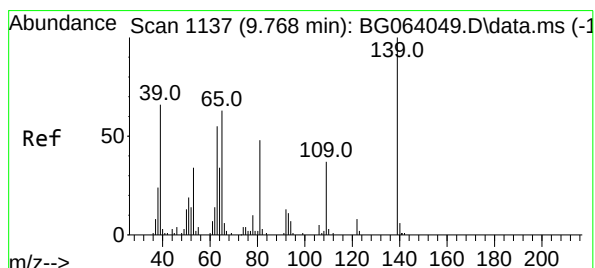
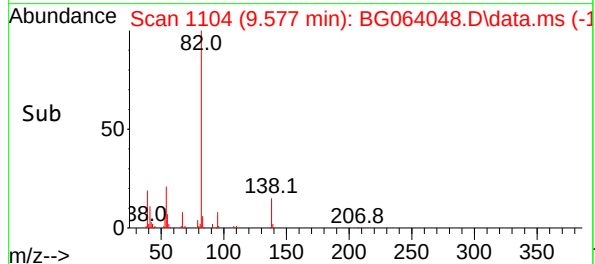
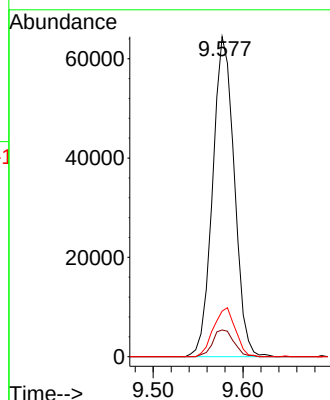
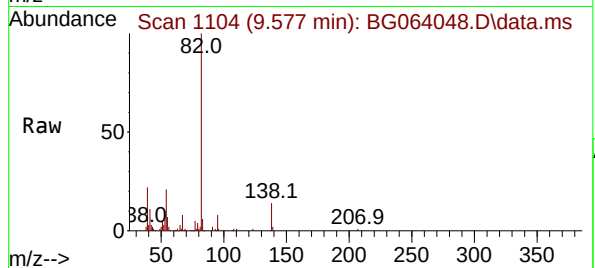
#25  
Isophorone  
Concen: 20.530 ng  
RT: 9.577 min Scan# 1105  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020

Tgt Ion: 82 Resp: 10788  
Ion Ratio Lower Upper  
82 100  
95 8.3 5.8 8.8  
138 14.3 10.9 16.3

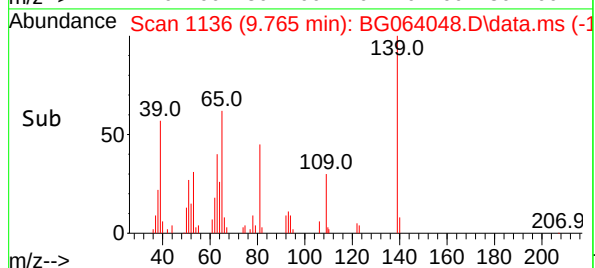
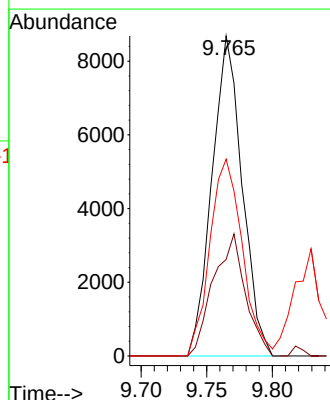
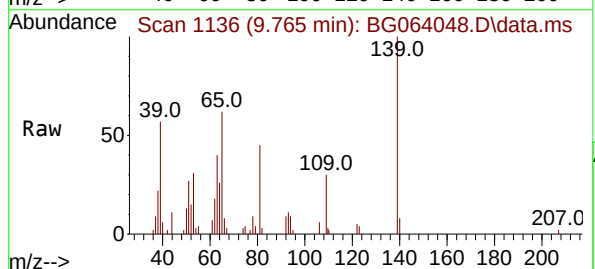
Manual Integrations  
APPROVED

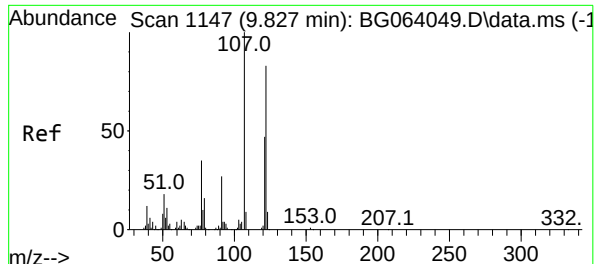
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#26  
2-Nitrophenol  
Concen: 18.663 ng  
RT: 9.765 min Scan# 1136  
Delta R.T. -0.003 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion:139 Resp: 13886  
Ion Ratio Lower Upper  
139 100  
109 33.1 29.9 44.9  
65 61.5 50.6 76.0





#27

2,4-Dimethylphenol

Concen: 20.322 ng

RT: 9.824 min Scan# 1146

Delta R.T. -0.004 min

Lab File: BG064048.D

Acq: 5 Mar 2025 11:03

Instrument :

BNA\_G

ClientSampleId :

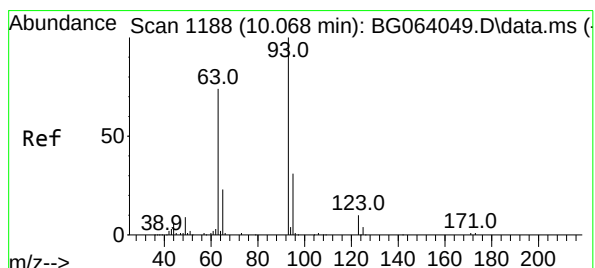
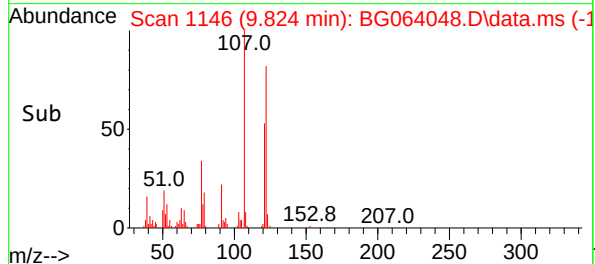
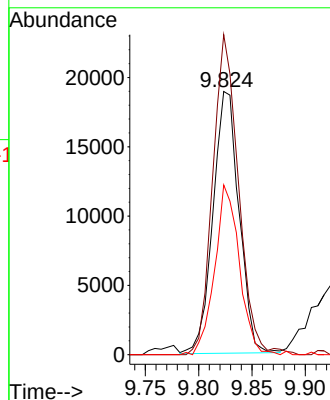
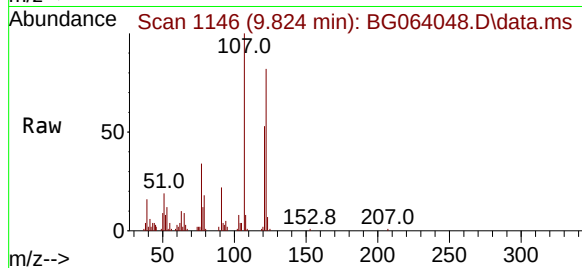
SSTDICC020

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 122   | Resp: | 3201  |
| Ion      | Ratio | Lower | Upper |
| 122      | 100   |       |       |
| 107      | 121.6 | 95.4  | 143.0 |
| 121      | 64.5  | 44.9  | 67.3  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#28

bis(2-Chloroethoxy)methane

Concen: 21.327 ng

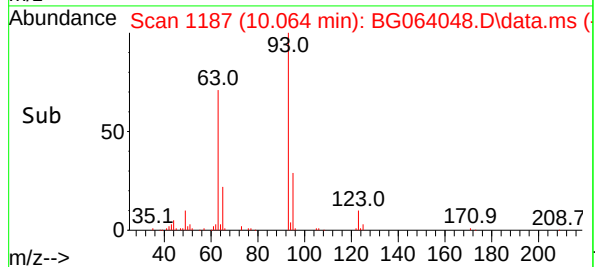
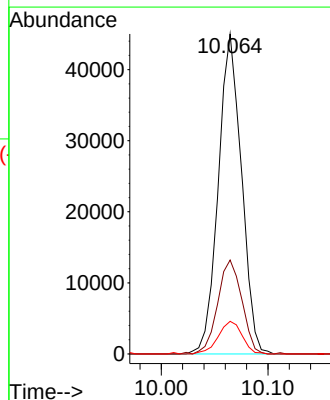
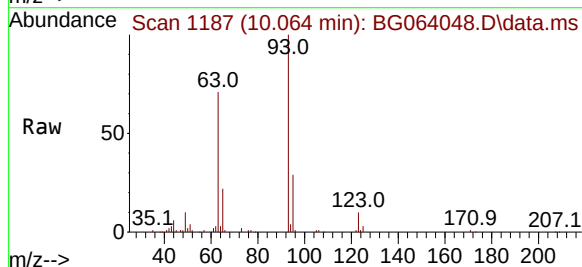
RT: 10.064 min Scan# 1187

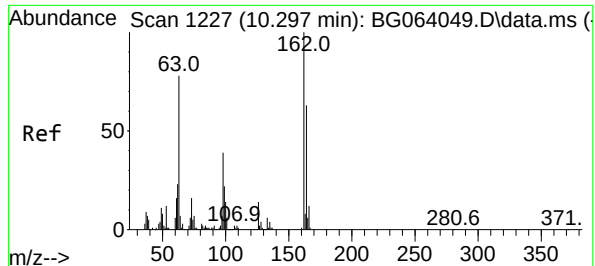
Delta R.T. -0.004 min

Lab File: BG064048.D

Acq: 5 Mar 2025 11:03

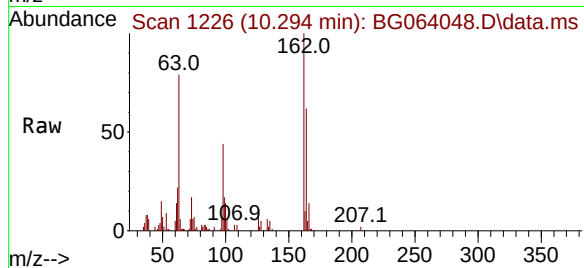
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 67945 |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 95       | 29.3  | 25.0  | 37.4  |
| 123      | 10.2  | 7.6   | 11.4  |





#29  
2,4-Dichlorophenol  
Concen: 20.475 ng  
RT: 10.294 min Scan# 1226  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

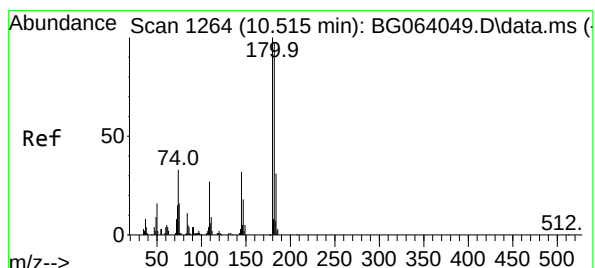
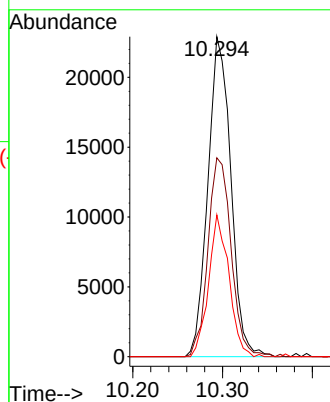
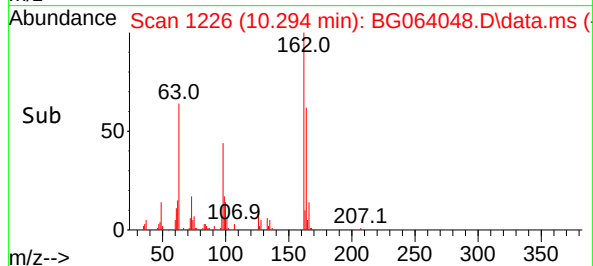
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:162 Resp: 40728  
Ion Ratio Lower Upper  
162 100  
164 62.2 42.8 82.8  
98 44.3 19.1 59.1

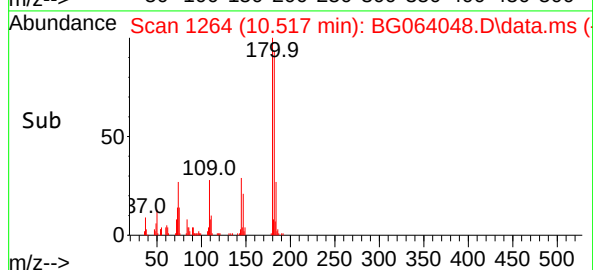
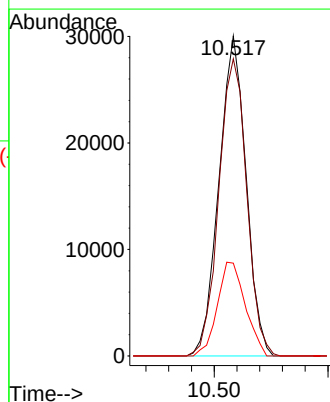
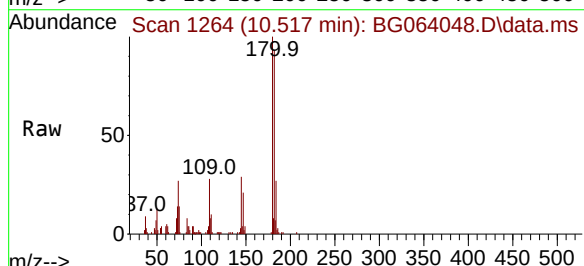
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

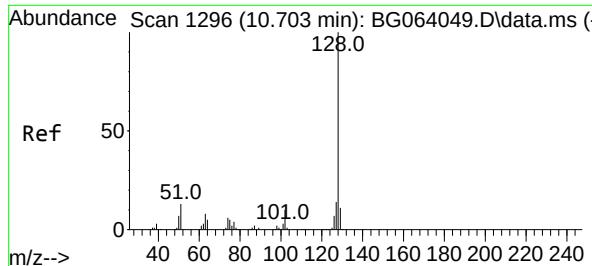


#30  
1,2,4-Trichlorobenzene  
Concen: 20.698 ng  
RT: 10.517 min Scan# 1264  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion:180 Resp: 49701  
Ion Ratio Lower Upper  
180 100  
182 92.8 77.3 115.9  
145 29.0 25.2 37.8

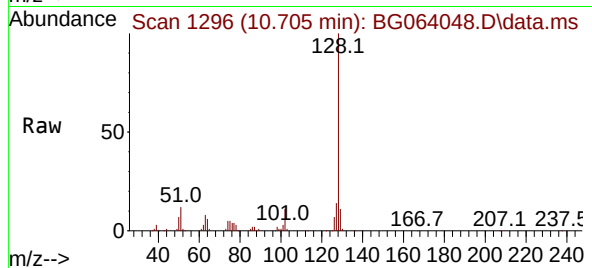






#31  
Naphthalene  
Concen: 20.654 ng  
RT: 10.705 min Scan# 1164  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

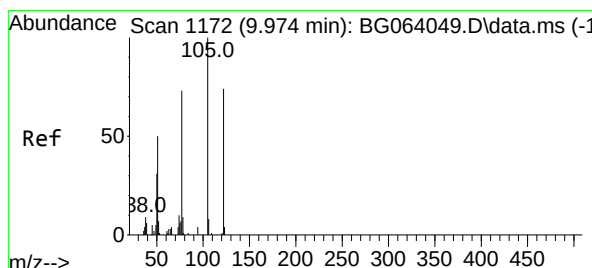
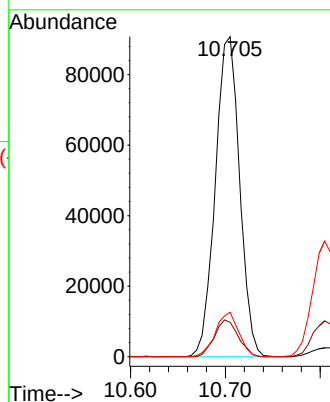
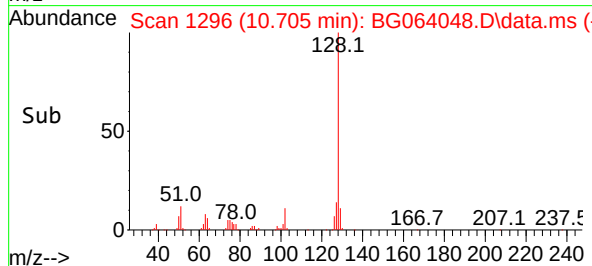
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:128 Resp: 16158  
Ion Ratio Lower Upper  
128 100  
129 10.8 8.4 12.6  
127 13.9 11.1 16.7

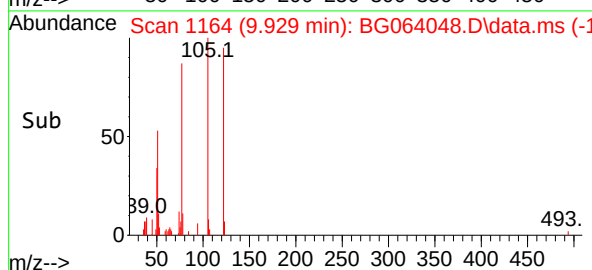
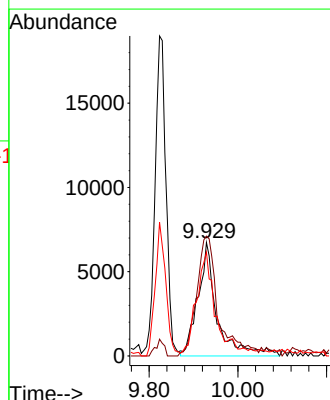
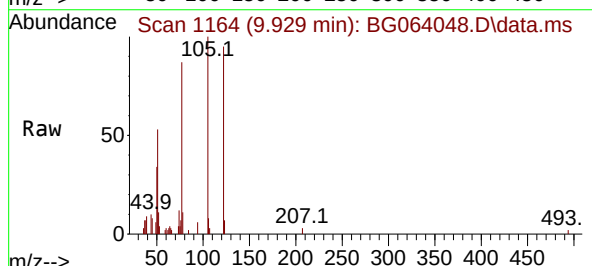
Manual Integrations  
APPROVED

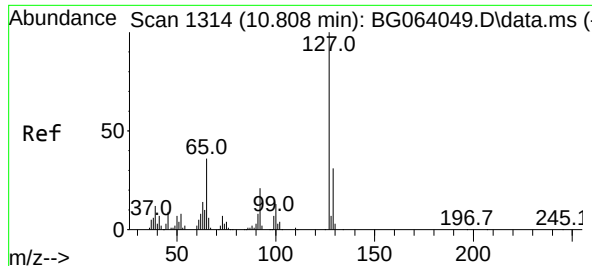
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#32  
Benzoic acid  
Concen: 20.131 ng m  
RT: 9.929 min Scan# 1164  
Delta R.T. -0.045 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion:122 Resp: 20223  
Ion Ratio Lower Upper  
122 100  
105 105.6 115.0 155.0#  
77 91.5 80.9 120.9





#33  
4-Chloroaniline  
Concen: 20.668 ng  
RT: 10.805 min Scan# 1313  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Instrument :

BNA\_G

ClientSampleId :

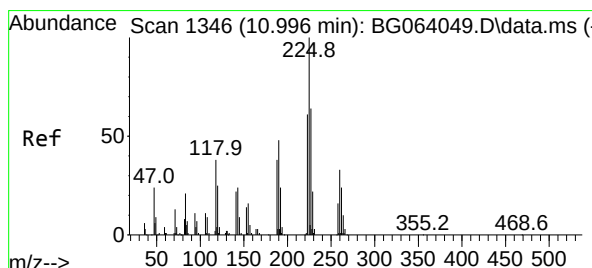
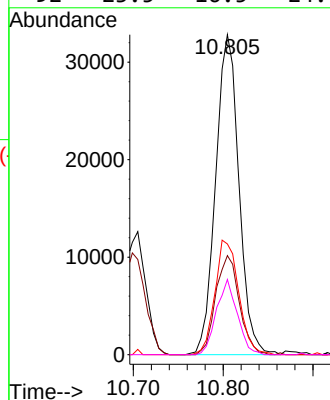
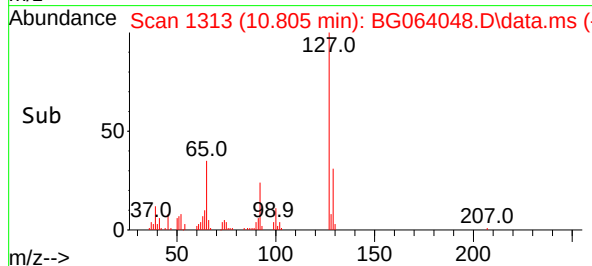
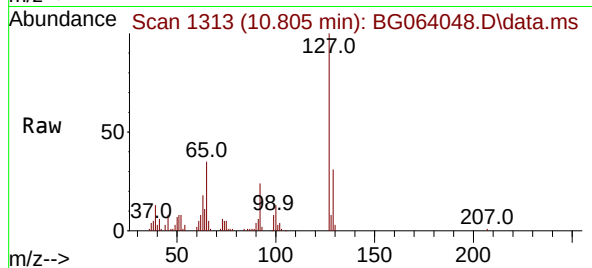
SSTDICC020

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 127   | Resp: | 5909 |
| Ion Ratio | Lower | Upper |      |
| 127       | 100   |       |      |
| 129       | 30.9  | 25.0  | 37.4 |
| 65        | 34.6  | 28.5  | 42.7 |
| 92        | 23.5  | 16.5  | 24.7 |

Manual Integrations

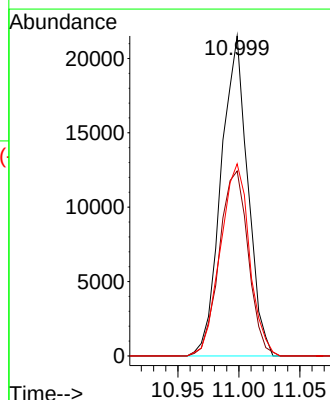
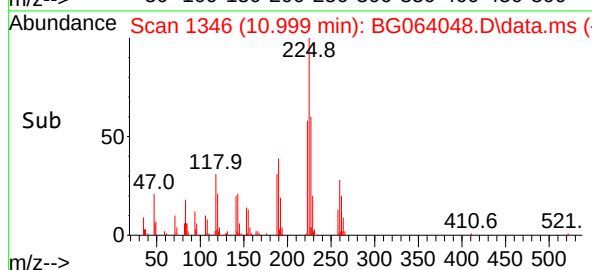
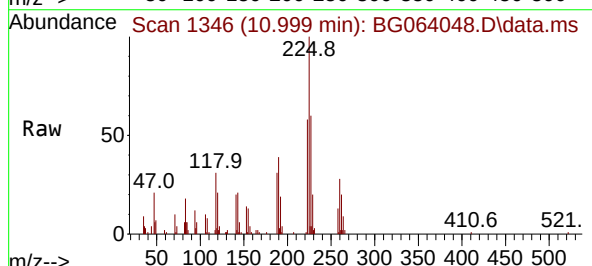
APPROVED

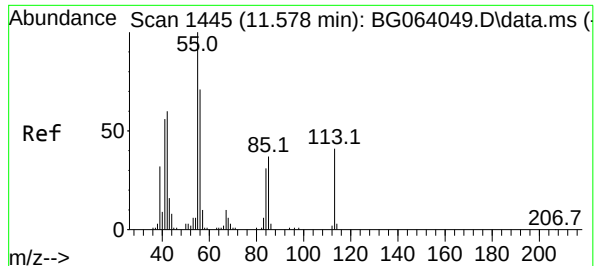
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#34  
Hexachlorobutadiene  
Concen: 20.760 ng  
RT: 10.999 min Scan# 1346  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

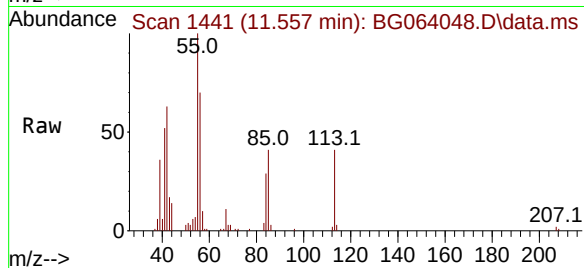
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 225   | Resp: | 32675 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 57.8  | 48.5  | 72.7  |
| 227       | 60.1  | 51.0  | 76.6  |





#35  
Caprolactam  
Concen: 21.319 ng  
RT: 11.557 min Scan# 1441  
Delta R.T. -0.021 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

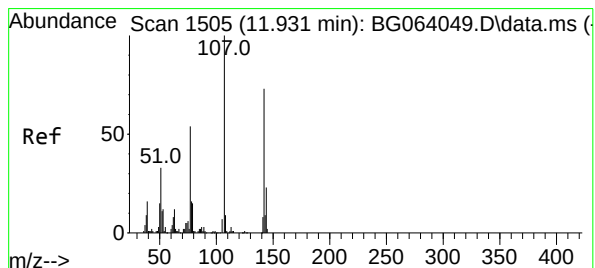
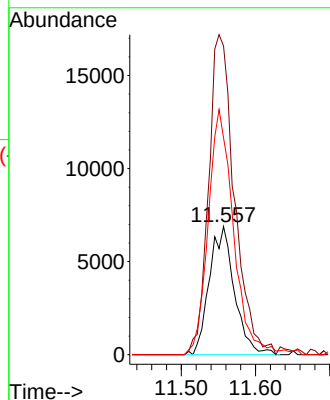
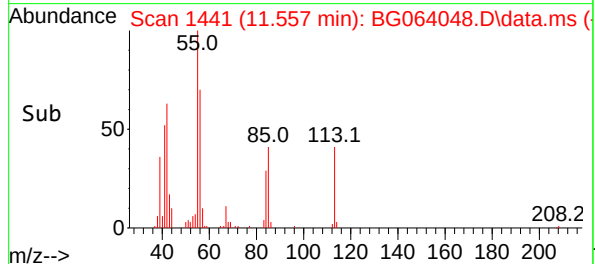
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:113 Resp: 1625  
Ion Ratio Lower Upper  
113 100  
55 241.0 225.2 265.2  
56 169.2 153.4 193.4

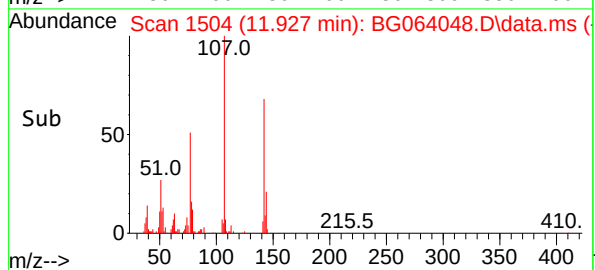
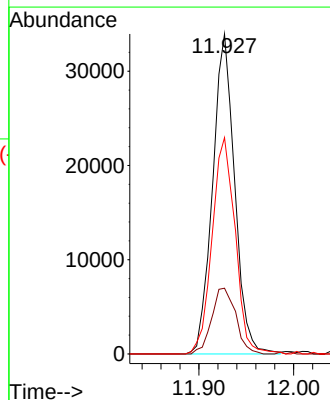
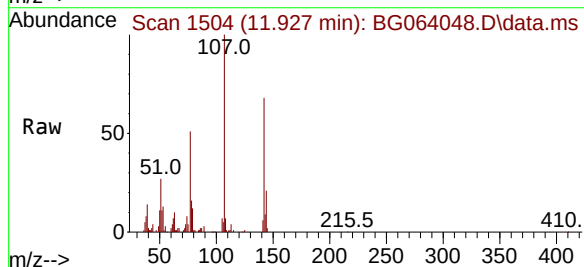
Manual Integrations  
APPROVED

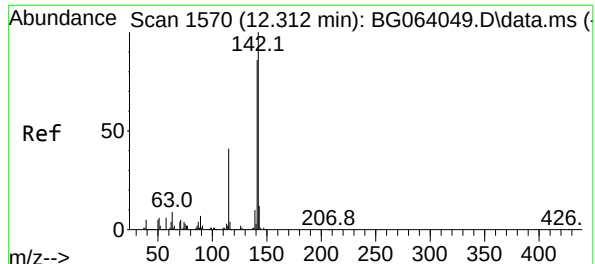
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#36  
4-Chloro-3-methylphenol  
Concen: 21.103 ng  
RT: 11.927 min Scan# 1504  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

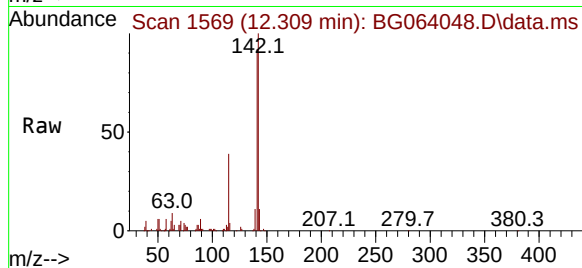
Tgt Ion:107 Resp: 55024  
Ion Ratio Lower Upper  
107 100  
144 20.5 18.6 28.0  
142 67.6 58.0 87.0





#37  
2-Methylnaphthalene  
Concen: 20.696 ng  
RT: 12.309 min Scan# 1569  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

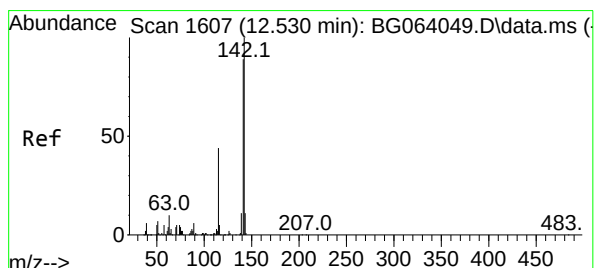
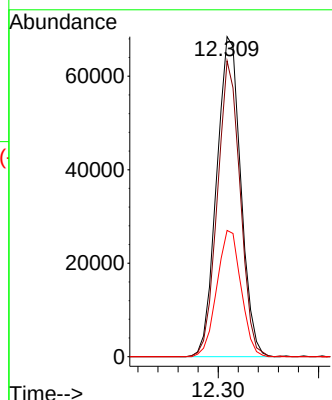
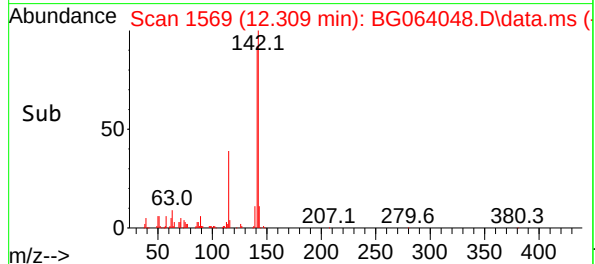
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:142 Resp: 11430  
Ion Ratio Lower Upper  
142 100  
141 92.5 68.6 103.0  
115 39.4 32.8 49.2

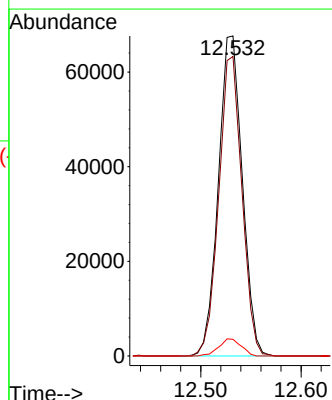
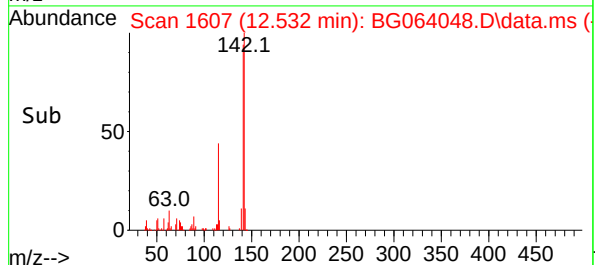
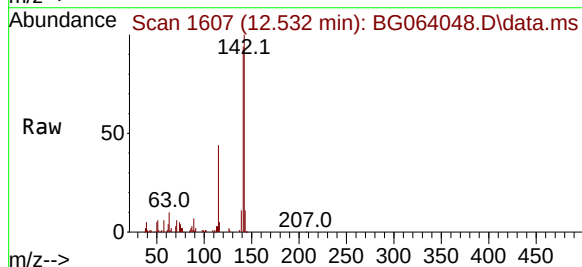
Manual Integrations  
APPROVED

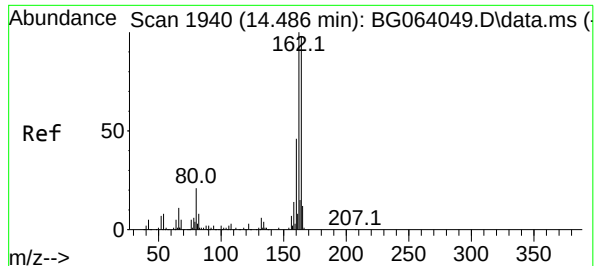
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#38  
1-Methylnaphthalene  
Concen: 20.668 ng  
RT: 12.532 min Scan# 1607  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

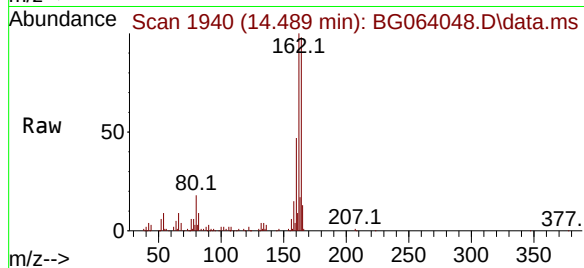
Tgt Ion:142 Resp: 111828  
Ion Ratio Lower Upper  
142 100  
141 93.6 71.2 106.8  
116 5.2 3.6 5.4





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.489 min Scan# 1940  
Delta R.T. 0.003 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

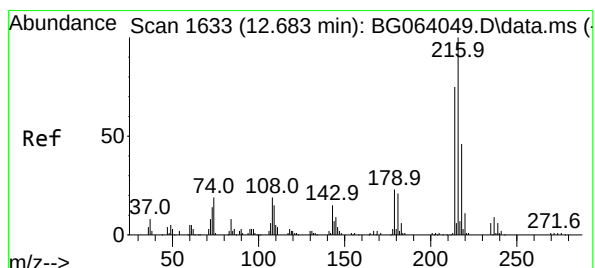
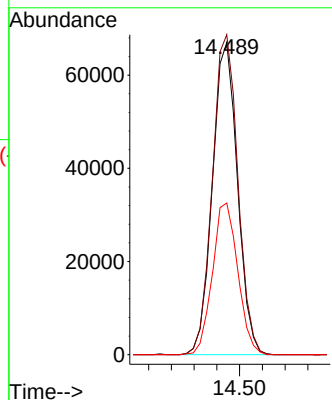
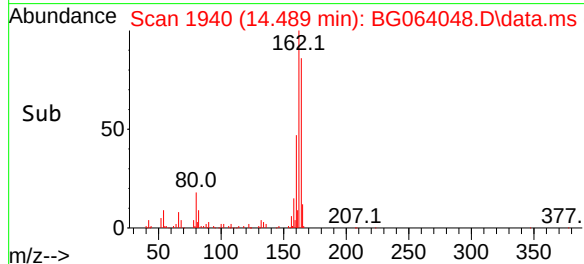
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



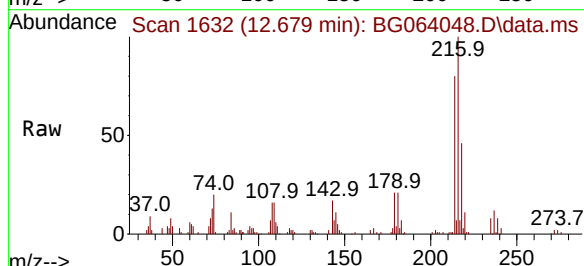
Tgt Ion:164 Resp: 102335  
Ion Ratio Lower Upper  
164 100  
162 102.5 81.4 122.0  
160 48.6 37.0 55.6

Manual Integrations  
APPROVED

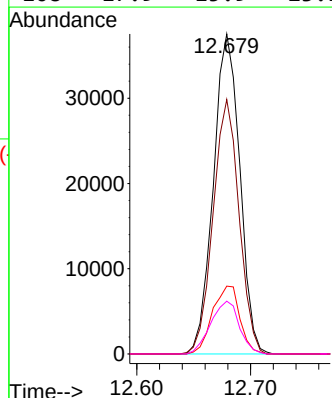
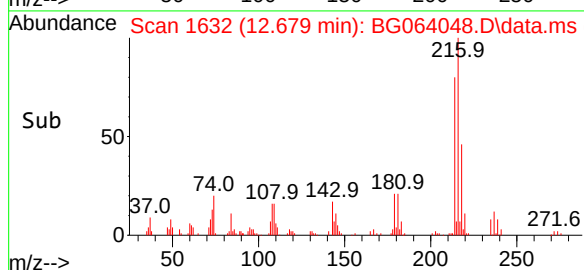
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

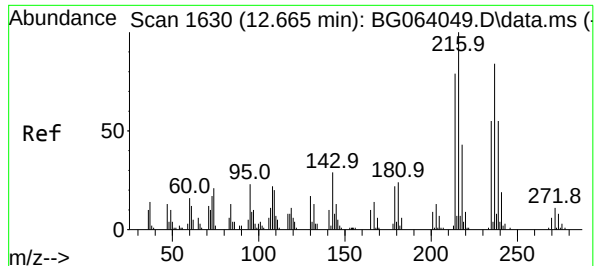


#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 20.727 ng  
RT: 12.679 min Scan# 1632  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03



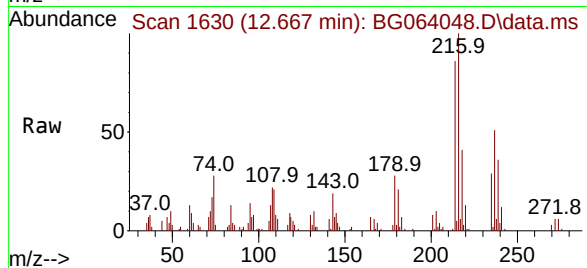
Tgt Ion:216 Resp: 60556  
Ion Ratio Lower Upper  
216 100  
214 78.2 61.7 92.5  
179 22.0 17.9 26.9  
108 17.9 15.9 23.9





#41  
Hexachlorocyclopentadiene  
Concen: 20.029 ng  
RT: 12.667 min Scan# 1630  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

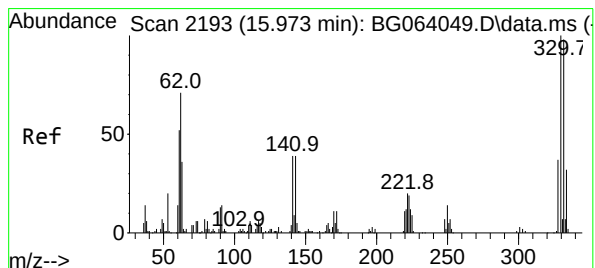
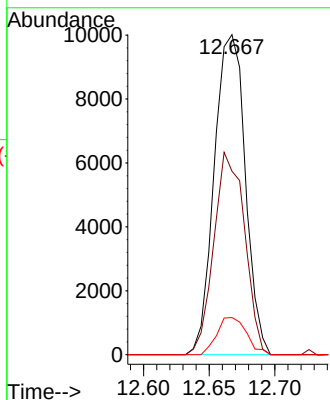
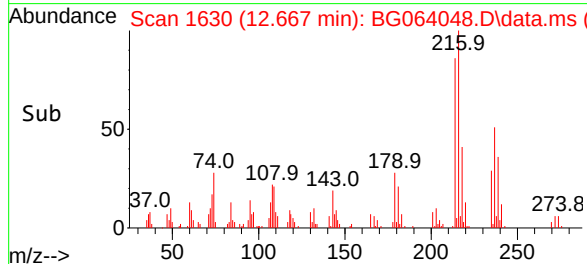
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



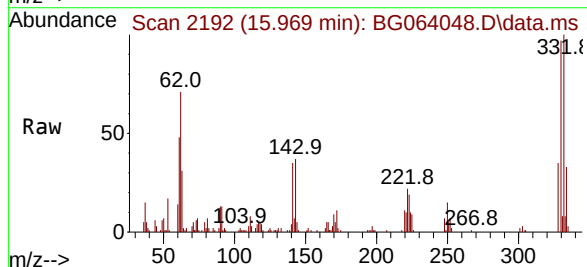
Tgt Ion:237 Resp: 16470  
Ion Ratio Lower Upper  
237 100  
235 57.4 46.0 86.0  
272 11.6 0.0 32.8

Manual Integrations  
APPROVED

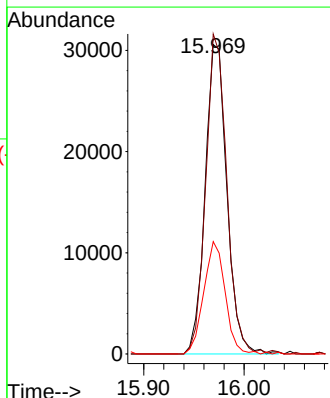
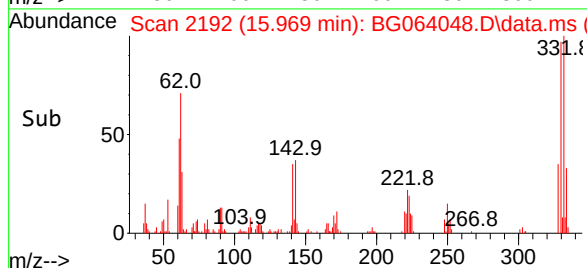
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

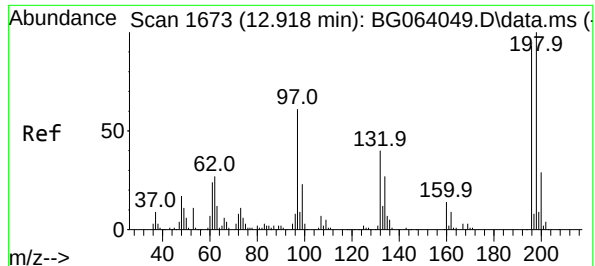


#42  
2,4,6-Tribromophenol  
Concen: 40.723 ng  
RT: 15.969 min Scan# 2192  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03



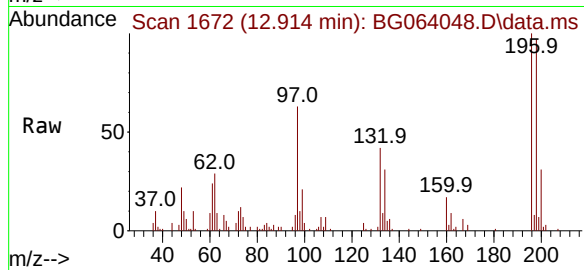
Tgt Ion:330 Resp: 46324  
Ion Ratio Lower Upper  
330 100  
332 99.8 76.7 115.1  
141 35.7 29.7 44.5





#43  
2,4,6-Trichlorophenol  
Concen: 20.264 ng  
RT: 12.914 min Scan# 1672  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

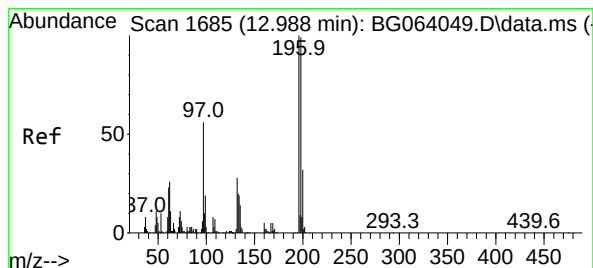
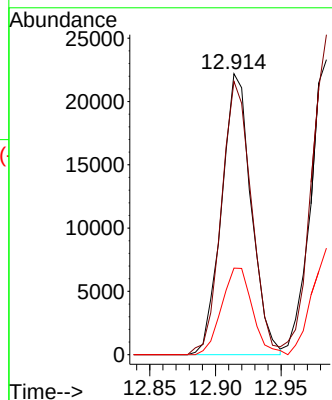
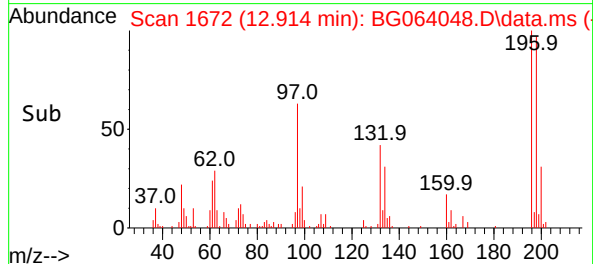
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:196 Resp: 3489  
Ion Ratio Lower Upper  
196 100  
198 97.3 85.6 128.4  
200 30.8 24.6 37.0

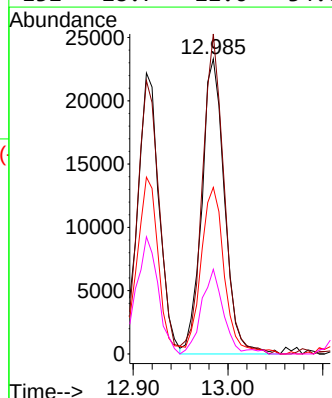
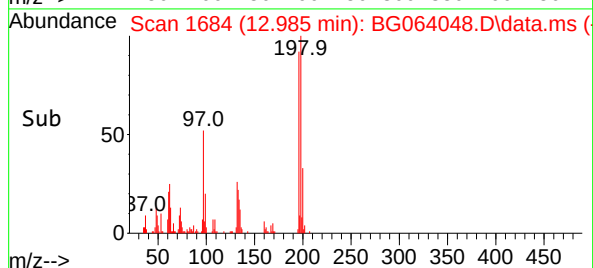
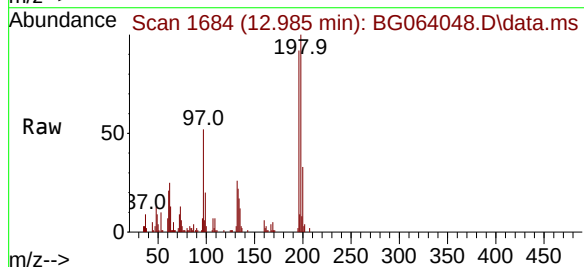
Manual Integrations  
APPROVED

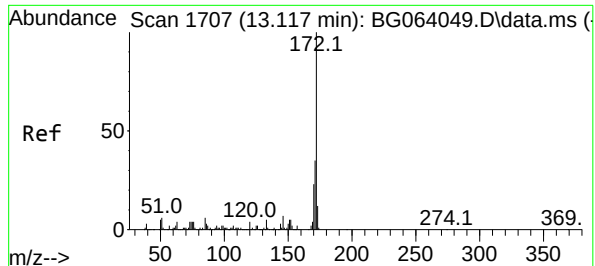
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#44  
2,4,5-Trichlorophenol  
Concen: 20.381 ng  
RT: 12.985 min Scan# 1684  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

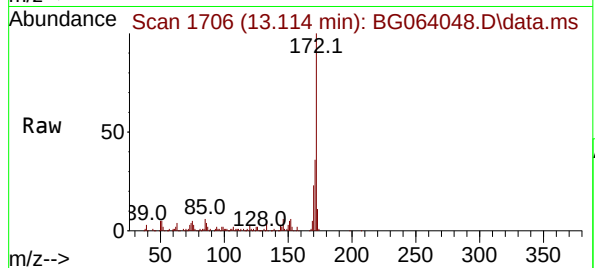
Tgt Ion:196 Resp: 38995  
Ion Ratio Lower Upper  
196 100  
198 108.4 79.5 119.3  
97 56.4 45.2 67.8  
132 28.7 22.6 34.0





#45  
2-Fluorobiphenyl  
Concen: 41.267 ng  
RT: 13.114 min Scan# 1707  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

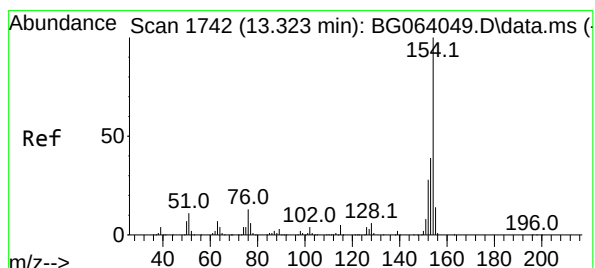
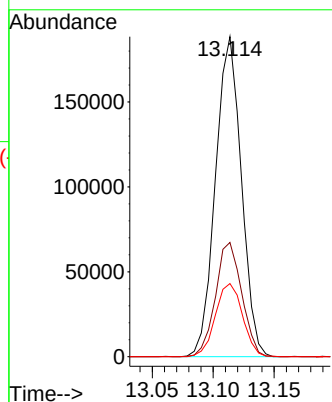
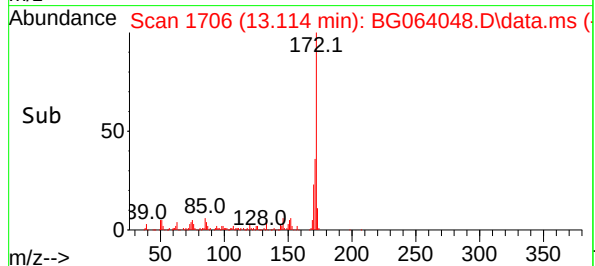
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:172 Resp: 278220  
Ion Ratio Lower Upper  
172 100  
171 35.7 28.0 42.0  
170 22.9 18.7 28.1

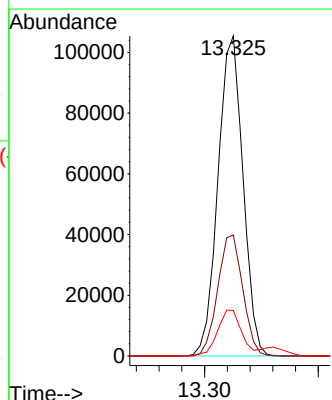
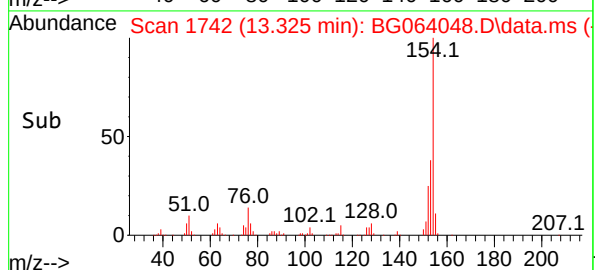
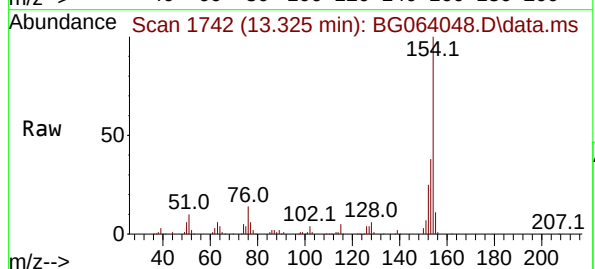
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

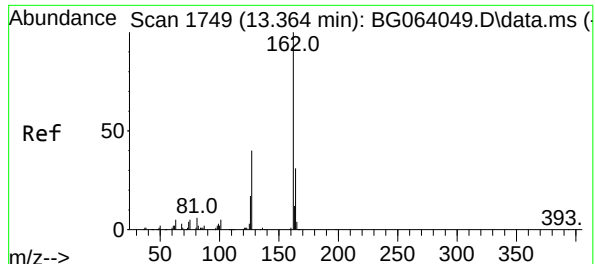


#46  
1,1'-Biphenyl  
Concen: 20.803 ng  
RT: 13.325 min Scan# 1742  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion:154 Resp: 160835  
Ion Ratio Lower Upper  
154 100  
153 37.8 19.5 59.5  
76 14.2 0.0 33.5







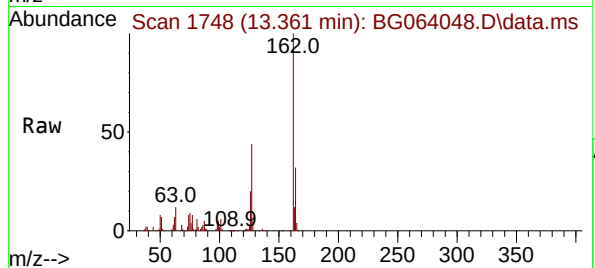
#47  
2-Chloronaphthalene  
Concen: 19.971 ng  
RT: 13.361 min Scan# 1748  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Instrument :

BNA\_G

ClientSampleId :

SSTDICC020

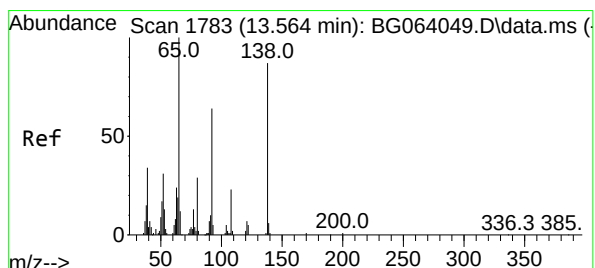
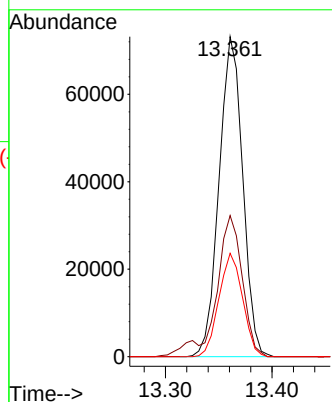
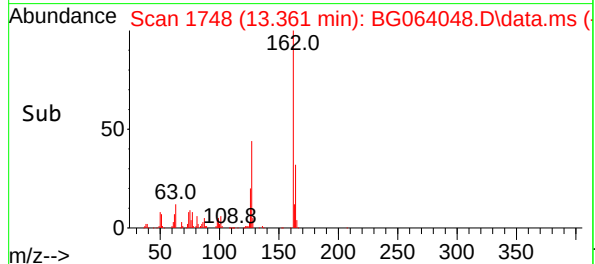


Tgt Ion:162 Resp: 11261  
Ion Ratio Lower Upper  
162 100  
127 44.1 35.0 52.4  
164 32.3 25.0 37.6

Manual Integrations

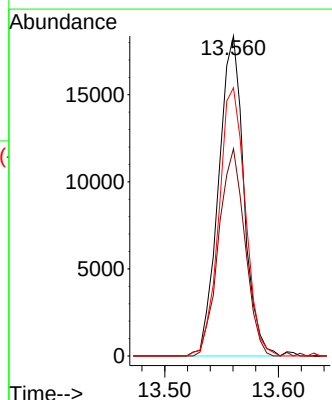
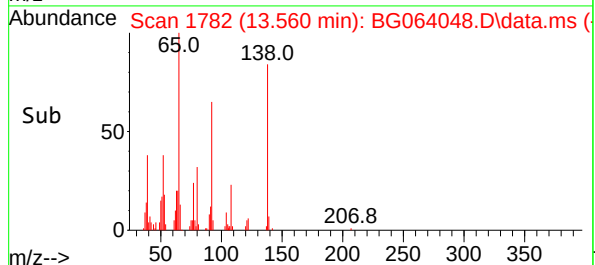
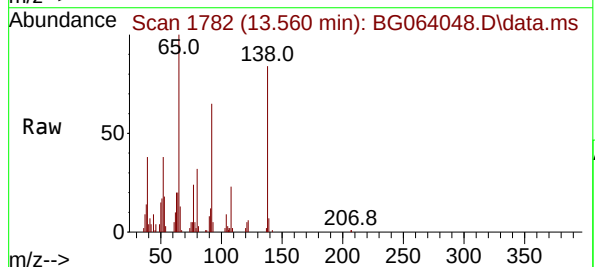
APPROVED

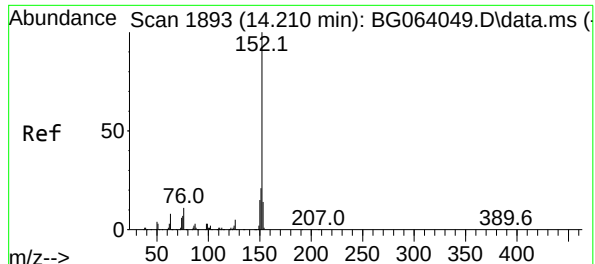
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#48  
2-Nitroaniline  
Concen: 18.684 ng  
RT: 13.560 min Scan# 1782  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion: 65 Resp: 28373  
Ion Ratio Lower Upper  
65 100  
92 64.8 51.2 76.8  
138 83.8 69.4 104.2





#49

Acenaphthylene

Concen: 20.571 ng

RT: 14.207 min Scan# 1892

Delta R.T. -0.004 min

Lab File: BG064048.D

Acq: 5 Mar 2025 11:03

Instrument :

BNA\_G

ClientSampleId :

SSTDICC020

Tgt Ion:152 Resp: 183469

Ion Ratio Lower Upper

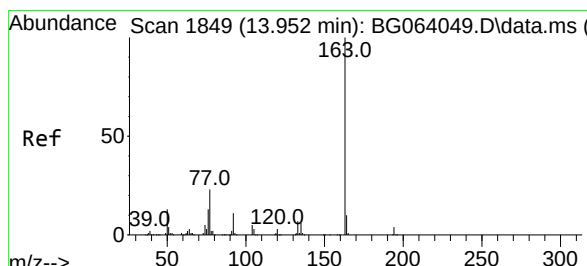
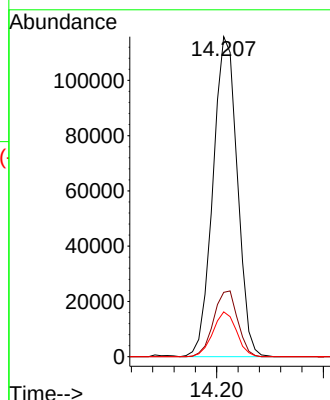
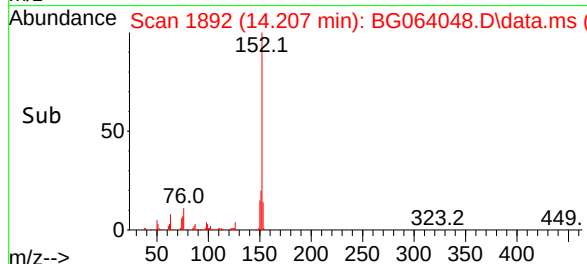
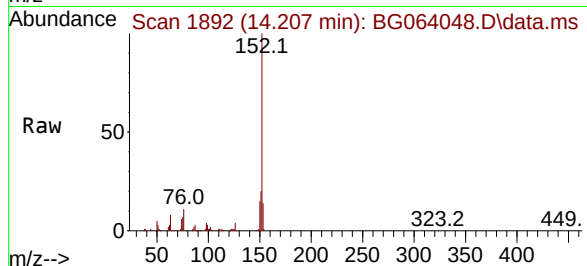
152 100

151 20.1 16.4 24.6

153 14.0 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#50

Dimethylphthalate

Concen: 21.114 ng

RT: 13.948 min Scan# 1848

Delta R.T. -0.004 min

Lab File: BG064048.D

Acq: 5 Mar 2025 11:03

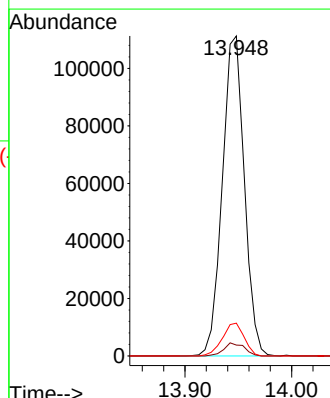
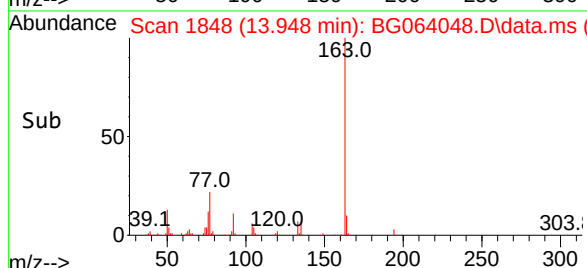
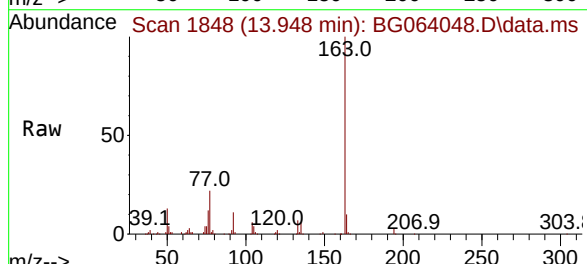
Tgt Ion:163 Resp: 159500

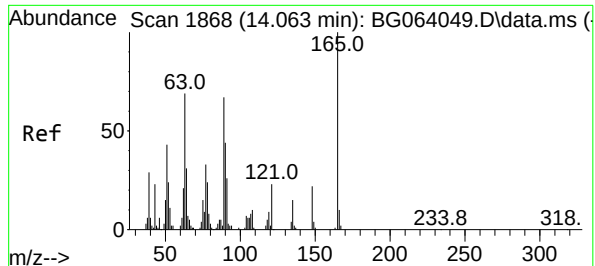
Ion Ratio Lower Upper

163 100

194 3.4 2.8 4.2

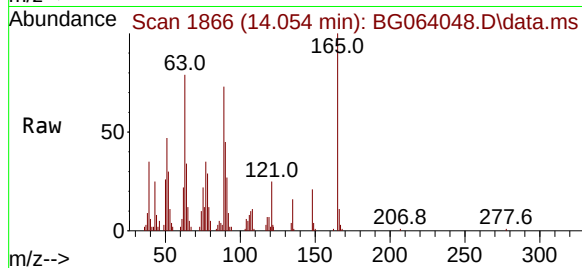
164 10.3 8.2 12.2





#51  
2,6-Dinitrotoluene  
Concen: 19.614 ng  
RT: 14.054 min Scan# 1866  
Delta R.T. -0.009 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

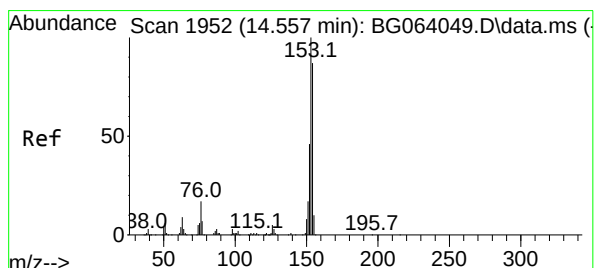
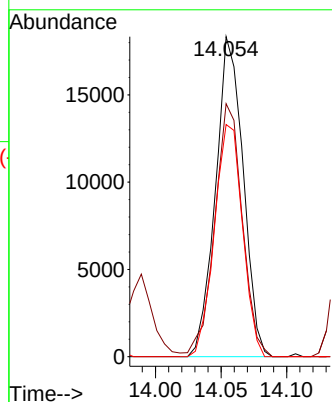
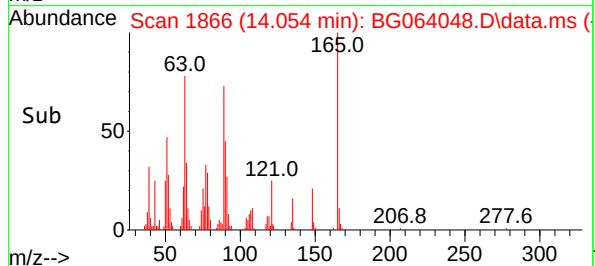
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:165 Resp: 2678  
Ion Ratio Lower Upper  
165 100  
63 79.1 56.7 85.1  
89 72.5 53.7 80.5

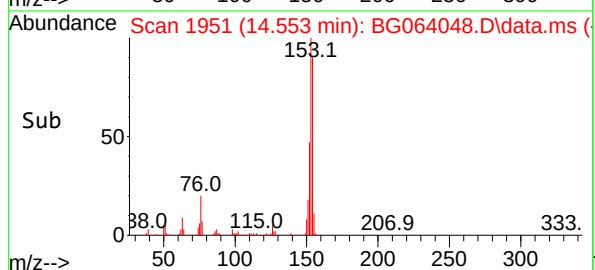
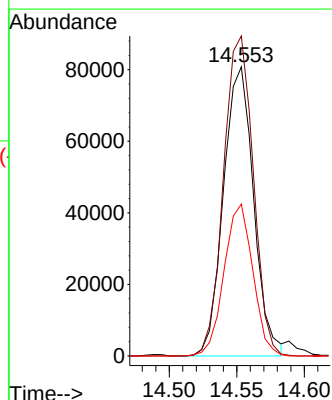
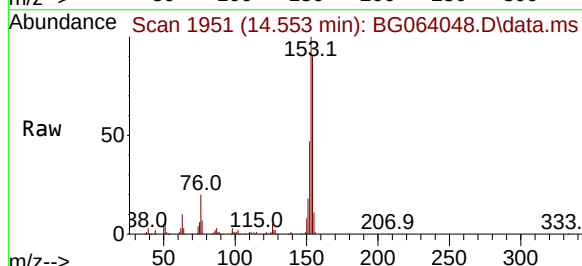
Manual Integrations  
APPROVED

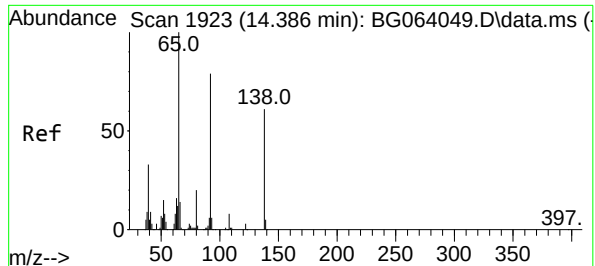
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#52  
Acenaphthene  
Concen: 20.997 ng m  
RT: 14.553 min Scan# 1951  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion:154 Resp: 125939  
Ion Ratio Lower Upper  
154 100  
153 110.7 91.6 137.4  
152 52.5 42.5 63.7





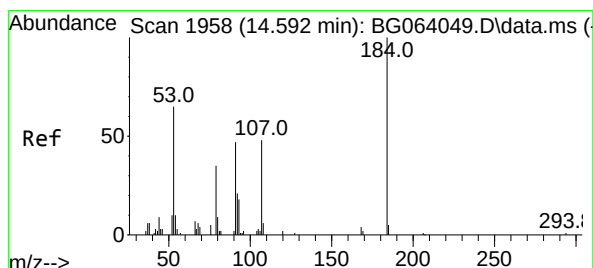
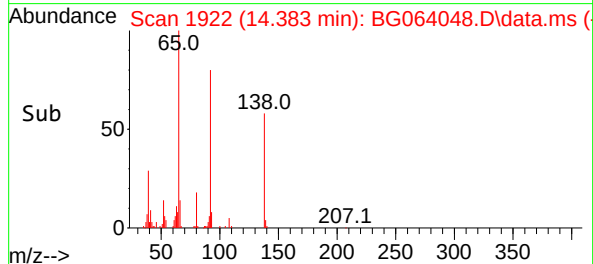
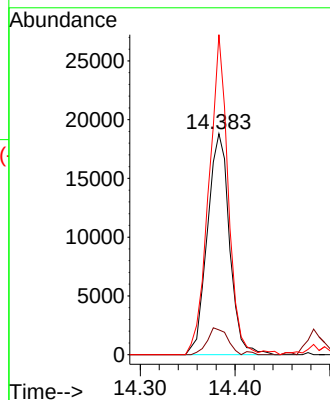
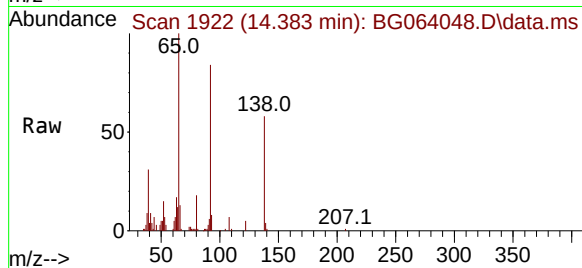
#53  
3-Nitroaniline  
Concen: 20.902 ng  
RT: 14.383 min Scan# 1922  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020

Tgt Ion:138 Resp: 3051  
Ion Ratio Lower Upper  
138 100  
108 11.2 10.1 15.1  
92 144.8 104.1 156.1

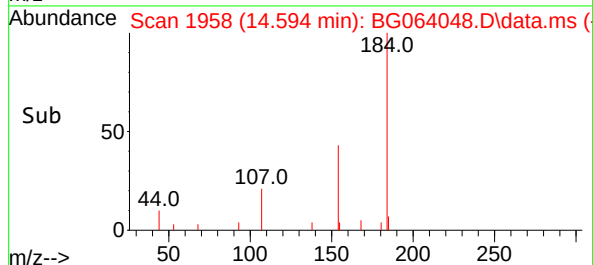
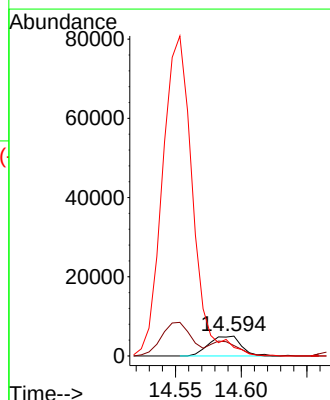
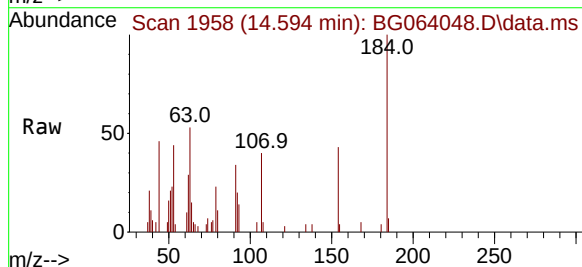
Manual Integrations  
APPROVED

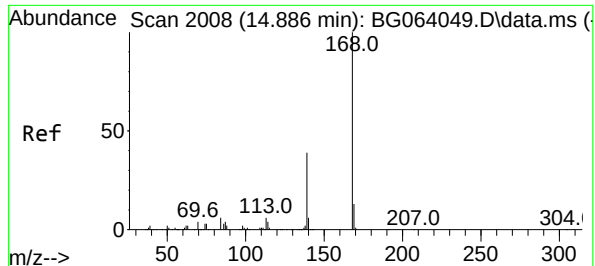
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#54  
2,4-Dinitrophenol  
Concen: 19.958 ng  
RT: 14.594 min Scan# 1958  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

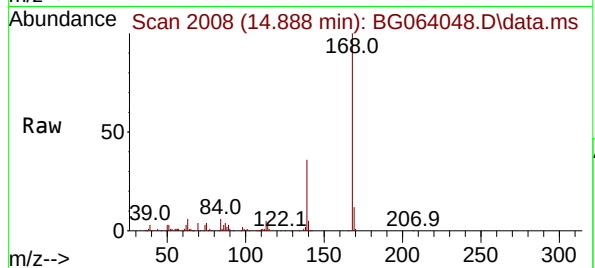
Tgt Ion:184 Resp: 8560  
Ion Ratio Lower Upper  
184 100  
63 52.7 57.5 86.3#  
154 42.8 52.3 78.5#





#55  
Dibenzenofuran  
Concen: 20.856 ng  
RT: 14.888 min Scan# 2008  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

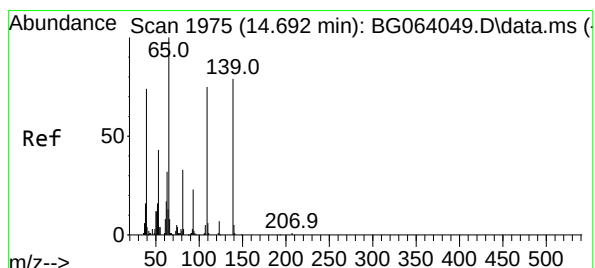
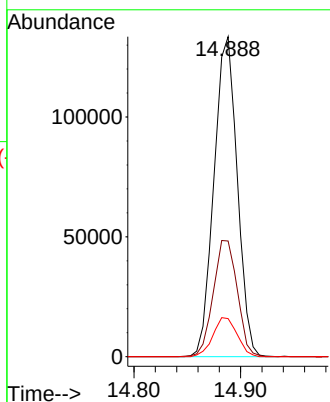
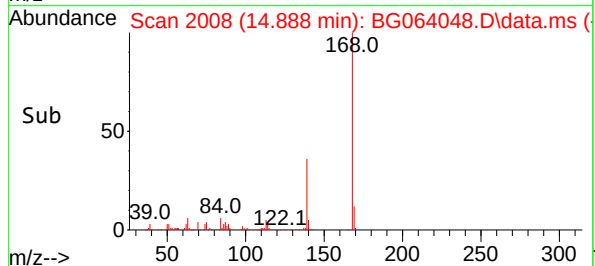
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:168 Resp: 202235  
Ion Ratio Lower Upper  
168 100  
139 36.2 31.1 46.7  
169 11.9 10.5 15.7

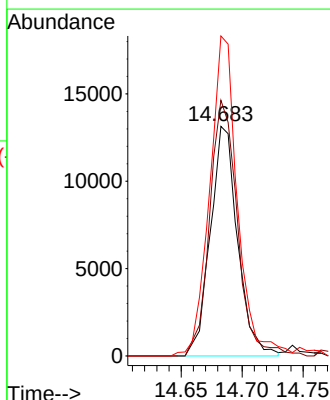
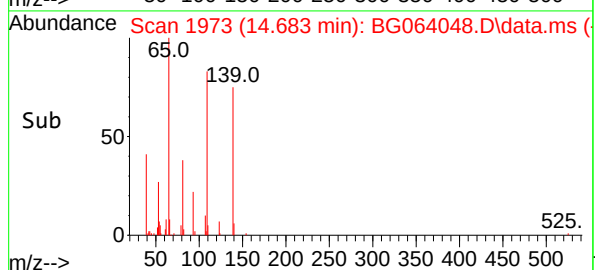
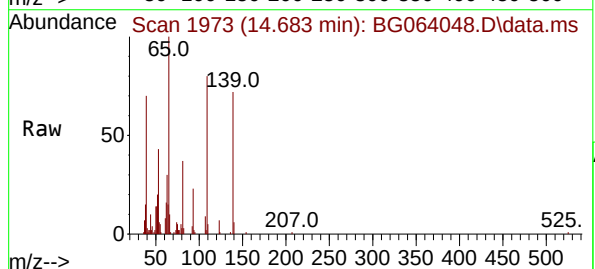
Manual Integrations  
APPROVED

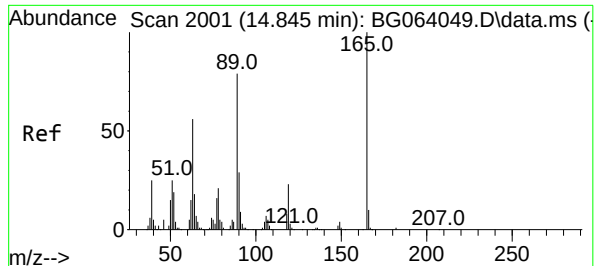
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#56  
4-Nitrophenol  
Concen: 16.681 ng  
RT: 14.683 min Scan# 1973  
Delta R.T. -0.009 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

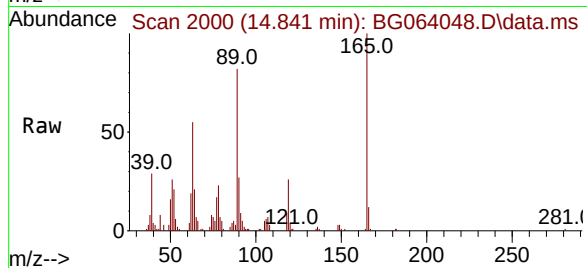
Tgt Ion:139 Resp: 20425  
Ion Ratio Lower Upper  
139 100  
109 111.3 74.9 114.9  
65 139.3 106.8 146.8





#57  
2,4-Dinitrotoluene  
Concen: 19.015 ng  
RT: 14.841 min Scan# 2001  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

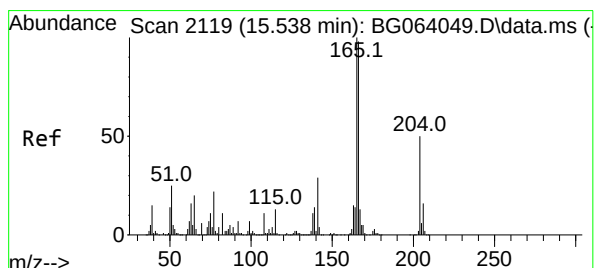
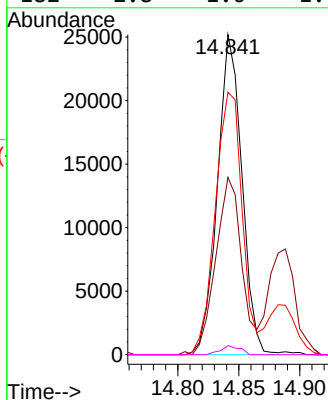
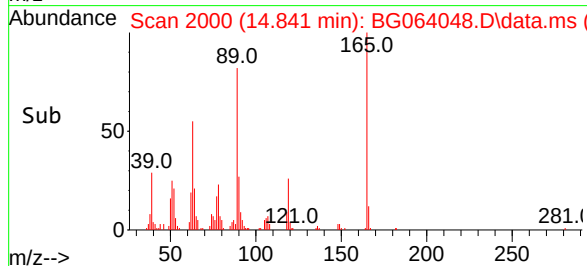
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:165 Resp: 35172  
Ion Ratio Lower Upper  
165 100  
63 55.4 45.0 67.6  
89 82.0 63.1 94.7  
182 2.8 1.0 1.4#

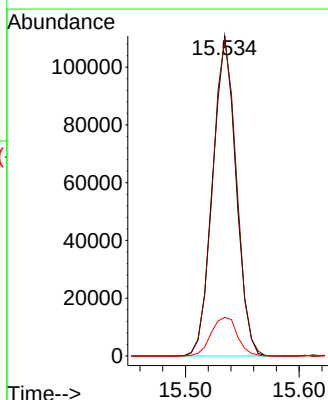
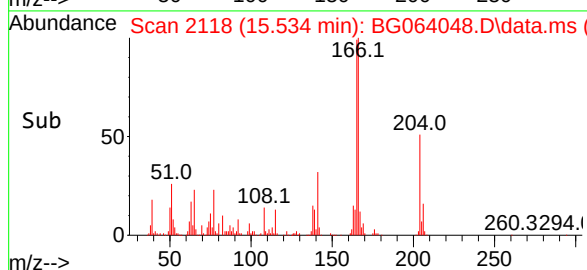
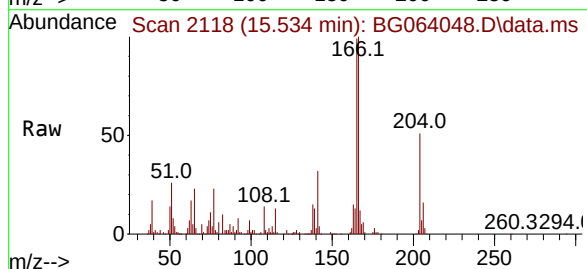
Manual Integrations  
APPROVED

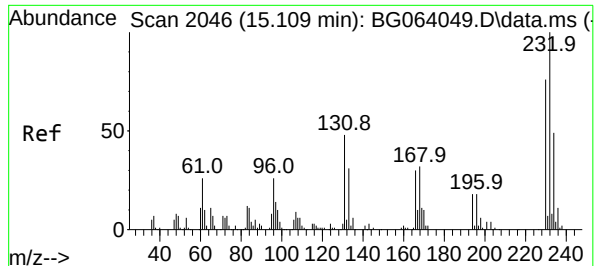
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#58  
Fluorene  
Concen: 20.894 ng  
RT: 15.534 min Scan# 2118  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

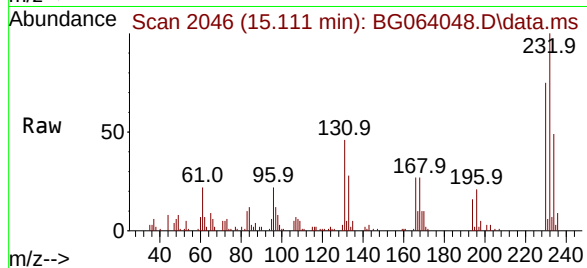
Tgt Ion:166 Resp: 157795  
Ion Ratio Lower Upper  
166 100  
165 99.0 81.8 122.8  
167 12.0 10.8 16.2





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 21.310 ng  
RT: 15.111 min Scan# 2046  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

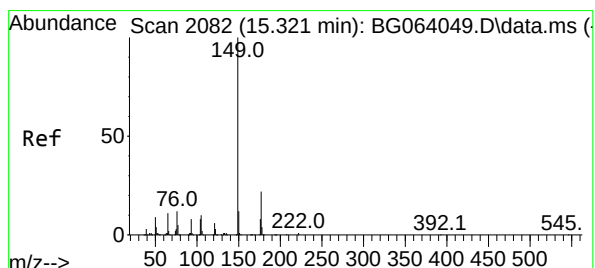
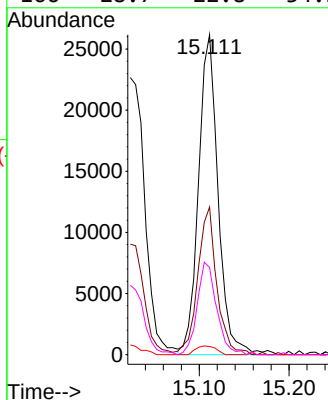
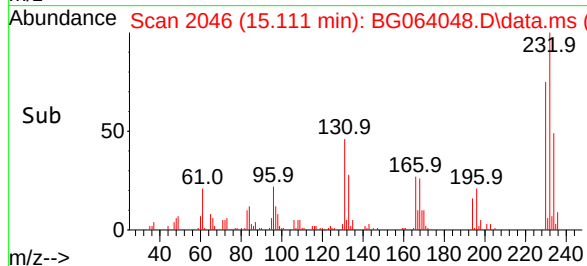
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:232 Resp: 3974  
Ion Ratio Lower Upper  
232 100  
131 44.8 36.3 54.5  
130 2.8 1.9 2.9  
166 28.7 22.8 34.2

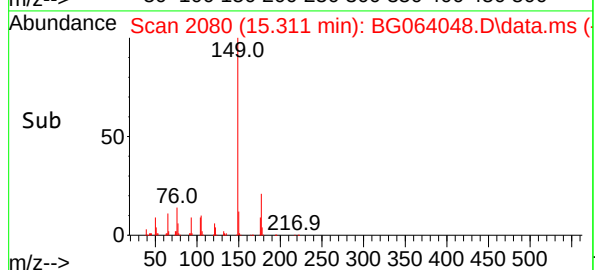
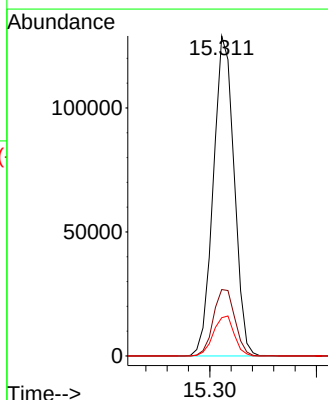
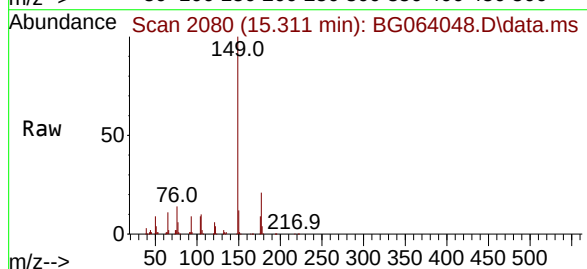
Manual Integrations  
APPROVED

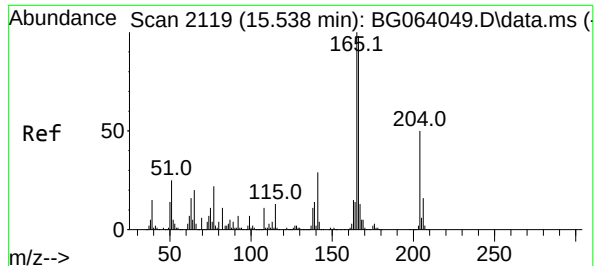
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#60  
Diethylphthalate  
Concen: 21.324 ng  
RT: 15.311 min Scan# 2080  
Delta R.T. -0.009 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

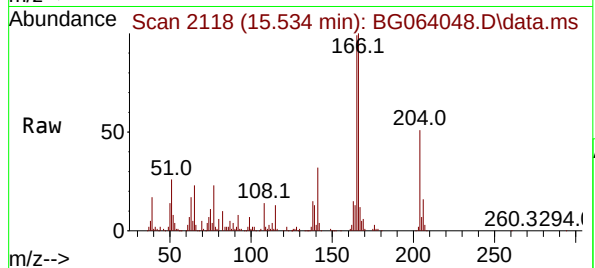
Tgt Ion:149 Resp: 174872  
Ion Ratio Lower Upper  
149 100  
177 20.7 17.4 26.2  
150 12.0 9.4 14.2





#61  
4-Chlorophenyl-phenylether  
Concen: 21.477 ng  
RT: 15.534 min Scan# 2118  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

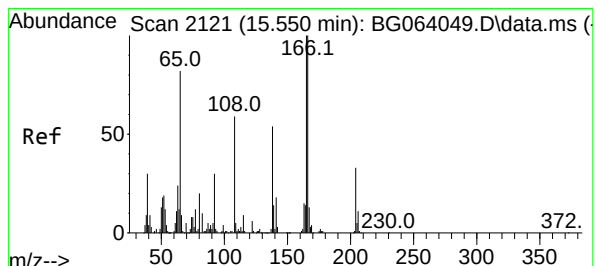
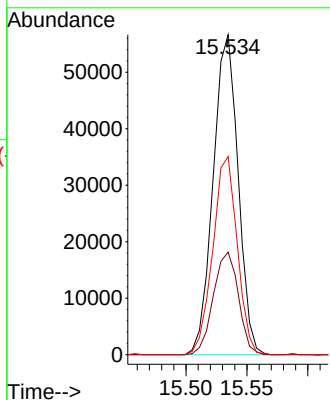
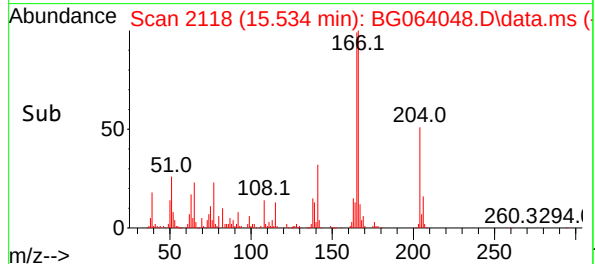
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:204 Resp: 8060  
Ion Ratio Lower Upper  
204 100  
206 32.0 25.5 38.3  
141 61.9 45.4 68.0

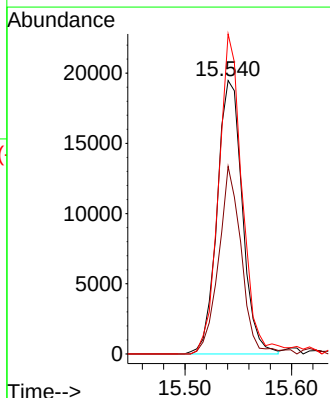
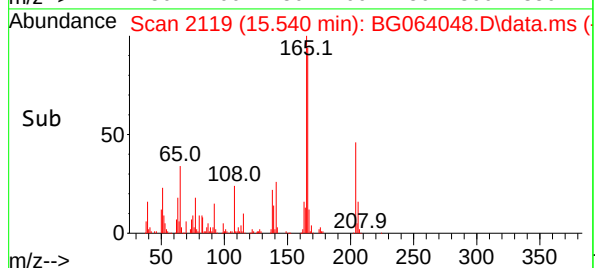
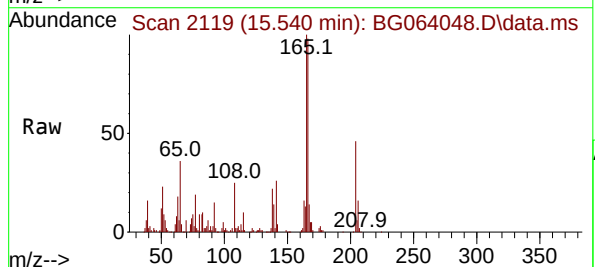
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

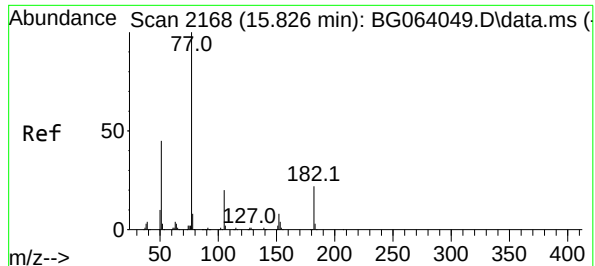


#62  
4-Nitroaniline  
Concen: 20.301 ng  
RT: 15.540 min Scan# 2119  
Delta R.T. -0.009 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion:138 Resp: 32000  
Ion Ratio Lower Upper  
138 100  
92 68.6 36.1 76.1  
108 117.0 87.9 127.9

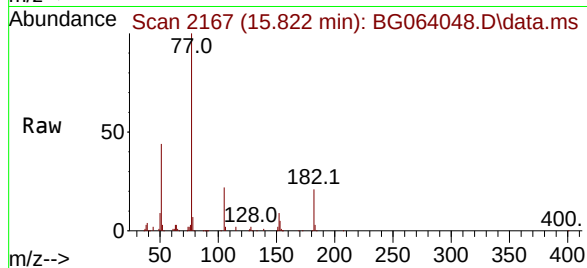






#63  
Azobenzene  
Concen: 20.868 ng  
RT: 15.822 min Scan# 2168  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

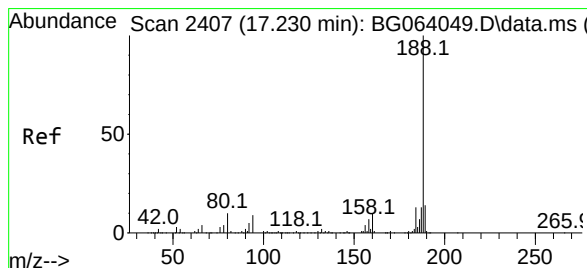
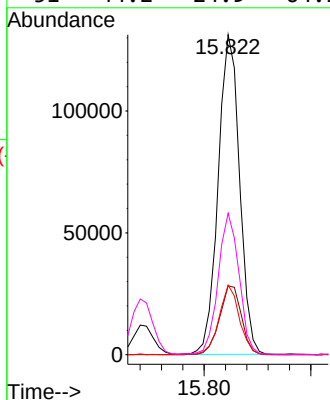
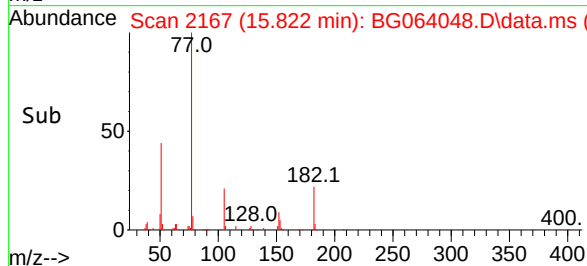
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



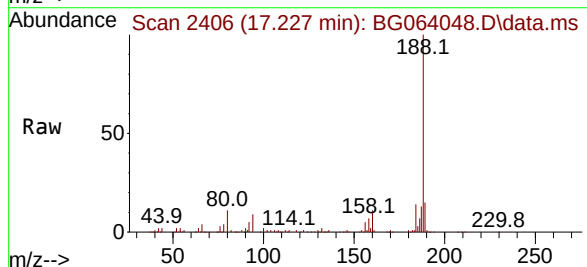
Tgt Ion: 77 Resp: 182618  
Ion Ratio Lower Upper  
77 100  
182 21.5 2.4 42.4  
105 21.7 0.0 40.0  
51 44.2 24.9 64.9

Manual Integrations  
APPROVED

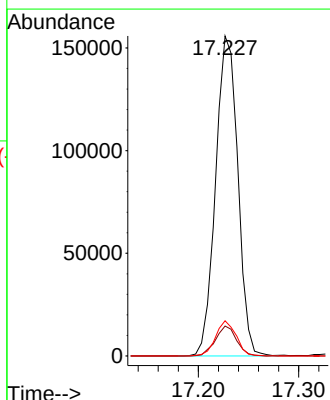
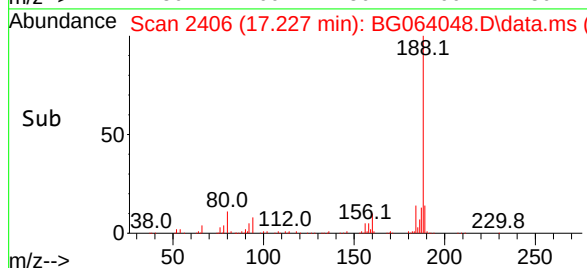
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

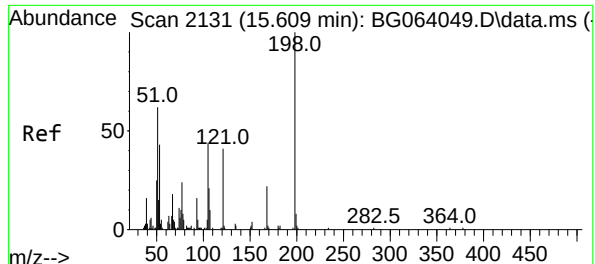


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.227 min Scan# 2406  
Delta R.T. -0.003 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03



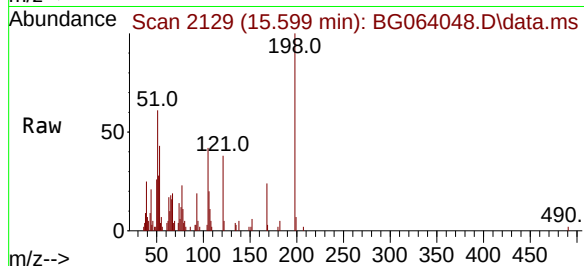
Tgt Ion:188 Resp: 239469  
Ion Ratio Lower Upper  
188 100  
94 9.4 6.9 10.3  
80 11.0 8.1 12.1





#65  
4,6-Dinitro-2-methylphenol  
Concen: 19.469 ng  
RT: 15.599 min Scan# 2129  
Delta R.T. -0.010 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

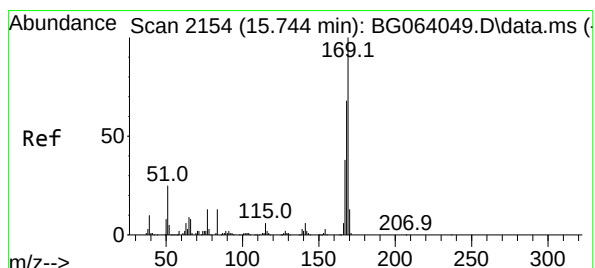
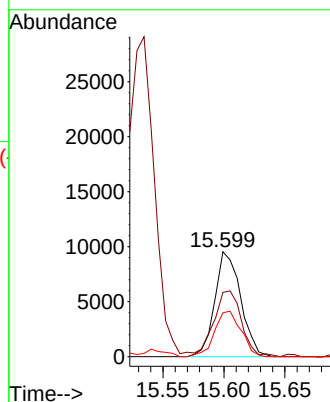
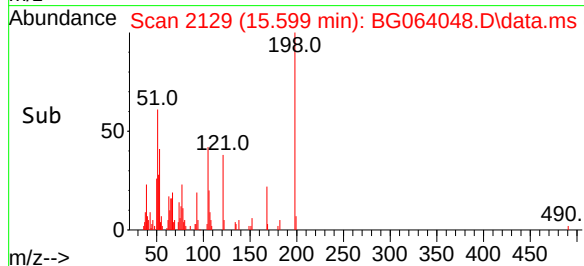
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:198 Resp: 14079  
Ion Ratio Lower Upper  
198 100  
51 61.3 45.6 85.6  
105 41.8 25.3 65.3

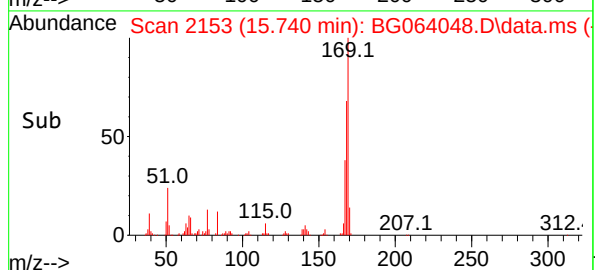
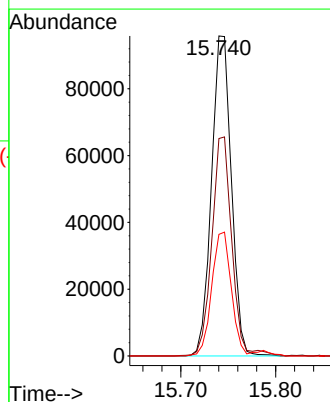
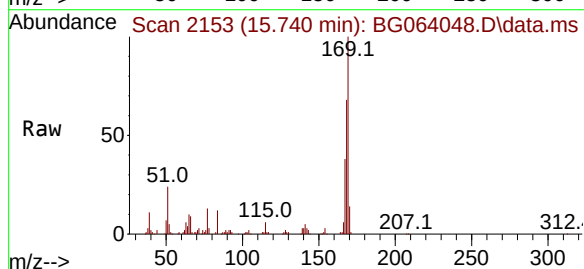
Manual Integrations  
APPROVED

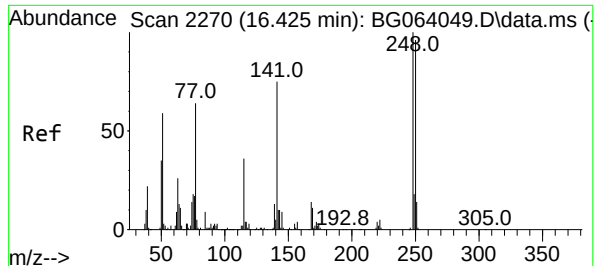
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#66  
n-Nitrosodiphenylamine  
Concen: 20.573 ng  
RT: 15.740 min Scan# 2153  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

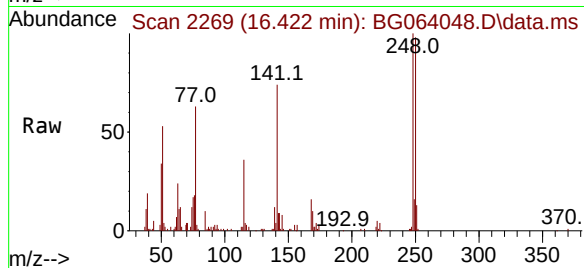
Tgt Ion:169 Resp: 139451  
Ion Ratio Lower Upper  
169 100  
168 68.0 54.1 81.1  
167 38.0 30.3 45.5





#67  
4-Bromophenyl-phenylether  
Concen: 20.740 ng  
RT: 16.422 min Scan# 21  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

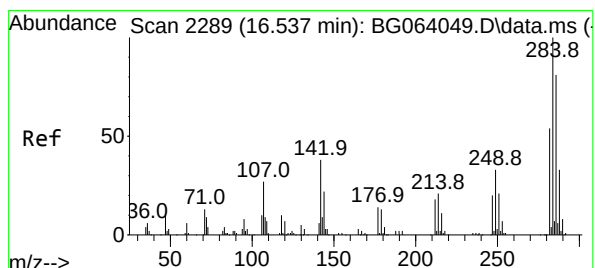
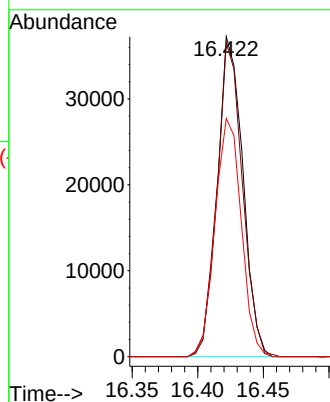
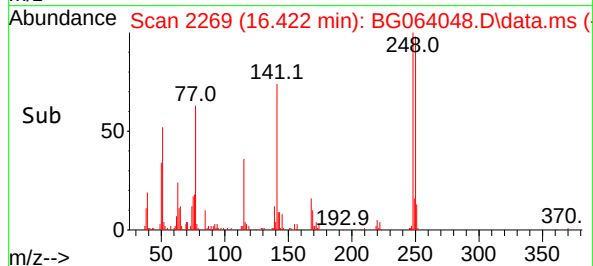
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



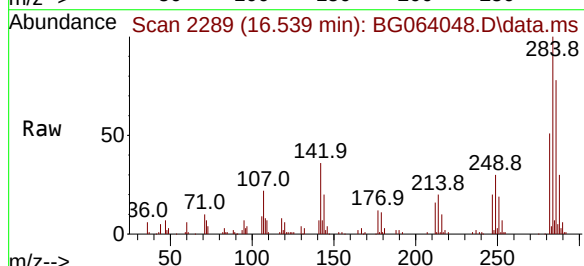
Tgt Ion:248 Resp: 5086  
Ion Ratio Lower Upper  
248 100  
250 98.1 77.1 115.7  
141 74.4 59.8 89.8

Manual Integrations  
APPROVED

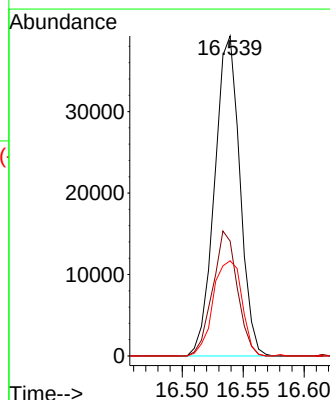
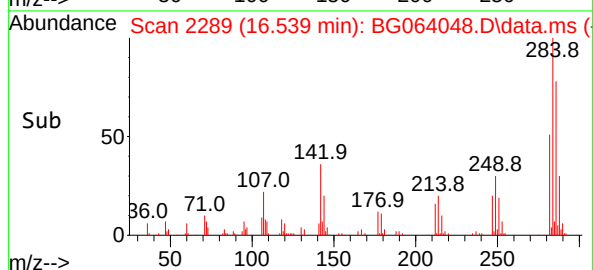
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

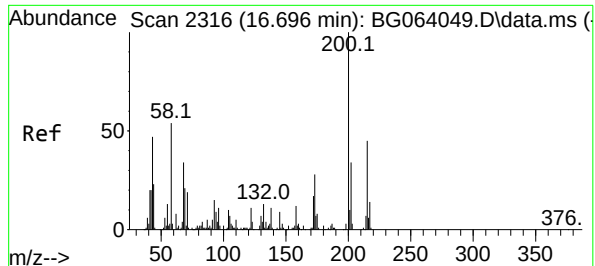


#68  
Hexachlorobenzene  
Concen: 20.591 ng  
RT: 16.539 min Scan# 2289  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03



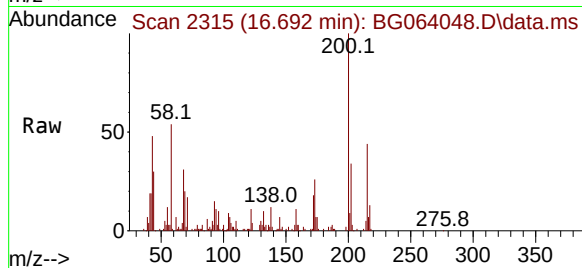
Tgt Ion:284 Resp: 56538  
Ion Ratio Lower Upper  
284 100  
142 35.9 30.6 45.8  
249 29.8 26.6 39.8





#69  
Atrazine  
Concen: 21.465 ng  
RT: 16.692 min Scan# 214  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

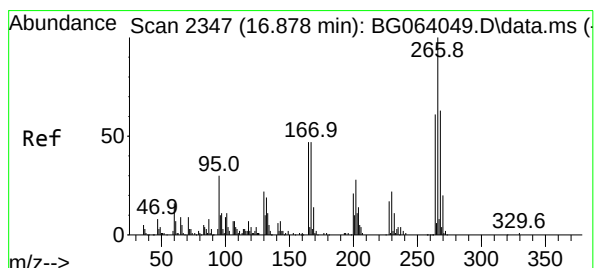
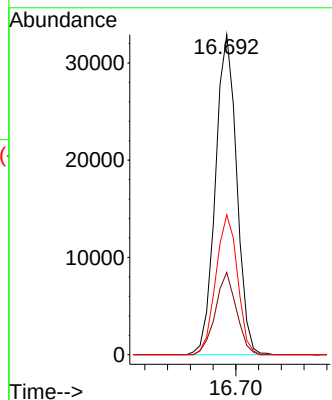
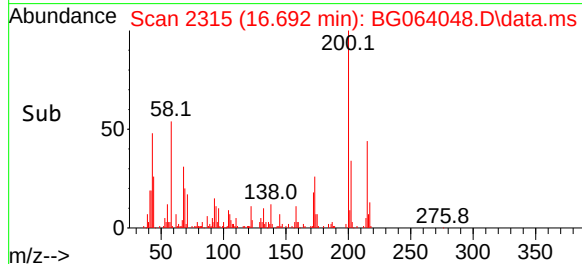
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:200 Resp: 42810  
Ion Ratio Lower Upper  
200 100  
173 25.7 8.2 48.2  
215 43.7 25.5 65.5

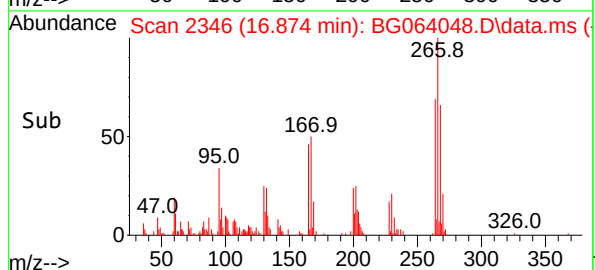
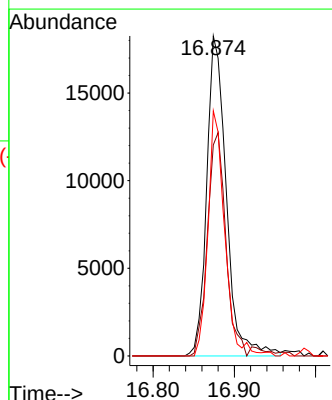
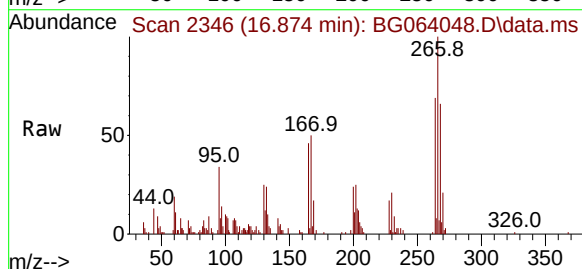
Manual Integrations  
APPROVED

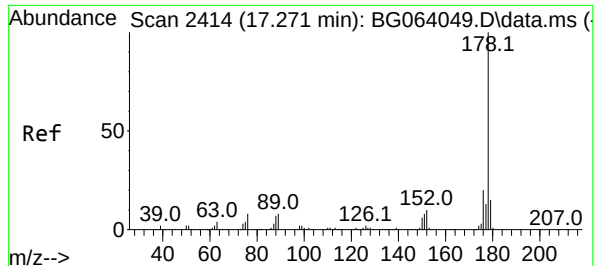
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#70  
Pentachlorophenol  
Concen: 17.926 ng  
RT: 16.874 min Scan# 2346  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

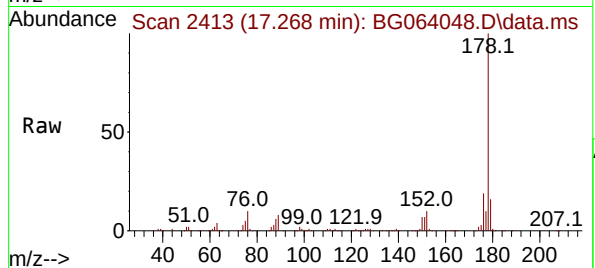
Tgt Ion:266 Resp: 30561  
Ion Ratio Lower Upper  
266 100  
268 65.9 50.2 75.4  
264 76.6 48.9 73.3#





#71  
Phenanthrene  
Concen: 20.813 ng  
RT: 17.268 min Scan# 2413  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

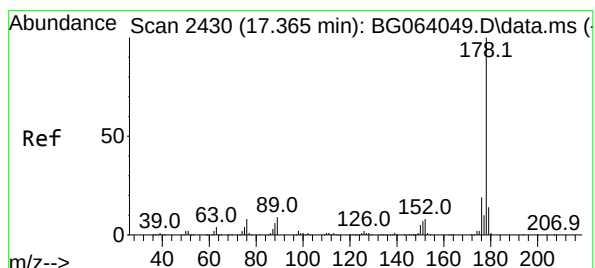
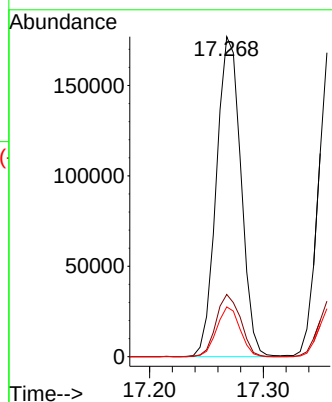
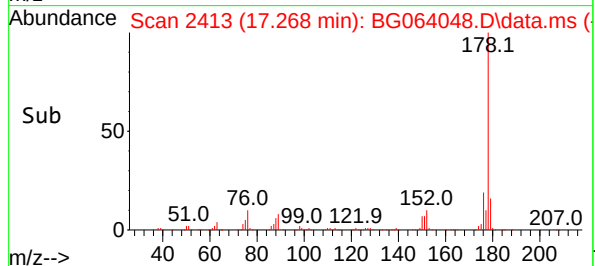
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



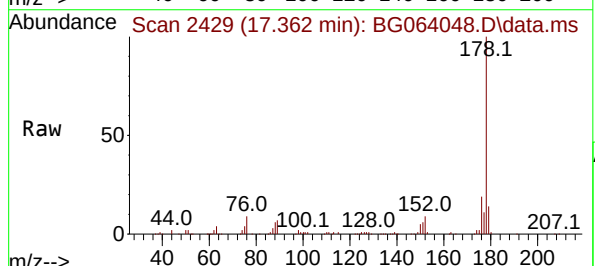
Tgt Ion:178 Resp: 26584  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.9 23.9  
179 15.6 12.2 18.2

Manual Integrations  
APPROVED

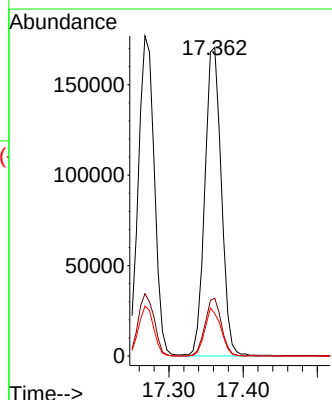
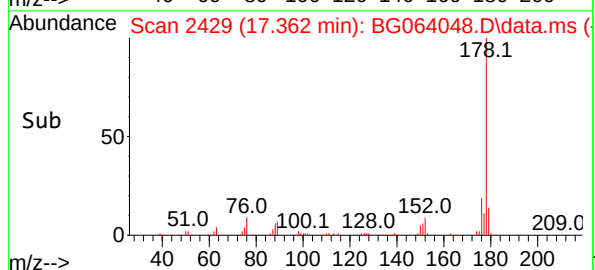
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

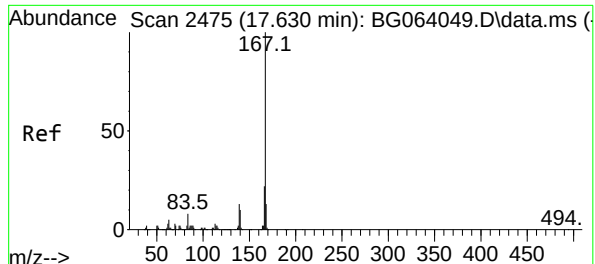


#72  
Anthracene  
Concen: 20.814 ng  
RT: 17.362 min Scan# 2429  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03



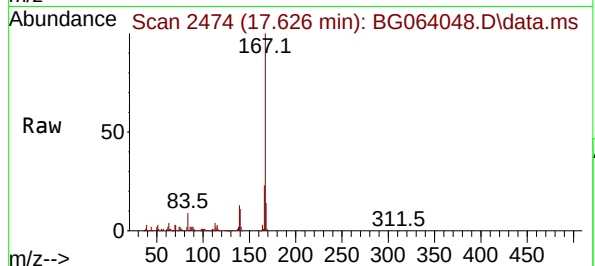
Tgt Ion:178 Resp: 264350  
Ion Ratio Lower Upper  
178 100  
176 18.8 14.8 22.2  
179 13.7 11.5 17.3





#73  
Carbazole  
Concen: 20.591 ng  
RT: 17.626 min Scan# 2475  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

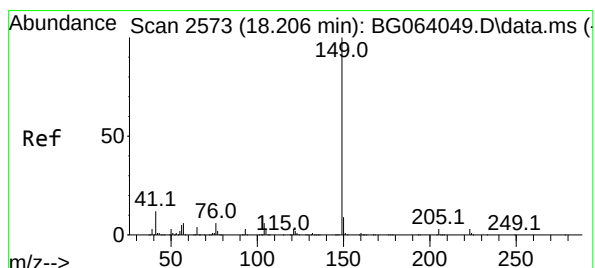
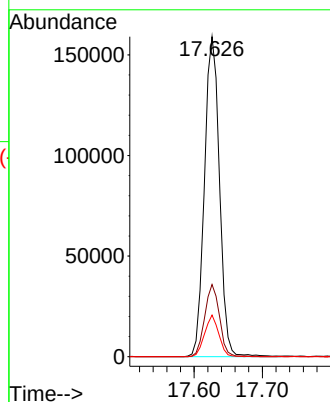
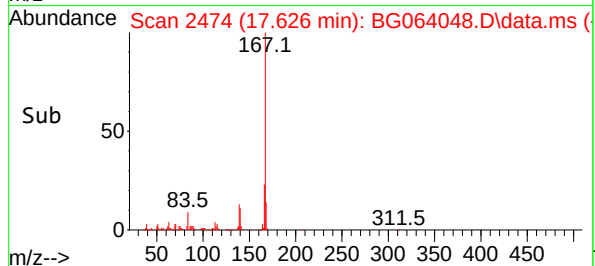
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:167 Resp: 244169  
Ion Ratio Lower Upper  
167 100  
166 22.6 18.0 27.0  
139 13.0 10.6 15.8

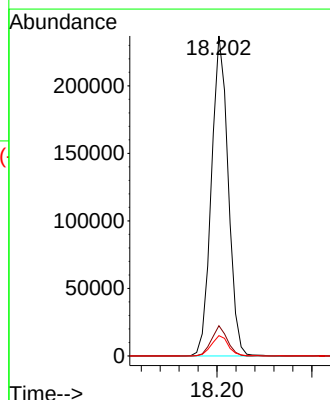
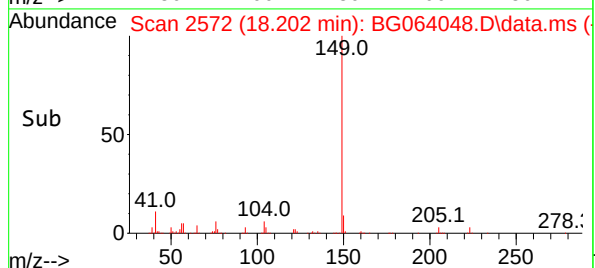
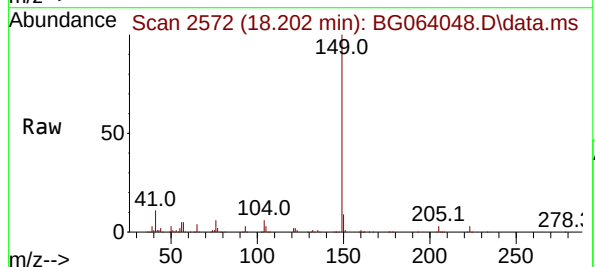
Manual Integrations  
APPROVED

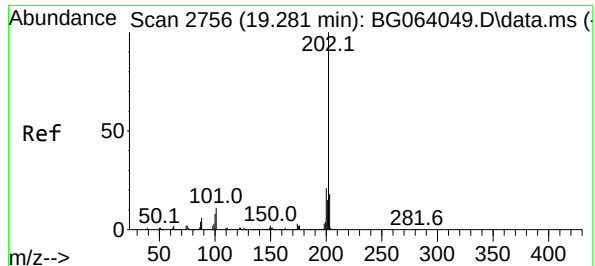
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#74  
Di-n-butylphthalate  
Concen: 20.812 ng  
RT: 18.202 min Scan# 2572  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

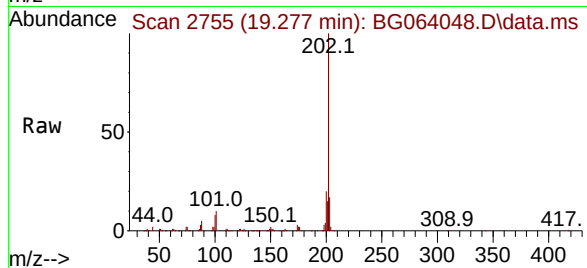
Tgt Ion:149 Resp: 290500  
Ion Ratio Lower Upper  
149 100  
150 9.4 7.4 11.0  
104 6.3 5.0 7.6





#75  
Fluoranthene  
Concen: 20.776 ng  
RT: 19.277 min Scan# 21  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

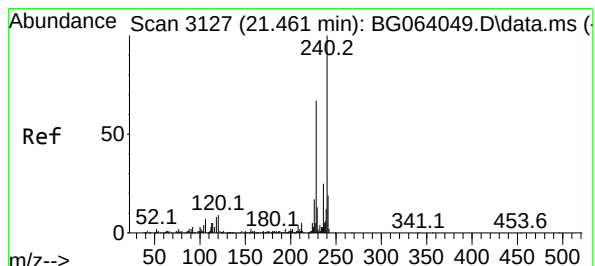
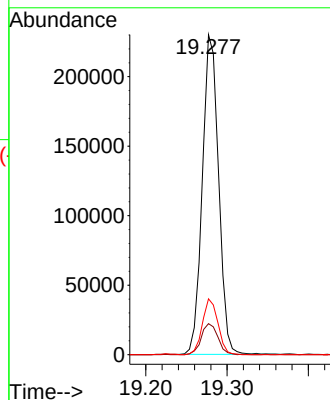
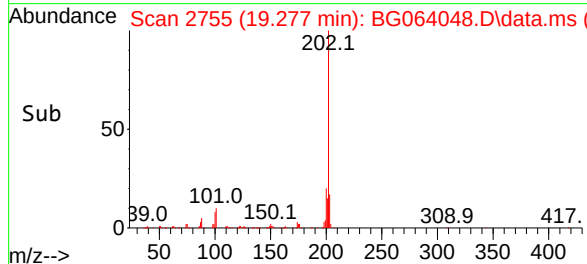
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:202 Resp: 31991  
Ion Ratio Lower Upper  
202 100  
101 9.7 0.0 30.5  
203 17.4 0.0 38.3

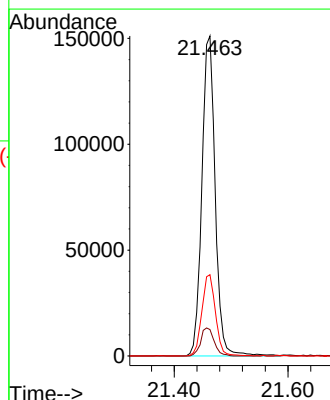
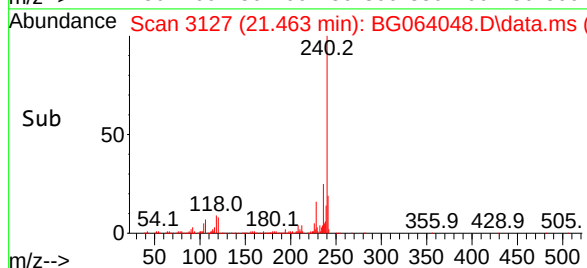
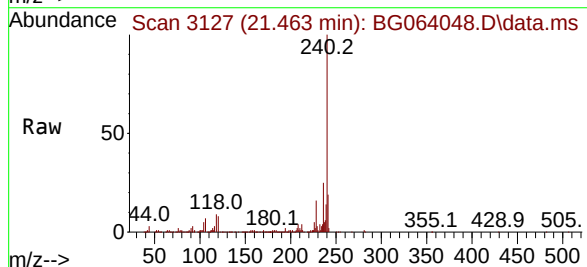
Manual Integrations  
APPROVED

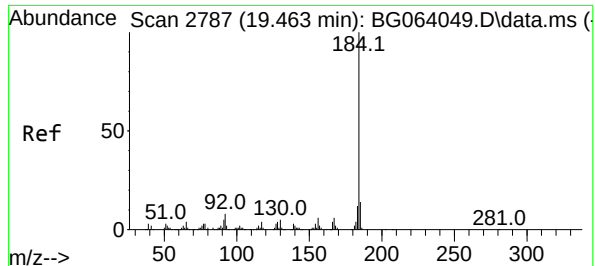
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.463 min Scan# 3127  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

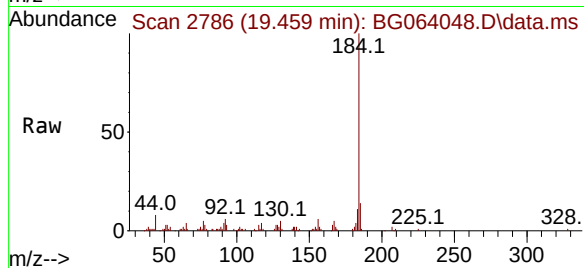
Tgt Ion:240 Resp: 245725  
Ion Ratio Lower Upper  
240 100  
120 8.3 7.2 10.8  
236 25.4 20.2 30.2





#77  
Benzidine  
Concen: 16.960 ng  
RT: 19.459 min Scan# 21  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

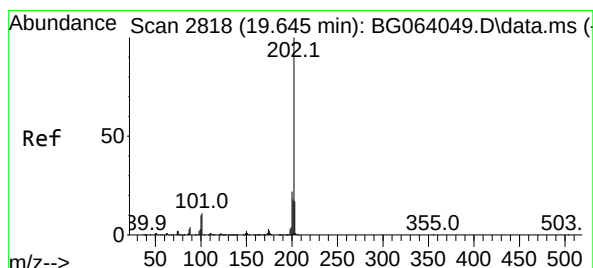
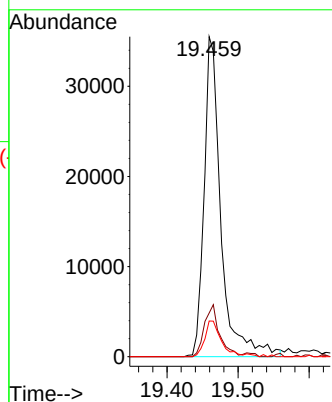
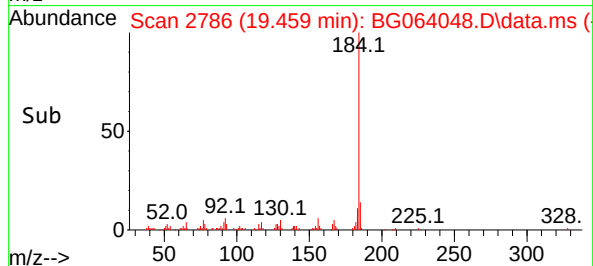
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:184 Resp: 58504  
Ion Ratio Lower Upper  
184 100  
185 13.7 11.3 16.9  
183 11.2 9.5 14.3

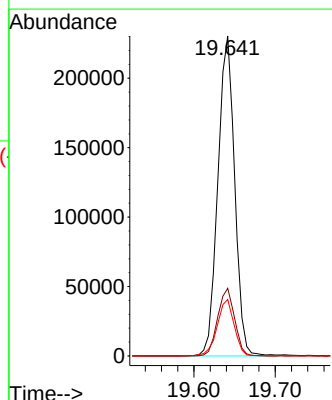
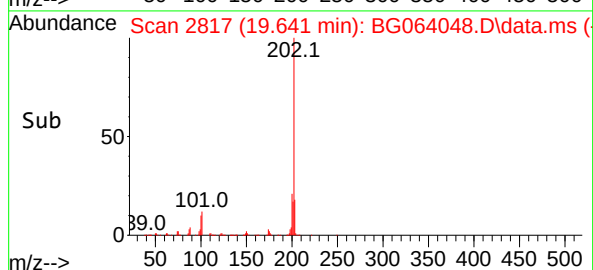
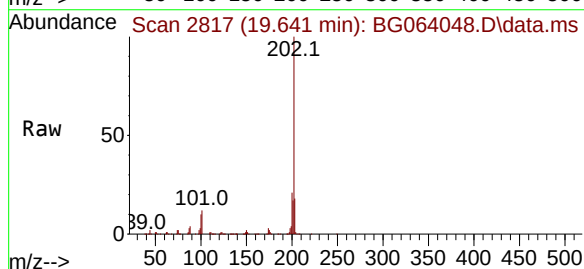
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

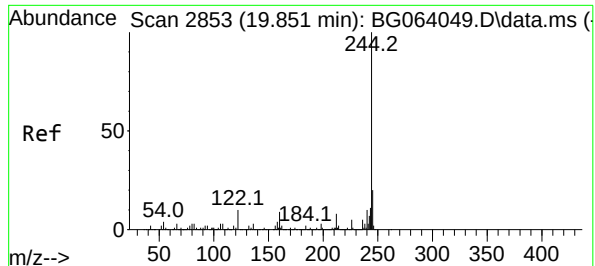


#78  
Pyrene  
Concen: 20.950 ng  
RT: 19.641 min Scan# 2817  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion:202 Resp: 331849  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.3 25.9  
203 17.7 13.6 20.4







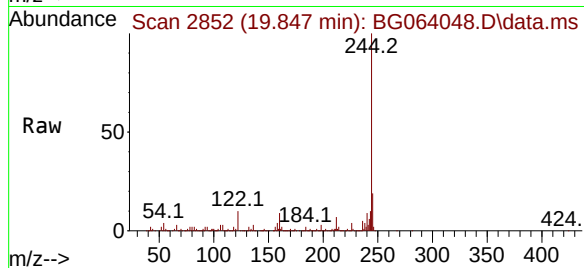
#79  
Terphenyl-d14  
Concen: 42.936 ng  
RT: 19.847 min Scan# 2853  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Instrument :

BNA\_G

ClientSampleId :

SSTDICC020

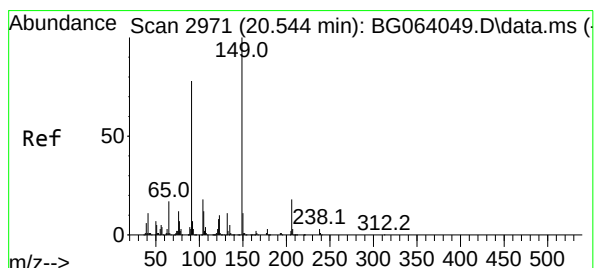
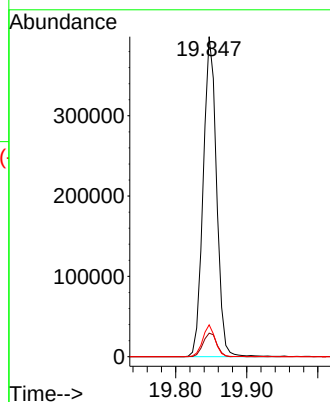
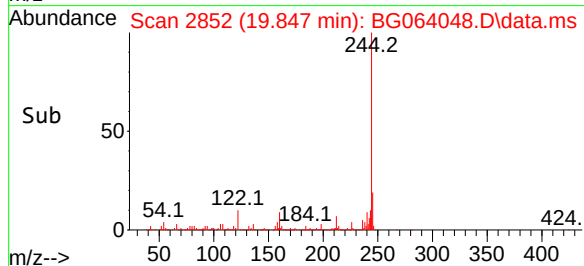


Tgt Ion:244 Resp: 521784  
Ion Ratio Lower Upper  
244 100  
212 7.4 6.2 9.4  
122 10.0 8.0 12.0

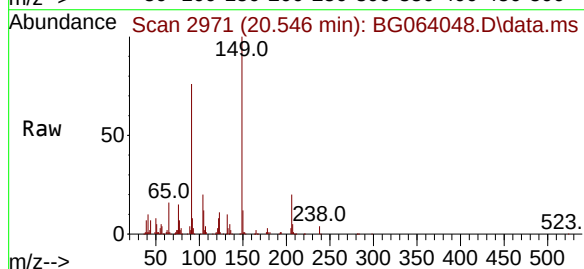
Manual Integrations

APPROVED

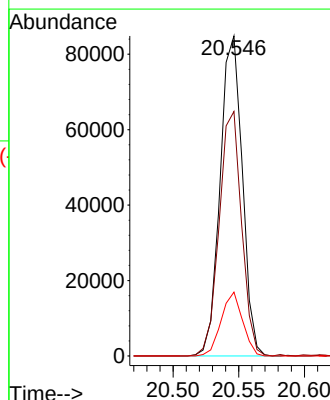
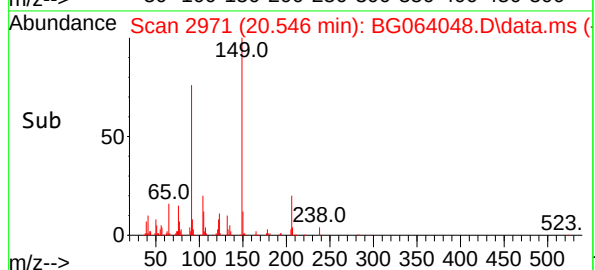
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

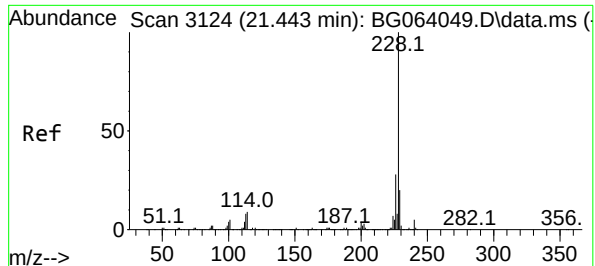


#80  
Butylbenzylphthalate  
Concen: 19.098 ng  
RT: 20.546 min Scan# 2971  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03



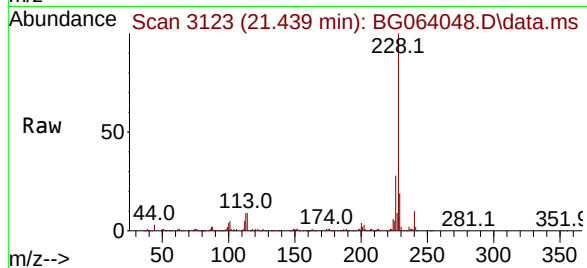
Tgt Ion:149 Resp: 99429  
Ion Ratio Lower Upper  
149 100  
91 76.4 62.0 93.0  
206 20.0 14.6 21.8





#81  
Benzo(a)anthracene  
Concen: 20.443 ng  
RT: 21.439 min Scan# 3110  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

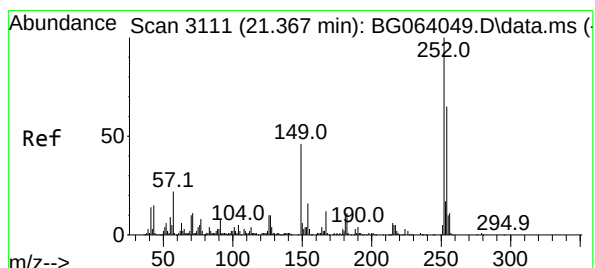
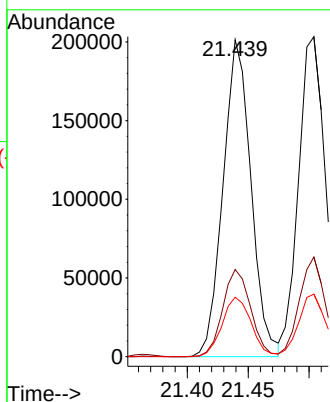
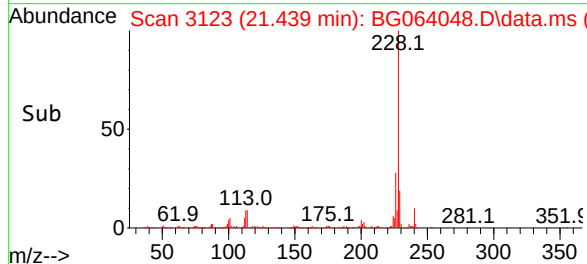
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:228 Resp: 32177  
Ion Ratio Lower Upper  
228 100  
226 27.5 22.2 33.2  
229 18.8 16.4 24.6

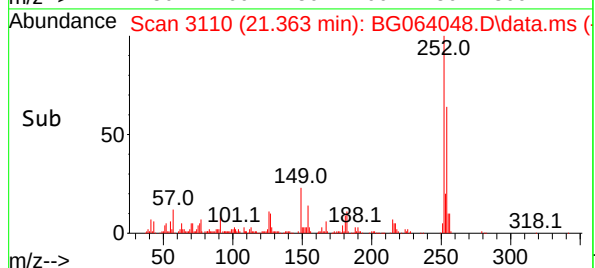
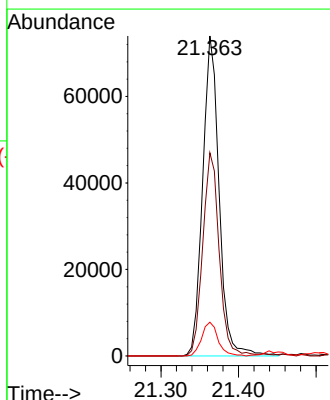
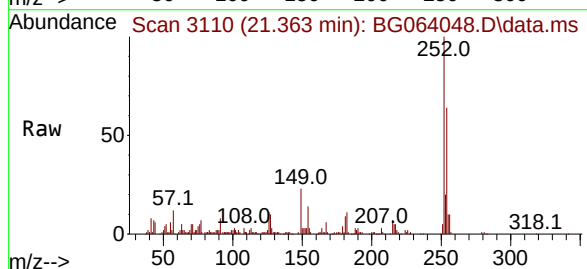
Manual Integrations  
APPROVED

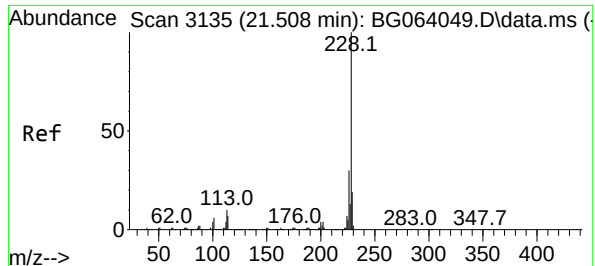
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#82  
3,3'-Dichlorobenzidine  
Concen: 21.421 ng  
RT: 21.363 min Scan# 3110  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

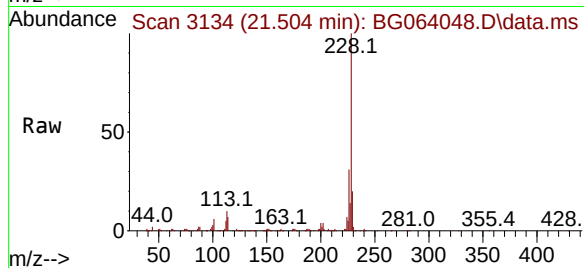
Tgt Ion:252 Resp: 109121  
Ion Ratio Lower Upper  
252 100  
254 63.5 52.1 78.1  
126 10.6 7.8 11.8





#83  
Chrysene  
Concen: 20.471 ng  
RT: 21.504 min Scan# 3135  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

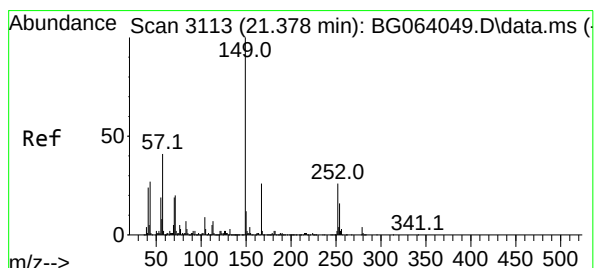
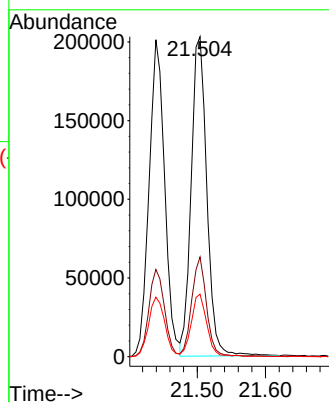
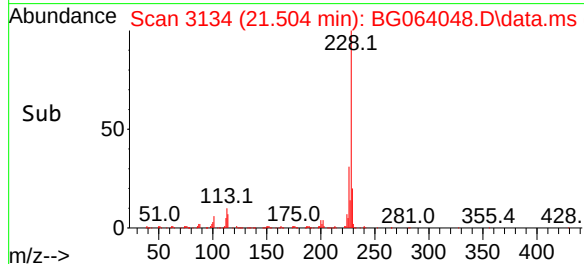
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:228 Resp: 321379  
Ion Ratio Lower Upper  
228 100  
226 31.1 23.9 35.9  
229 19.6 15.3 22.9

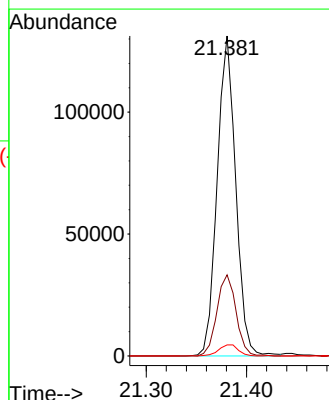
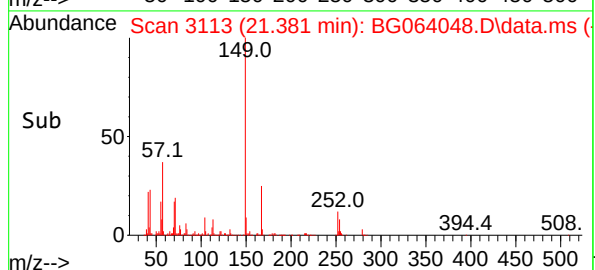
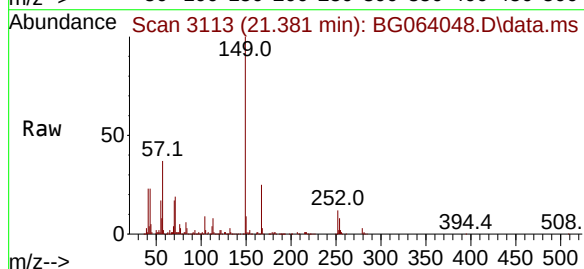
Manual Integrations  
APPROVED

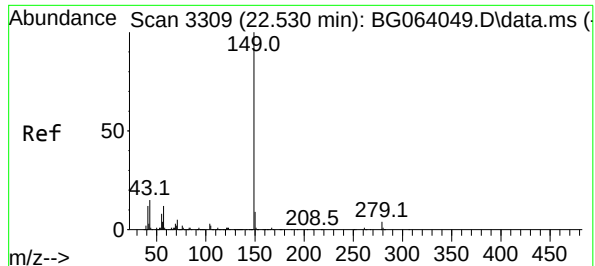
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 19.769 ng  
RT: 21.381 min Scan# 3113  
Delta R.T. 0.002 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

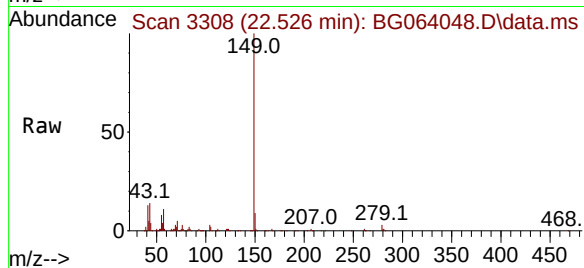
Tgt Ion:149 Resp: 168286  
Ion Ratio Lower Upper  
149 100  
167 25.3 21.0 31.6  
279 3.5 2.8 4.2





#85  
Di-n-octyl phthalate  
Concen: 18.542 ng  
RT: 22.526 min Scan# 31  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

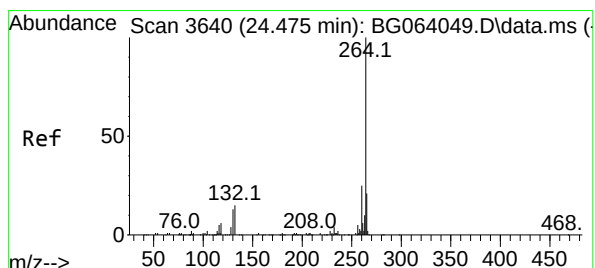
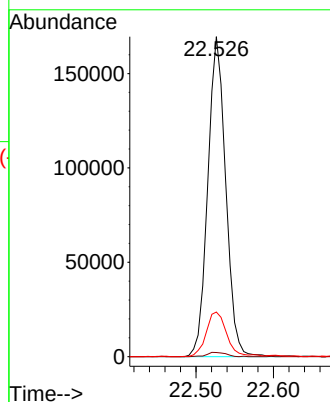
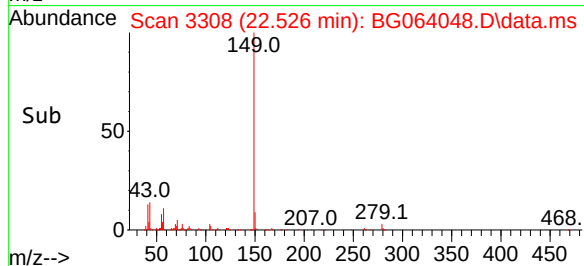
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:149 Resp: 27225  
Ion Ratio Lower Upper  
149 100  
167 1.4 1.2 1.8  
43 16.1 12.6 19.0

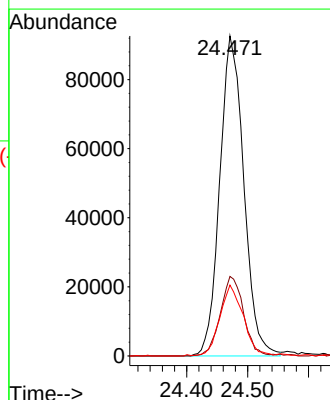
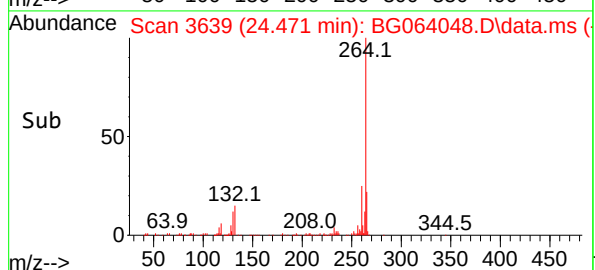
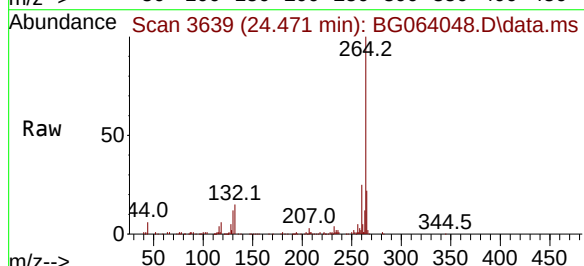
Manual Integrations  
APPROVED

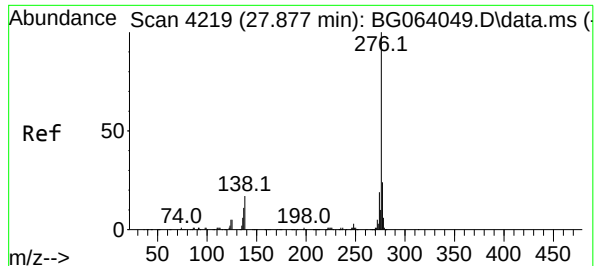
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.471 min Scan# 3639  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

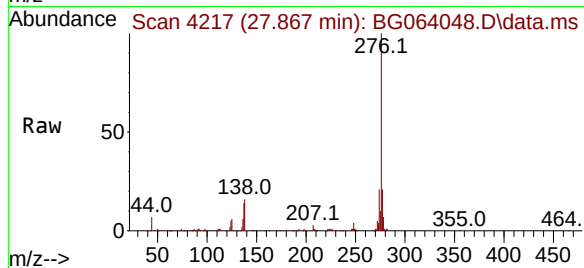
Tgt Ion:264 Resp: 254102  
Ion Ratio Lower Upper  
264 100  
260 24.8 19.6 29.4  
265 22.1 16.6 25.0





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 21.044 ng  
RT: 27.867 min Scan# 4219  
Delta R.T. -0.009 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

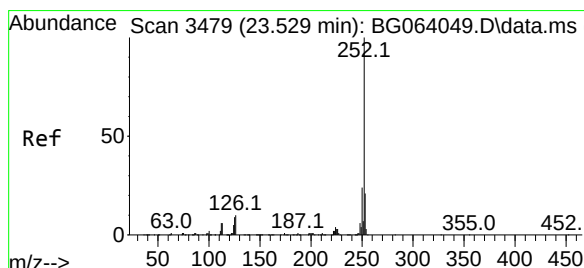
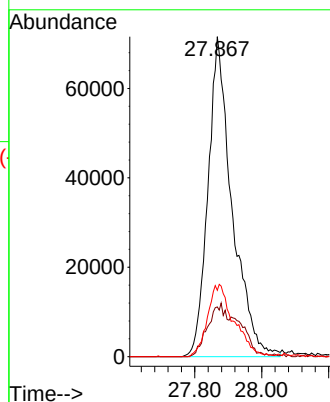
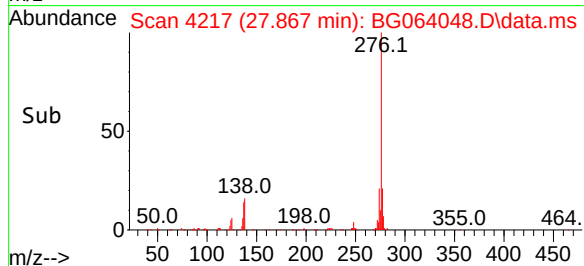
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:276 Resp: 357779  
Ion Ratio Lower Upper  
276 100  
138 13.1 12.1 18.1  
277 24.8 20.0 30.0

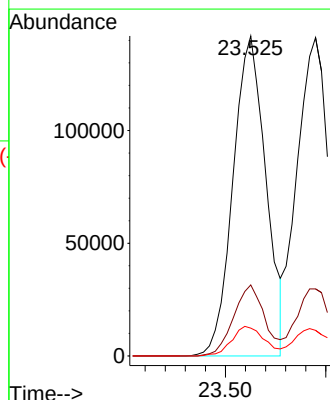
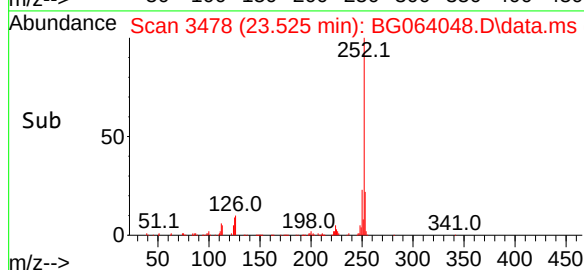
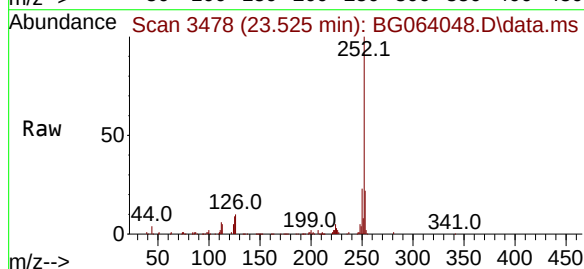
Manual Integrations  
APPROVED

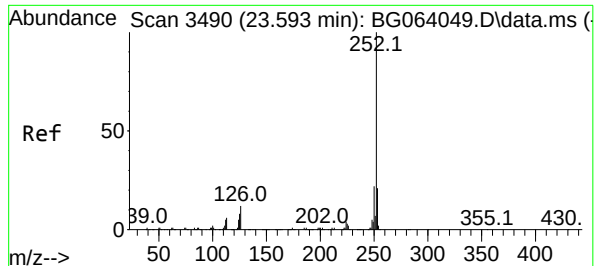
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#88  
Benzo(b)fluoranthene  
Concen: 20.998 ng  
RT: 23.525 min Scan# 3478  
Delta R.T. -0.004 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion:252 Resp: 322554  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.0 25.4  
125 8.7 7.4 11.2





#89

Benzo(k)fluoranthene

Concen: 21.124 ng

RT: 23.590 min Scan# 34

Delta R.T. -0.004 min

Lab File: BG064048.D

Acq: 5 Mar 2025 11:03

Instrument :

BNA\_G

ClientSampleId :

SSTDICC020

Tgt Ion:252 Resp: 32553

Ion Ratio Lower Upper

252 100

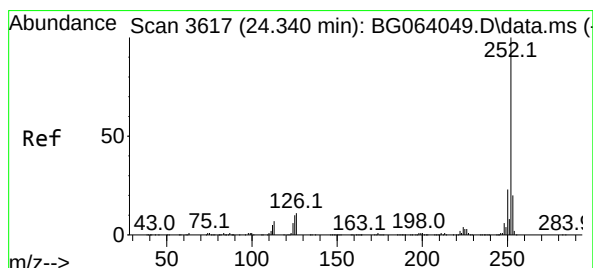
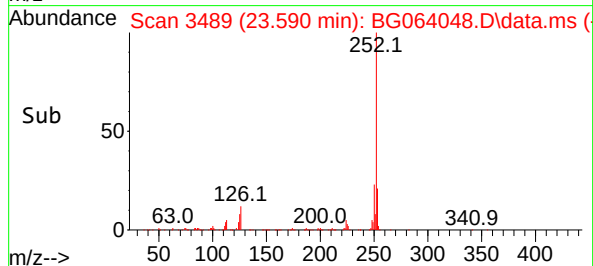
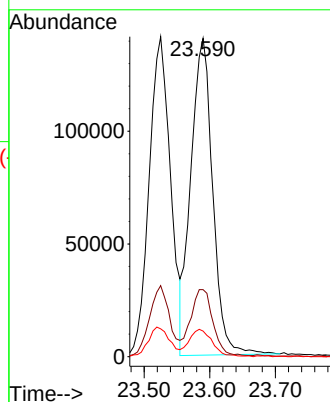
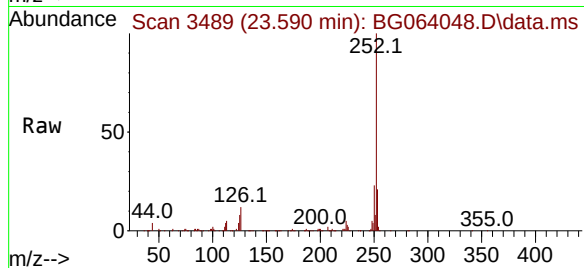
253 21.1 16.8 25.2

125 8.0 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025



#90

Benzo(a)pyrene

Concen: 20.878 ng

RT: 24.330 min Scan# 3615

Delta R.T. -0.009 min

Lab File: BG064048.D

Acq: 5 Mar 2025 11:03

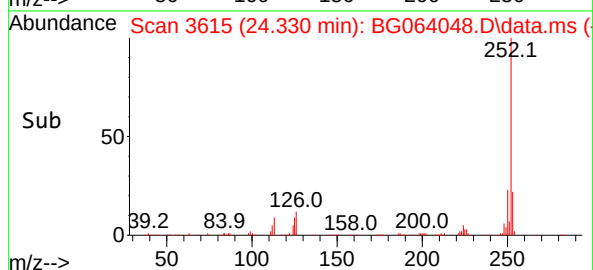
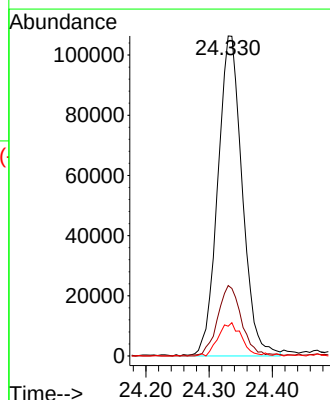
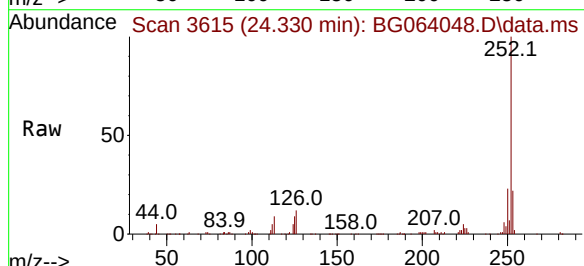
Tgt Ion:252 Resp: 285622

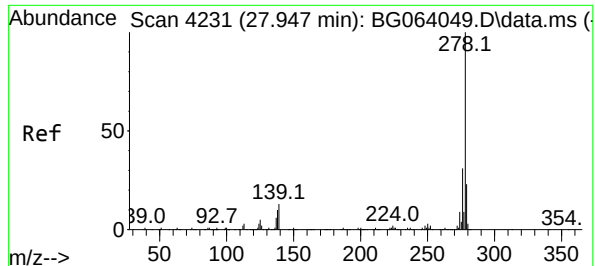
Ion Ratio Lower Upper

252 100

253 22.0 16.2 24.2

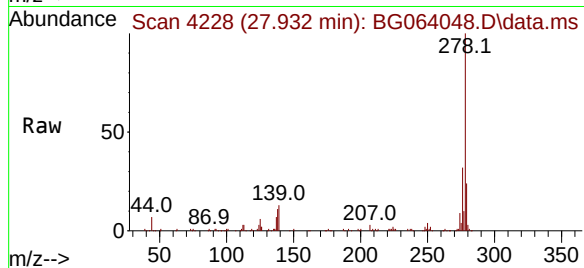
125 9.3 7.8 11.6





#91  
Dibenzo(a,h)anthracene  
Concen: 20.756 ng  
RT: 27.932 min Scan# 41  
Delta R.T. -0.015 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

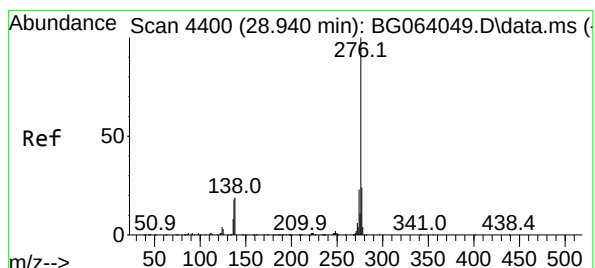
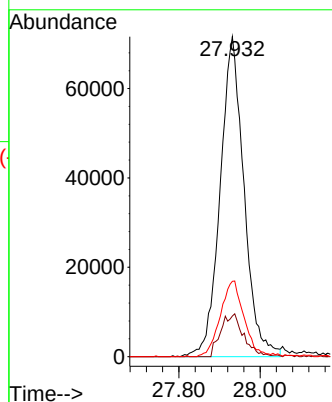
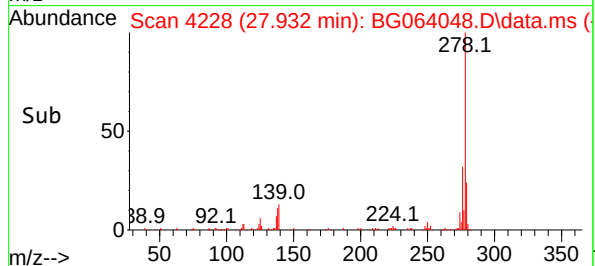
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC020



Tgt Ion:278 Resp: 292558  
Ion Ratio Lower Upper  
278 100  
139 12.7 10.2 15.2  
279 23.6 18.1 27.1

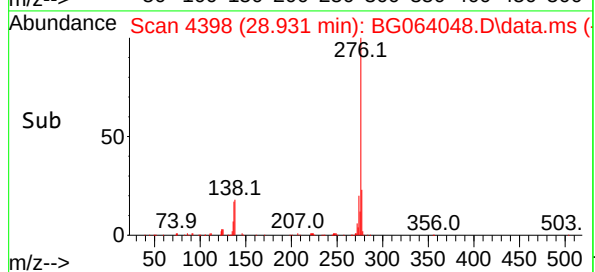
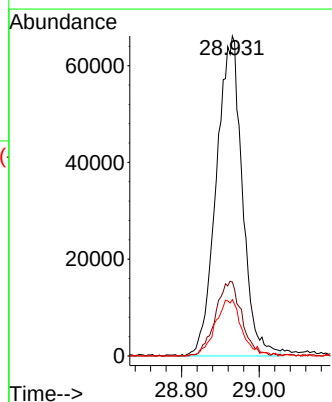
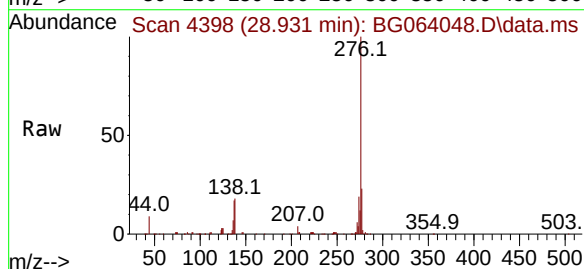
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#92  
Benzo(g,h,i)perylene  
Concen: 21.219 ng  
RT: 28.931 min Scan# 4398  
Delta R.T. -0.009 min  
Lab File: BG064048.D  
Acq: 5 Mar 2025 11:03

Tgt Ion:276 Resp: 307072  
Ion Ratio Lower Upper  
276 100  
277 23.1 19.5 29.3  
138 17.6 15.4 23.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064049.D  
 Acq On : 5 Mar 2025 11:43  
 Operator : RC/JU  
 Sample : SSTDICCC040  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTDICCC040

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:23:15 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 14:45:06 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.865  | 152  | 36119    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.656 | 136  | 166592   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.486 | 164  | 113406   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.230 | 188  | 259291   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.461 | 240  | 272676   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 24.475 | 264  | 289801   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.450  | 112  | 195059   | 84.325 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.030  | 99   | 267026   | 84.856 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.016  | 82   | 256618   | 85.125 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.973 | 330  | 109187   | 86.616 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.117 | 172  | 620339   | 83.029 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.851 | 244  | 1089644  | 80.801 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.376  | 88   | 42253    | 40.305 | ng    | 100      |
| 3) Pyridine                   | 3.764  | 79   | 113639   | 44.572 | ng    | 100      |
| 4) n-Nitrosodimethylamine     | 3.681  | 42   | 76876    | 42.203 | ng    | 100      |
| 6) Aniline                    | 7.195  | 93   | 131468   | 42.576 | ng    | 100      |
| 8) 2-Chlorophenol             | 7.430  | 128  | 104423   | 42.032 | ng    | 100      |
| 9) Benzaldehyde               | 7.007  | 77   | 72458    | 39.392 | ng    | 100      |
| 10) Phenol                    | 7.054  | 94   | 135869   | 42.171 | ng    | 100      |
| 11) bis(2-Chloroethyl)ether   | 7.295  | 93   | 102203   | 40.462 | ng    | 100      |
| 12) 1,3-Dichlorobenzene       | 7.759  | 146  | 111677   | 40.935 | ng    | 100      |
| 13) 1,4-Dichlorobenzene       | 7.900  | 146  | 114970   | 41.114 | ng    | 100      |
| 14) 1,2-Dichlorobenzene       | 8.217  | 146  | 109760   | 40.705 | ng    | 100      |
| 15) Benzyl Alcohol            | 8.100  | 79   | 103751   | 42.666 | ng    | 100      |
| 16) 2,2'-oxybis(1-Chloropr... | 8.399  | 45   | 237053   | 41.738 | ng    | 100      |
| 17) 2-Methylphenol            | 8.299  | 107  | 91630    | 42.852 | ng    | 100      |
| 18) Hexachloroethane          | 8.946  | 117  | 41682    | 42.603 | ng    | 100      |
| 19) n-Nitroso-di-n-propyla... | 8.670  | 70   | 95587    | 43.283 | ng    | 100      |
| 20) 3+4-Methylphenols         | 8.629  | 107  | 123273   | 41.875 | ng    | 100      |
| 22) Acetophenone              | 8.681  | 105  | 187490   | 41.048 | ng    | 100      |
| 24) Nitrobenzene              | 9.057  | 77   | 132396   | 42.497 | ng    | 100      |
| 25) Isophorone                | 9.580  | 82   | 248096   | 41.117 | ng    | 100      |
| 26) 2-Nitrophenol             | 9.768  | 139  | 40684    | 39.553 | ng    | 100      |
| 27) 2,4-Dimethylphenol        | 9.827  | 122  | 76114    | 42.079 | ng    | 100      |
| 28) bis(2-Chloroethoxy)met... | 10.068 | 93   | 147757   | 40.391 | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 10.297 | 162  | 95738    | 41.916 | ng    | 100      |
| 30) 1,2,4-Trichlorobenzene    | 10.515 | 180  | 110636   | 40.125 | ng    | 100      |
| 31) Naphthalene               | 10.703 | 128  | 359362   | 40.004 | ng    | 100      |
| 32) Benzoic acid              | 9.974  | 122  | 57392m   | 37.004 | ng    |          |
| 33) 4-Chloroaniline           | 10.808 | 127  | 138722   | 42.251 | ng    | 100      |
| 34) Hexachlorobutadiene       | 10.996 | 225  | 72822    | 40.294 | ng    | 100      |
| 35) Caprolactam               | 11.578 | 113  | 36736    | 41.970 | ng    | 100      |
| 36) 4-Chloro-3-methylphenol   | 11.931 | 107  | 124422   | 41.558 | ng    | 100      |
| 37) 2-Methylnaphthalene       | 12.312 | 142  | 254296   | 40.099 | ng    | 100      |
| 38) 1-Methylnaphthalene       | 12.530 | 142  | 250971   | 40.394 | ng    | 100      |
| 40) 1,2,4,5-Tetrachloroben... | 12.683 | 216  | 132854   | 41.034 | ng    | 100      |
| 41) Hexachlorocyclopentadiene | 12.665 | 237  | 39606    | 43.464 | ng    | 100      |
| 43) 2,4,6-Trichlorophenol     | 12.918 | 196  | 81144    | 42.524 | ng    | 100      |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064049.D  
 Acq On : 5 Mar 2025 11:43  
 Operator : RC/JU  
 Sample : SSTDICCC040  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTDICCC040

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:23:15 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 14:45:06 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.988 | 196  | 92122    | 43.449 | ng    | 100      |
| 46) 1,1'-Biphenyl             | 13.323 | 154  | 348881   | 40.719 | ng    | 100      |
| 47) 2-Chloronaphthalene       | 13.364 | 162  | 255541   | 40.894 | ng    | 100      |
| 48) 2-Nitroaniline            | 13.564 | 65   | 78919    | 39.603 | ng    | 100      |
| 49) Acenaphthylene            | 14.210 | 152  | 405756   | 41.052 | ng    | 100      |
| 50) Dimethylphthalate         | 13.952 | 163  | 344791   | 41.187 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 14.063 | 165  | 66200    | 39.610 | ng    | 100      |
| 52) Acenaphthene              | 14.557 | 154  | 269147m  | 40.492 | ng    |          |
| 53) 3-Nitroaniline            | 14.386 | 138  | 71724    | 44.330 | ng    | 100      |
| 54) 2,4-Dinitrophenol         | 14.592 | 184  | 22778    | 36.881 | ng    | 100      |
| 55) Dibenzofuran              | 14.886 | 168  | 440253   | 40.970 | ng    | 100      |
| 56) 4-Nitrophenol             | 14.692 | 139  | 58316    | 42.977 | ng    | 100      |
| 57) 2,4-Dinitrotoluene        | 14.845 | 165  | 91658    | 39.789 | ng    | 100      |
| 58) Fluorene                  | 15.538 | 166  | 335238   | 40.055 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 15.109 | 232  | 89594    | 43.345 | ng    | 100      |
| 60) Diethylphthalate          | 15.321 | 149  | 378464   | 41.645 | ng    | 100      |
| 61) 4-Chlorophenyl-phenyle... | 15.538 | 204  | 166615   | 40.061 | ng    | 100      |
| 62) 4-Nitroaniline            | 15.550 | 138  | 78323    | 44.838 | ng    | 100      |
| 63) Azobenzene                | 15.826 | 77   | 398816   | 41.125 | ng    | 100      |
| 65) 4,6-Dinitro-2-methylph... | 15.609 | 198  | 38647    | 36.802 | ng    | 100      |
| 66) n-Nitrosodiphenylamine    | 15.744 | 169  | 299980   | 40.872 | ng    | 100      |
| 67) 4-Bromophenyl-phenylether | 16.425 | 248  | 109095   | 41.081 | ng    | 100      |
| 68) Hexachlorobenzene         | 16.537 | 284  | 118787   | 39.954 | ng    | 100      |
| 69) Atrazine                  | 16.696 | 200  | 82729    | 38.309 | ng    | 100      |
| 70) Pentachlorophenol         | 16.878 | 266  | 77264    | 41.856 | ng    | 100      |
| 71) Phenanthrene              | 17.271 | 178  | 560184   | 40.505 | ng    | 100      |
| 72) Anthracene                | 17.365 | 178  | 562891   | 40.932 | ng    | 100      |
| 73) Carbazole                 | 17.630 | 167  | 532467   | 41.470 | ng    | 100      |
| 74) Di-n-butylphthalate       | 18.206 | 149  | 652013   | 43.141 | ng    | 100      |
| 75) Fluoranthene              | 19.281 | 202  | 683664   | 41.004 | ng    | 100      |
| 77) Benzidine                 | 19.463 | 184  | 170880   | 44.641 | ng    | 100      |
| 78) Pyrene                    | 19.645 | 202  | 714571   | 40.653 | ng    | 100      |
| 80) Butylbenzylphthalate      | 20.544 | 149  | 253637   | 39.178 | ng    | 100      |
| 81) Benzo(a)anthracene        | 21.443 | 228  | 710573   | 40.681 | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 21.367 | 252  | 245252   | 43.385 | ng    | 100      |
| 83) Chrysene                  | 21.508 | 228  | 712310   | 40.888 | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 21.378 | 149  | 412893   | 43.709 | ng    | 100      |
| 85) Di-n-octyl phthalate      | 22.530 | 149  | 675516   | 41.459 | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 27.877 | 276  | 797387   | 41.124 | ng    | 100      |
| 88) Benzo(b)fluoranthene      | 23.529 | 252  | 704588   | 40.217 | ng    | 100      |
| 89) Benzo(k)fluoranthene      | 23.593 | 252  | 727467   | 41.391 | ng    | 100      |
| 90) Benzo(a)pyrene            | 24.340 | 252  | 641802   | 41.134 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 27.947 | 278  | 656435   | 40.836 | ng    | 100      |
| 92) Benzo(g,h,i)perylene      | 28.940 | 276  | 667911   | 40.469 | ng    | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

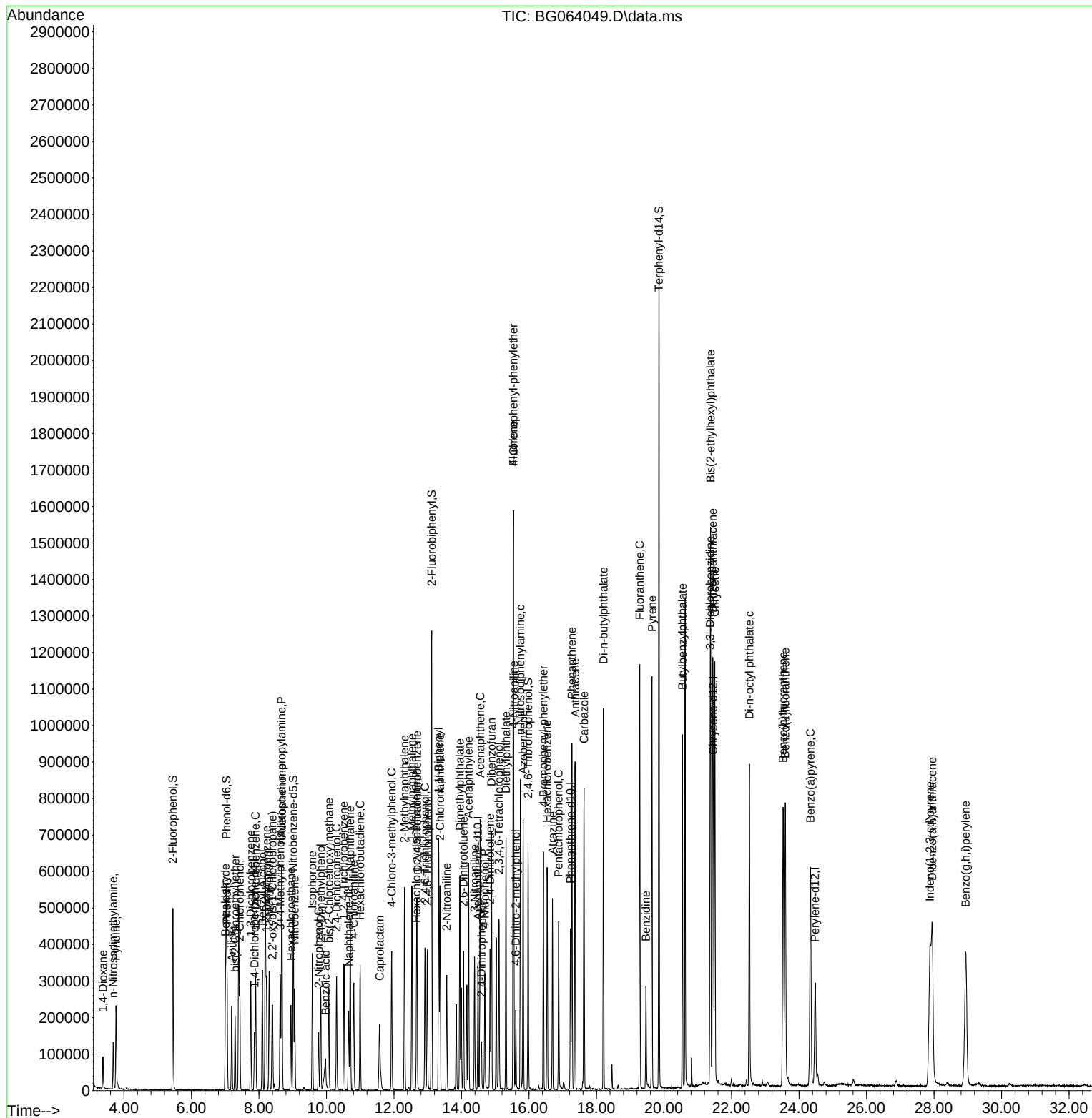
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 Acq On : 5 Mar 2025 11:43  
 Operator : RC/JU  
 Sample : SSTDICCC040  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

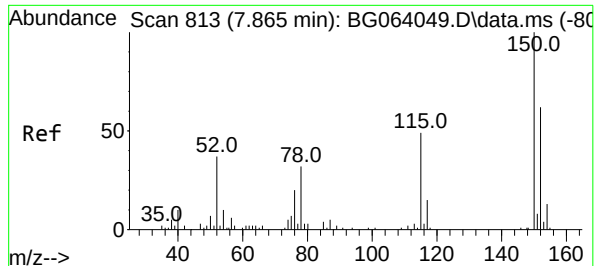
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTDICCC040

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025

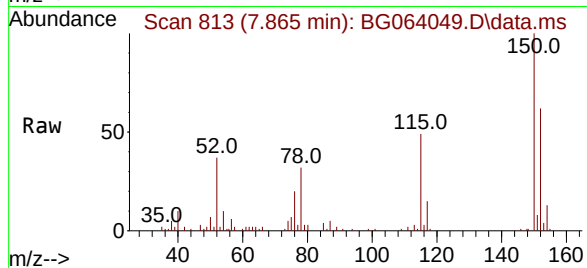
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 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 14:45:06 2025  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.865 min Scan# 813  
Delta R.T. -0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

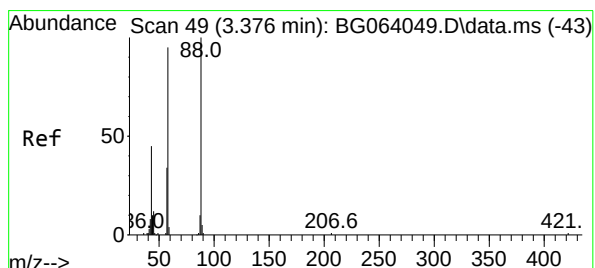
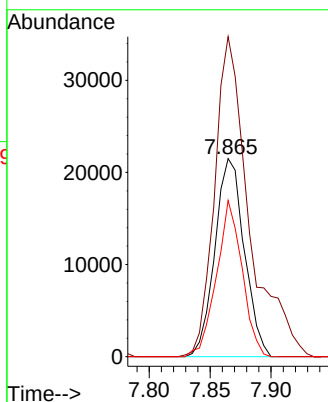
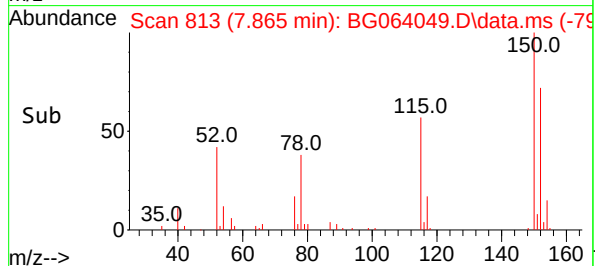
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:152 Resp: 36119  
Ion Ratio Lower Upper  
152 100  
150 161.5 129.2 193.8  
115 78.8 63.0 94.6

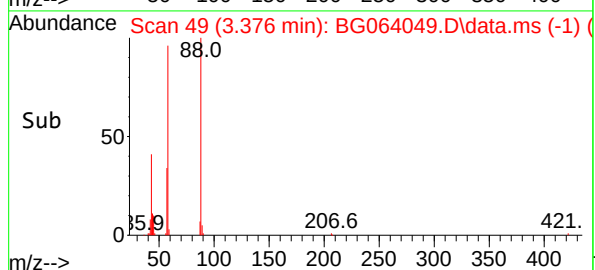
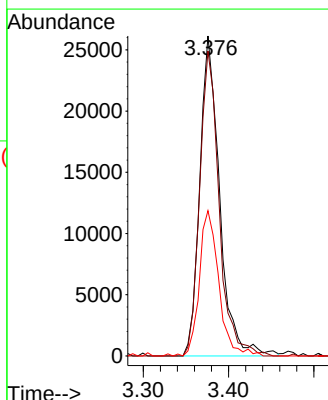
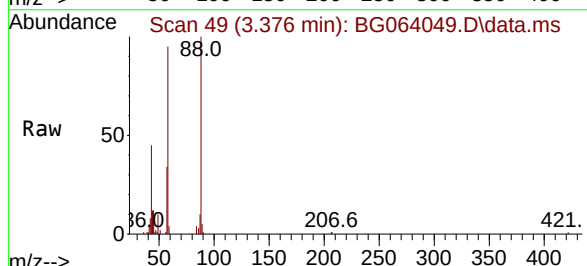
Manual Integrations  
APPROVED

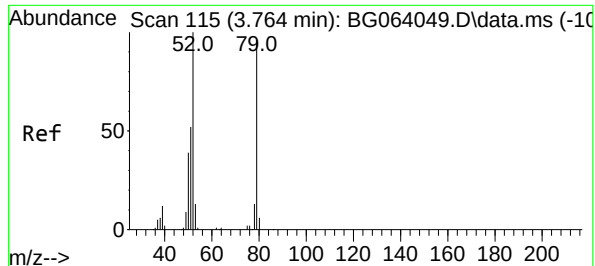
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#2  
1,4-Dioxane  
Concen: 40.305 ng  
RT: 3.376 min Scan# 49  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

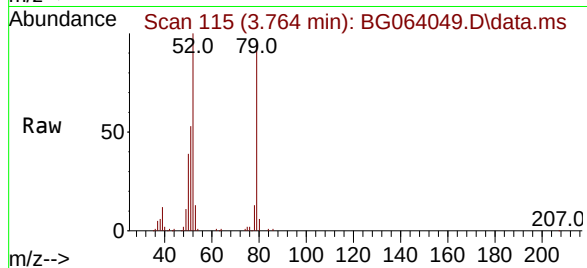
Tgt Ion: 88 Resp: 42253  
Ion Ratio Lower Upper  
88 100  
58 93.2 74.6 111.8  
43 44.4 35.5 53.3





#3  
Pyridine  
Concen: 44.572 ng  
RT: 3.764 min Scan# 115  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

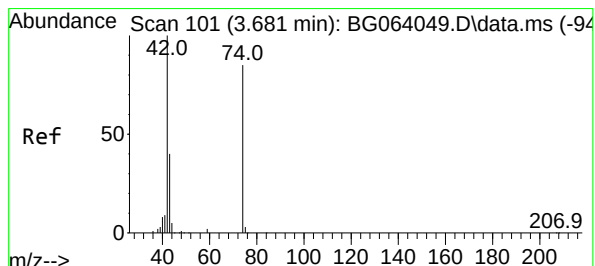
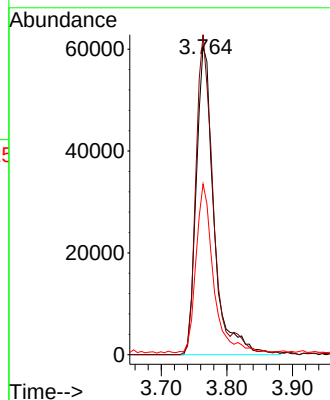
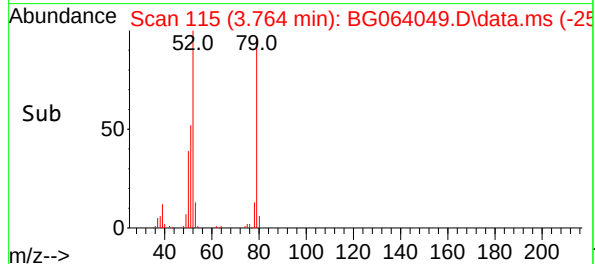
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion: 79 Resp: 113639  
Ion Ratio Lower Upper  
79 100  
52 103.8 83.0 124.6  
51 55.4 44.3 66.5

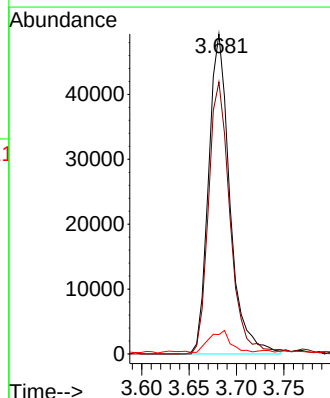
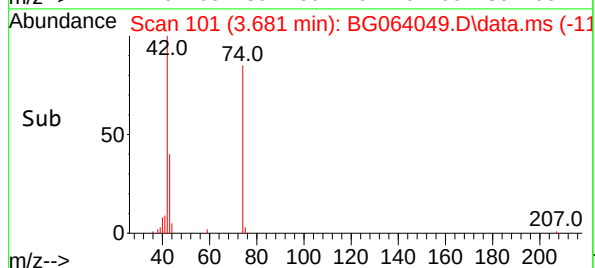
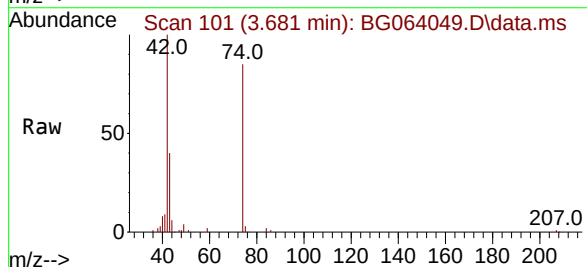
Manual Integrations  
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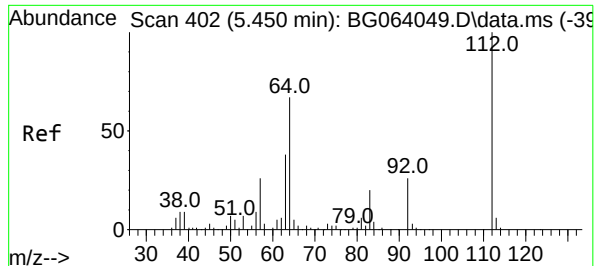
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#4  
n-Nitrosodimethylamine  
Concen: 42.203 ng  
RT: 3.681 min Scan# 101  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion: 42 Resp: 76876  
Ion Ratio Lower Upper  
42 100  
74 85.0 68.0 102.0  
44 6.1 4.9 7.3





#5

2-Fluorophenol

Concen: 84.325 ng

RT: 5.450 min Scan# 402

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

Instrument :

BNA\_G

ClientSampleId :

SSTDICCC040

Tgt Ion:112 Resp: 195059

Ion Ratio Lower Upper

112 100

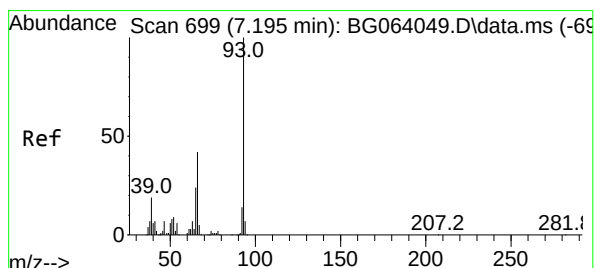
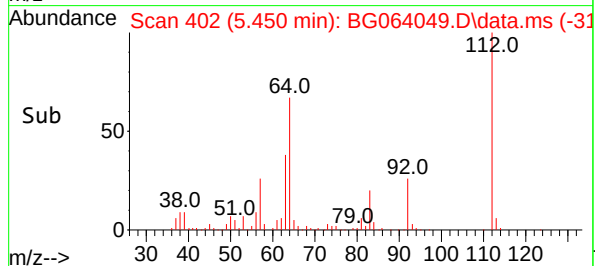
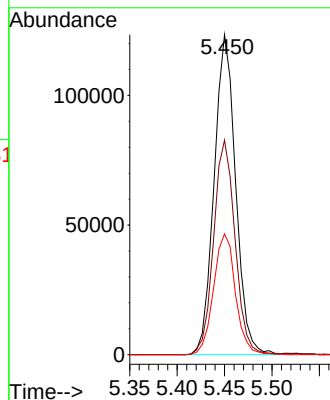
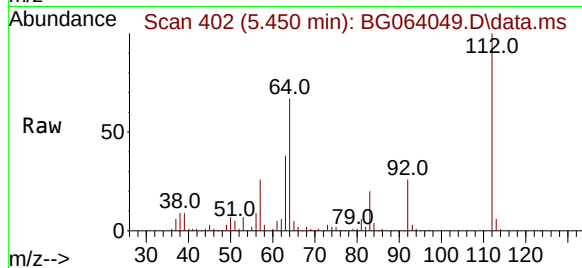
64 67.1 53.7 80.5

63 37.8 30.2 45.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025



#6

Aniline

Concen: 42.576 ng

RT: 7.195 min Scan# 699

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

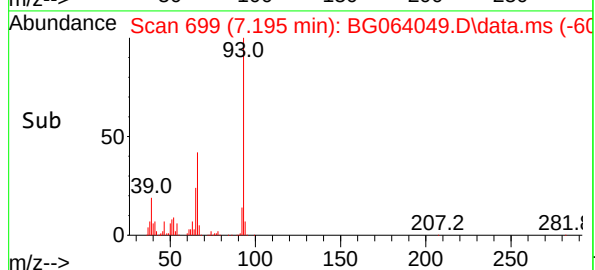
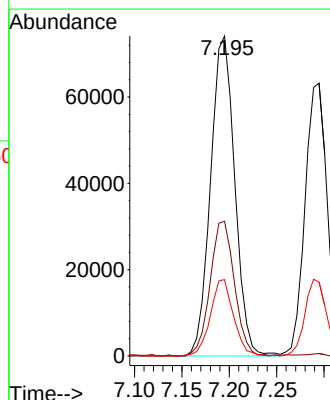
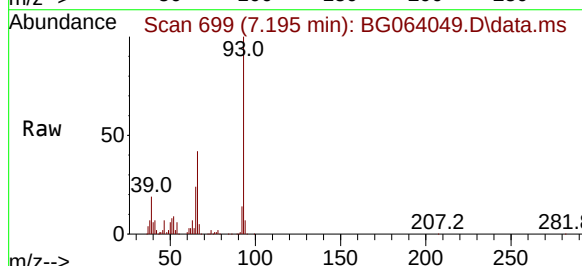
Tgt Ion: 93 Resp: 131468

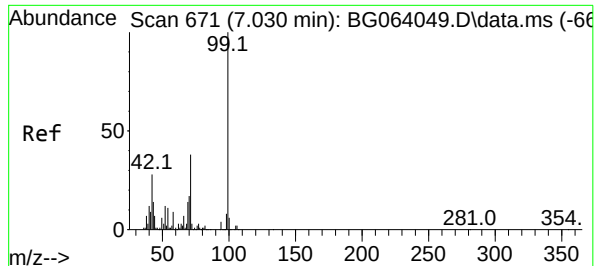
Ion Ratio Lower Upper

93 100

66 42.1 33.7 50.5

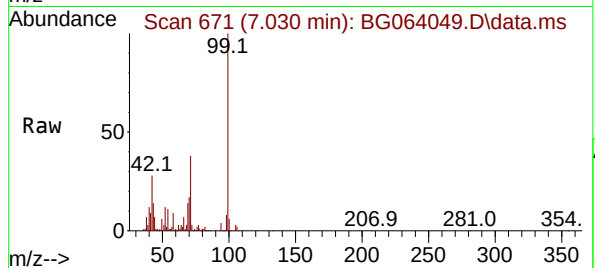
65 23.9 19.1 28.7





#7  
Phenol-d6  
Concen: 84.856 ng  
RT: 7.030 min Scan# 671  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

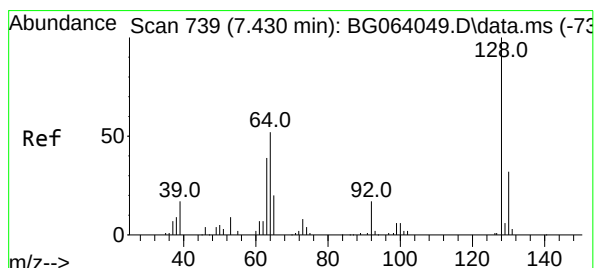
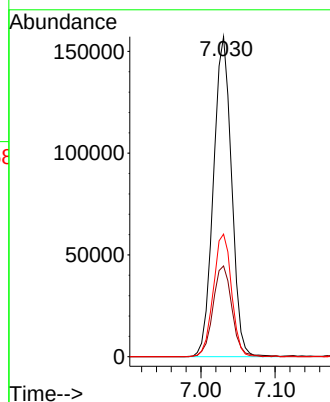
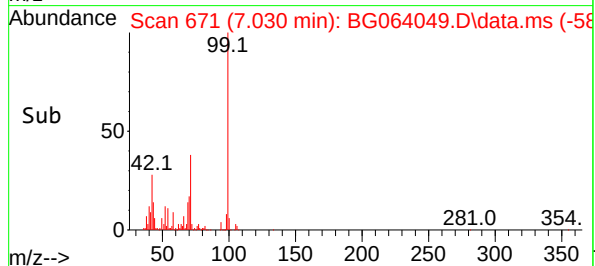
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion: 99 Resp: 267020  
Ion Ratio Lower Upper  
99 100  
42 28.4 22.7 34.1  
71 38.3 30.6 46.0

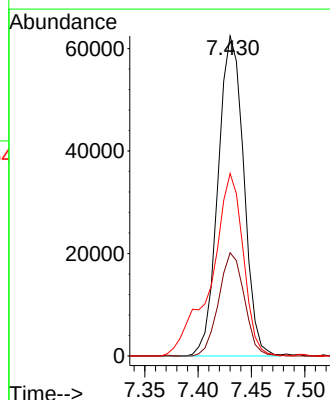
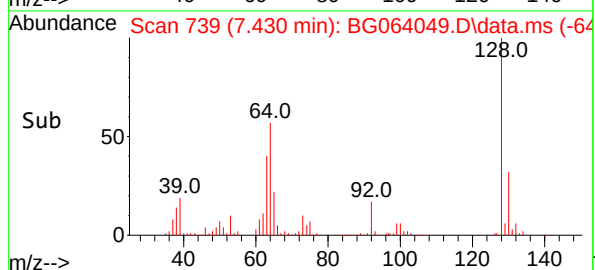
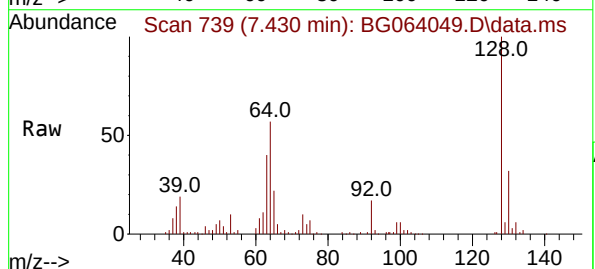
Manual Integrations  
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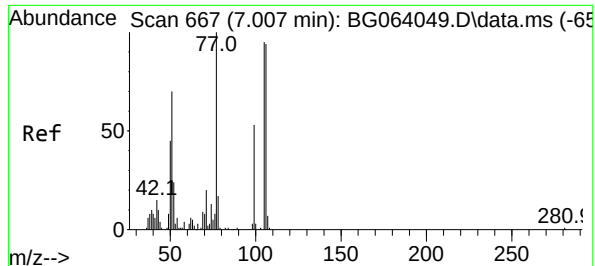
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#8  
2-Chlorophenol  
Concen: 42.032 ng  
RT: 7.430 min Scan# 739  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

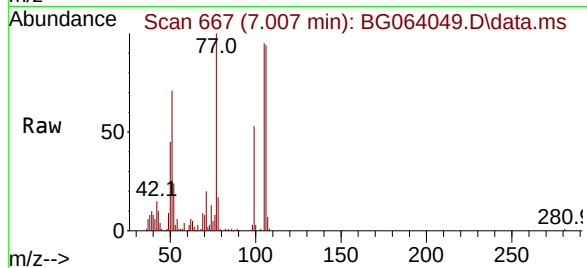
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Ion Ratio Lower Upper  
128 100  
130 32.3 12.3 52.3  
64 57.0 37.0 77.0





#9  
Benzaldehyde  
Concen: 39.392 ng  
RT: 7.007 min Scan# 667  
Delta R.T. -0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

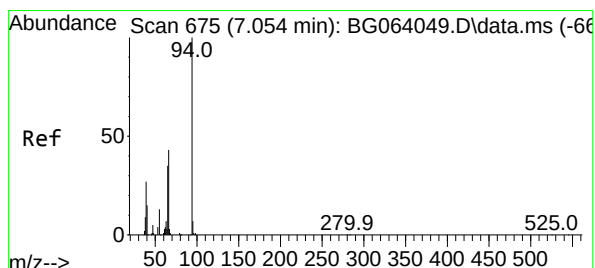
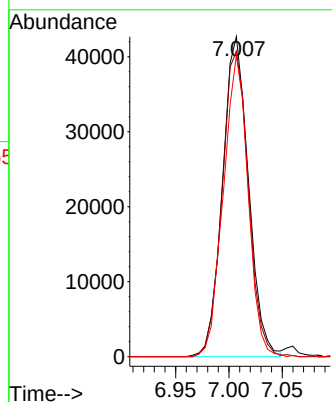
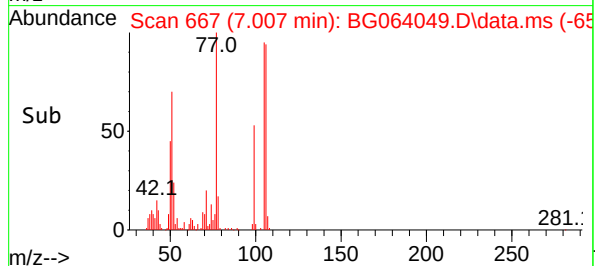
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion: 77 Resp: 72458  
Ion Ratio Lower Upper  
77 100  
105 95.5 75.5 115.5  
106 94.2 74.2 114.2

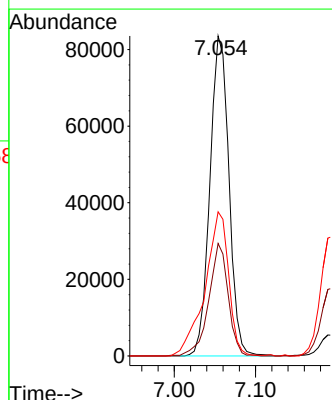
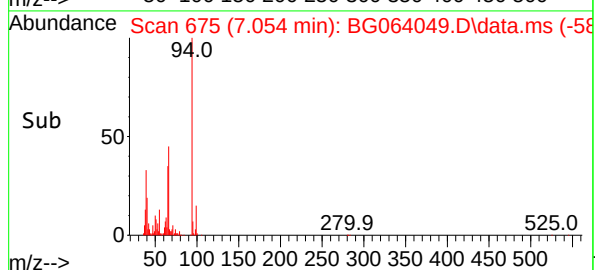
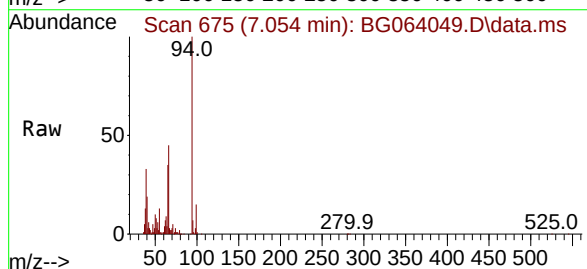
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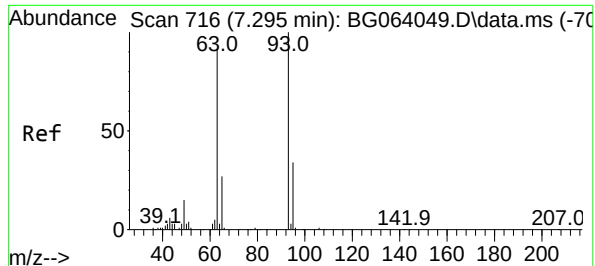
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#10  
Phenol  
Concen: 42.171 ng  
RT: 7.054 min Scan# 675  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion: 94 Resp: 135869  
Ion Ratio Lower Upper  
94 100  
65 35.2 15.2 55.2  
66 45.1 25.1 65.1





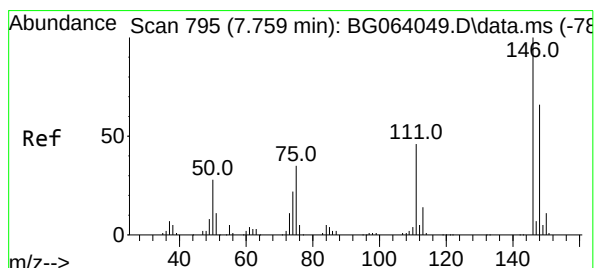
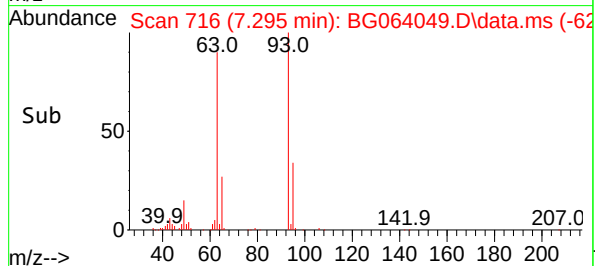
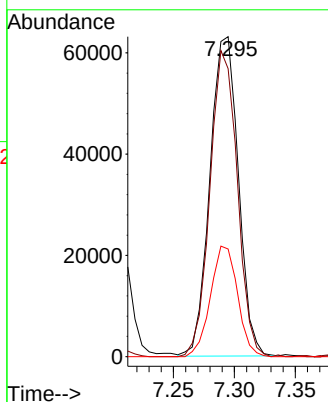
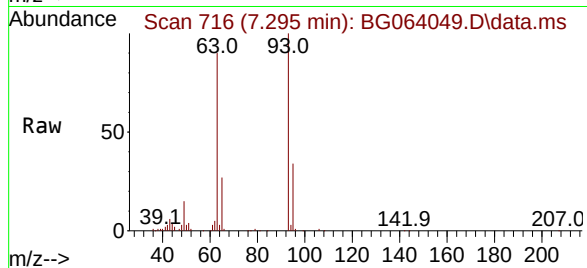
#11  
bis(2-Chloroethyl)ether  
Concen: 40.462 ng  
RT: 7.295 min Scan# 716  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040

Tgt Ion: 93 Resp: 10220  
Ion Ratio Lower Upper  
93 100  
63 90.0 70.0 110.0  
95 33.7 13.7 53.7

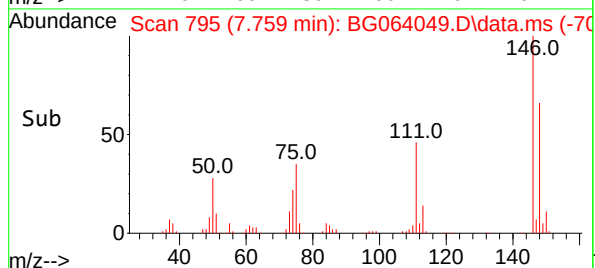
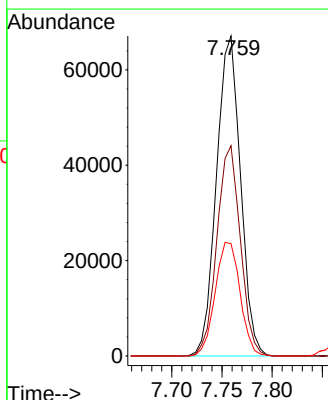
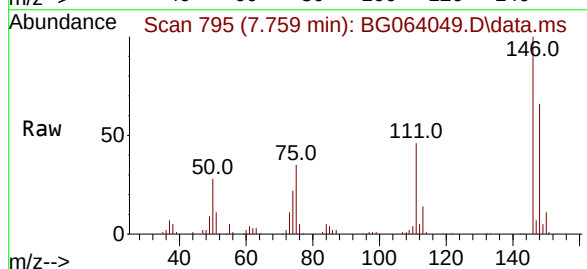
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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

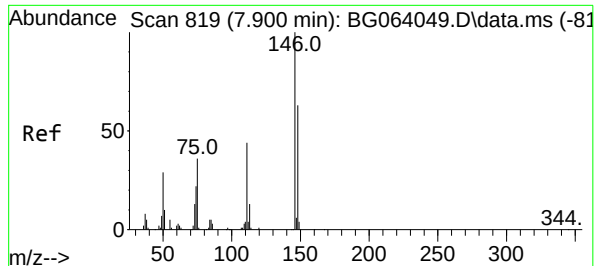


#12  
1,3-Dichlorobenzene  
Concen: 40.935 ng  
RT: 7.759 min Scan# 795  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion:146 Resp: 111677  
Ion Ratio Lower Upper  
146 100  
148 65.7 52.6 78.8  
75 35.1 28.1 42.1







#13

1,4-Dichlorobenzene

Concen: 41.114 ng

RT: 7.900 min Scan# 819

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

Instrument :

BNA\_G

ClientSampleId :

SSTDICCC040

Tgt Ion:146 Resp: 114970

Ion Ratio Lower Upper

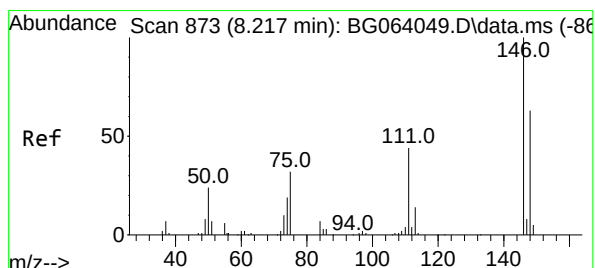
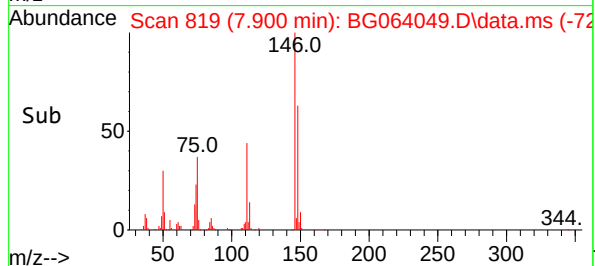
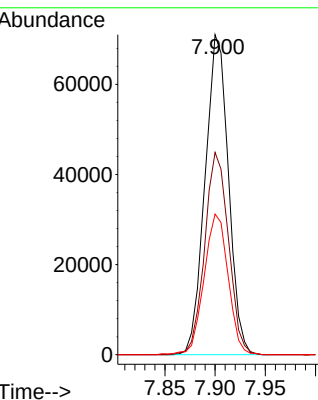
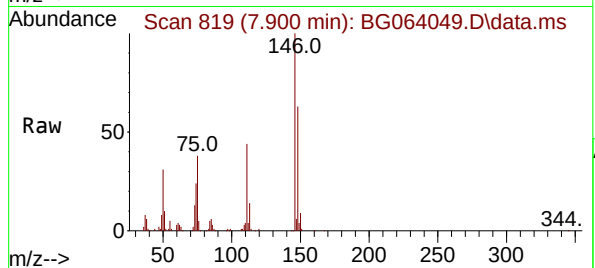
146 100

148 63.2 50.6 75.8

111 43.9 35.1 52.7

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#14

1,2-Dichlorobenzene

Concen: 40.705 ng

RT: 8.217 min Scan# 873

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

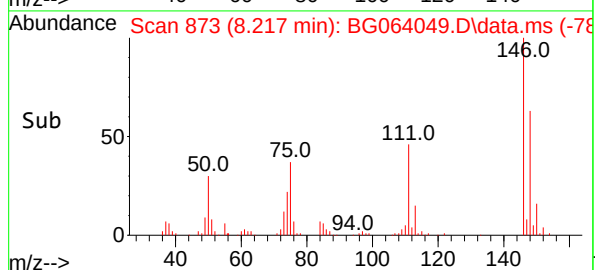
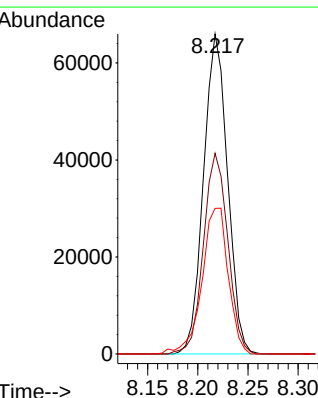
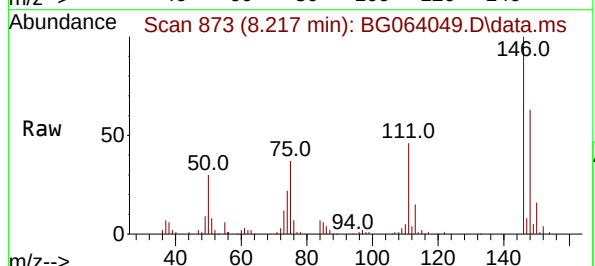
Tgt Ion:146 Resp: 109760

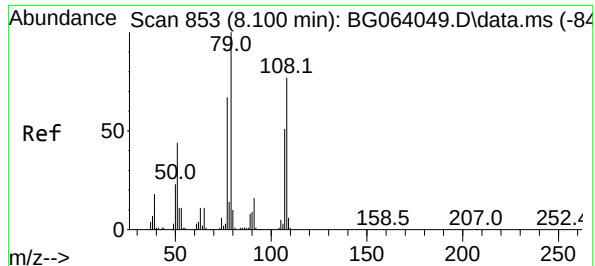
Ion Ratio Lower Upper

146 100

148 62.7 50.2 75.2

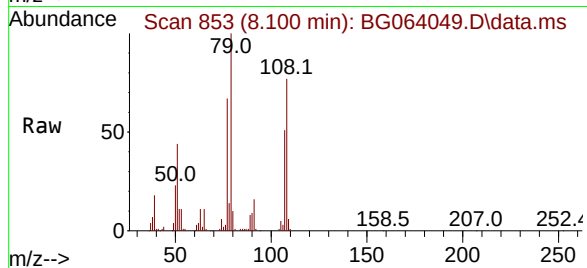
111 45.5 36.4 54.6





#15  
Benzyl Alcohol  
Concen: 42.666 ng  
RT: 8.100 min Scan# 853  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

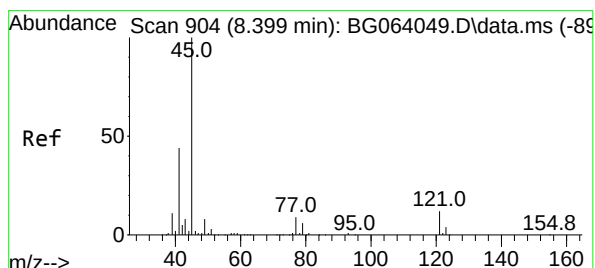
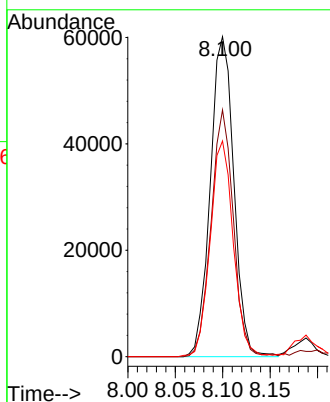
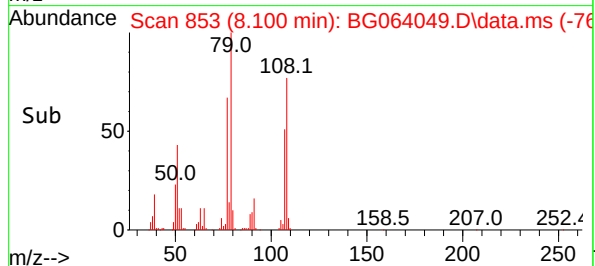
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion: 79 Resp: 10375  
Ion Ratio Lower Upper  
79 100  
108 77.1 61.7 92.5  
77 67.4 53.9 80.9

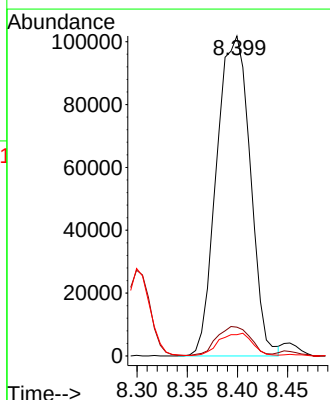
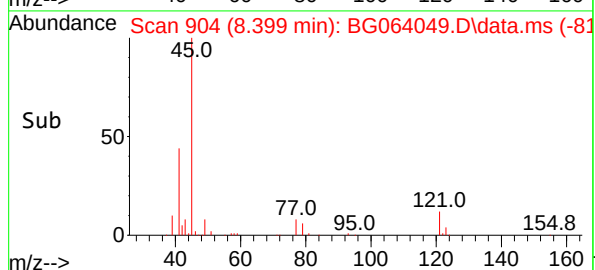
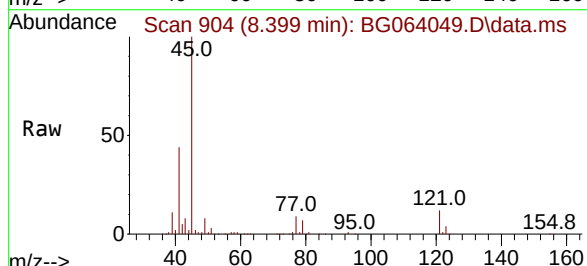
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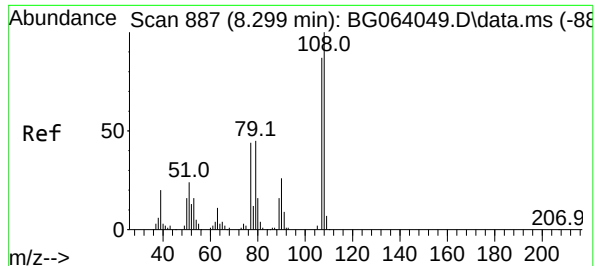
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#16  
2,2'-oxybis(1-chloropropane)  
Concen: 41.738 ng  
RT: 8.399 min Scan# 904  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion: 45 Resp: 237053  
Ion Ratio Lower Upper  
45 100  
77 9.0 0.0 29.0  
79 6.6 0.0 26.6





#17

2-Methylphenol

Concen: 42.852 ng

RT: 8.299 min Scan# 887

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

Instrument :

BNA\_G

ClientSampleId :

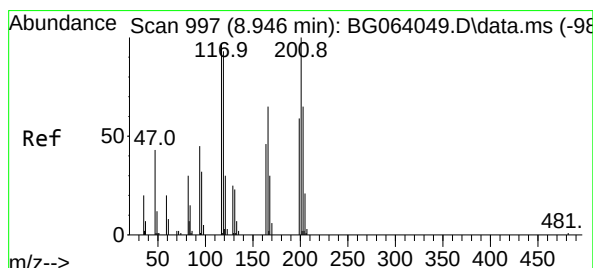
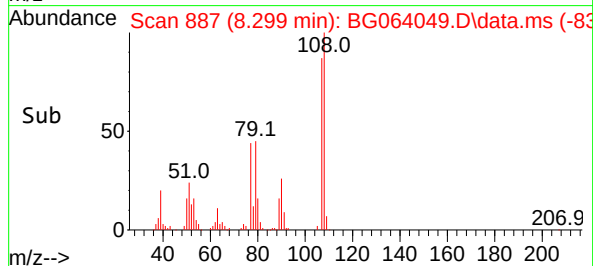
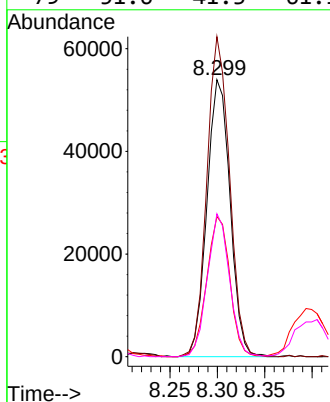
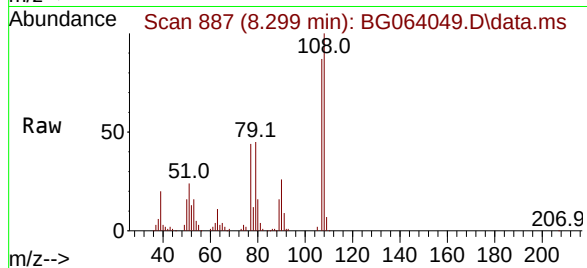
SSTDICCC040

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 107   | Resp: | 91630 |
| Ion Ratio | Lower | Upper |       |
| 107       | 100   |       |       |
| 108       | 115.6 | 92.5  | 138.7 |
| 77        | 50.6  | 40.5  | 60.7  |
| 79        | 51.6  | 41.3  | 61.9  |

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#18

Hexachloroethane

Concen: 42.603 ng

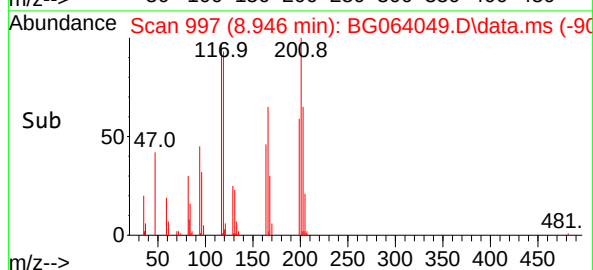
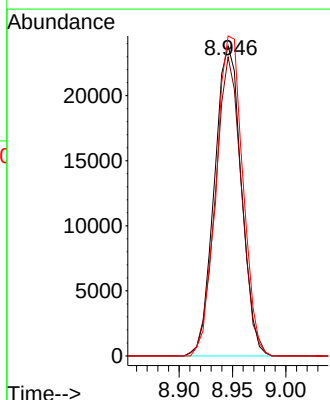
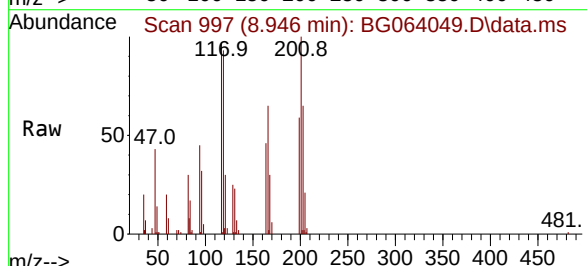
RT: 8.946 min Scan# 997

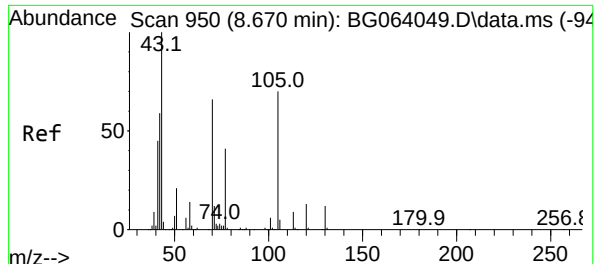
Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 41682 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 119       | 95.2  | 76.2  | 114.2 |
| 201       | 101.9 | 81.5  | 122.3 |





#19

n-Nitroso-di-n-propylamine

Concen: 43.283 ng

RT: 8.670 min Scan# 950

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

Instrument :

BNA\_G

ClientSampleId :

SSTDICCC040

Tgt Ion: 70 Resp: 9558

Ion Ratio Lower Upper

70 100

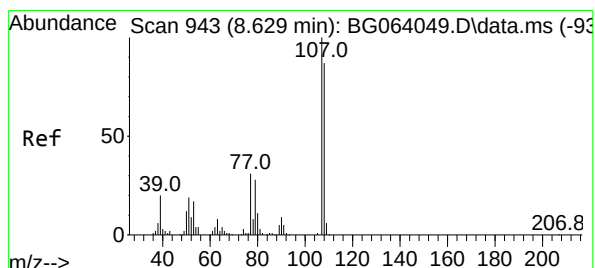
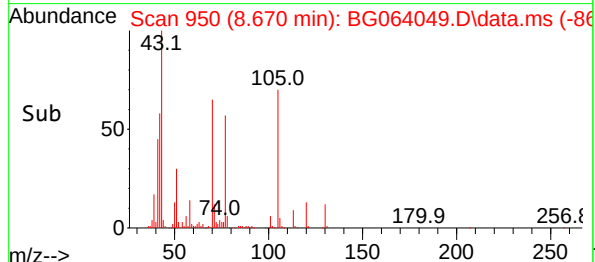
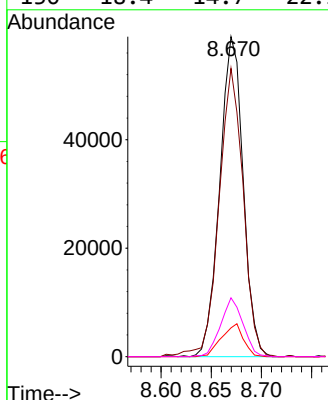
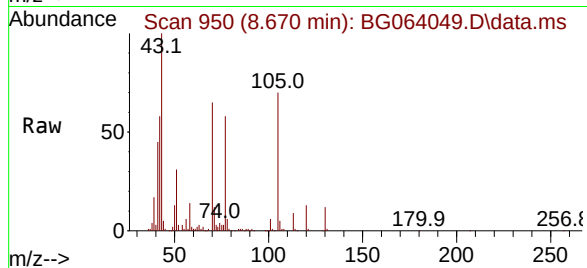
42 90.1 72.1 108.1

101 9.0 7.2 10.8

130 18.4 14.7 22.1

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#20

3+4-Methylphenols

Concen: 41.875 ng

RT: 8.629 min Scan# 943

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

Tgt Ion:107 Resp: 123273

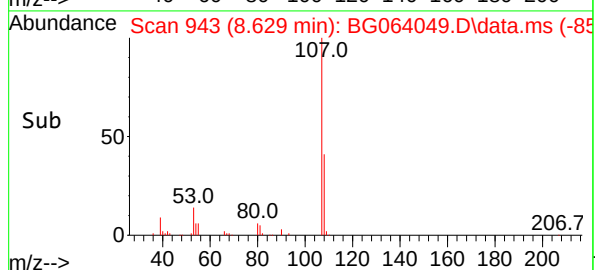
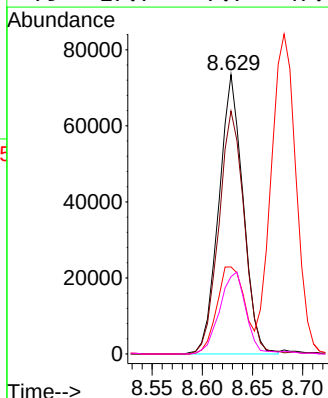
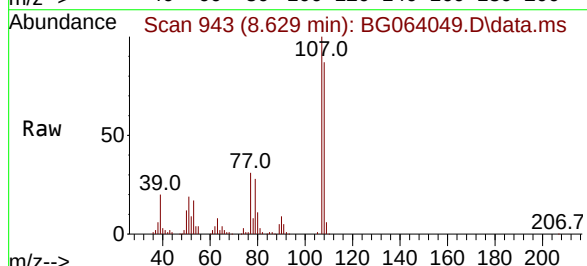
Ion Ratio Lower Upper

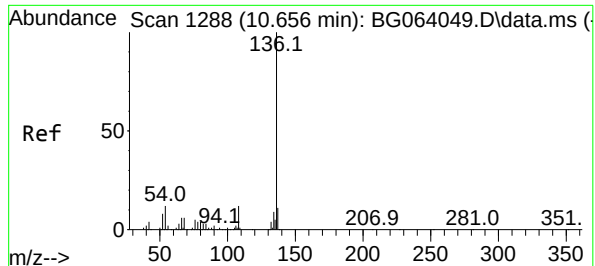
107 100

108 87.0 67.0 107.0

77 31.2 11.2 51.2

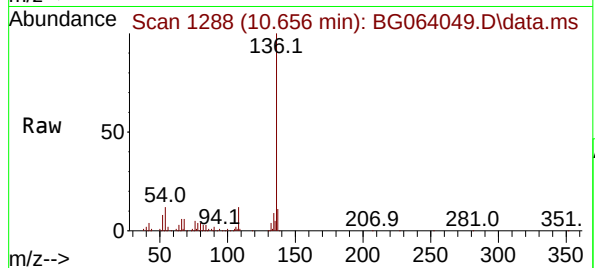
79 27.7 7.7 47.7





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.656 min Scan# 1288  
Delta R.T. -0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

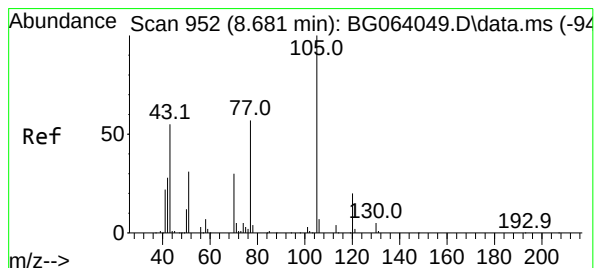
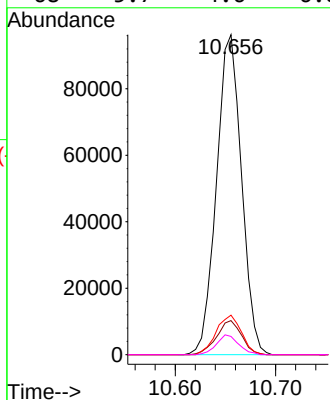
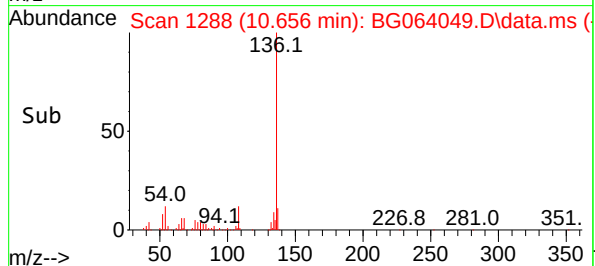
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:136 Resp: 166592  
Ion Ratio Lower Upper  
136 100  
137 10.6 8.5 12.7  
54 12.4 9.9 14.9  
68 5.7 4.6 6.8

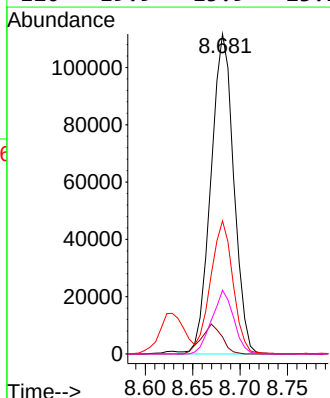
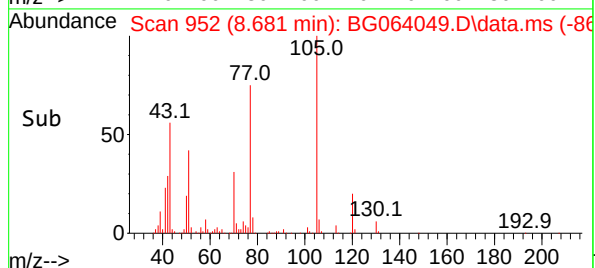
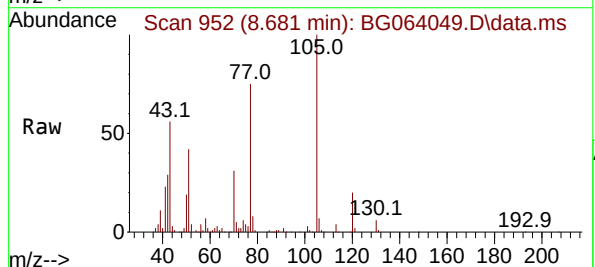
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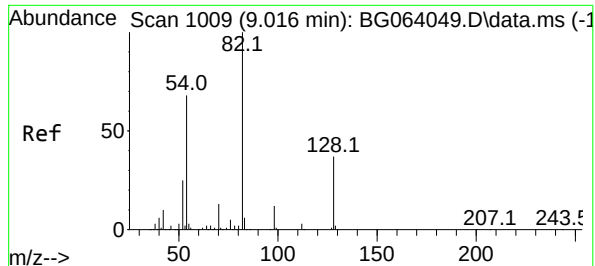
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#22  
Acetophenone  
Concen: 41.048 ng  
RT: 8.681 min Scan# 952  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion:105 Resp: 187490  
Ion Ratio Lower Upper  
105 100  
71 5.3 4.2 6.4  
51 41.6 33.3 49.9  
120 19.9 15.9 23.9





#23

Nitrobenzene-d5

Concen: 85.125 ng

RT: 9.016 min Scan# 1009

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

Instrument :

BNA\_G

ClientSampleId :

SSTDICCC040

Tgt Ion: 82 Resp: 256618

Ion Ratio Lower Upper

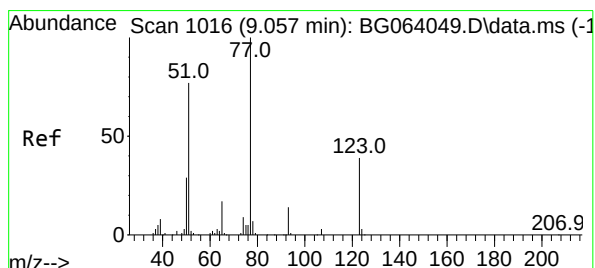
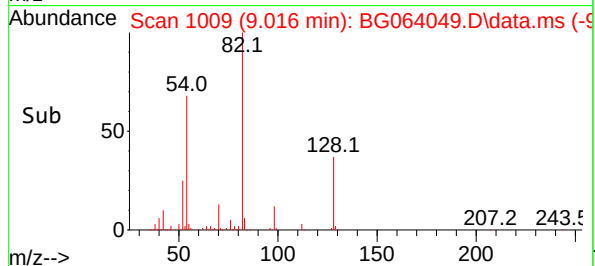
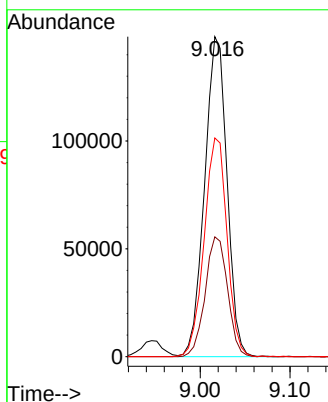
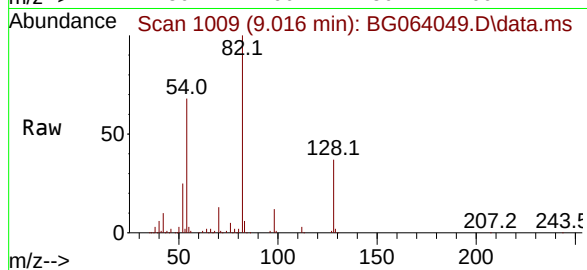
82 100

128 37.5 30.0 45.0

54 68.4 54.7 82.1

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#24

Nitrobenzene

Concen: 42.497 ng

RT: 9.057 min Scan# 1016

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

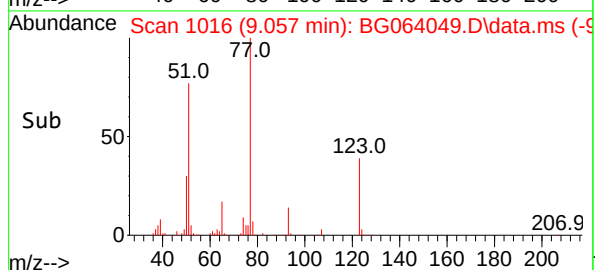
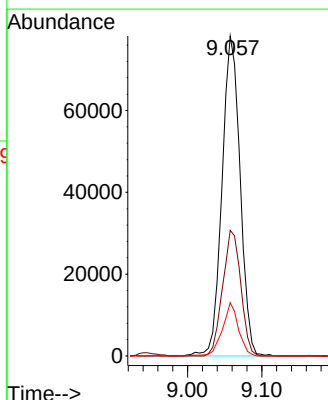
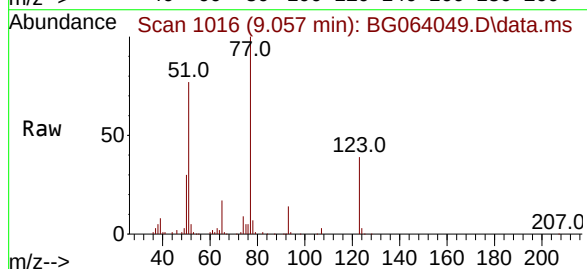
Tgt Ion: 77 Resp: 132396

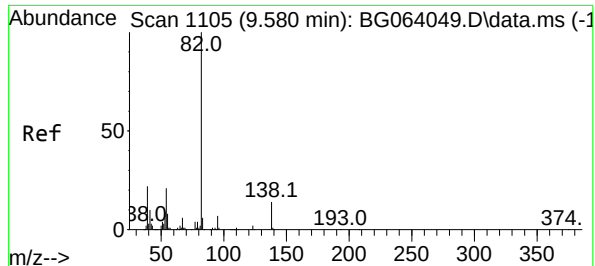
Ion Ratio Lower Upper

77 100

123 39.3 31.4 47.2

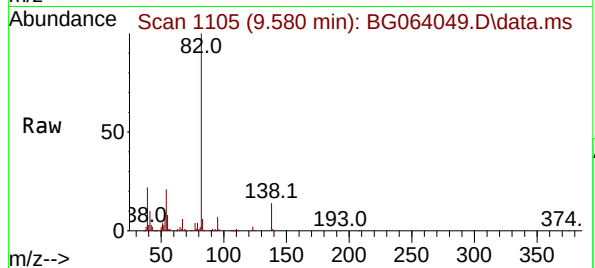
65 16.7 13.4 20.0





#25  
Isophorone  
Concen: 41.117 ng  
RT: 9.580 min Scan# 1105  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

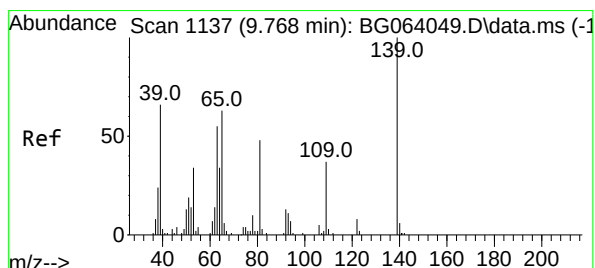
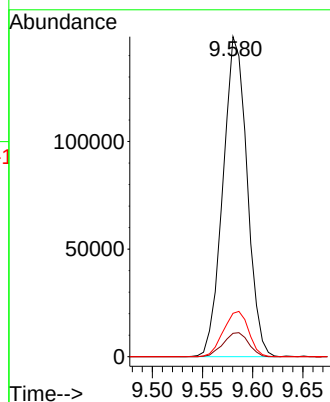
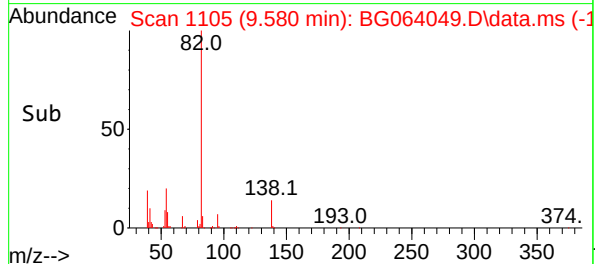
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion: 82 Resp: 248090  
Ion Ratio Lower Upper  
82 100  
95 7.3 5.8 8.8  
138 13.6 10.9 16.3

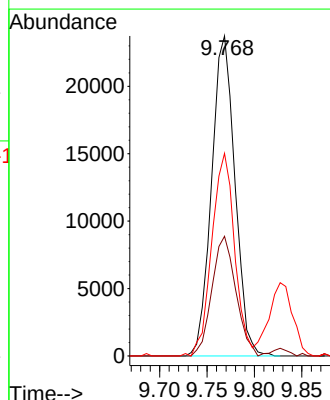
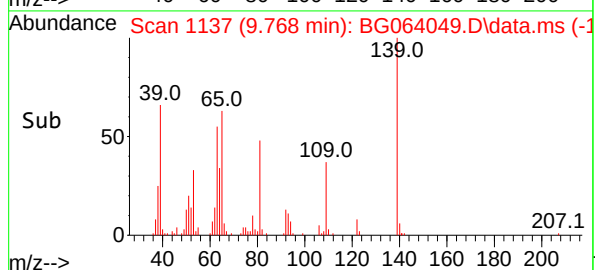
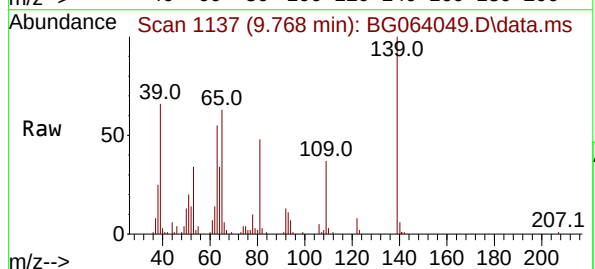
Manual Integrations  
APPROVED

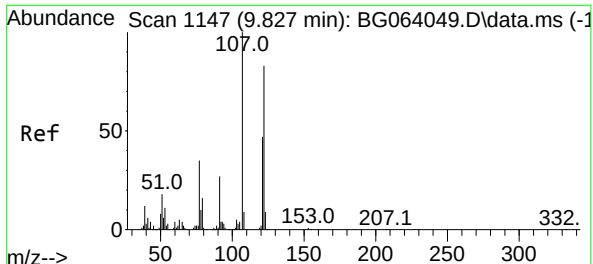
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#26  
2-Nitrophenol  
Concen: 39.553 ng  
RT: 9.768 min Scan# 1137  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

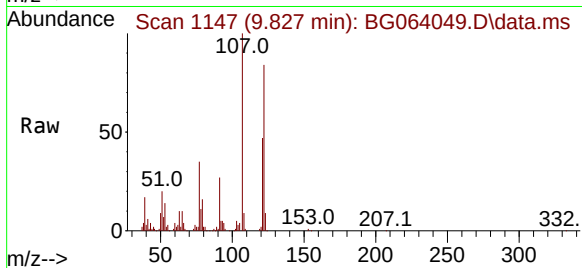
Tgt Ion:139 Resp: 40684  
Ion Ratio Lower Upper  
139 100  
109 37.4 29.9 44.9  
65 63.3 50.6 76.0





#27  
2,4-Dimethylphenol  
Concen: 42.079 ng  
RT: 9.827 min Scan# 1147  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

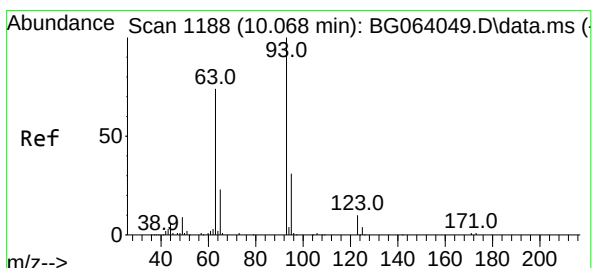
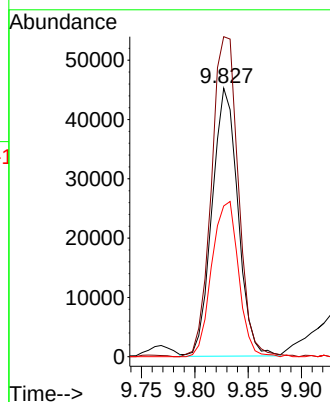
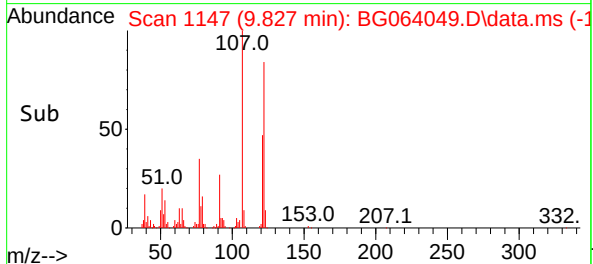
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:122 Resp: 76114  
Ion Ratio Lower Upper  
122 100  
107 119.2 95.4 143.0  
121 56.1 44.9 67.3

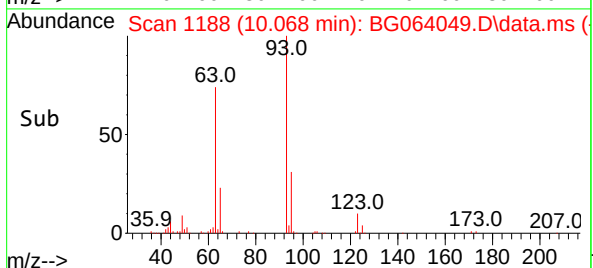
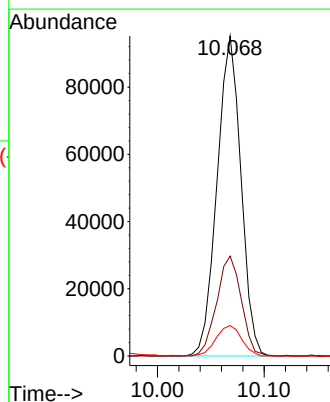
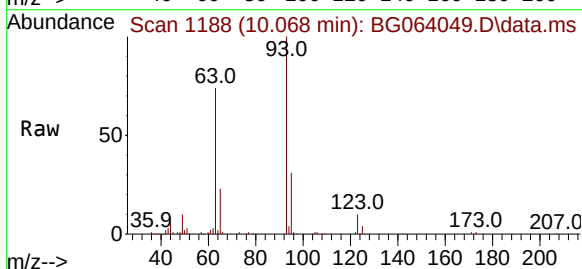
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

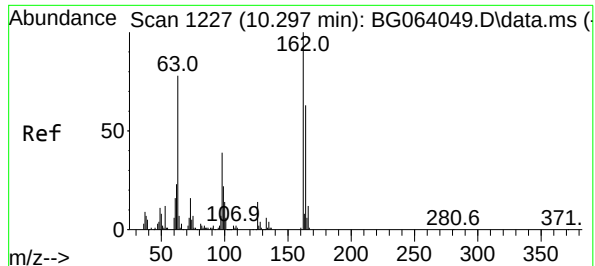


#28  
bis(2-Chloroethoxy)methane  
Concen: 40.391 ng  
RT: 10.068 min Scan# 1188  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion: 93 Resp: 147757  
Ion Ratio Lower Upper  
93 100  
95 31.2 25.0 37.4  
123 9.5 7.6 11.4

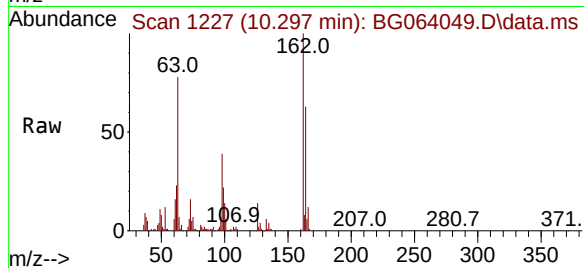






#29  
2,4-Dichlorophenol  
Concen: 41.916 ng  
RT: 10.297 min Scan# 1227  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

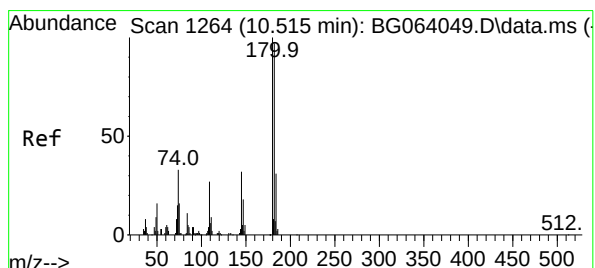
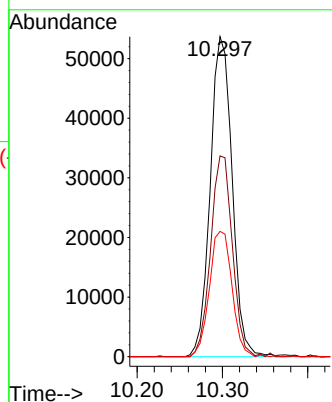
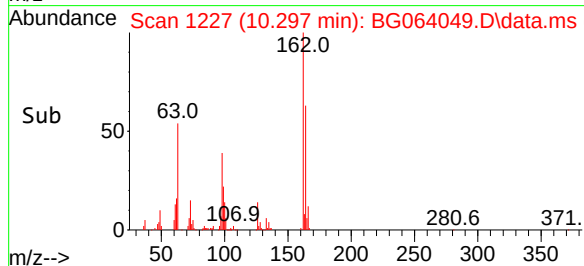
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:162 Resp: 95738  
Ion Ratio Lower Upper  
162 100  
164 62.8 42.8 82.8  
98 39.1 19.1 59.1

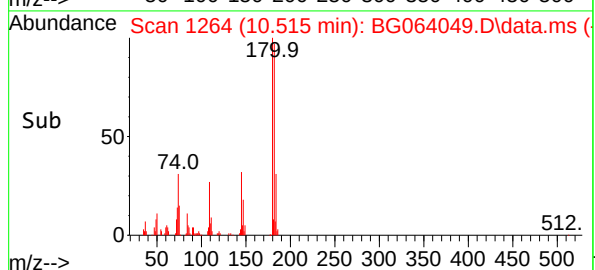
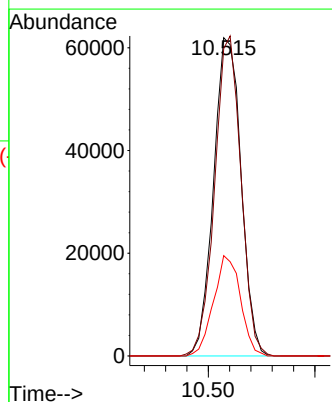
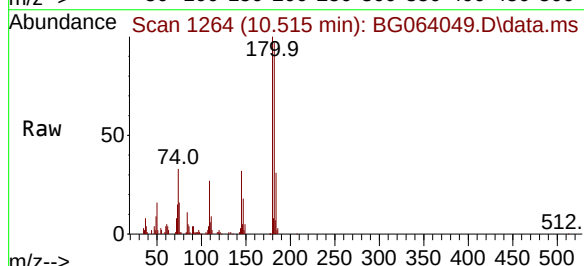
Manual Integrations  
APPROVED

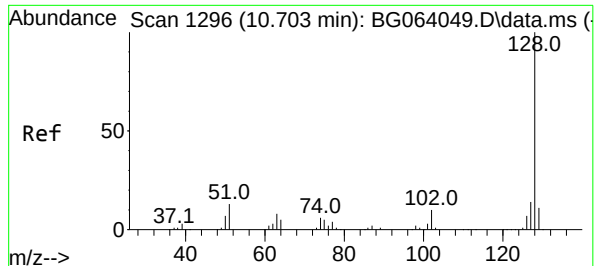
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#30  
1,2,4-Trichlorobenzene  
Concen: 40.125 ng  
RT: 10.515 min Scan# 1264  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

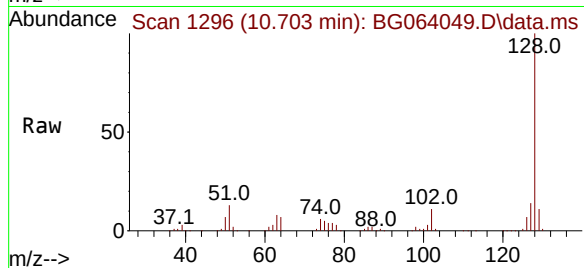
Tgt Ion:180 Resp: 110636  
Ion Ratio Lower Upper  
180 100  
182 96.6 77.3 115.9  
145 31.5 25.2 37.8





#31  
Naphthalene  
Concen: 40.004 ng  
RT: 10.703 min Scan# 1296  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

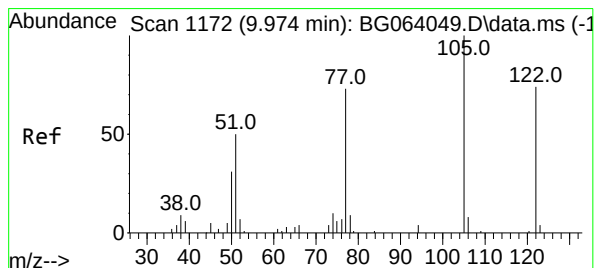
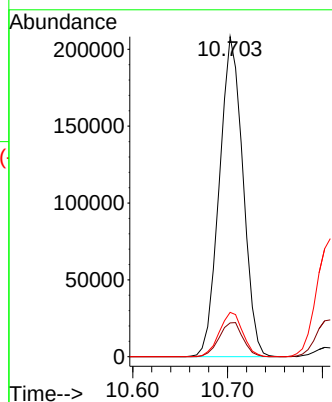
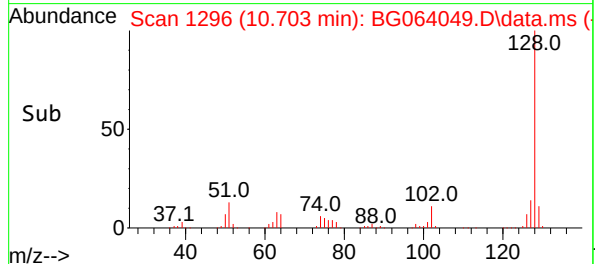
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:128 Resp: 359362  
Ion Ratio Lower Upper  
128 100  
129 10.5 8.4 12.6  
127 13.9 11.1 16.7

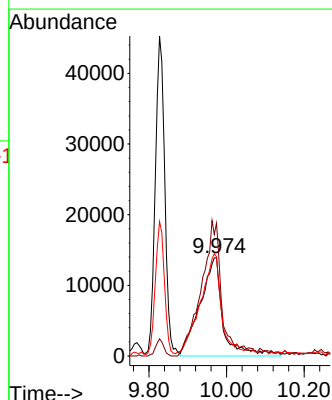
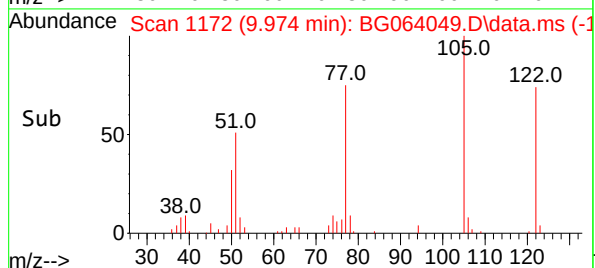
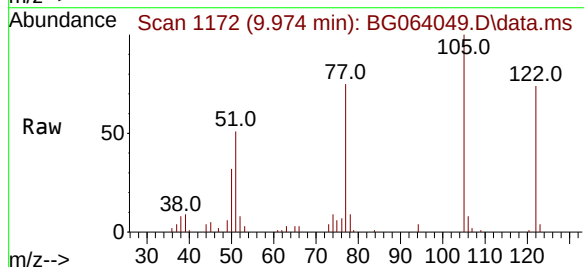
Manual Integrations  
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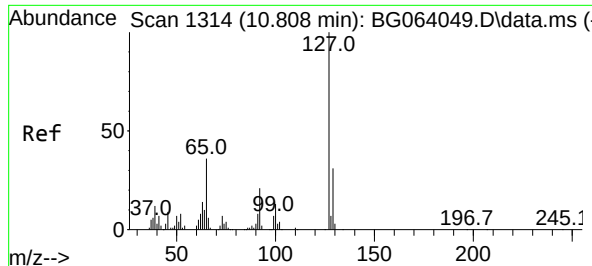
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#32  
Benzoic acid  
Concen: 37.004 ng m  
RT: 9.974 min Scan# 1172  
Delta R.T. -0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

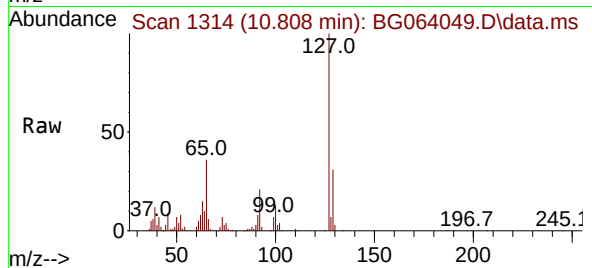
Tgt Ion:122 Resp: 57392  
Ion Ratio Lower Upper  
122 100  
105 135.0 115.0 155.0  
77 100.9 80.9 120.9





#33  
4-Chloroaniline  
Concen: 42.251 ng  
RT: 10.808 min Scan# 1314  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

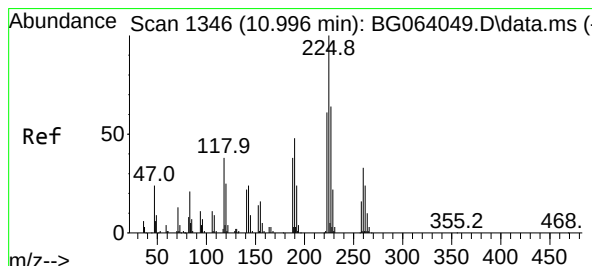
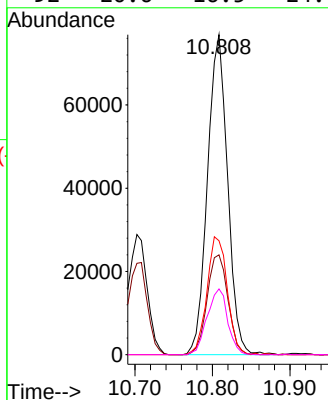
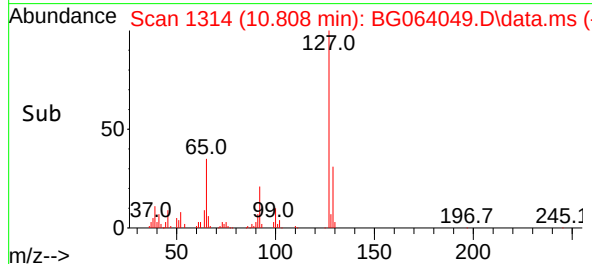
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 31.2  | 25.0  | 37.4  |
| 65      | 35.6  | 28.5  | 42.7  |
| 92      | 20.6  | 16.5  | 24.7  |

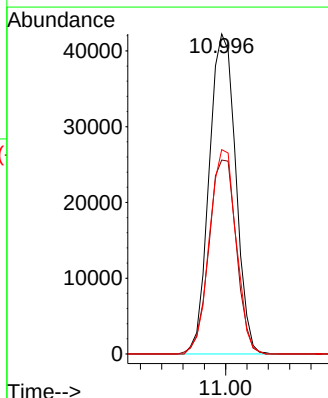
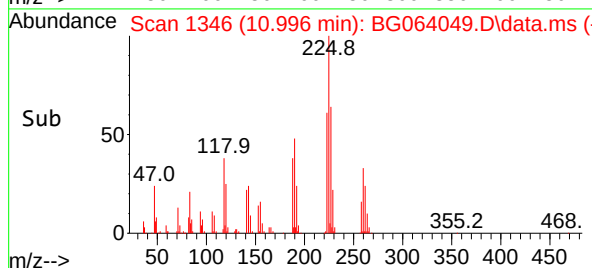
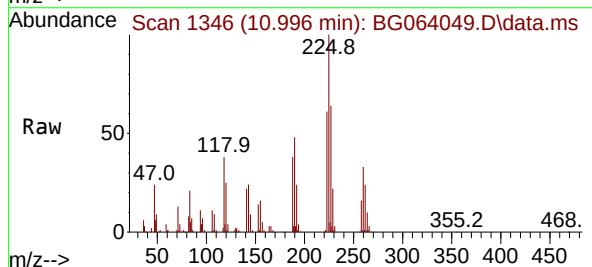
Manual Integrations  
APPROVED

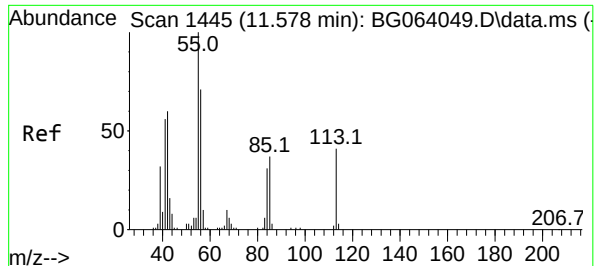
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#34  
Hexachlorobutadiene  
Concen: 40.294 ng  
RT: 10.996 min Scan# 1346  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 60.6  | 48.5  | 72.7  |
| 227     | 63.8  | 51.0  | 76.6  |





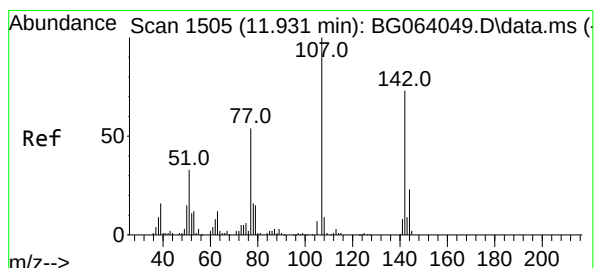
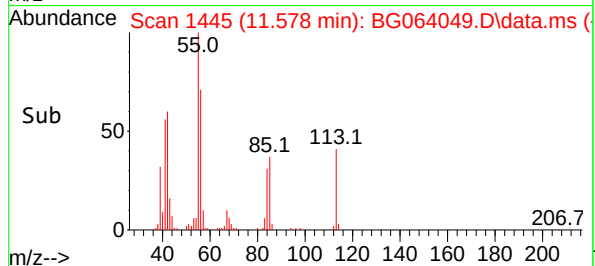
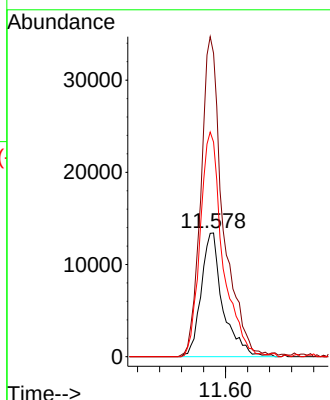
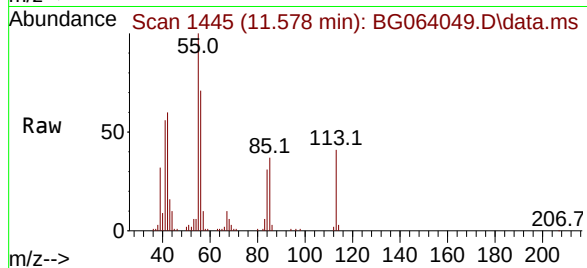
#35  
Caprolactam  
Concen: 41.970 ng  
RT: 11.578 min Scan# 1445  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040

Tgt Ion:113 Resp: 36730  
Ion Ratio Lower Upper  
113 100  
55 245.2 225.2 265.2  
56 173.4 153.4 193.4

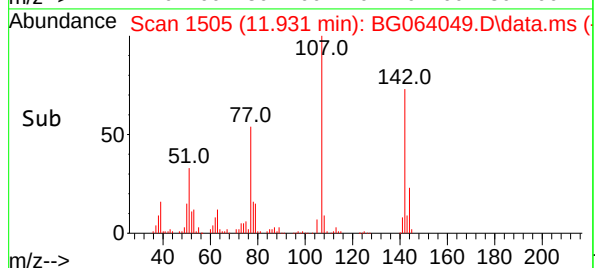
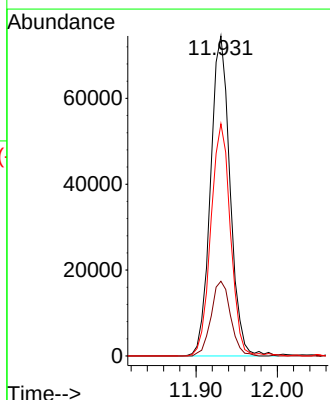
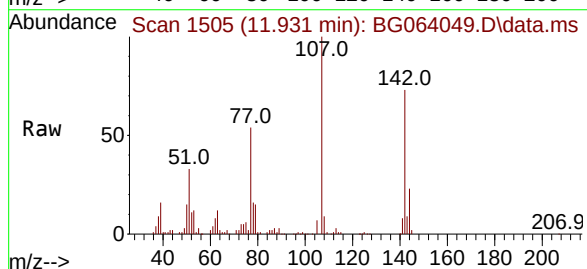
Manual Integrations  
APPROVED

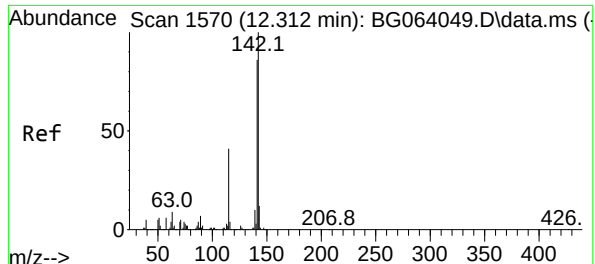
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#36  
4-Chloro-3-methylphenol  
Concen: 41.558 ng  
RT: 11.931 min Scan# 1505  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion:107 Resp: 124422  
Ion Ratio Lower Upper  
107 100  
144 23.3 18.6 28.0  
142 72.5 58.0 87.0





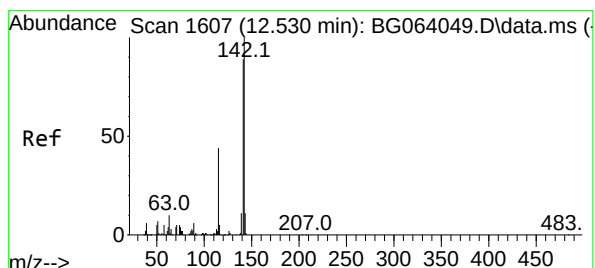
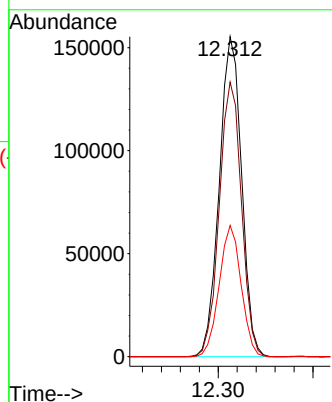
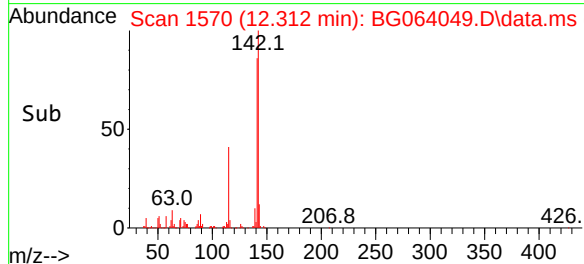
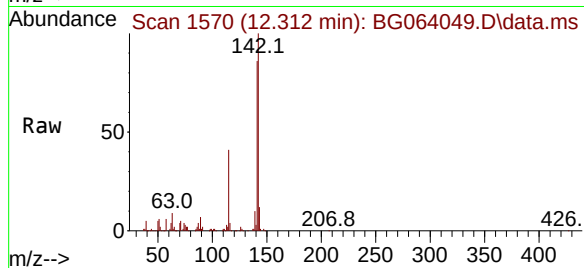
#37  
2-Methylnaphthalene  
Concen: 40.099 ng  
RT: 12.312 min Scan# 1570  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040

Tgt Ion:142 Resp: 254290  
Ion Ratio Lower Upper  
142 100  
141 85.8 68.6 103.0  
115 41.0 32.8 49.2

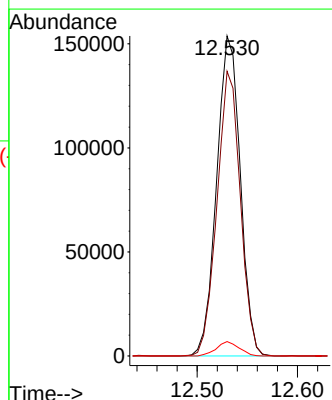
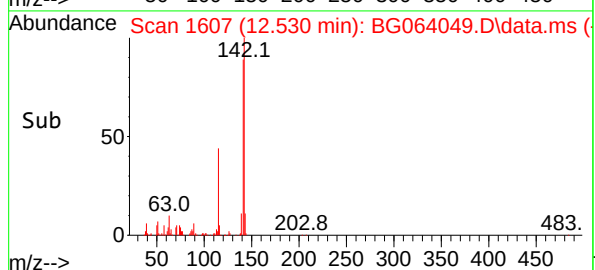
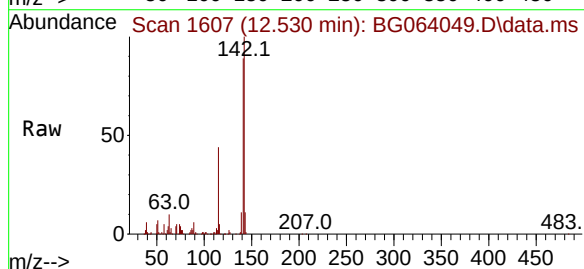
Manual Integrations  
APPROVED

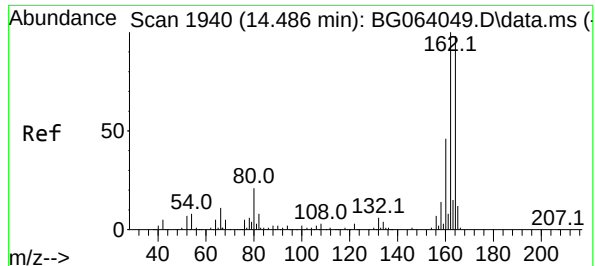
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#38  
1-Methylnaphthalene  
Concen: 40.394 ng  
RT: 12.530 min Scan# 1607  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion:142 Resp: 250971  
Ion Ratio Lower Upper  
142 100  
141 89.0 71.2 106.8  
116 4.5 3.6 5.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.486 min Scan# 1940

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

Instrument :

BNA\_G

ClientSampleId :

SSTDICCC040

Tgt Ion:164 Resp: 113400

Ion Ratio Lower Upper

164 100

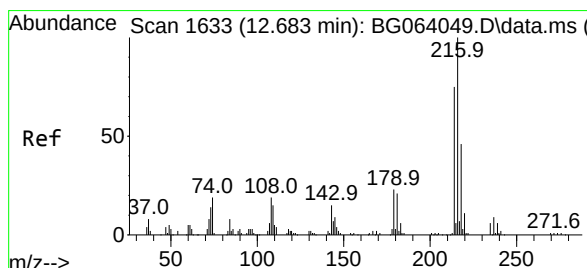
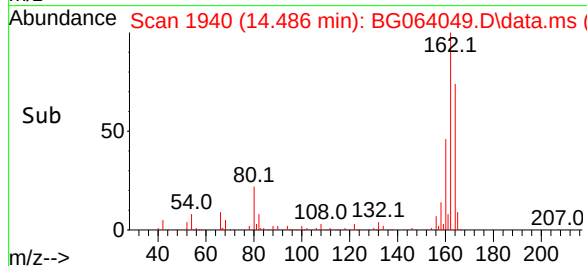
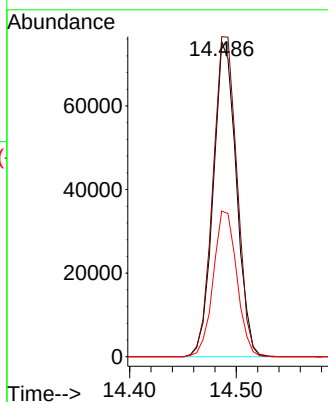
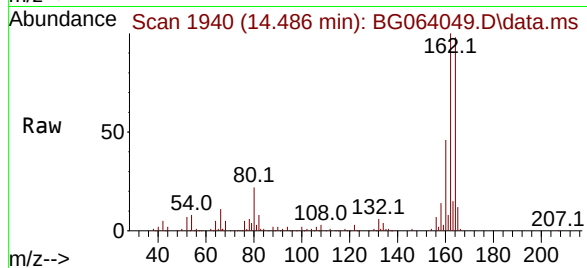
162 101.7 81.4 122.0

160 46.3 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025



#40

1,2,4,5-Tetrachlorobenzene

Concen: 41.034 ng

RT: 12.683 min Scan# 1633

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

Tgt Ion:216 Resp: 132854

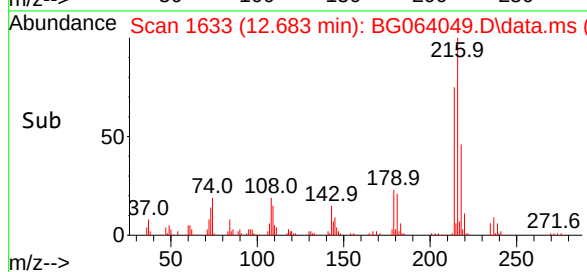
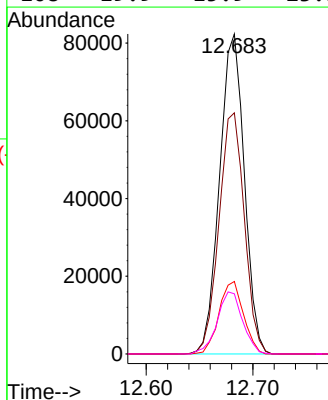
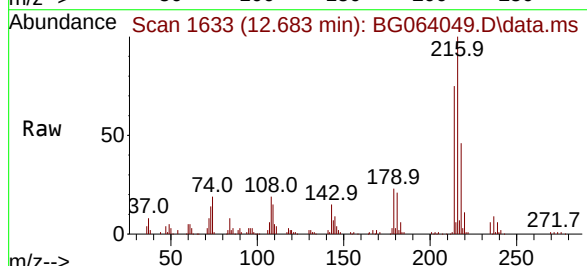
Ion Ratio Lower Upper

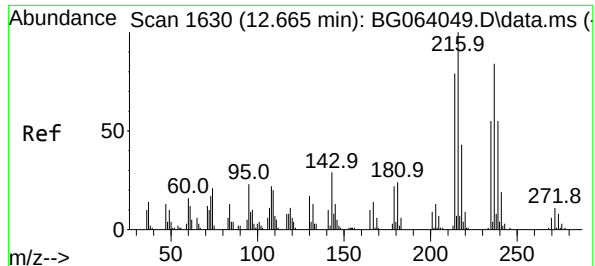
216 100

214 77.1 61.7 92.5

179 22.4 17.9 26.9

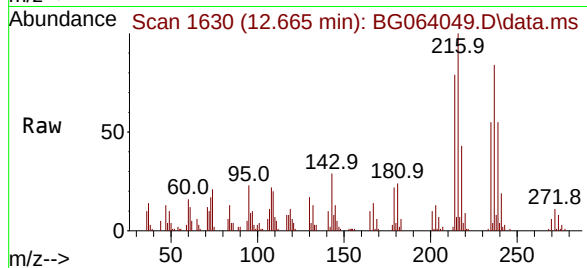
108 19.9 15.9 23.9





#41  
Hexachlorocyclopentadiene  
Concen: 43.464 ng  
RT: 12.665 min Scan# 1630  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

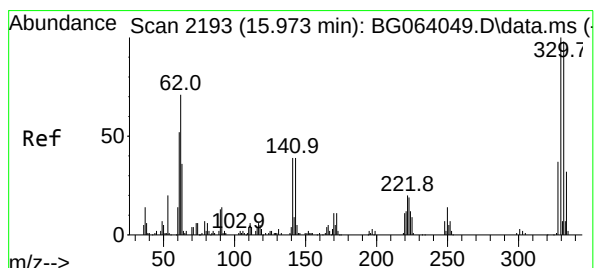
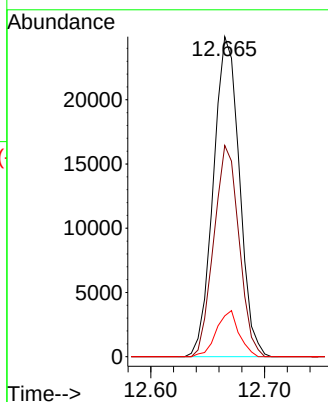
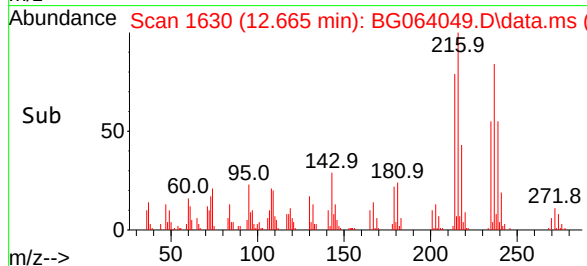
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



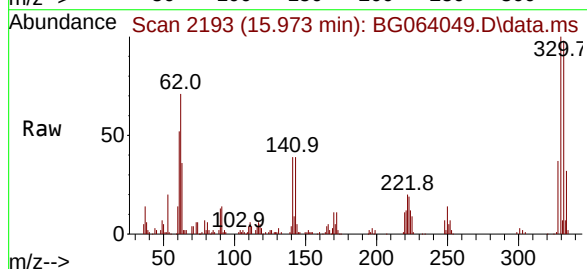
Tgt Ion:237 Resp: 39600  
Ion Ratio Lower Upper  
237 100  
235 66.0 46.0 86.0  
272 12.8 0.0 32.8

Manual Integrations  
APPROVED

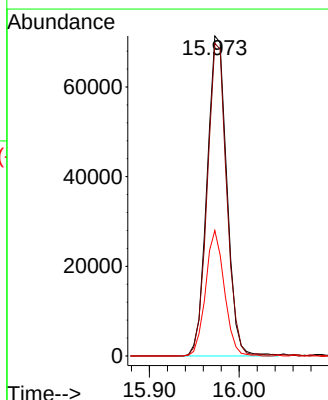
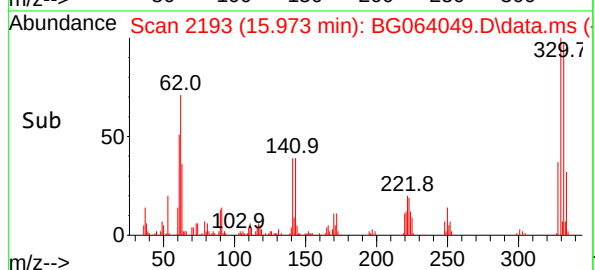
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

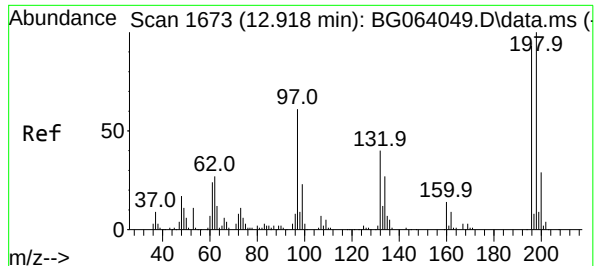


#42  
2,4,6-Tribromophenol  
Concen: 86.616 ng  
RT: 15.973 min Scan# 2193  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43



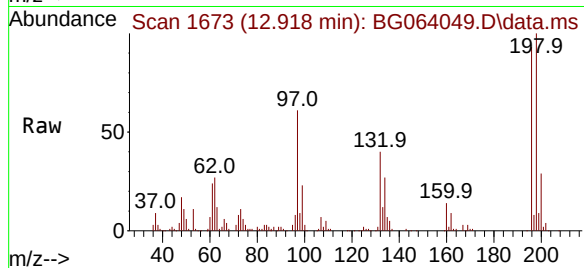
Tgt Ion:330 Resp: 109187  
Ion Ratio Lower Upper  
330 100  
332 95.9 76.7 115.1  
141 37.1 29.7 44.5





#43  
2,4,6-Trichlorophenol  
Concen: 42.524 ng  
RT: 12.918 min Scan# 1673  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

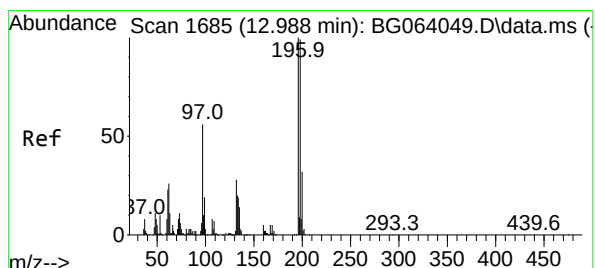
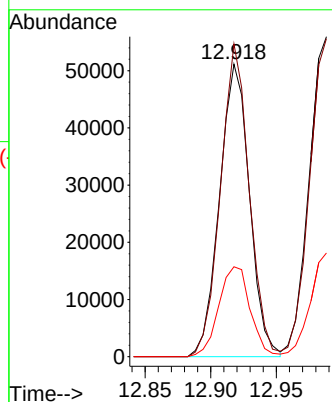
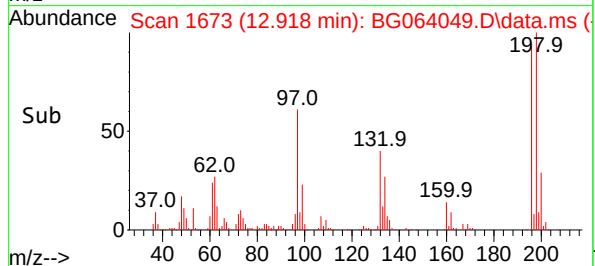
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:196 Resp: 81144  
Ion Ratio Lower Upper  
196 100  
198 107.0 85.6 128.4  
200 30.8 24.6 37.0

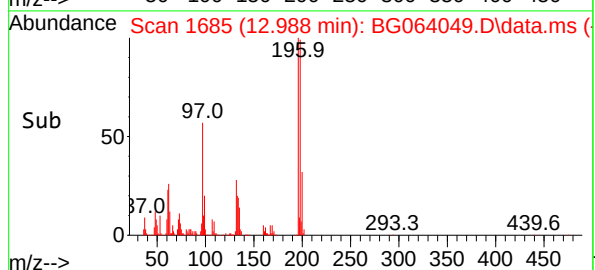
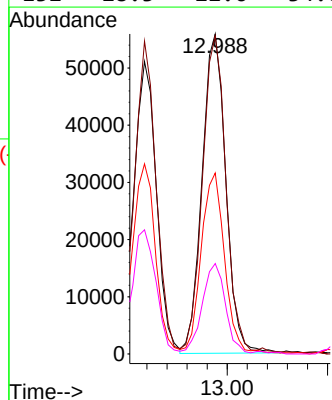
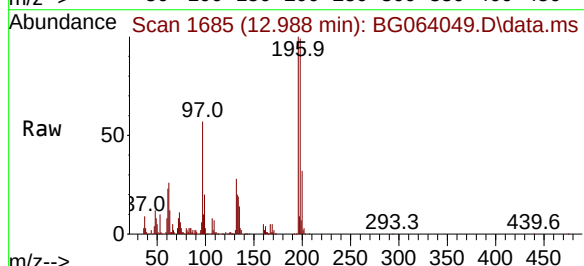
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

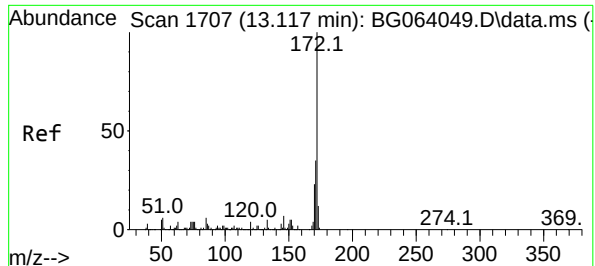


#44  
2,4,5-Trichlorophenol  
Concen: 43.449 ng  
RT: 12.988 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion:196 Resp: 92122  
Ion Ratio Lower Upper  
196 100  
198 99.4 79.5 119.3  
97 56.5 45.2 67.8  
132 28.3 22.6 34.0

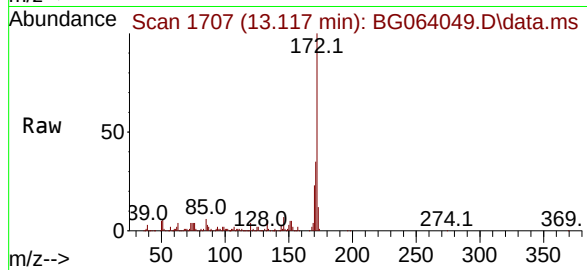






#45  
2-Fluorobiphenyl  
Concen: 83.029 ng  
RT: 13.117 min Scan# 1707  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

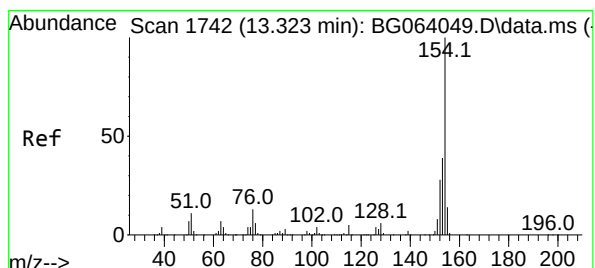
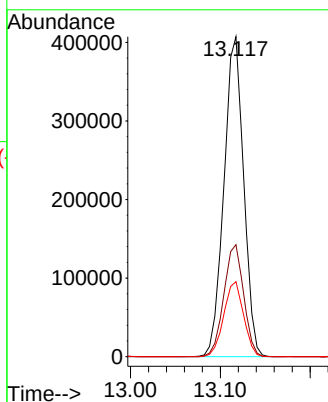
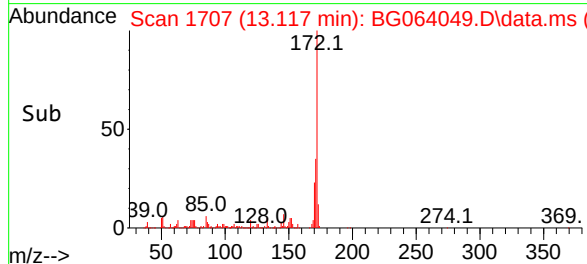
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



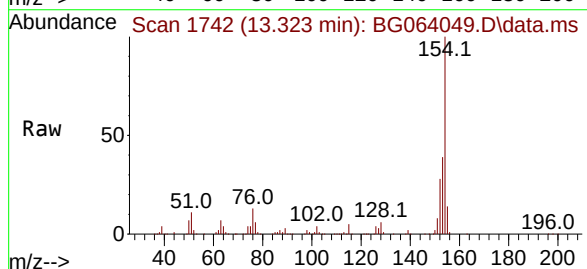
Tgt Ion:172 Resp: 620339  
Ion Ratio Lower Upper  
172 100  
171 35.0 28.0 42.0  
170 23.4 18.7 28.1

Manual Integrations  
APPROVED

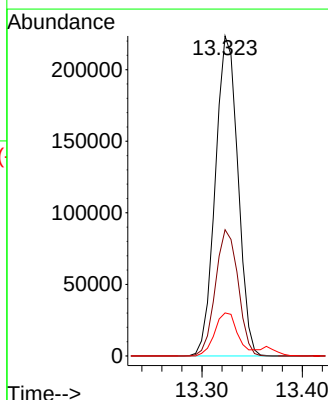
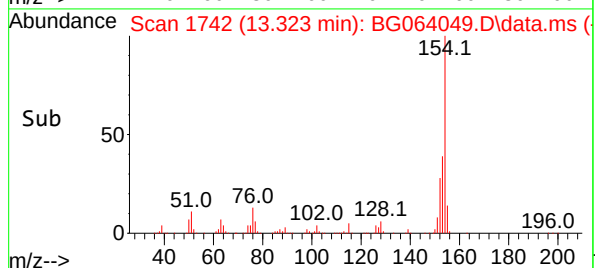
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

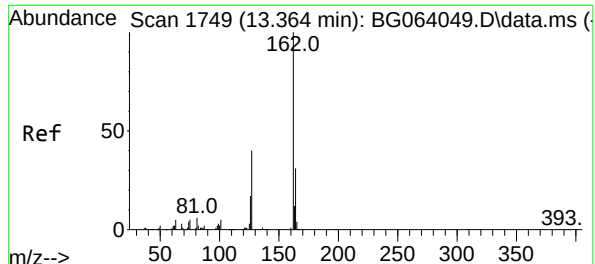


#46  
1,1'-Biphenyl  
Concen: 40.719 ng  
RT: 13.323 min Scan# 1742  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43



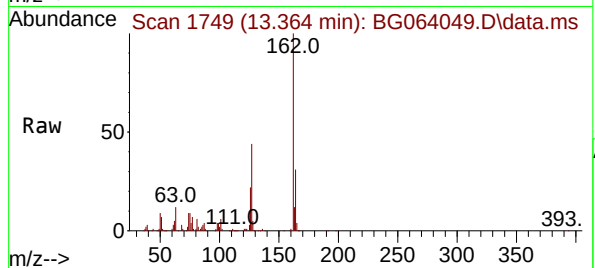
Tgt Ion:154 Resp: 348881  
Ion Ratio Lower Upper  
154 100  
153 39.5 19.5 59.5  
76 13.5 0.0 33.5





#47  
2-Chloronaphthalene  
Concen: 40.894 ng  
RT: 13.364 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

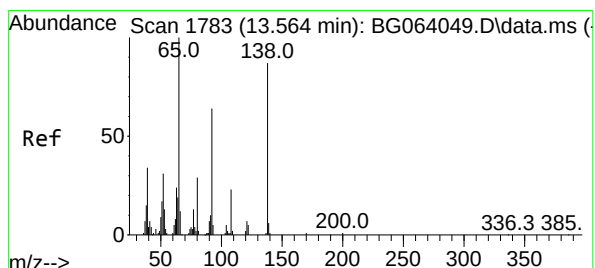
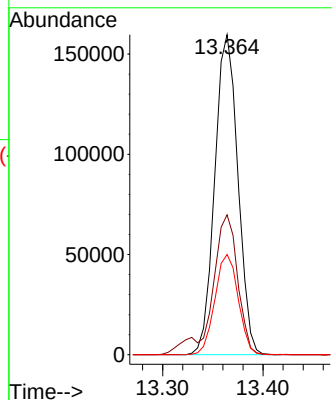
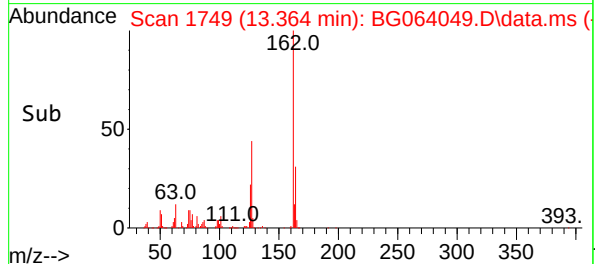
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:162 Resp: 25554  
Ion Ratio Lower Upper  
162 100  
127 43.7 35.0 52.4  
164 31.3 25.0 37.6

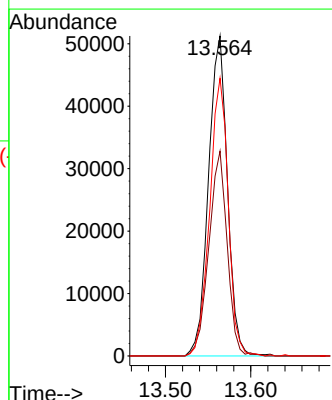
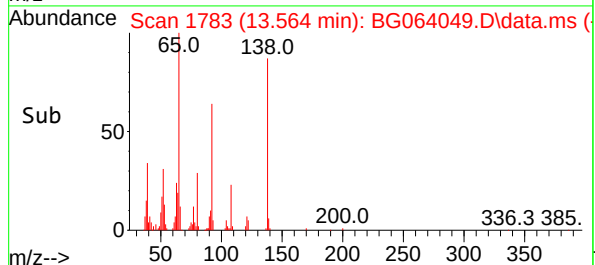
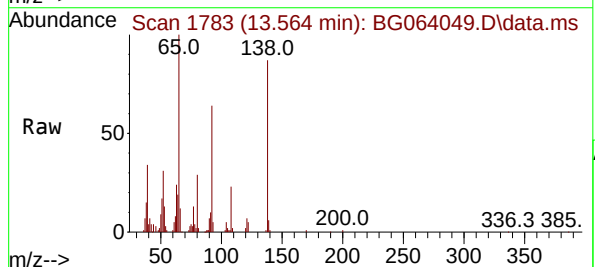
Manual Integrations  
APPROVED

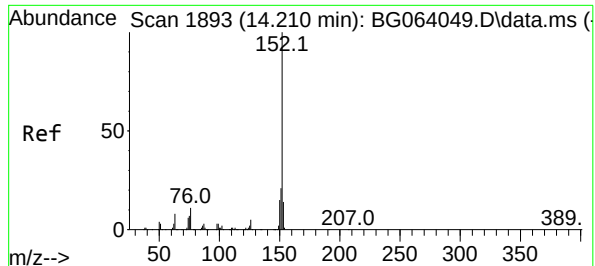
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#48  
2-Nitroaniline  
Concen: 39.603 ng  
RT: 13.564 min Scan# 1783  
Delta R.T. -0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

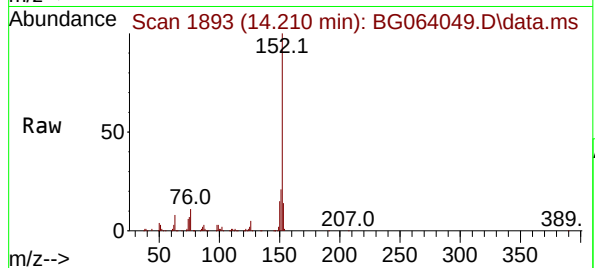
Tgt Ion: 65 Resp: 78919  
Ion Ratio Lower Upper  
65 100  
92 64.0 51.2 76.8  
138 86.8 69.4 104.2





#49  
Acenaphthylene  
Concen: 41.052 ng  
RT: 14.210 min Scan# 1893  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

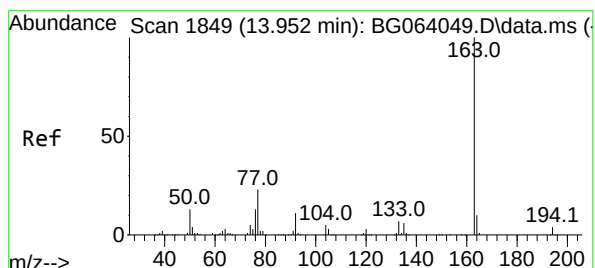
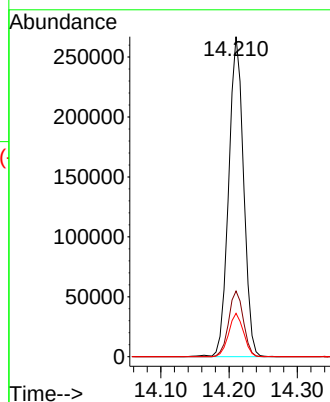
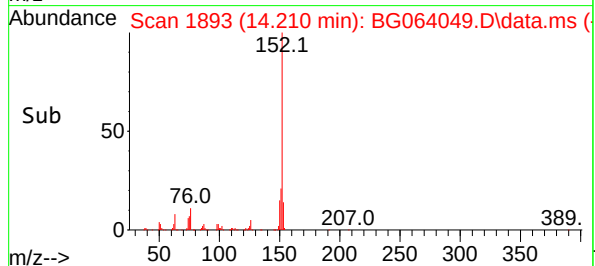
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:152 Resp: 405750  
Ion Ratio Lower Upper  
152 100  
151 20.5 16.4 24.6  
153 13.6 10.9 16.3

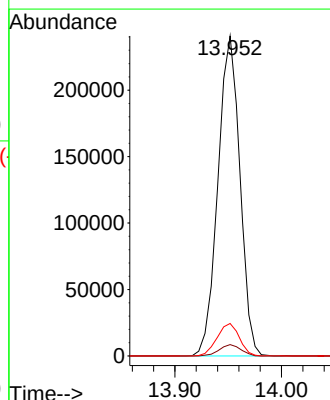
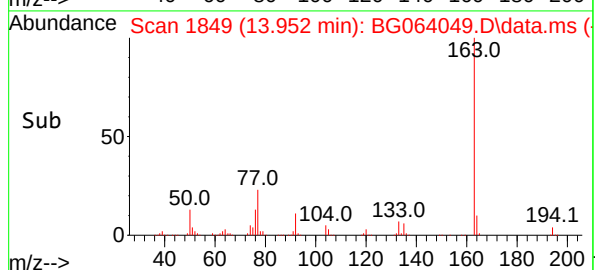
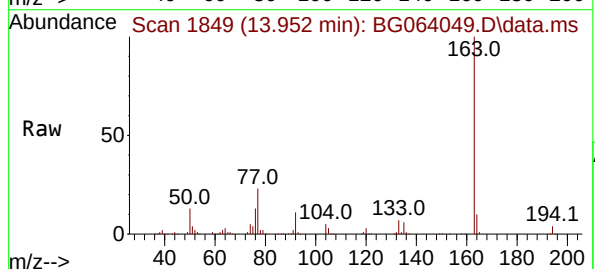
Manual Integrations  
APPROVED

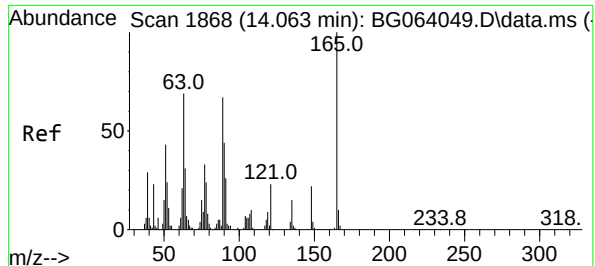
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#50  
Dimethylphthalate  
Concen: 41.187 ng  
RT: 13.952 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion:163 Resp: 344791  
Ion Ratio Lower Upper  
163 100  
194 3.5 2.8 4.2  
164 10.2 8.2 12.2





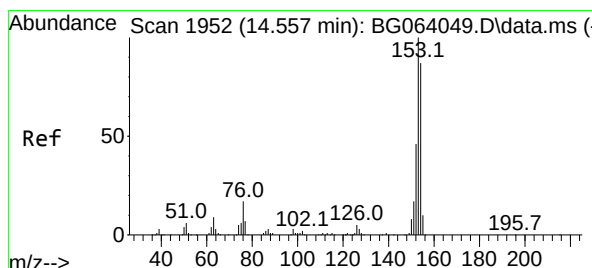
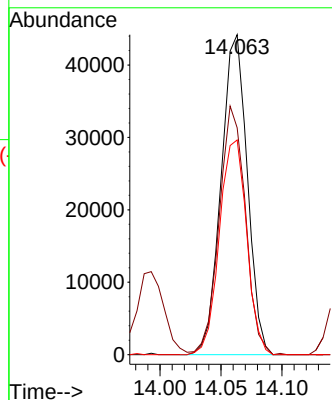
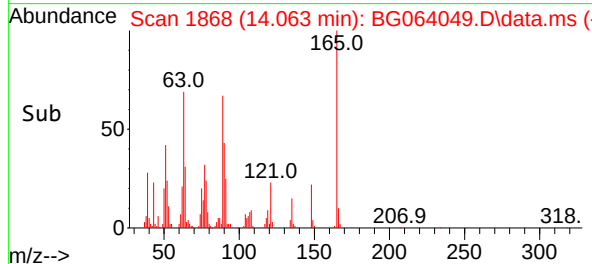
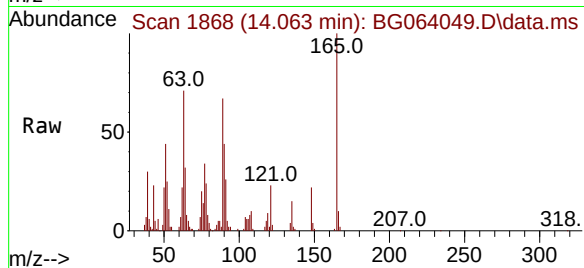
#51  
2,6-Dinitrotoluene  
Concen: 39.610 ng  
RT: 14.063 min Scan# 1868  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040

Tgt Ion:165 Resp: 66200  
Ion Ratio Lower Upper  
165 100  
63 70.9 56.7 85.1  
89 67.1 53.7 80.5

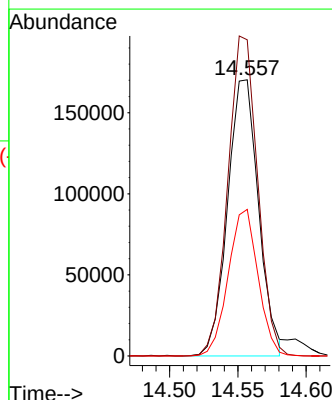
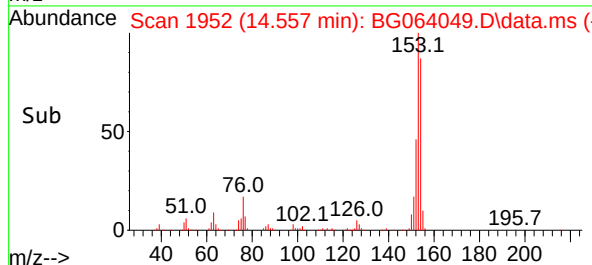
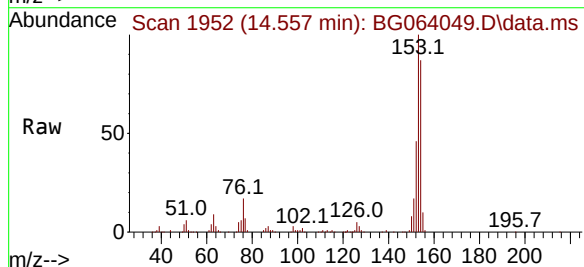
Manual Integrations  
APPROVED

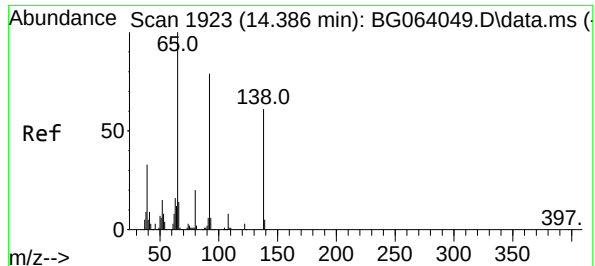
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#52  
Acenaphthene  
Concen: 40.492 ng m  
RT: 14.557 min Scan# 1952  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

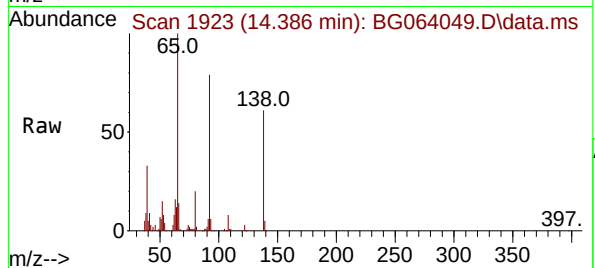
Tgt Ion:154 Resp: 269147  
Ion Ratio Lower Upper  
154 100  
153 114.5 91.6 137.4  
152 53.1 42.5 63.7





#53  
3-Nitroaniline  
Concen: 44.330 ng  
RT: 14.386 min Scan# 1923  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

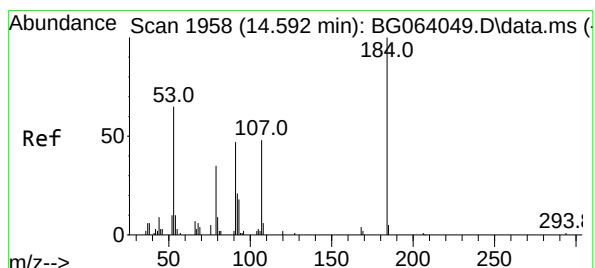
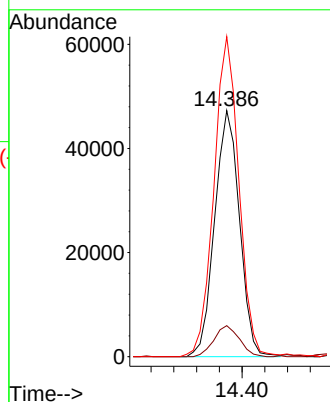
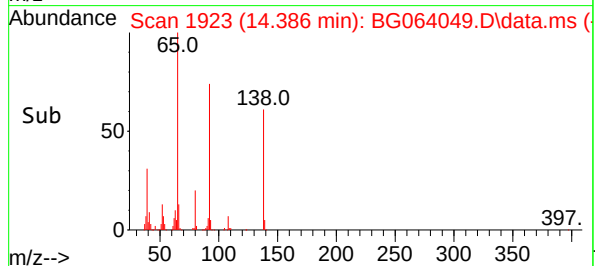
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



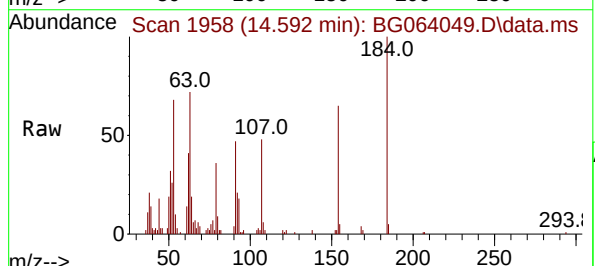
Tgt Ion:138 Resp: 71724  
Ion Ratio Lower Upper  
138 100  
108 12.6 10.1 15.1  
92 130.1 104.1 156.1

Manual Integrations  
APPROVED

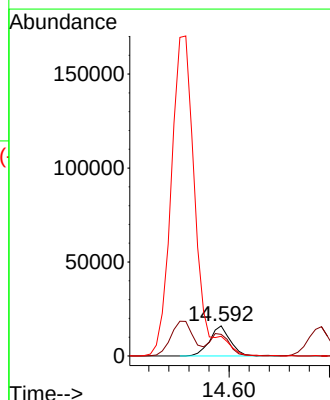
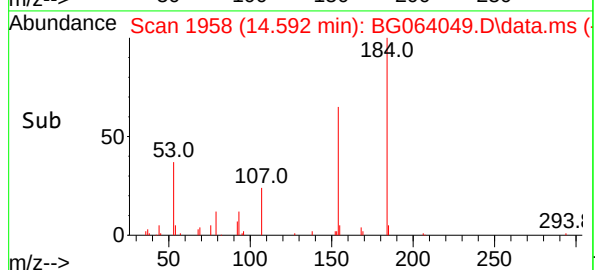
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

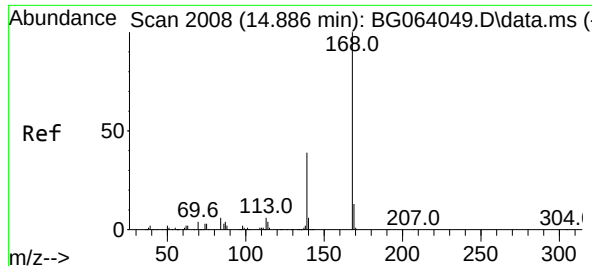


#54  
2,4-Dinitrophenol  
Concen: 36.881 ng  
RT: 14.592 min Scan# 1958  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43



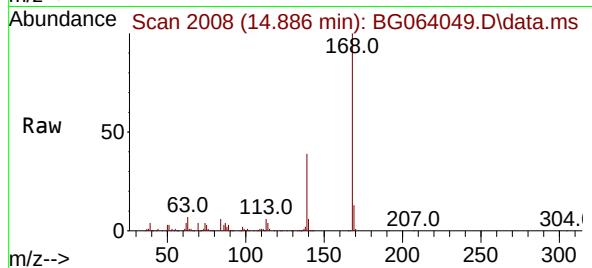
Tgt Ion:184 Resp: 22778  
Ion Ratio Lower Upper  
184 100  
63 71.9 57.5 86.3  
154 65.4 52.3 78.5





#55  
Dibenzenofuran  
Concen: 40.970 ng  
RT: 14.886 min Scan# 2008  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

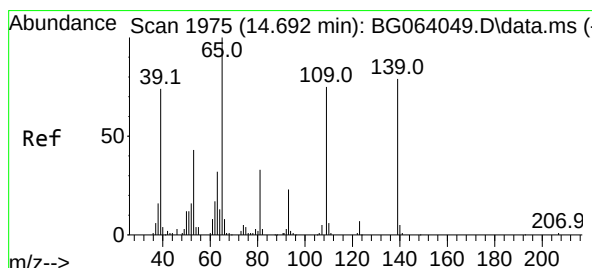
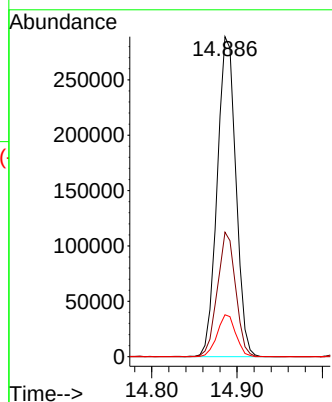
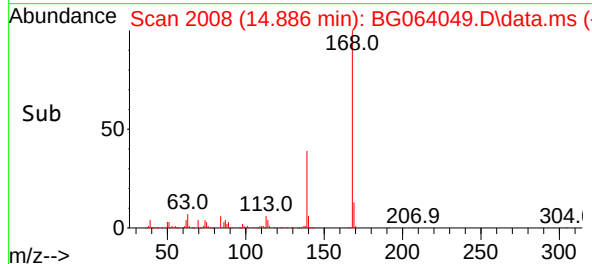
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:168 Resp: 44025  
Ion Ratio Lower Upper  
168 100  
139 38.9 31.1 46.7  
169 13.1 10.5 15.7

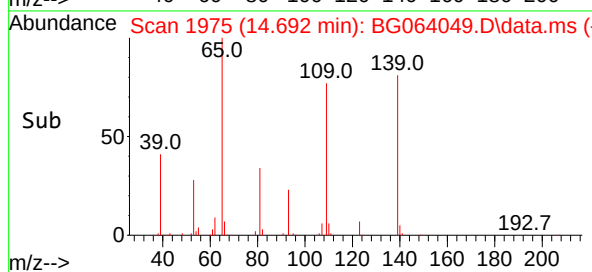
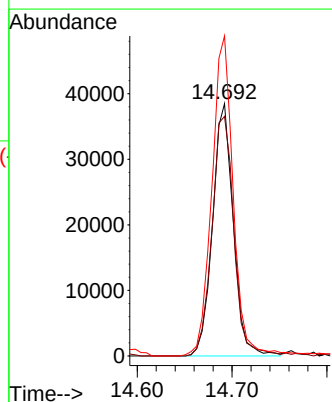
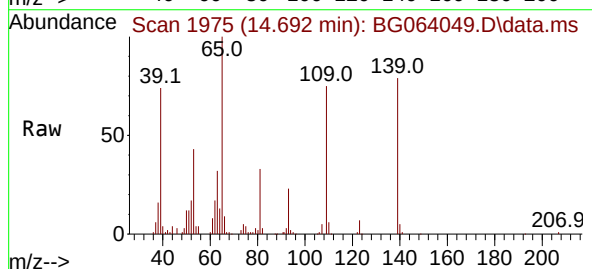
Manual Integrations  
APPROVED

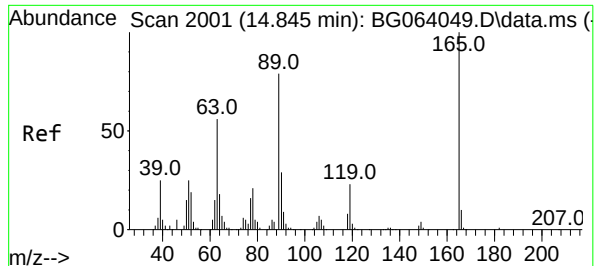
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#56  
4-Nitrophenol  
Concen: 42.977 ng  
RT: 14.692 min Scan# 1975  
Delta R.T. -0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

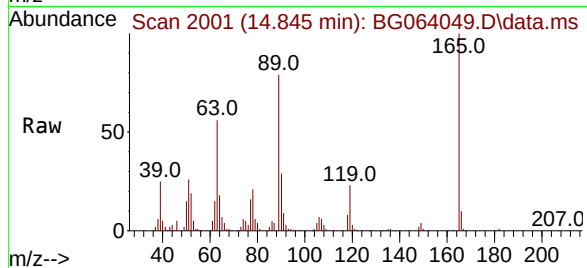
Tgt Ion:139 Resp: 58316  
Ion Ratio Lower Upper  
139 100  
109 94.9 74.9 114.9  
65 126.8 106.8 146.8





#57  
2,4-Dinitrotoluene  
Concen: 39.789 ng  
RT: 14.845 min Scan# 2001  
Delta R.T. -0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

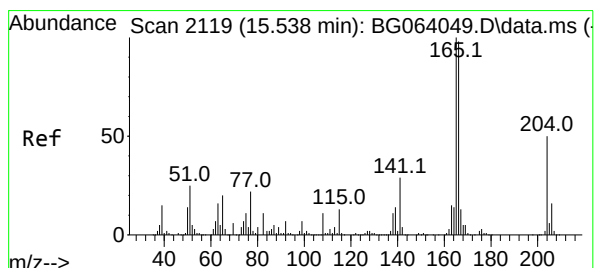
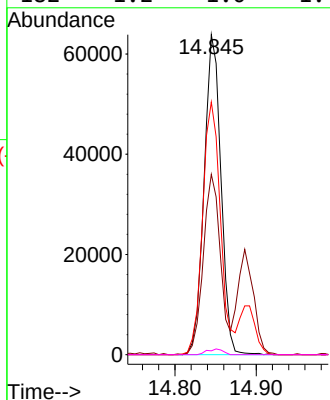
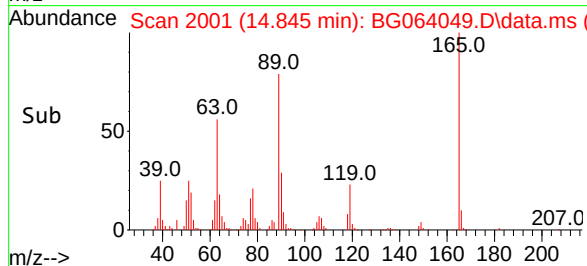
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:165 Resp: 91658  
Ion Ratio Lower Upper  
165 100  
63 56.3 45.0 67.6  
89 78.9 63.1 94.7  
182 1.2 1.0 1.4

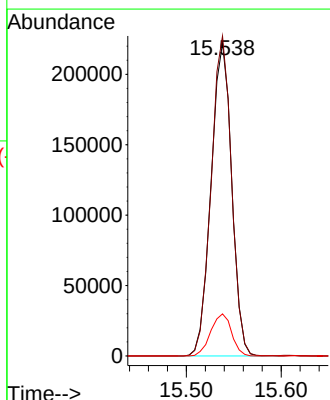
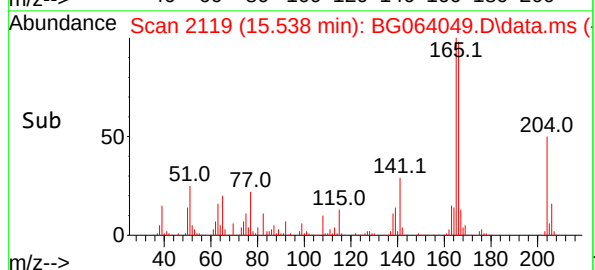
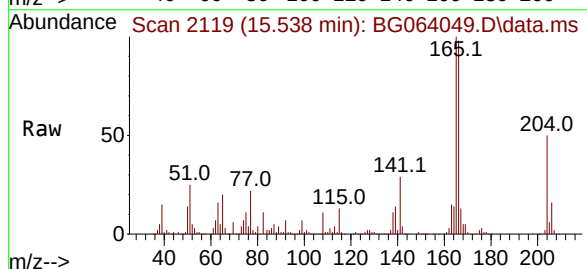
Manual Integrations  
APPROVED

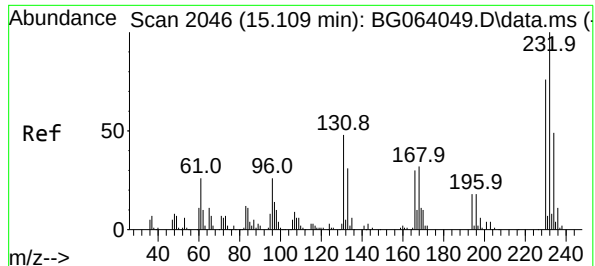
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#58  
Fluorene  
Concen: 40.055 ng  
RT: 15.538 min Scan# 2119  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

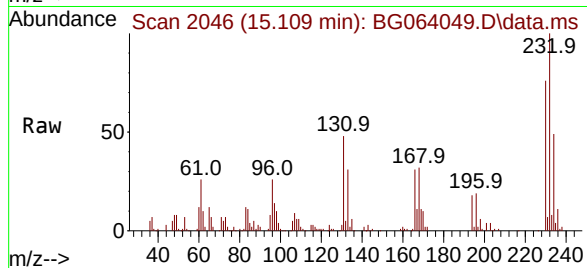
Tgt Ion:166 Resp: 335238  
Ion Ratio Lower Upper  
166 100  
165 102.3 81.8 122.8  
167 13.5 10.8 16.2





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 43.345 ng  
RT: 15.109 min Scan# 2046  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

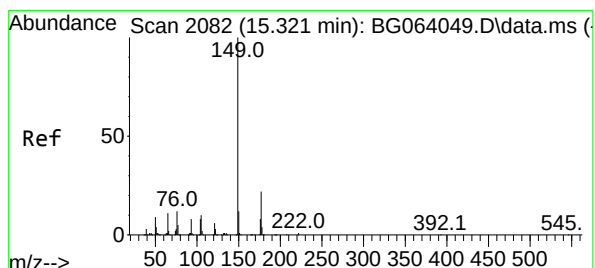
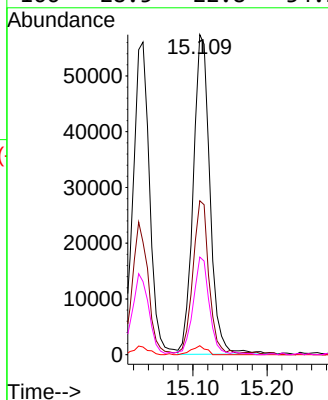
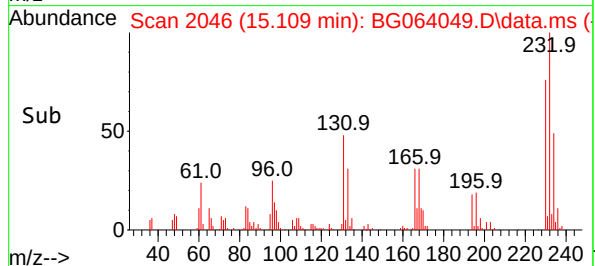
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:232 Resp: 89594  
Ion Ratio Lower Upper  
232 100  
131 45.4 36.3 54.5  
130 2.4 1.9 2.9  
166 28.5 22.8 34.2

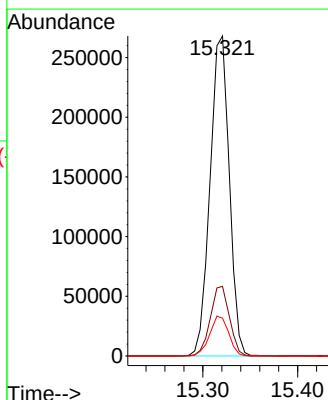
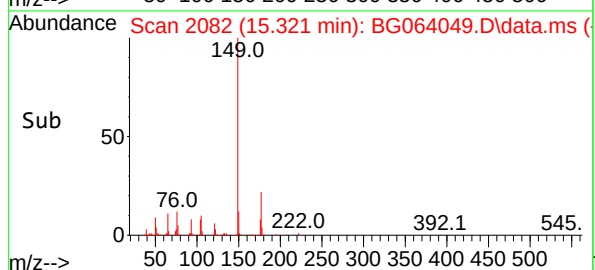
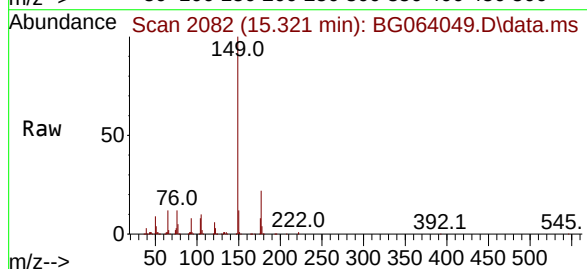
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

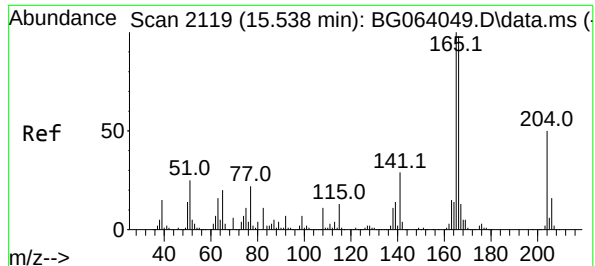


#60  
Diethylphthalate  
Concen: 41.645 ng  
RT: 15.321 min Scan# 2082  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion:149 Resp: 378464  
Ion Ratio Lower Upper  
149 100  
177 21.8 17.4 26.2  
150 11.8 9.4 14.2

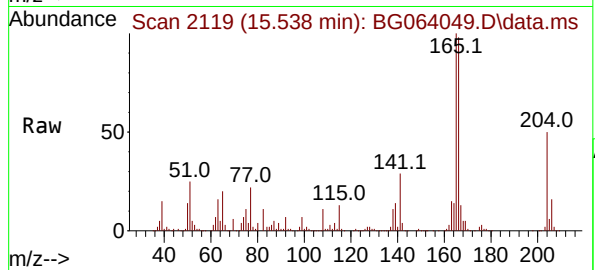






#61  
4-Chlorophenyl-phenylether  
Concen: 40.061 ng  
RT: 15.538 min Scan# 2119  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

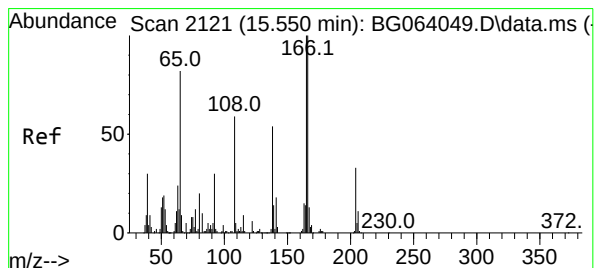
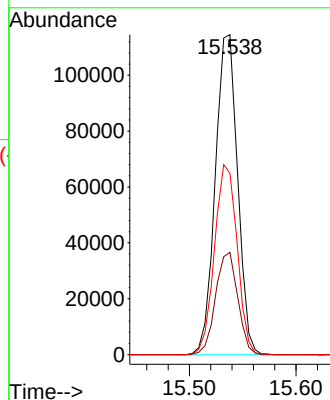
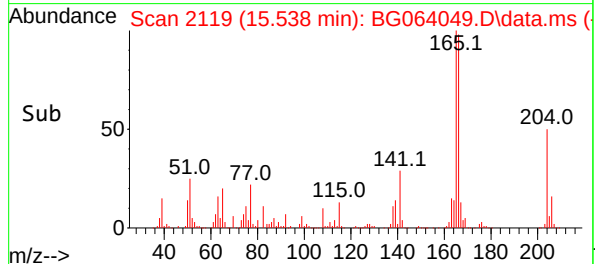
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:204 Resp: 16661  
Ion Ratio Lower Upper  
204 100  
206 31.9 25.5 38.3  
141 56.7 45.4 68.0

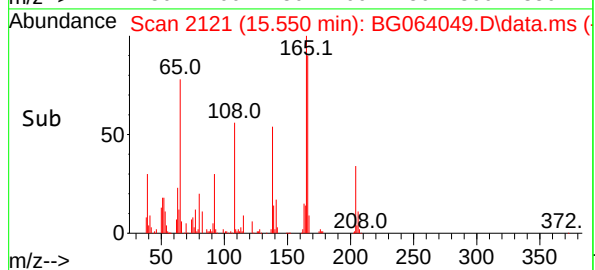
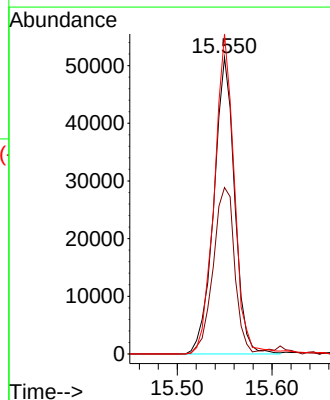
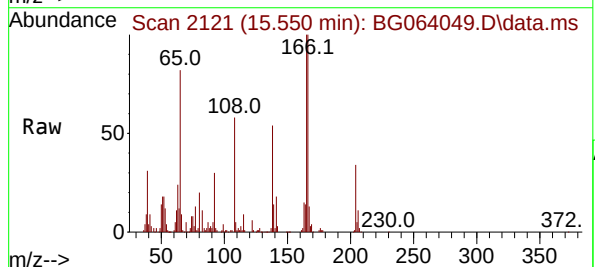
Manual Integrations  
APPROVED

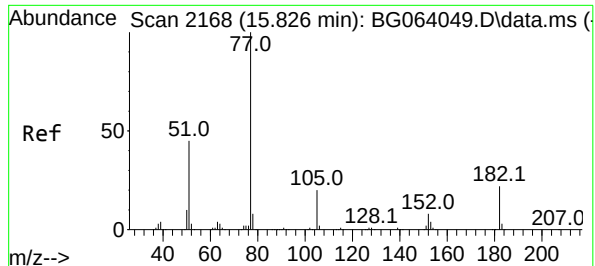
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#62  
4-Nitroaniline  
Concen: 44.838 ng  
RT: 15.550 min Scan# 2121  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

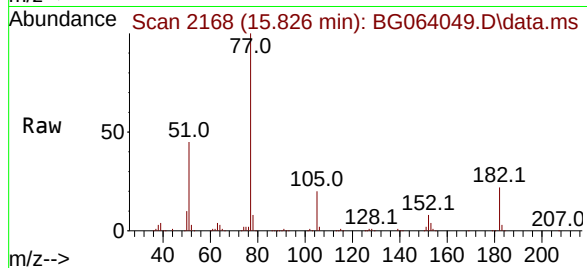
Tgt Ion:138 Resp: 78323  
Ion Ratio Lower Upper  
138 100  
92 56.1 36.1 76.1  
108 107.9 87.9 127.9





#63  
Azobenzene  
Concen: 41.125 ng  
RT: 15.826 min Scan# 2168  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

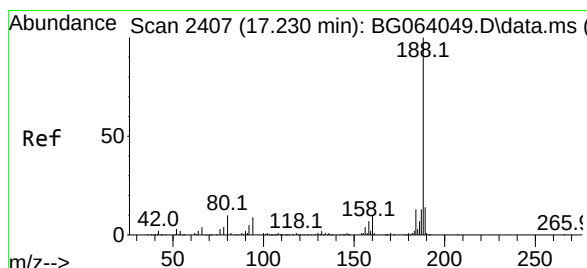
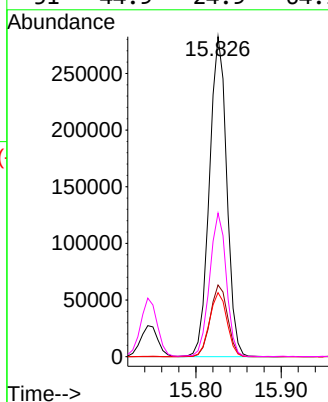
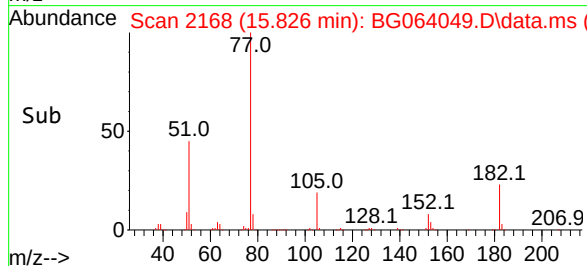
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



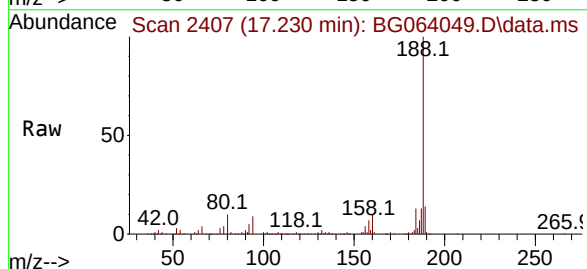
Tgt Ion: 77 Resp: 398810  
Ion Ratio Lower Upper  
77 100  
182 22.4 2.4 42.4  
105 20.0 0.0 40.0  
51 44.9 24.9 64.9

Manual Integrations  
APPROVED

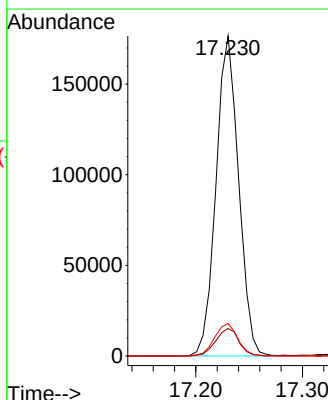
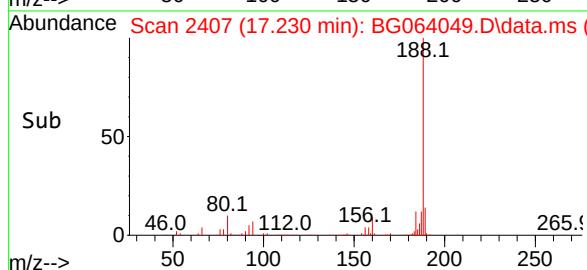
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

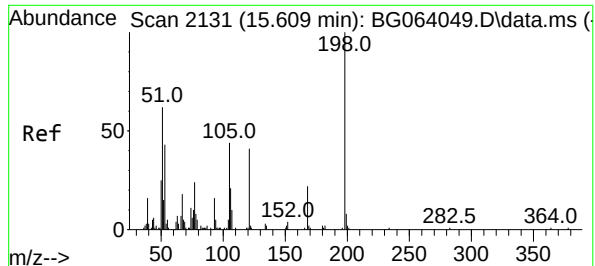


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.230 min Scan# 2407  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43



Tgt Ion:188 Resp: 259291  
Ion Ratio Lower Upper  
188 100  
94 8.6 6.9 10.3  
80 10.1 8.1 12.1





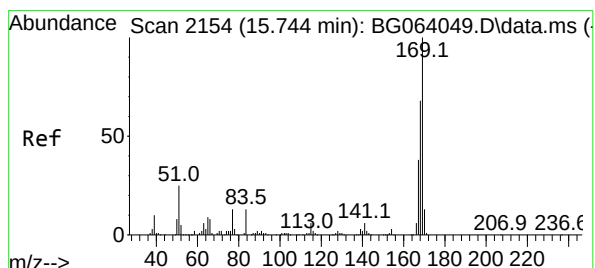
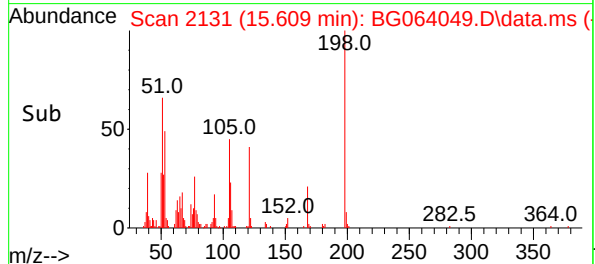
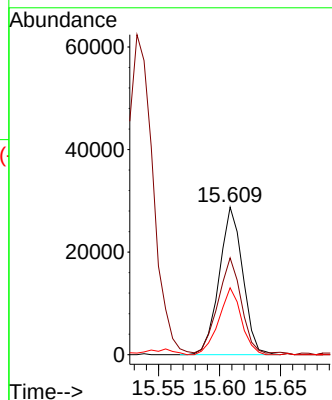
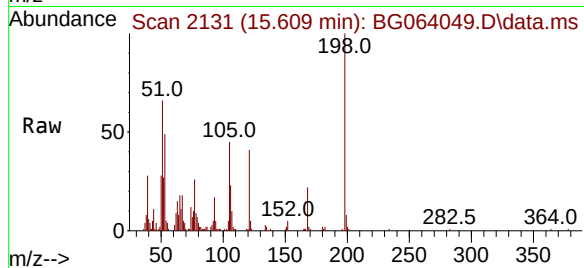
#65  
4,6-Dinitro-2-methylphenol  
Concen: 36.802 ng  
RT: 15.609 min Scan# 2131  
Delta R.T. -0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040

Tgt Ion:198 Resp: 3864  
Ion Ratio Lower Upper  
198 100  
51 65.6 45.6 85.6  
105 45.3 25.3 65.3

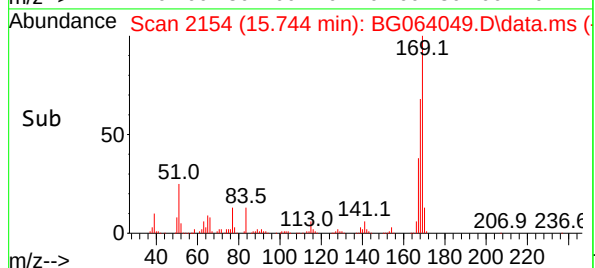
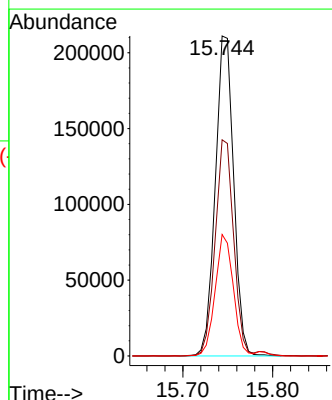
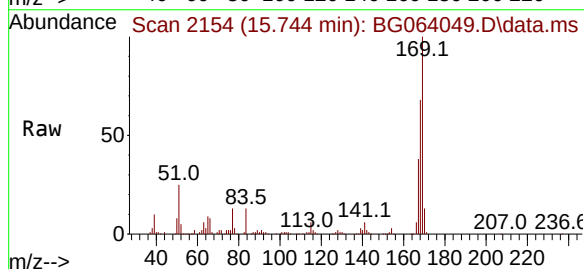
Manual Integrations  
APPROVED

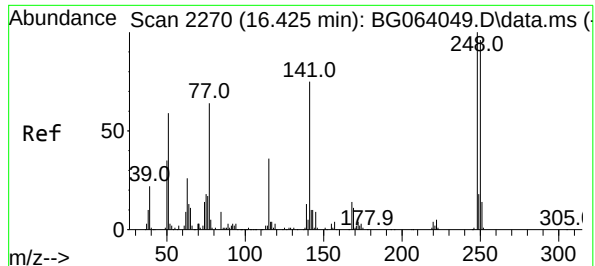
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#66  
n-Nitrosodiphenylamine  
Concen: 40.872 ng  
RT: 15.744 min Scan# 2154  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

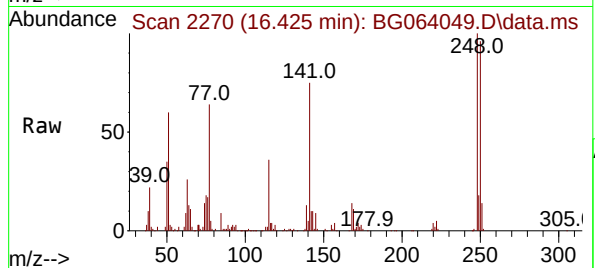
Tgt Ion:169 Resp: 299980  
Ion Ratio Lower Upper  
169 100  
168 67.6 54.1 81.1  
167 37.9 30.3 45.5





#67  
4-Bromophenyl-phenylether  
Concen: 41.081 ng  
RT: 16.425 min Scan# 2270  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

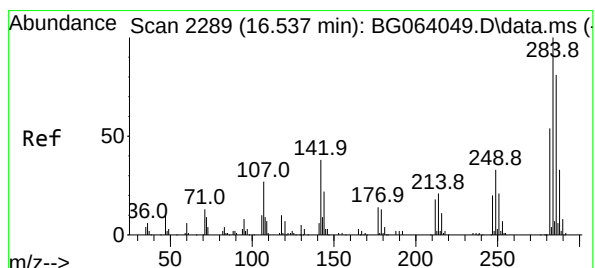
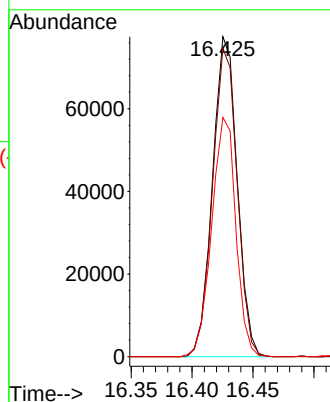
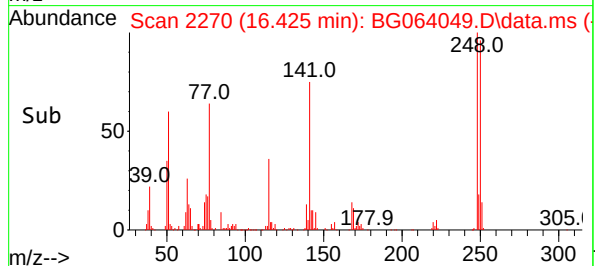
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:248 Resp: 109099  
Ion Ratio Lower Upper  
248 100  
250 96.4 77.1 115.7  
141 74.8 59.8 89.8

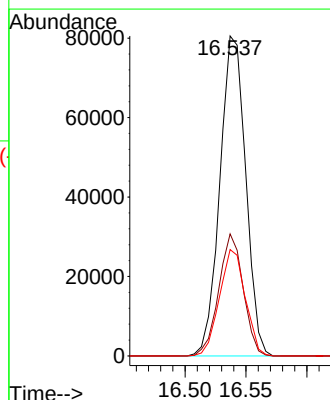
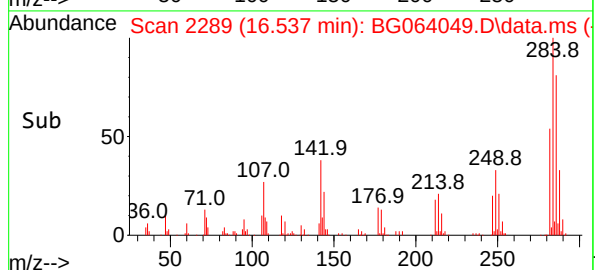
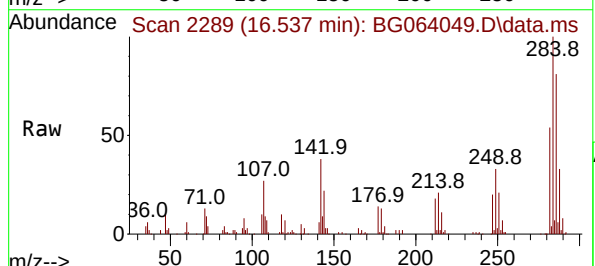
Manual Integrations  
APPROVED

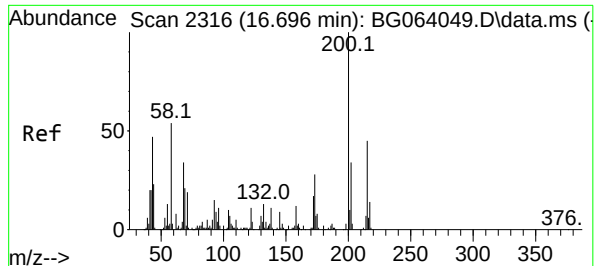
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#68  
Hexachlorobenzene  
Concen: 39.954 ng  
RT: 16.537 min Scan# 2289  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

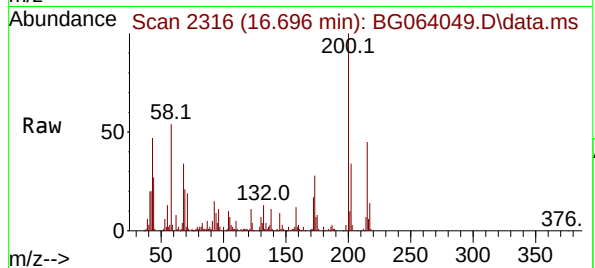
Tgt Ion:284 Resp: 118787  
Ion Ratio Lower Upper  
284 100  
142 38.2 30.6 45.8  
249 33.2 26.6 39.8





#69  
Atrazine  
Concen: 38.309 ng  
RT: 16.696 min Scan# 2316  
Delta R.T. -0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

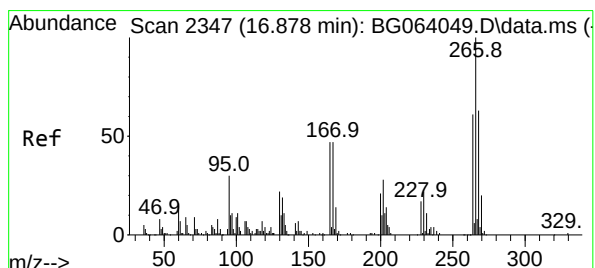
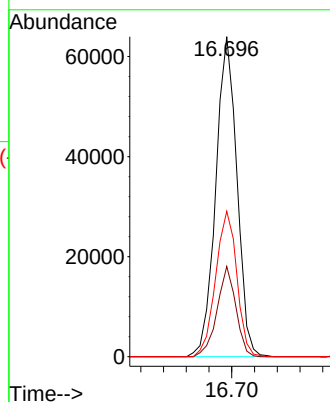
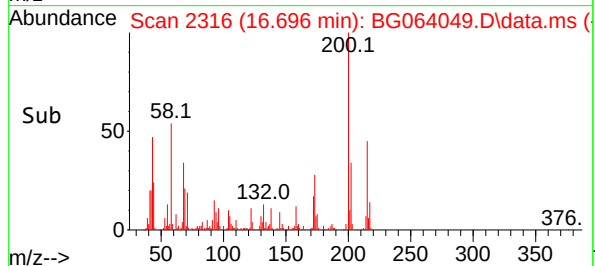
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:200 Resp: 82729  
Ion Ratio Lower Upper  
200 100  
173 28.2 8.2 48.2  
215 45.5 25.5 65.5

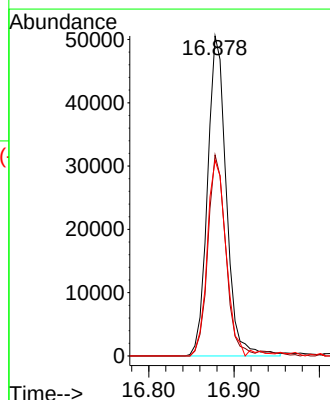
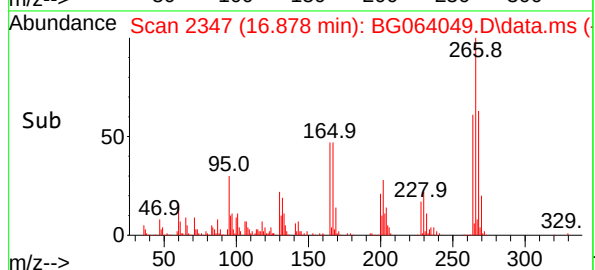
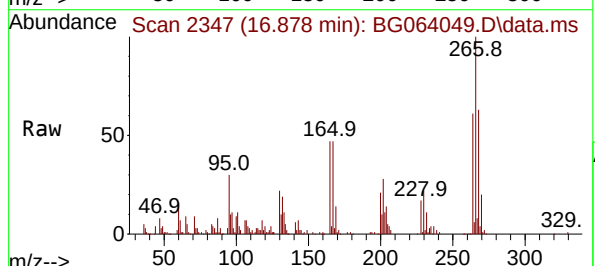
Manual Integrations  
APPROVED

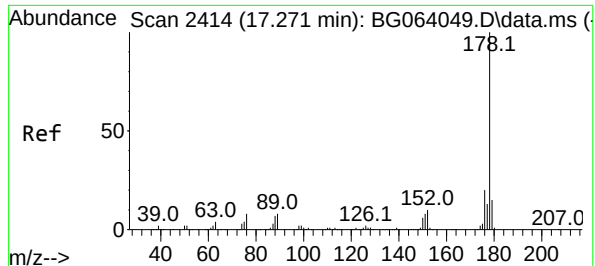
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#70  
Pentachlorophenol  
Concen: 41.856 ng  
RT: 16.878 min Scan# 2347  
Delta R.T. -0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

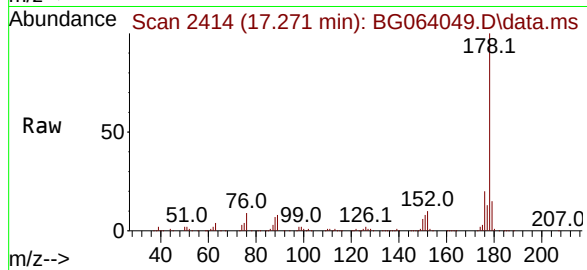
Tgt Ion:266 Resp: 77264  
Ion Ratio Lower Upper  
266 100  
268 62.8 50.2 75.4  
264 61.1 48.9 73.3





#71  
Phenanthrene  
Concen: 40.505 ng  
RT: 17.271 min Scan# 2414  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

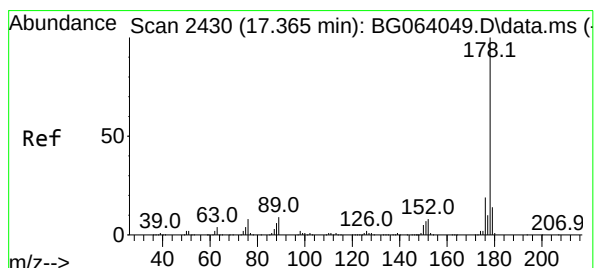
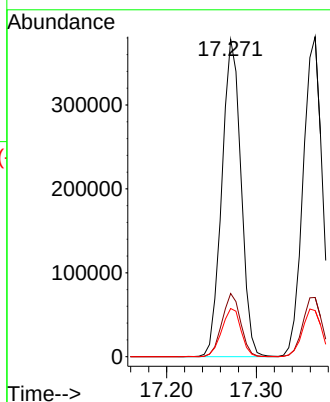
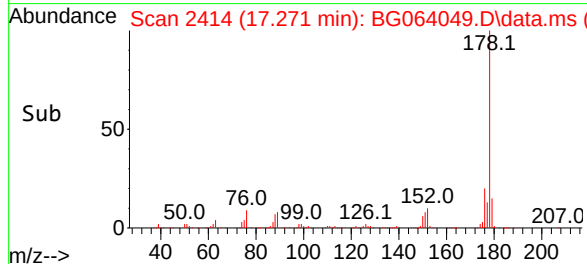
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:178 Resp: 560184  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.9 23.9  
179 15.2 12.2 18.2

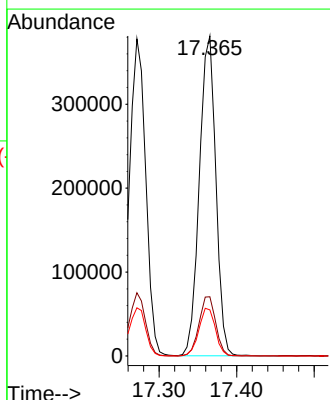
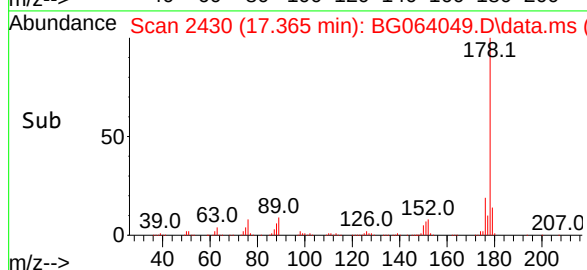
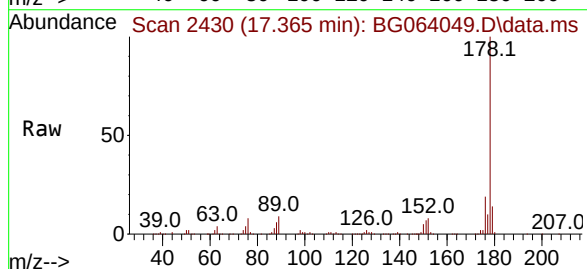
Manual Integrations  
APPROVED

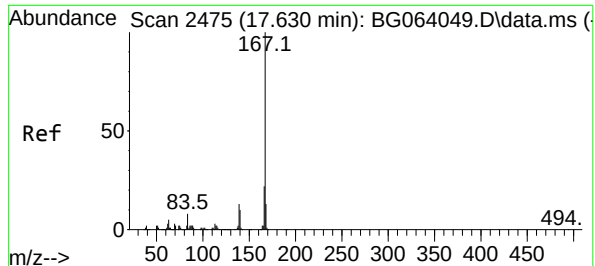
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#72  
Anthracene  
Concen: 40.932 ng  
RT: 17.365 min Scan# 2430  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

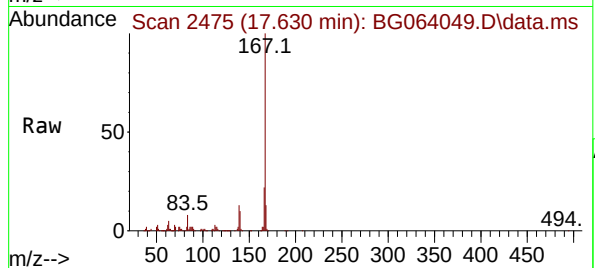
Tgt Ion:178 Resp: 562891  
Ion Ratio Lower Upper  
178 100  
176 18.5 14.8 22.2  
179 14.4 11.5 17.3





#73  
Carbazole  
Concen: 41.470 ng  
RT: 17.630 min Scan# 2475  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

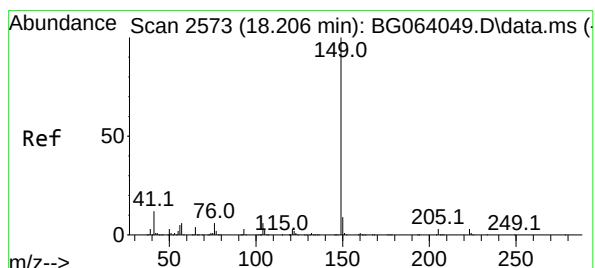
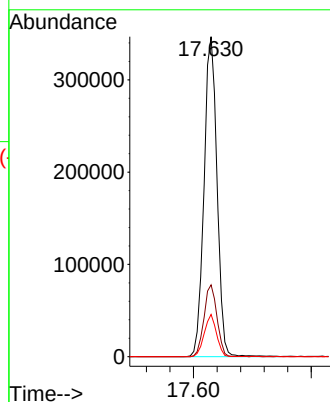
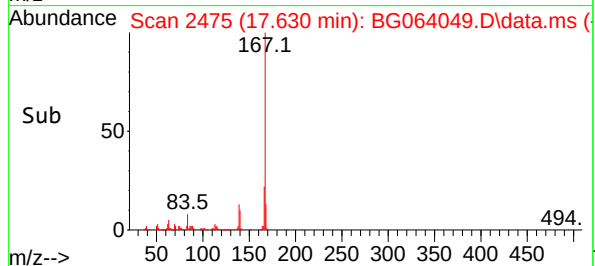
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:167 Resp: 53246  
Ion Ratio Lower Upper  
167 100  
166 22.5 18.0 27.0  
139 13.2 10.6 15.8

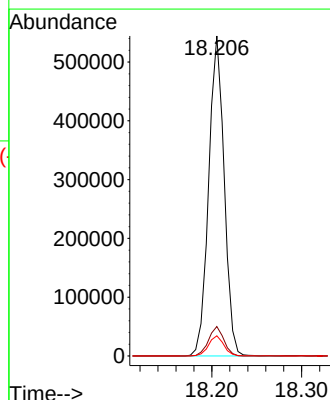
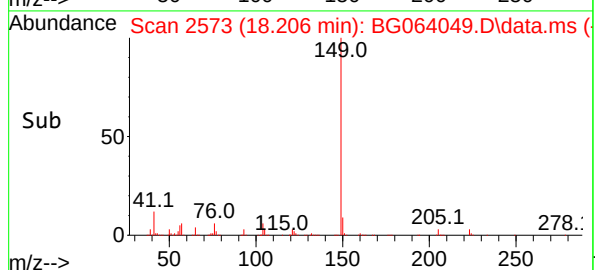
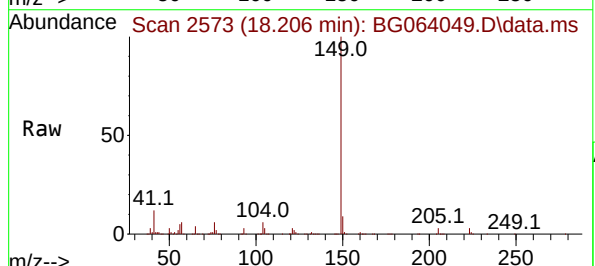
Manual Integrations  
APPROVED

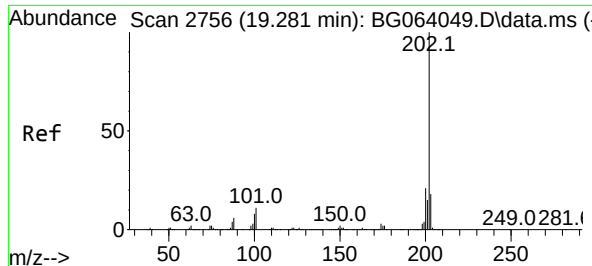
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#74  
Di-n-butylphthalate  
Concen: 43.141 ng  
RT: 18.206 min Scan# 2573  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

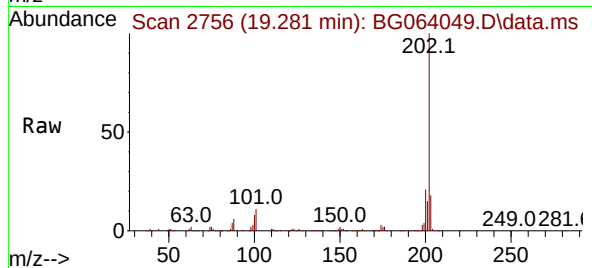
Tgt Ion:149 Resp: 652013  
Ion Ratio Lower Upper  
149 100  
150 9.2 7.4 11.0  
104 6.3 5.0 7.6





#75  
Fluoranthene  
Concen: 41.004 ng  
RT: 19.281 min Scan# 2756  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

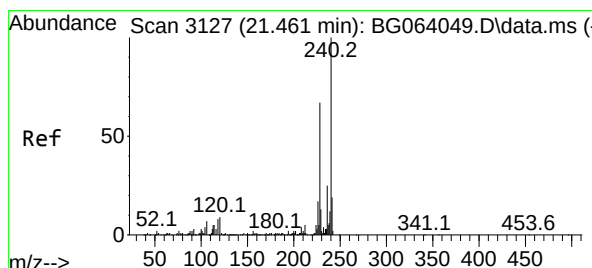
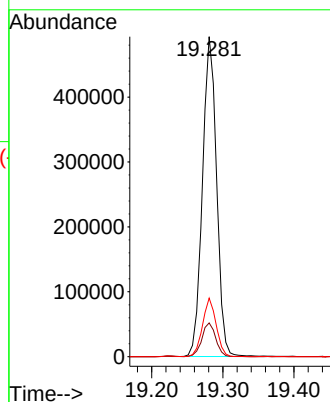
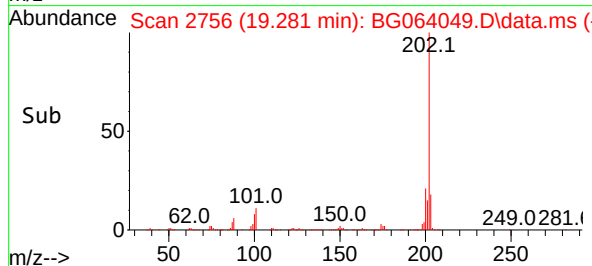
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:202 Resp: 683664  
Ion Ratio Lower Upper  
202 100  
101 10.5 0.0 30.5  
203 18.3 0.0 38.3

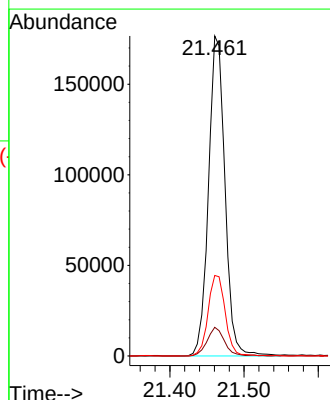
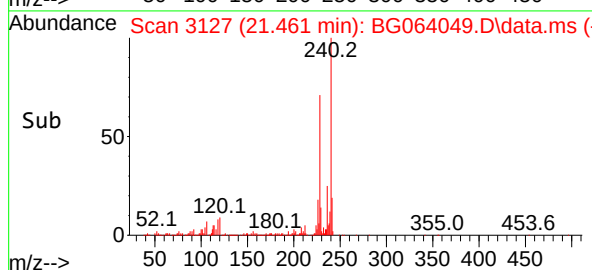
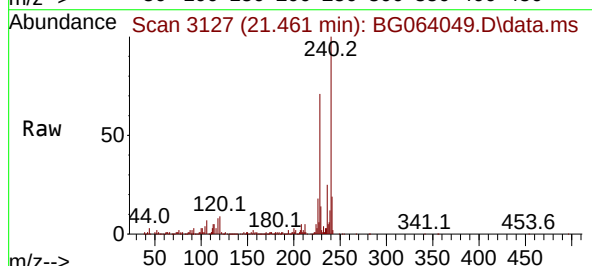
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

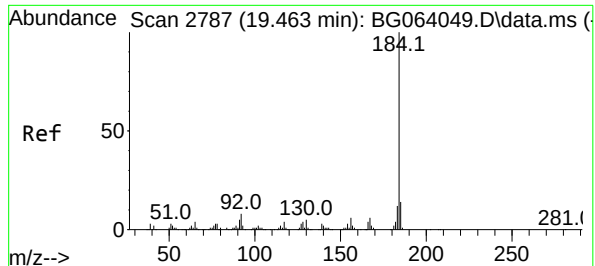


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.461 min Scan# 3127  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion:240 Resp: 272676  
Ion Ratio Lower Upper  
240 100  
120 9.0 7.2 10.8  
236 25.2 20.2 30.2

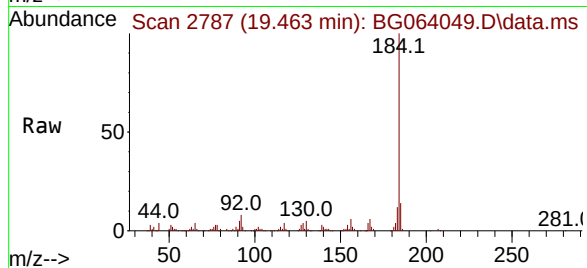






#77  
Benzidine  
Concen: 44.641 ng  
RT: 19.463 min Scan# 2787  
Delta R.T. -0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

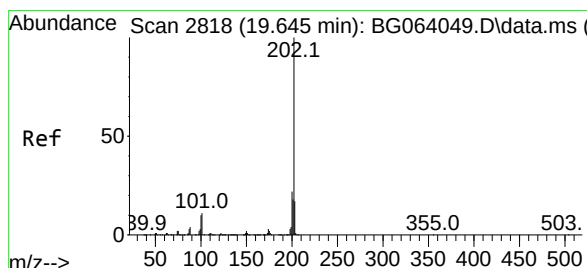
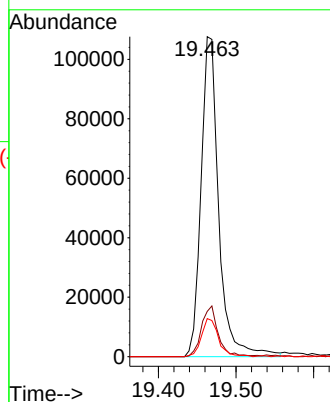
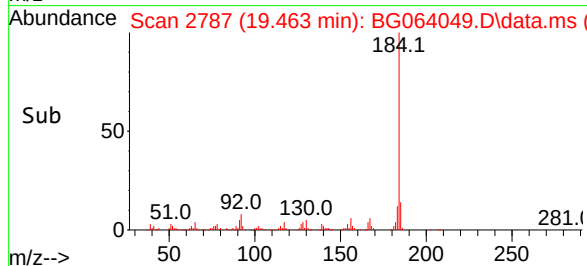
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:184 Resp: 170880  
Ion Ratio Lower Upper  
184 100  
185 14.1 11.3 16.9  
183 11.9 9.5 14.3

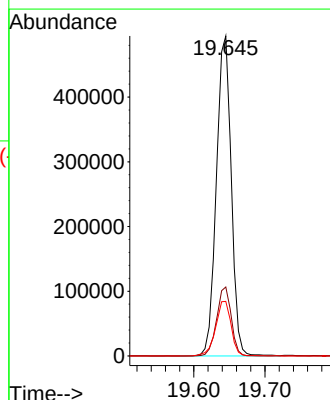
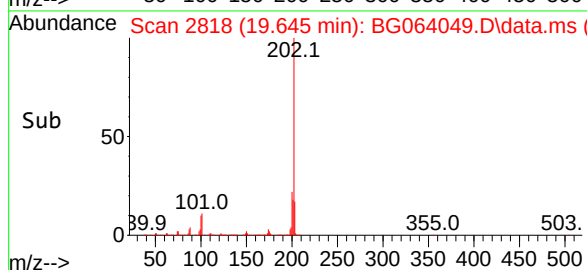
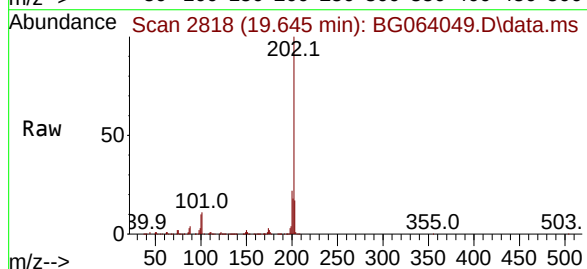
Manual Integrations  
APPROVED

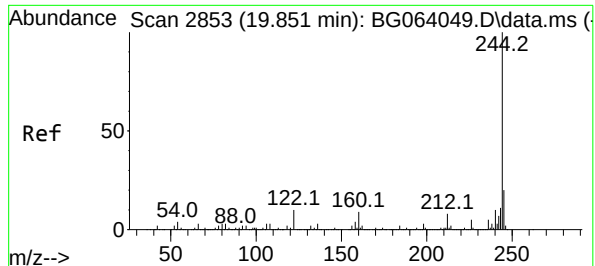
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#78  
Pyrene  
Concen: 40.653 ng  
RT: 19.645 min Scan# 2818  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

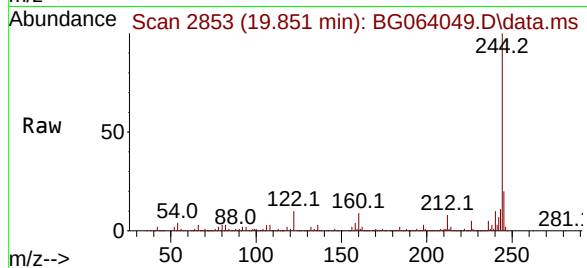
Tgt Ion:202 Resp: 714571  
Ion Ratio Lower Upper  
202 100  
200 21.6 17.3 25.9  
203 17.0 13.6 20.4





#79  
Terphenyl-d14  
Concen: 80.801 ng  
RT: 19.851 min Scan# 2853  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

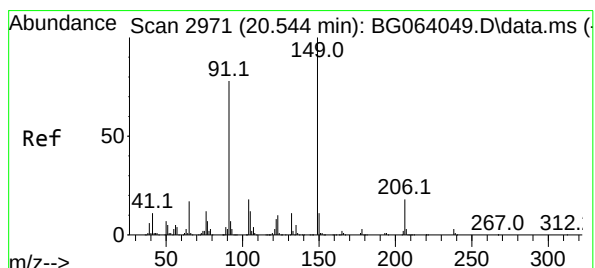
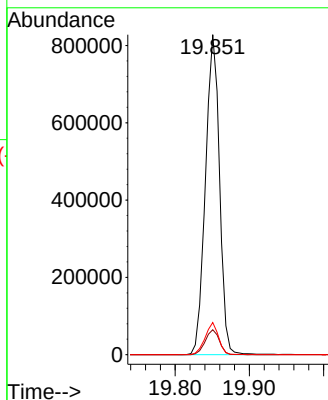
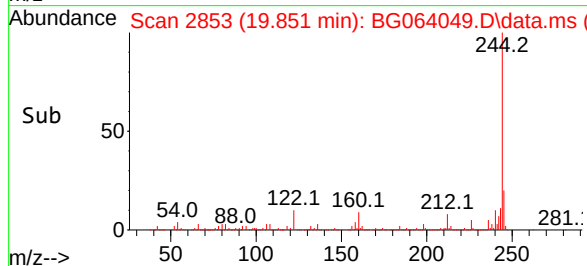
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:244 Resp: 108964  
Ion Ratio Lower Upper  
244 100  
212 7.8 6.2 9.4  
122 10.0 8.0 12.0

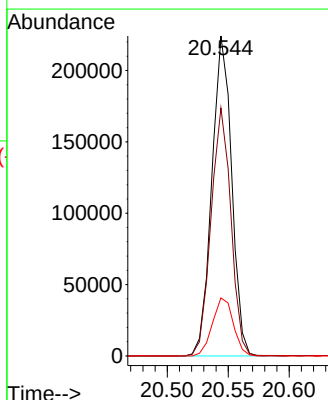
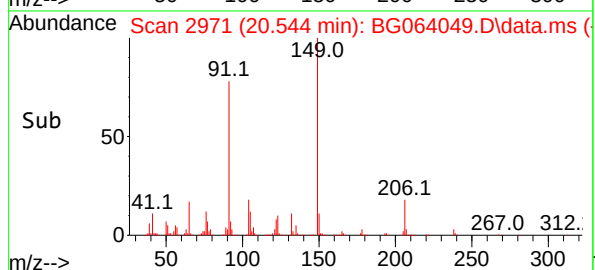
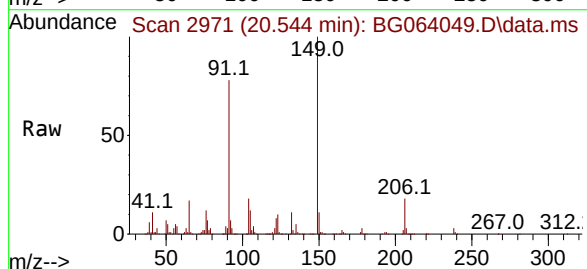
Manual Integrations  
APPROVED

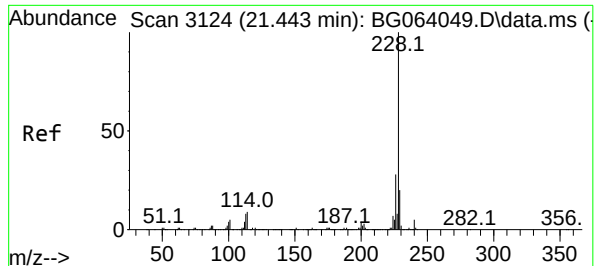
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#80  
Butylbenzylphthalate  
Concen: 39.178 ng  
RT: 20.544 min Scan# 2971  
Delta R.T. -0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

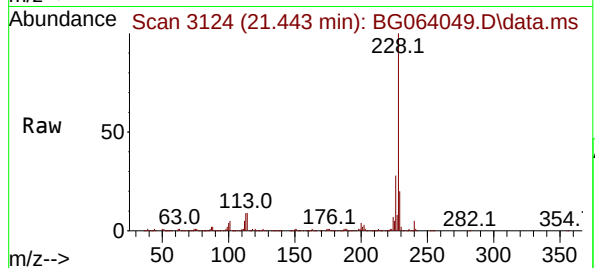
Tgt Ion:149 Resp: 253637  
Ion Ratio Lower Upper  
149 100  
91 77.5 62.0 93.0  
206 18.2 14.6 21.8





#81  
Benzo(a)anthracene  
Concen: 40.681 ng  
RT: 21.443 min Scan# 3124  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

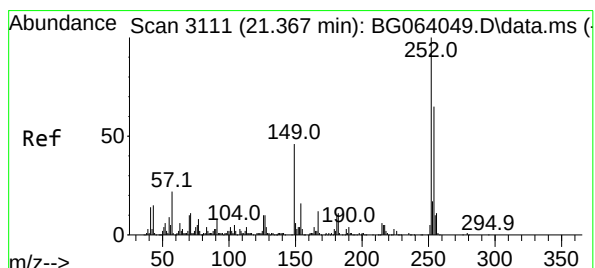
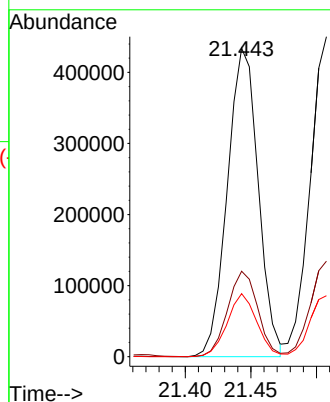
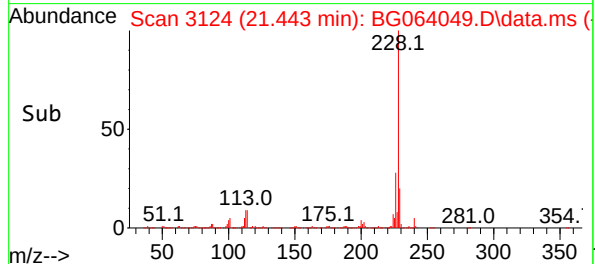
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:228 Resp: 71057  
Ion Ratio Lower Upper  
228 100  
226 27.7 22.2 33.2  
229 20.5 16.4 24.6

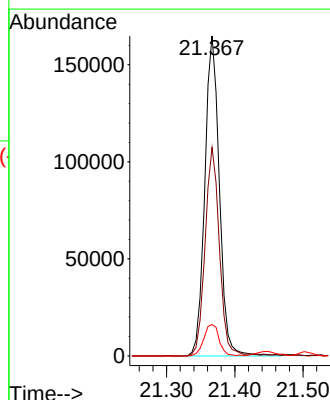
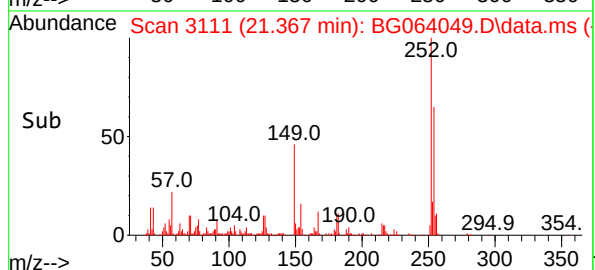
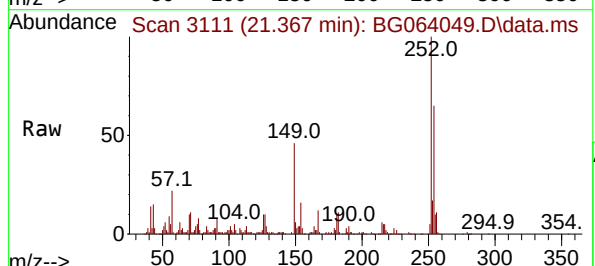
Manual Integrations  
APPROVED

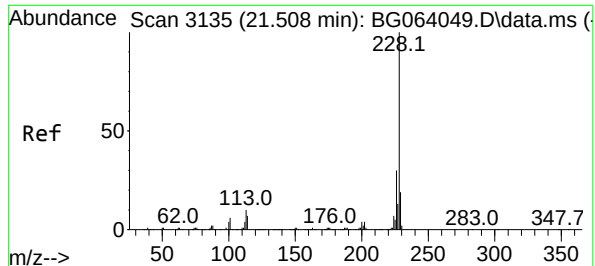
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#82  
3,3'-Dichlorobenzidine  
Concen: 43.385 ng  
RT: 21.367 min Scan# 3111  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion:252 Resp: 245252  
Ion Ratio Lower Upper  
252 100  
254 65.1 52.1 78.1  
126 9.8 7.8 11.8





#83

Chrysene

Concen: 40.888 ng

RT: 21.508 min Scan# 3135

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

Instrument :

BNA\_G

ClientSampleId :

SSTDICCC040

Tgt Ion:228 Resp: 712310

Ion Ratio Lower Upper

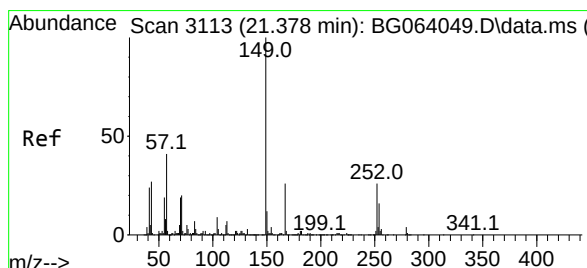
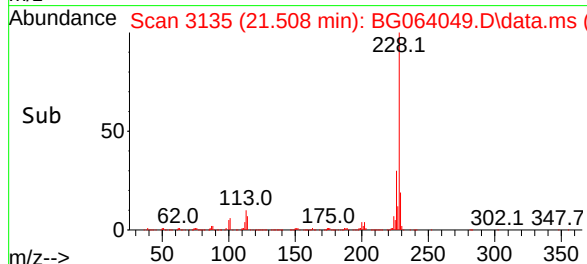
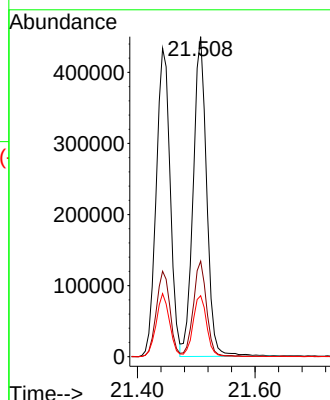
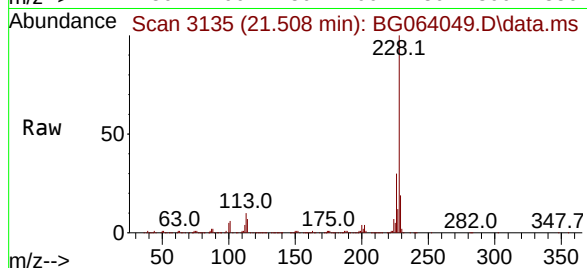
228 100

226 29.9 23.9 35.9

229 19.1 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#84

Bis(2-ethylhexyl)phthalate

Concen: 43.709 ng

RT: 21.378 min Scan# 3113

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

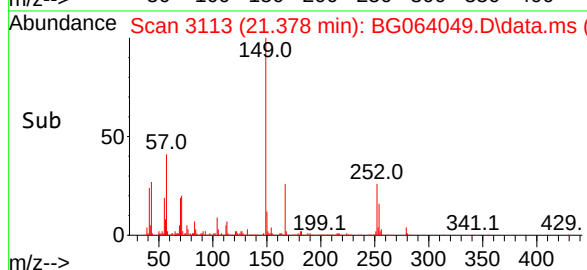
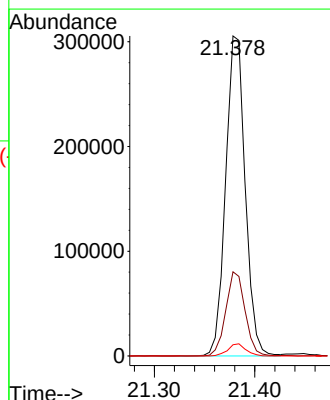
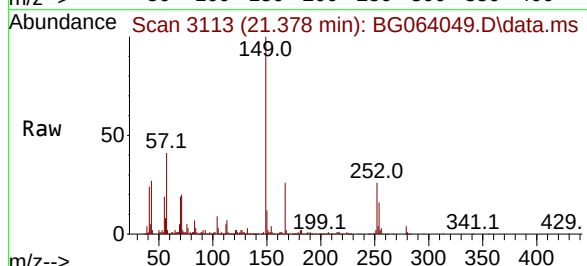
Tgt Ion:149 Resp: 412893

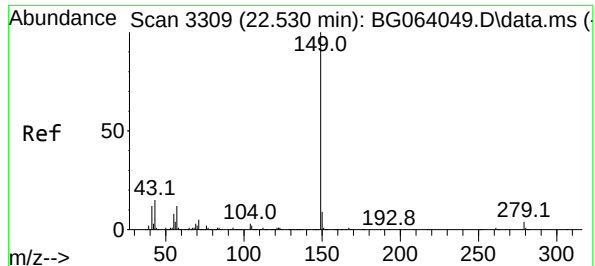
Ion Ratio Lower Upper

149 100

167 26.3 21.0 31.6

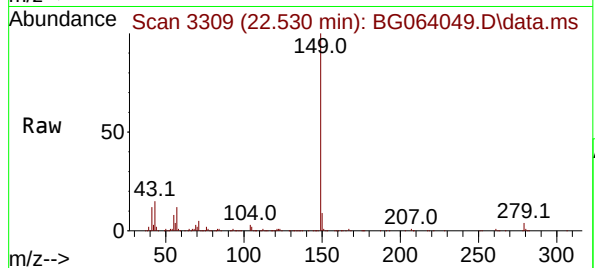
279 3.5 2.8 4.2





#85  
Di-n-octyl phthalate  
Concen: 41.459 ng  
RT: 22.530 min Scan# 3309  
Delta R.T. -0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

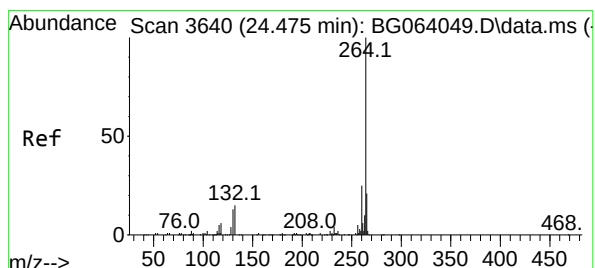
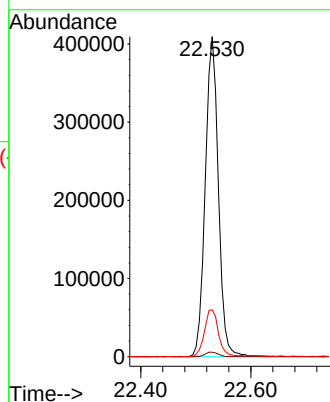
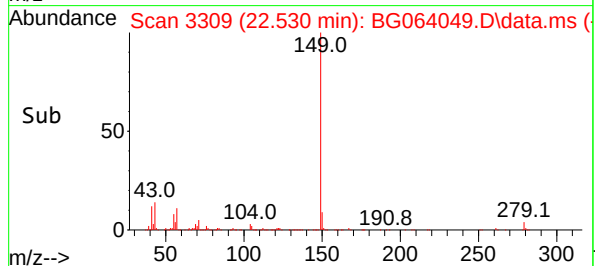
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:149 Resp: 675510  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.2 1.8  
43 15.8 12.6 19.0

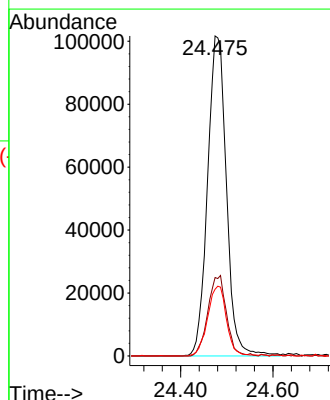
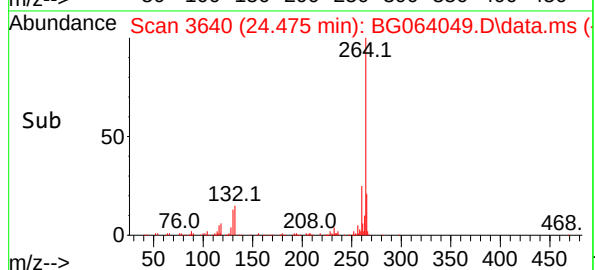
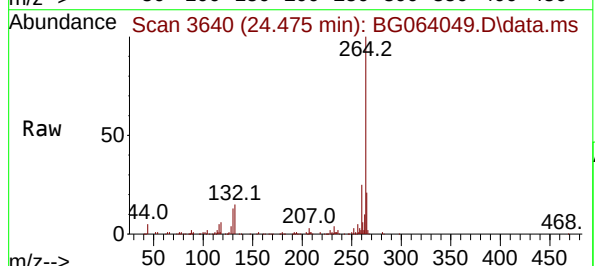
Manual Integrations  
APPROVED

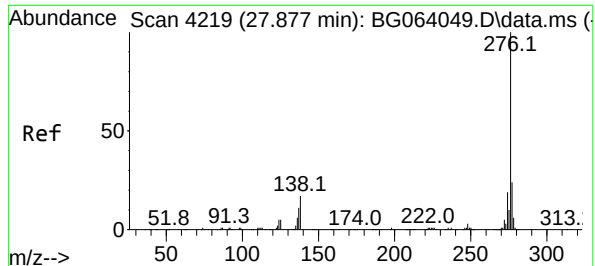
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.475 min Scan# 3640  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

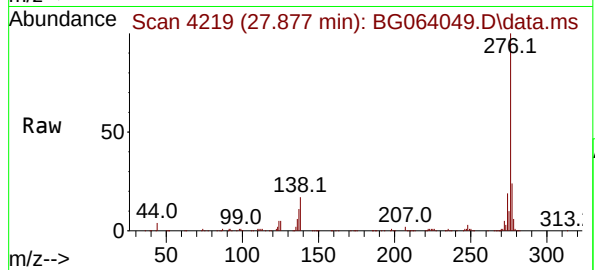
Tgt Ion:264 Resp: 289801  
Ion Ratio Lower Upper  
264 100  
260 24.5 19.6 29.4  
265 20.8 16.6 25.0





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 41.124 ng  
RT: 27.877 min Scan# 4219  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

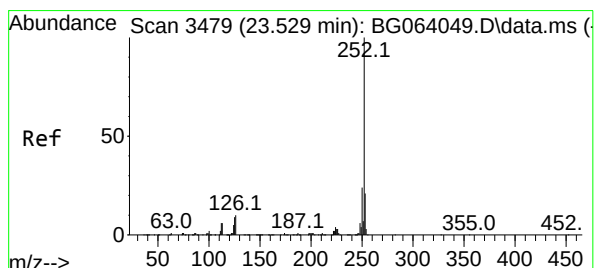
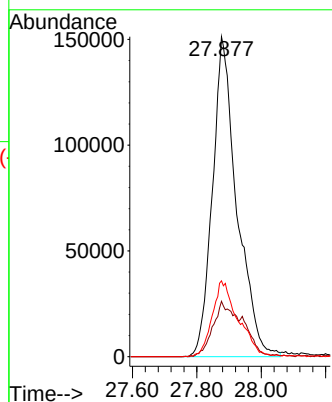
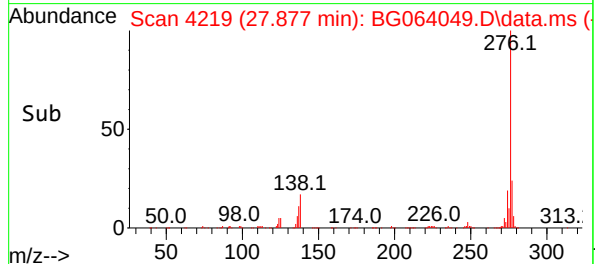
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:276 Resp: 79738  
Ion Ratio Lower Upper  
276 100  
138 15.1 12.1 18.1  
277 25.0 20.0 30.0

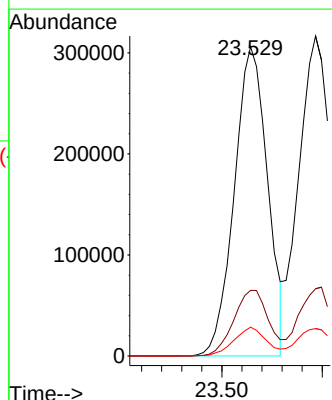
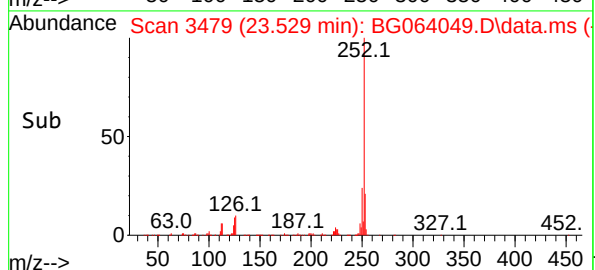
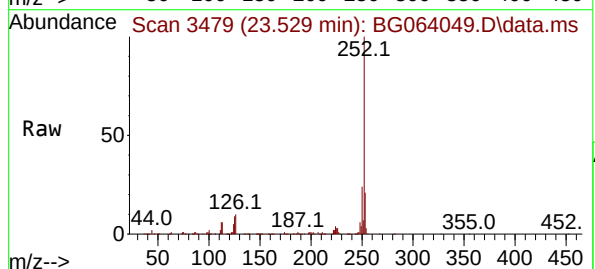
Manual Integrations  
APPROVED

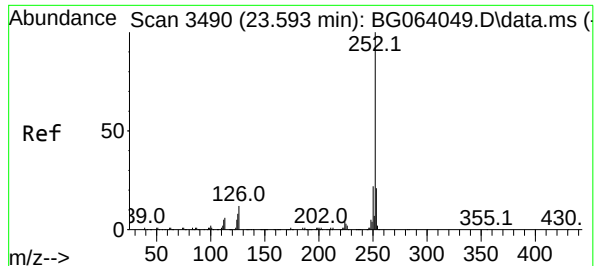
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#88  
Benzo(b)fluoranthene  
Concen: 40.217 ng  
RT: 23.529 min Scan# 3479  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion:252 Resp: 704588  
Ion Ratio Lower Upper  
252 100  
253 21.2 17.0 25.4  
125 9.3 7.4 11.2





#89

Benzo(k)fluoranthene

Concen: 41.391 ng

RT: 23.593 min Scan# 3490

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

Instrument :

BNA\_G

ClientSampleId :

SSTDICCC040

Tgt Ion:252 Resp: 72746

Ion Ratio Lower Upper

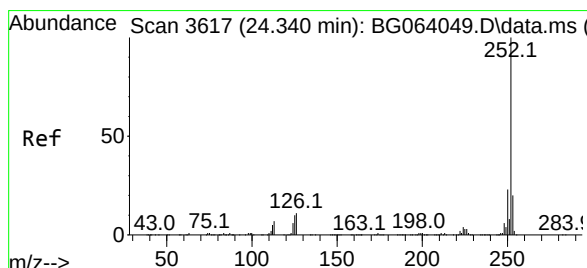
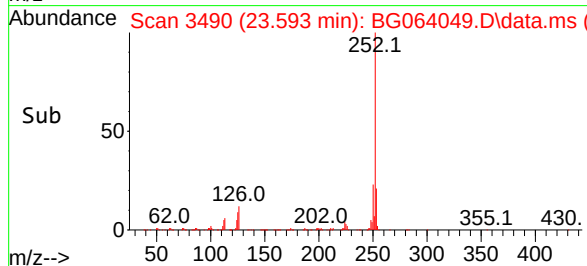
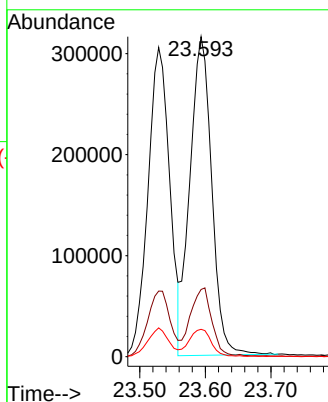
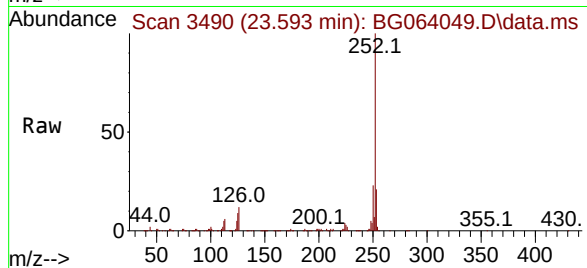
252 100

253 21.0 16.8 25.2

125 8.6 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#90

Benzo(a)pyrene

Concen: 41.134 ng

RT: 24.340 min Scan# 3617

Delta R.T. 0.000 min

Lab File: BG064049.D

Acq: 5 Mar 2025 11:43

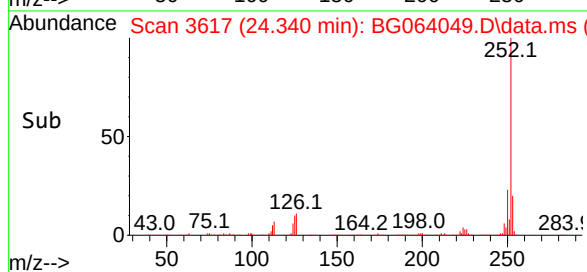
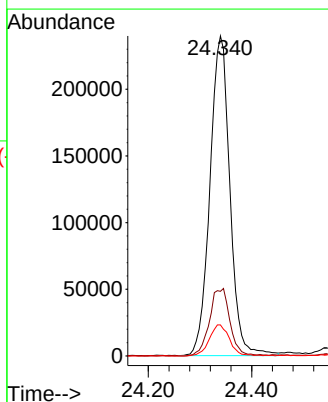
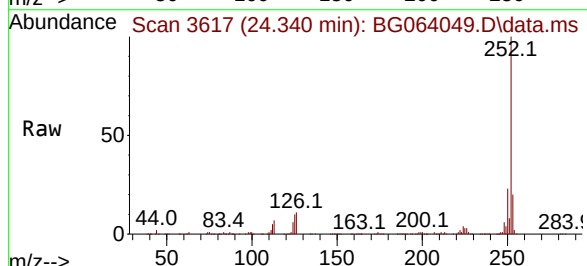
Tgt Ion:252 Resp: 641802

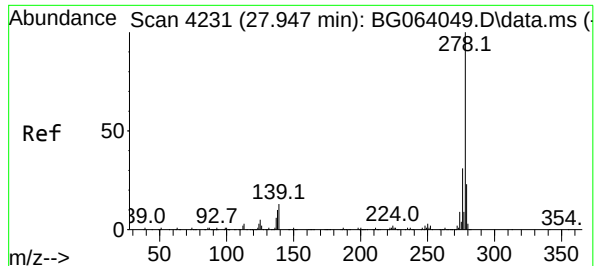
Ion Ratio Lower Upper

252 100

253 20.2 16.2 24.2

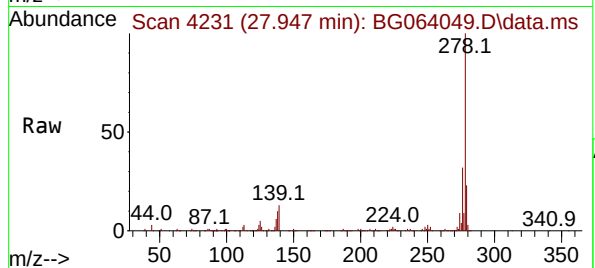
125 9.7 7.8 11.6





#91  
Dibenzo(a,h)anthracene  
Concen: 40.836 ng  
RT: 27.947 min Scan# 4231  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

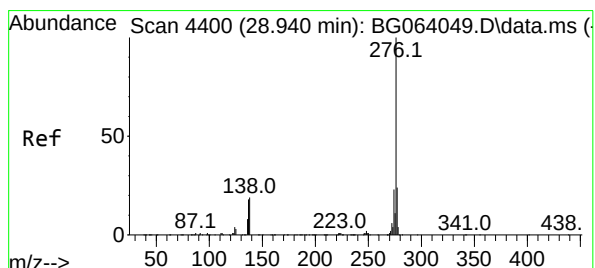
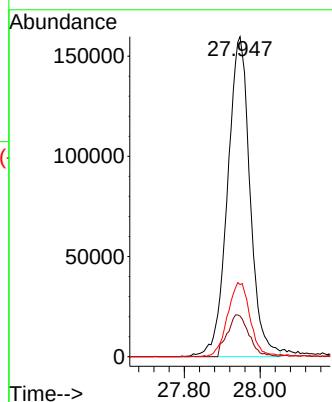
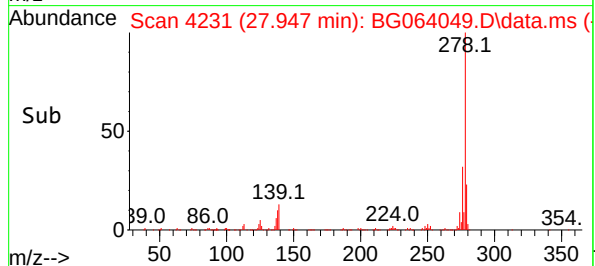
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICCC040



Tgt Ion:278 Resp: 65643  
Ion Ratio Lower Upper  
278 100  
139 12.7 10.2 15.2  
279 22.6 18.1 27.1

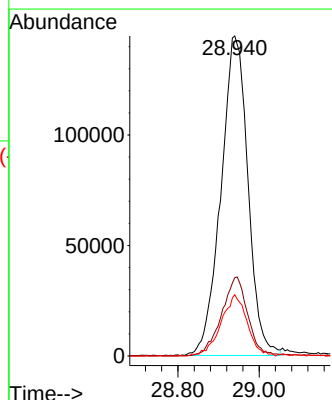
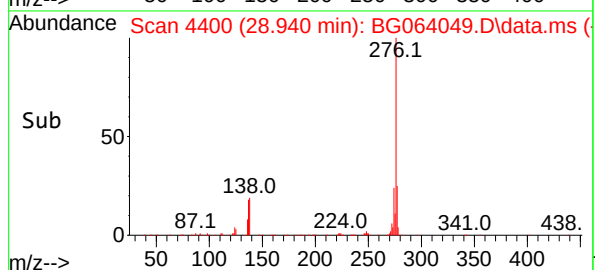
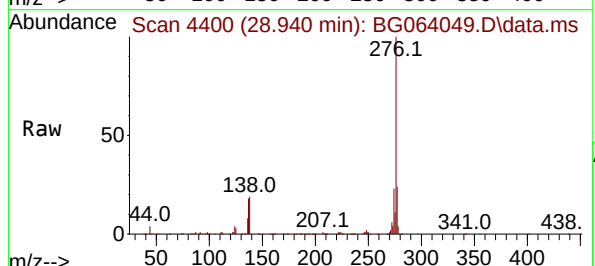
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#92  
Benzo(g,h,i)perylene  
Concen: 40.469 ng  
RT: 28.940 min Scan# 4400  
Delta R.T. 0.000 min  
Lab File: BG064049.D  
Acq: 5 Mar 2025 11:43

Tgt Ion:276 Resp: 667911  
Ion Ratio Lower Upper  
276 100  
277 24.4 19.5 29.3  
138 19.2 15.4 23.0





Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064050.D  
 Acq On : 5 Mar 2025 12:23  
 Operator : RC/JU  
 Sample : SSTDICC050  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDICC050

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025

Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:24:11 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 14:45:06 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.865  | 152  | 38040    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.656 | 136  | 162322   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.487 | 164  | 110522   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.231 | 188  | 254221   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.467 | 240  | 272579   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 24.475 | 264  | 286555   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.451  | 112  | 239407   | 98.271  | ng    | 0.00     |
| 7) Phenol-d6                  | 7.031  | 99   | 323841   | 97.714  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.017  | 82   | 316407   | 107.720 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.974 | 330  | 133386   | 108.574 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.118 | 172  | 708865   | 97.354  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.851 | 244  | 1286263  | 95.415  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.377  | 88   | 53145    | 48.134  | ng    | 98       |
| 3) Pyridine                   | 3.764  | 79   | 127257   | 47.393  | ng    | 97       |
| 4) n-Nitrosodimethylamine     | 3.682  | 42   | 94714    | 49.369  | ng    | 93       |
| 6) Aniline                    | 7.196  | 93   | 156110   | 48.003  | ng    | 99       |
| 8) 2-Chlorophenol             | 7.431  | 128  | 126814   | 48.467  | ng    | 100      |
| 9) Benzaldehyde               | 7.008  | 77   | 81796    | 42.223  | ng    | 95       |
| 10) Phenol                    | 7.060  | 94   | 166630   | 49.107  | ng    | 97       |
| 11) bis(2-Chloroethyl)ether   | 7.290  | 93   | 125734   | 47.264  | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 7.760  | 146  | 136763   | 47.598  | ng    | 95       |
| 13) 1,4-Dichlorobenzene       | 7.901  | 146  | 140578   | 47.733  | ng    | 98       |
| 14) 1,2-Dichlorobenzene       | 8.218  | 146  | 134631   | 47.407  | ng    | 96       |
| 15) Benzyl Alcohol            | 8.100  | 79   | 129182   | 50.441  | ng    | 93       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.394  | 45   | 284947   | 47.637  | ng    | 100      |
| 17) 2-Methylphenol            | 8.300  | 107  | 111405   | 49.469  | ng    | 97       |
| 18) Hexachloroethane          | 8.947  | 117  | 50035    | 48.558  | ng    | 91       |
| 19) n-Nitroso-di-n-propyla... | 8.670  | 70   | 113111   | 48.631  | ng    | 98       |
| 20) 3+4-Methylphenols         | 8.629  | 107  | 153346   | 49.461  | ng    | 97       |
| 22) Acetophenone              | 8.682  | 105  | 221424   | 49.752  | ng    | 99       |
| 24) Nitrobenzene              | 9.058  | 77   | 160553   | 52.890  | ng    | 96       |
| 25) Isophorone                | 9.581  | 82   | 290768   | 49.457  | ng    | 97       |
| 26) 2-Nitrophenol             | 9.769  | 139  | 52718    | 49.791  | ng    | 100      |
| 27) 2,4-Dimethylphenol        | 9.828  | 122  | 89845    | 50.976  | ng    | 97       |
| 28) bis(2-Chloroethoxy)met... | 10.069 | 93   | 173244   | 48.604  | ng    | 96       |
| 29) 2,4-Dichlorophenol        | 10.298 | 162  | 117642   | 52.861  | ng    | 96       |
| 30) 1,2,4-Trichlorobenzene    | 10.521 | 180  | 136213   | 50.701  | ng    | 93       |
| 31) Naphthalene               | 10.703 | 128  | 430679   | 49.204  | ng    | 98       |
| 32) Benzoic acid              | 9.975  | 122  | 77326m   | 47.851  | ng    |          |
| 33) 4-Chloroaniline           | 10.809 | 127  | 159874   | 49.975  | ng    | 99       |
| 34) Hexachlorobutadiene       | 10.997 | 225  | 87623    | 49.759  | ng    | 96       |
| 35) Caprolactam               | 11.579 | 113  | 45779    | 53.678  | ng    | 92       |
| 36) 4-Chloro-3-methylphenol   | 11.931 | 107  | 151419   | 51.905  | ng    | 97       |
| 37) 2-Methylnaphthalene       | 12.313 | 142  | 302745   | 48.994  | ng    | 96       |
| 38) 1-Methylnaphthalene       | 12.531 | 142  | 293710   | 48.517  | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 12.677 | 216  | 154824   | 49.068  | ng    | 97       |
| 41) Hexachlorocyclopentadiene | 12.666 | 237  | 48218    | 54.295  | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 12.918 | 196  | 100024   | 53.786  | ng    | 92       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064050.D  
 Acq On : 5 Mar 2025 12:23  
 Operator : RC/JU  
 Sample : SSTDICC050  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDICC050

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:24:11 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 14:45:06 2025

Response via : Initial Calibration

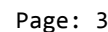
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.989 | 196  | 109309   | 52.900 | ng    | 99       |
| 46) 1,1'-Biphenyl             | 13.324 | 154  | 407499   | 48.802 | ng    | 98       |
| 47) 2-Chloronaphthalene       | 13.365 | 162  | 304442   | 49.991 | ng    | 97       |
| 48) 2-Nitroaniline            | 13.565 | 65   | 101610   | 49.852 | ng    | 96       |
| 49) Acenaphthylene            | 14.211 | 152  | 479498   | 49.779 | ng    | 100      |
| 50) Dimethylphthalate         | 13.952 | 163  | 404288   | 49.555 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 14.064 | 165  | 82929    | 49.957 | ng    | 90       |
| 52) Acenaphthene              | 14.558 | 154  | 320276m  | 49.442 | ng    |          |
| 53) 3-Nitroaniline            | 14.393 | 138  | 86456    | 54.830 | ng    | 100      |
| 54) 2,4-Dinitrophenol         | 14.593 | 184  | 30713    | 48.003 | ng    | 89       |
| 55) Dibenzofuran              | 14.887 | 168  | 511922   | 48.883 | ng    | 99       |
| 56) 4-Nitrophenol             | 14.693 | 139  | 77342    | 58.485 | ng    | 94       |
| 57) 2,4-Dinitrotoluene        | 14.851 | 165  | 115455   | 50.361 | ng    | # 95     |
| 58) Fluorene                  | 15.539 | 166  | 401156   | 49.182 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 15.110 | 232  | 106306   | 52.772 | ng    | 98       |
| 60) Diethylphthalate          | 15.321 | 149  | 448796   | 50.673 | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 15.533 | 204  | 196685   | 48.525 | ng    | 93       |
| 62) 4-Nitroaniline            | 15.556 | 138  | 96864    | 56.899 | ng    | 96       |
| 63) Azobenzene                | 15.827 | 77   | 469832   | 49.712 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 15.609 | 198  | 52142    | 47.566 | ng    | 92       |
| 66) n-Nitrosodiphenylamine    | 15.744 | 169  | 354329   | 49.240 | ng    | 100      |
| 67) 4-Bromophenyl-phenylether | 16.426 | 248  | 127329   | 48.903 | ng    | 97       |
| 68) Hexachlorobenzene         | 16.538 | 284  | 144717   | 49.646 | ng    | 97       |
| 69) Atrazine                  | 16.696 | 200  | 81796    | 38.632 | ng    | 96       |
| 70) Pentachlorophenol         | 16.878 | 266  | 95820    | 52.943 | ng    | 98       |
| 71) Phenanthrene              | 17.272 | 178  | 669776   | 49.395 | ng    | 99       |
| 72) Anthracene                | 17.360 | 178  | 670298   | 49.714 | ng    | 98       |
| 73) Carbazole                 | 17.630 | 167  | 640167   | 50.853 | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.206 | 149  | 785487   | 53.009 | ng    | 100      |
| 75) Fluoranthene              | 19.281 | 202  | 824769   | 50.454 | ng    | 99       |
| 77) Benzidine                 | 19.464 | 184  | 133122   | 34.790 | ng    | 99       |
| 78) Pyrene                    | 19.646 | 202  | 854585   | 48.636 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.545 | 149  | 322148   | 48.794 | ng    | 98       |
| 81) Benzo(a)anthracene        | 21.449 | 228  | 868997   | 49.769 | ng    | 96       |
| 82) 3,3'-Dichlorobenzidine    | 21.367 | 252  | 283543   | 50.177 | ng    | 98       |
| 83) Chrysene                  | 21.508 | 228  | 860924   | 49.437 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.385 | 149  | 511903   | 54.210 | ng    | 100      |
| 85) Di-n-octyl phthalate      | 22.531 | 149  | 855727   | 52.538 | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 27.883 | 276  | 970339   | 50.610 | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 23.535 | 252  | 882554   | 50.946 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 23.600 | 252  | 863262   | 49.673 | ng    | 97       |
| 90) Benzo(a)pyrene            | 24.346 | 252  | 792379   | 51.360 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 27.948 | 278  | 812185   | 51.097 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 28.947 | 276  | 821282   | 50.325 | ng    | 99       |

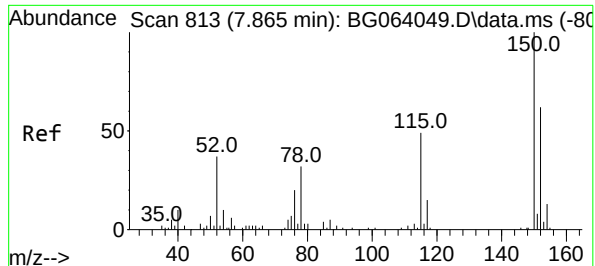
(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
BNA\_G  
**ClientSampleId :**  
SSTDICC050

## Manual Integrations APPROVED

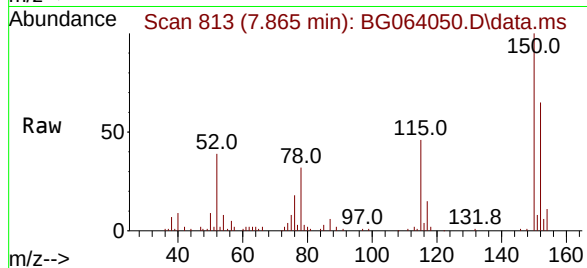
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.865 min Scan# 813  
Delta R.T. 0.000 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

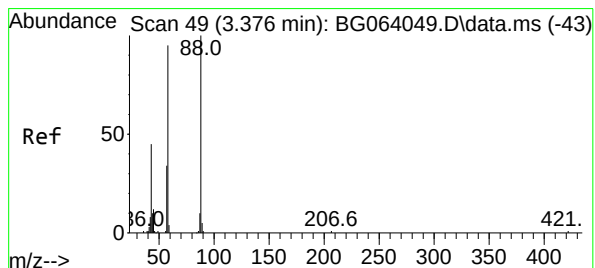
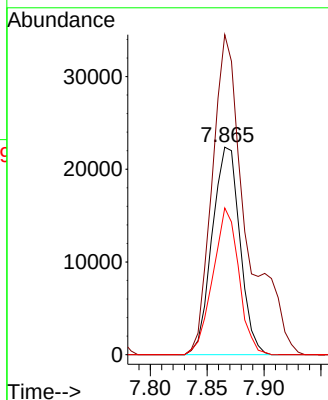
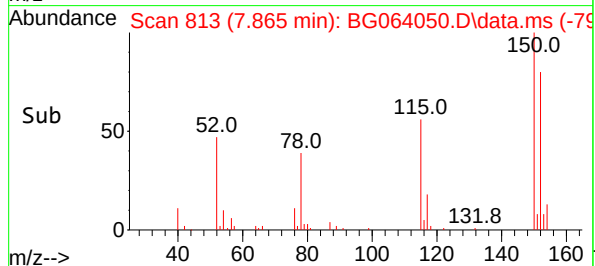
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



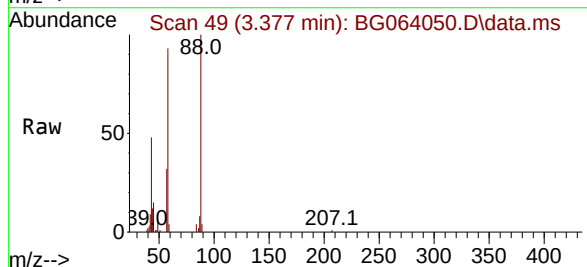
Tgt Ion:152 Resp: 38040  
Ion Ratio Lower Upper  
152 100  
150 154.2 129.2 193.8  
115 70.7 63.0 94.6

Manual Integrations  
APPROVED

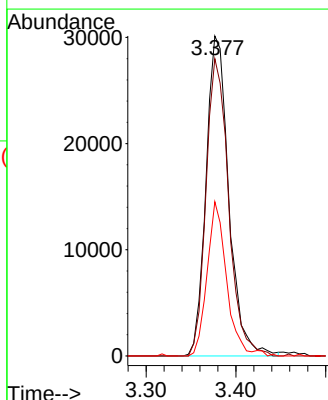
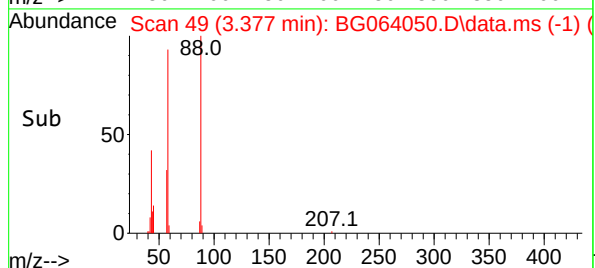
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

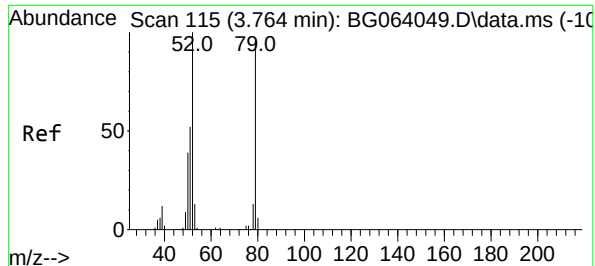


#2  
1,4-Dioxane  
Concen: 48.134 ng  
RT: 3.377 min Scan# 49  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23



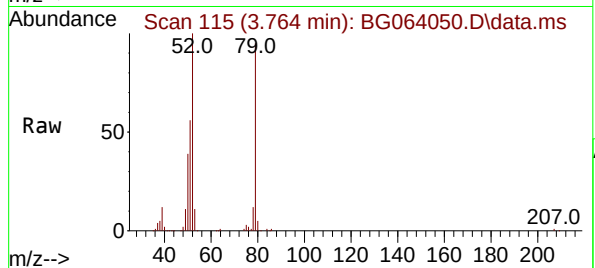
Tgt Ion: 88 Resp: 53145  
Ion Ratio Lower Upper  
88 100  
58 91.8 74.6 111.8  
43 41.4 35.5 53.3





#3  
Pyridine  
Concen: 47.393 ng  
RT: 3.764 min Scan# 115  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

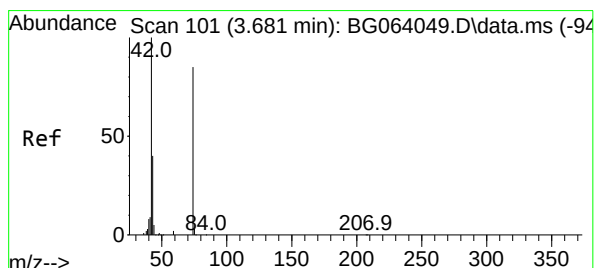
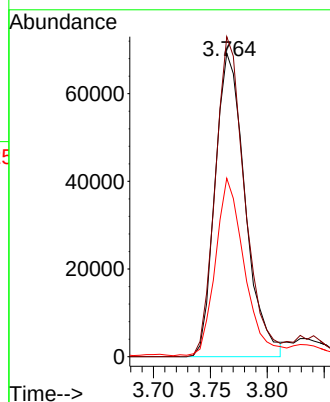
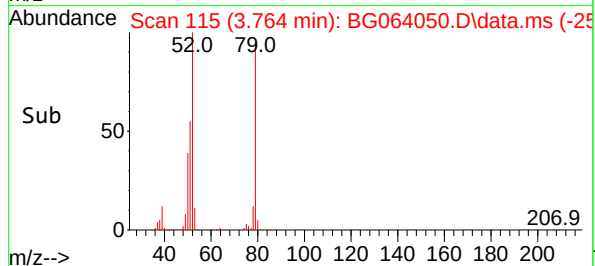
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion: 79 Resp: 12725  
Ion Ratio Lower Upper  
79 100  
52 105.4 83.0 124.6  
51 58.8 44.3 66.5

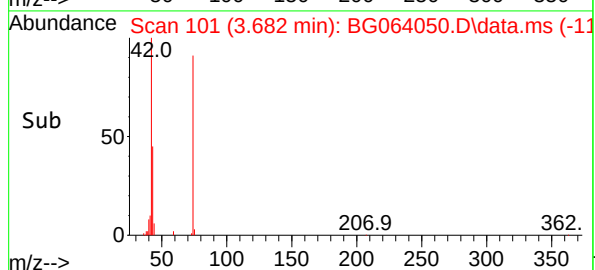
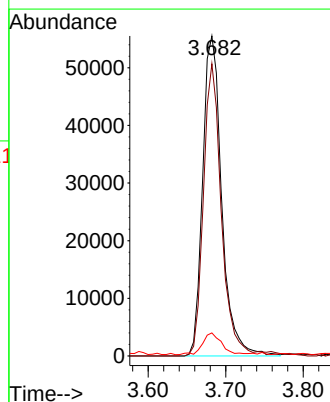
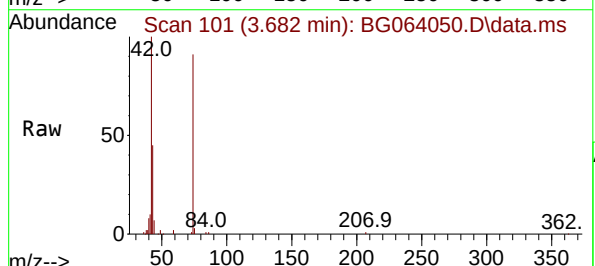
Manual Integrations  
APPROVED

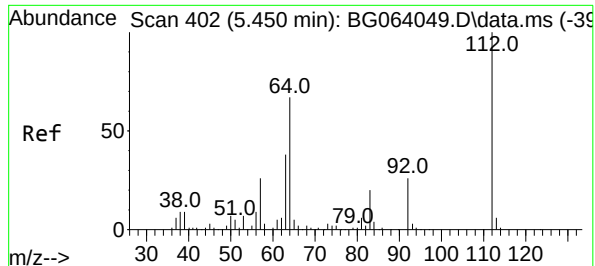
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#4  
n-Nitrosodimethylamine  
Concen: 49.369 ng  
RT: 3.682 min Scan# 101  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

Tgt Ion: 42 Resp: 94714  
Ion Ratio Lower Upper  
42 100  
74 91.3 68.0 102.0  
44 7.2 4.9 7.3





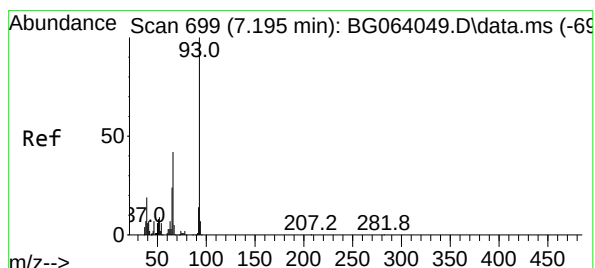
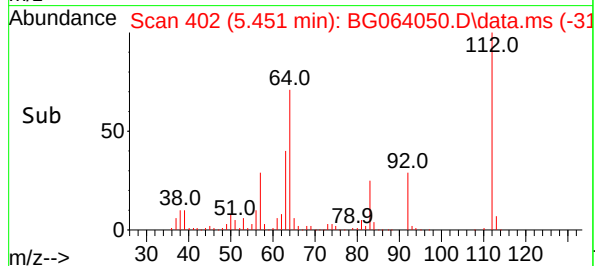
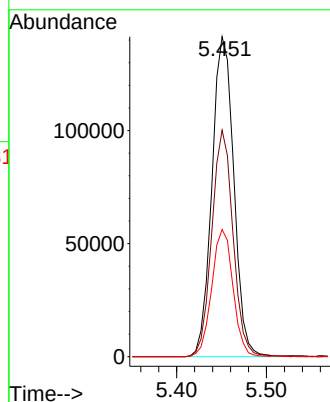
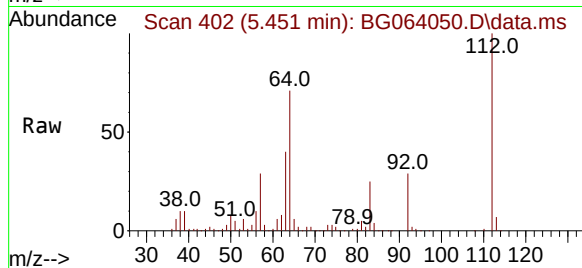
#5  
2-Fluorophenol  
Concen: 98.271 ng  
RT: 5.451 min Scan# 402  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050

Tgt Ion:112 Resp: 23940  
Ion Ratio Lower Upper  
112 100  
64 70.8 53.7 80.5  
63 39.8 30.2 45.4

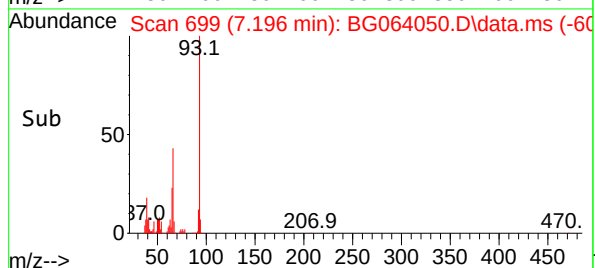
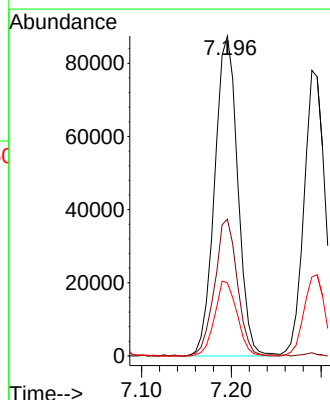
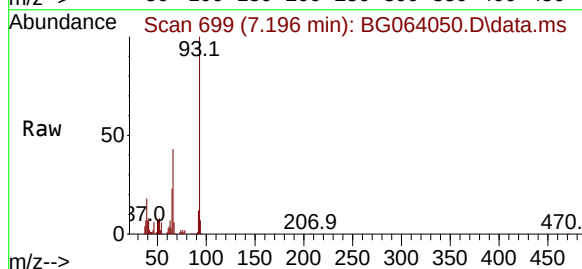
Manual Integrations  
APPROVED

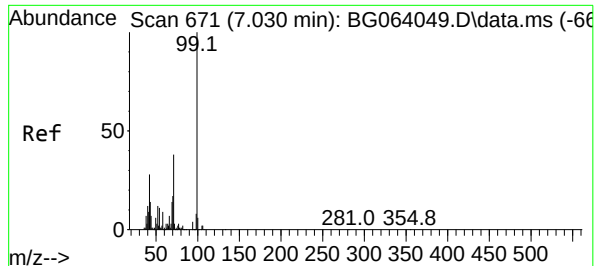
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#6  
Aniline  
Concen: 48.003 ng  
RT: 7.196 min Scan# 699  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

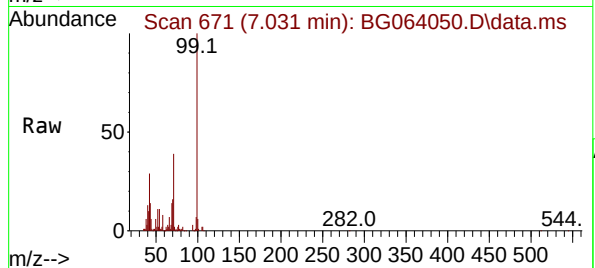
Tgt Ion: 93 Resp: 156110  
Ion Ratio Lower Upper  
93 100  
66 42.7 33.7 50.5  
65 22.9 19.1 28.7





#7  
Phenol-d6  
Concen: 97.714 ng  
RT: 7.031 min Scan# 671  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

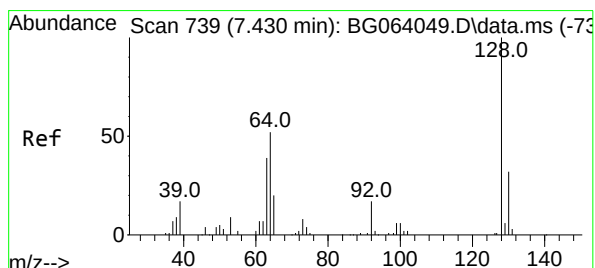
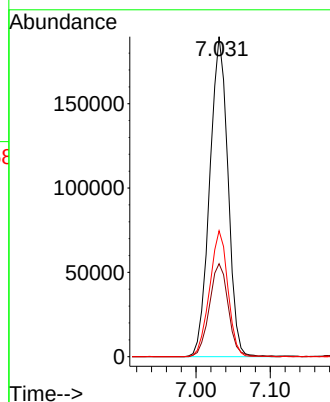
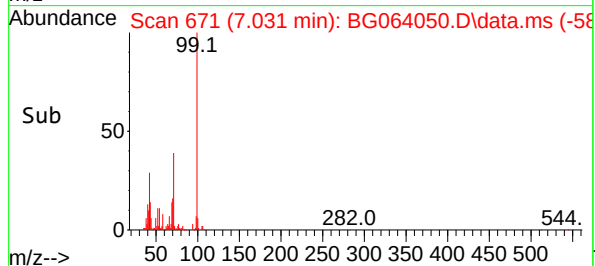
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion: 99 Resp: 32384  
Ion Ratio Lower Upper  
99 100  
42 29.1 22.7 34.1  
71 39.4 30.6 46.0

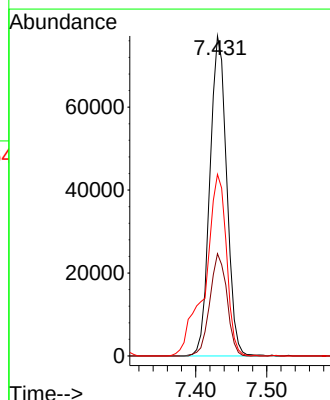
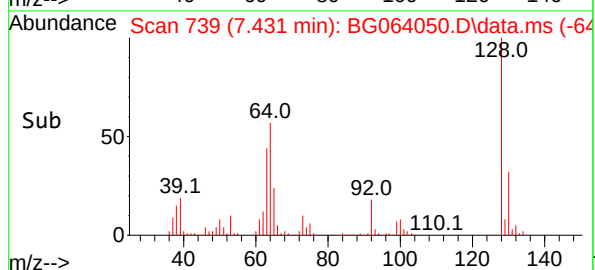
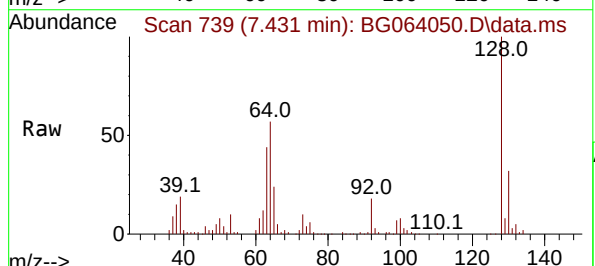
Manual Integrations  
APPROVED

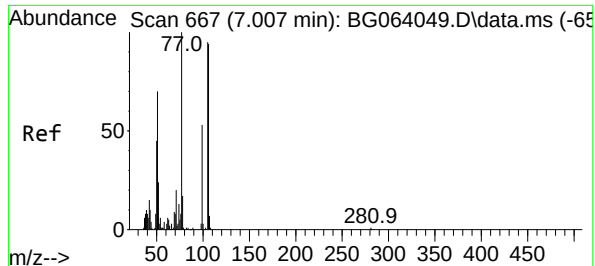
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#8  
2-Chlorophenol  
Concen: 48.467 ng  
RT: 7.431 min Scan# 739  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

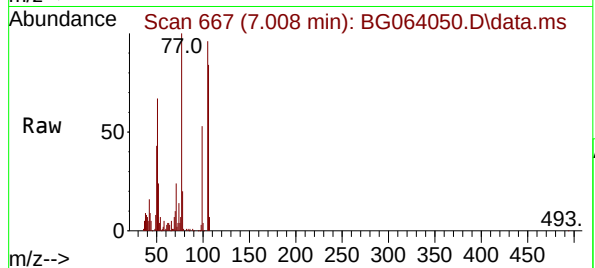
Tgt Ion:128 Resp: 126814  
Ion Ratio Lower Upper  
128 100  
130 31.9 12.3 52.3  
64 56.7 37.0 77.0





#9  
Benzaldehyde  
Concen: 42.223 ng  
RT: 7.008 min Scan# 60  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

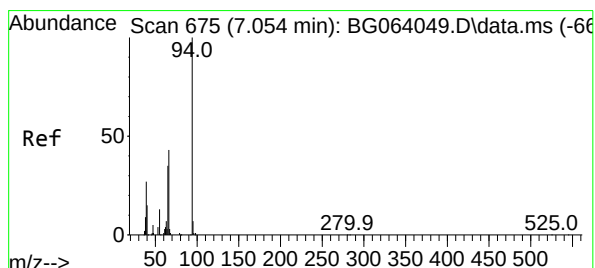
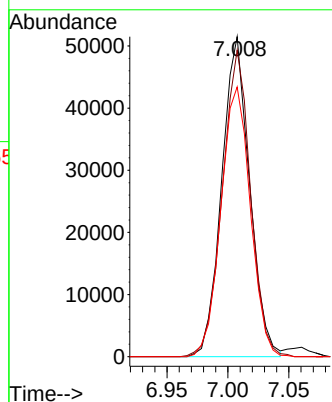
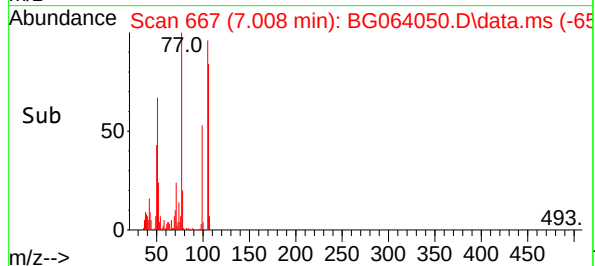
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



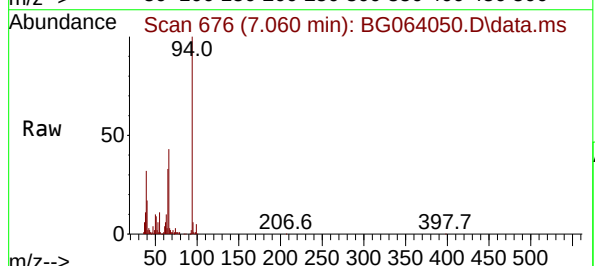
Tgt Ion: 77 Resp: 81790  
Ion Ratio Lower Upper  
77 100  
105 95.8 75.5 115.5  
106 84.3 74.2 114.2

Manual Integrations  
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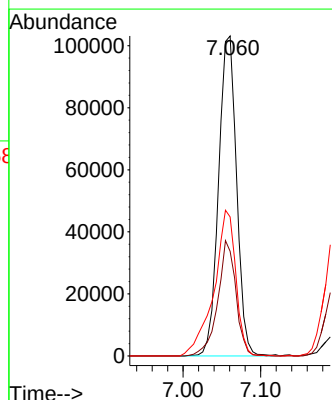
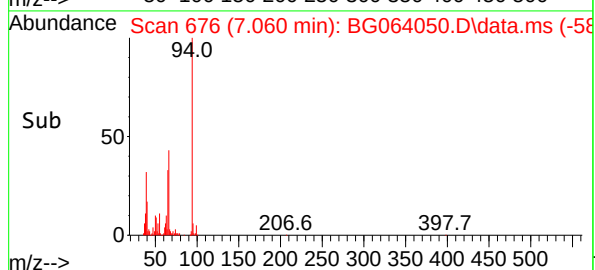
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



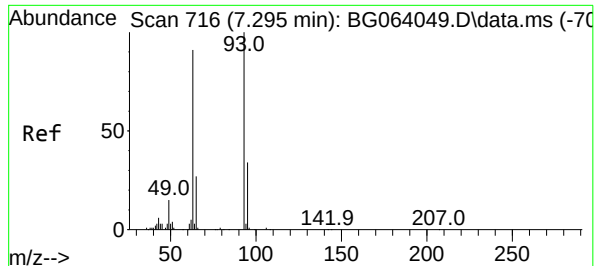
#10  
Phenol  
Concen: 49.107 ng  
RT: 7.060 min Scan# 676  
Delta R.T. 0.007 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23



Tgt Ion: 94 Resp: 166630  
Ion Ratio Lower Upper  
94 100  
65 32.7 15.2 55.2  
66 43.4 25.1 65.1







#11

bis(2-Chloroethyl)ether

Concen: 47.264 ng

RT: 7.290 min Scan# 716

Delta R.T. -0.005 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23

Instrument :

BNA\_G

ClientSampleId :

SSTDICC050

Tgt Ion: 93 Resp: 125734

Ion Ratio Lower Upper

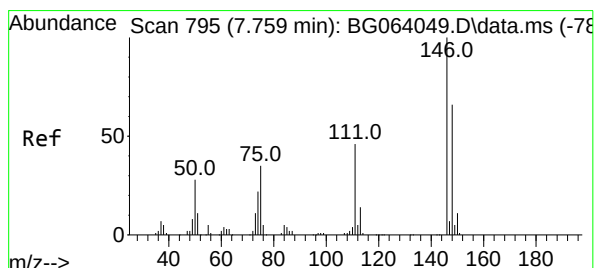
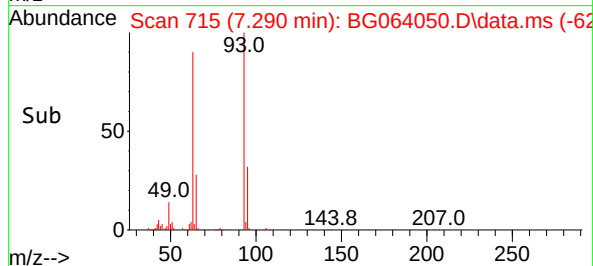
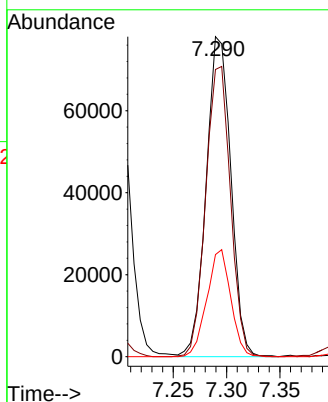
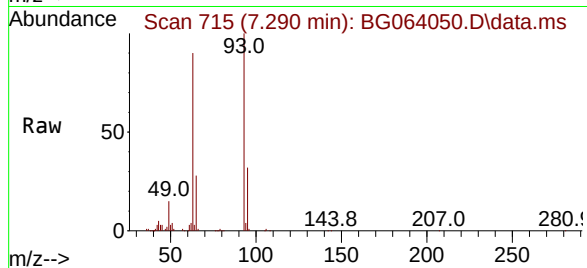
93 100

63 89.8 70.0 110.0

95 31.9 13.7 53.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#12

1,3-Dichlorobenzene

Concen: 47.598 ng

RT: 7.760 min Scan# 795

Delta R.T. 0.001 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23

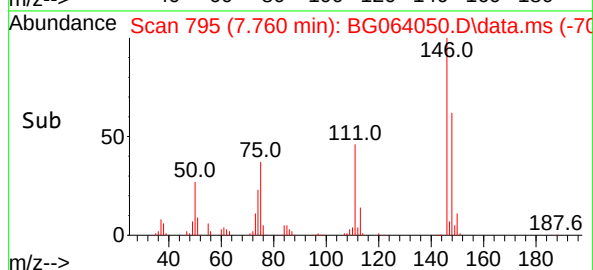
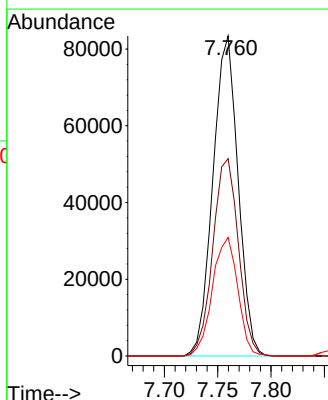
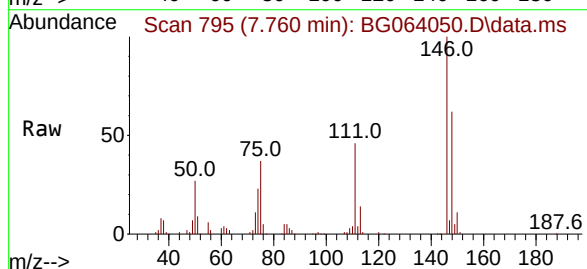
Tgt Ion:146 Resp: 136763

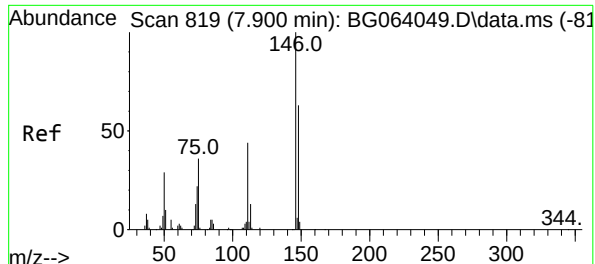
Ion Ratio Lower Upper

146 100

148 61.6 52.6 78.8

75 37.1 28.1 42.1





#13

1,4-Dichlorobenzene

Concen: 47.733 ng

RT: 7.901 min Scan# 819

Delta R.T. 0.001 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23

Instrument :

BNA\_G

ClientSampleId :

SSTDICC050

Tgt Ion:146 Resp: 140578

Ion Ratio Lower Upper

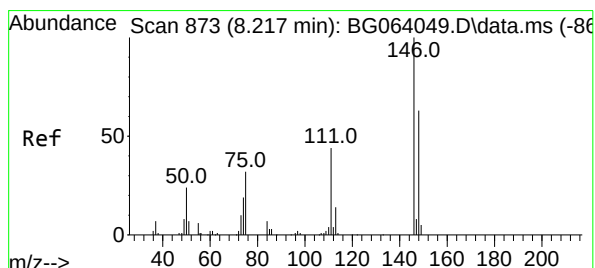
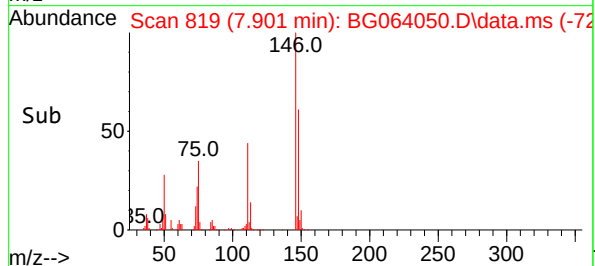
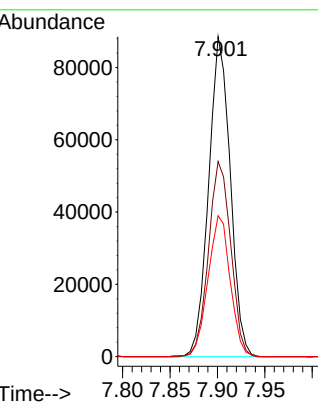
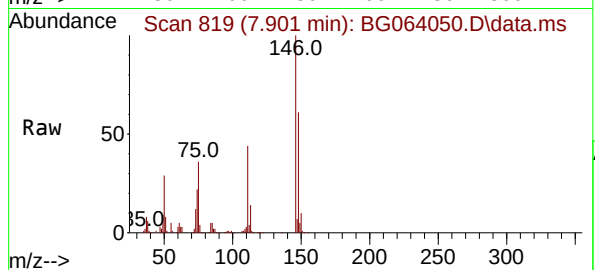
146 100

148 61.0 50.6 75.8

111 44.1 35.1 52.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#14

1,2-Dichlorobenzene

Concen: 47.407 ng

RT: 8.218 min Scan# 873

Delta R.T. 0.001 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23

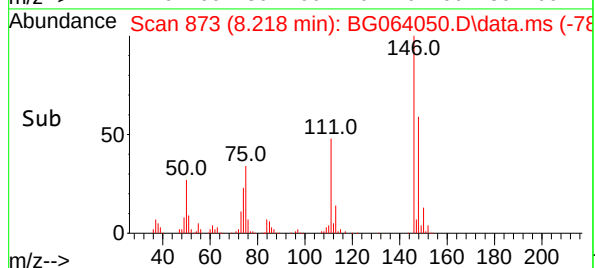
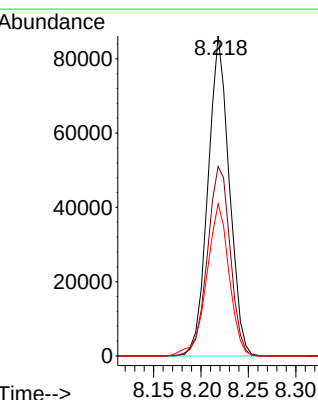
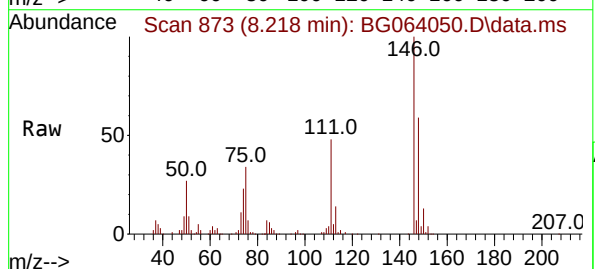
Tgt Ion:146 Resp: 134631

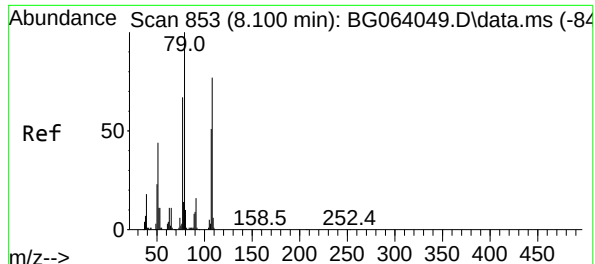
Ion Ratio Lower Upper

146 100

148 59.2 50.2 75.2

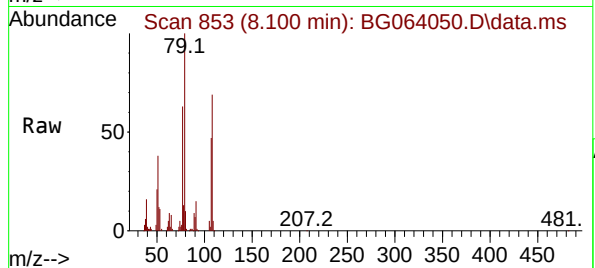
111 47.5 36.4 54.6





#15  
Benzyl Alcohol  
Concen: 50.441 ng  
RT: 8.100 min Scan# 853  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

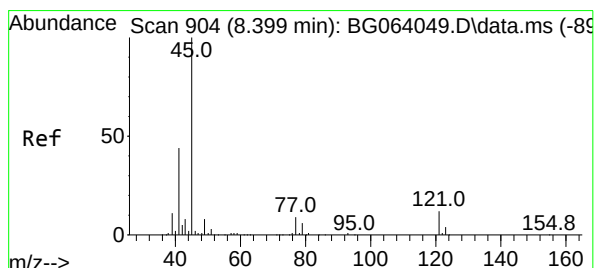
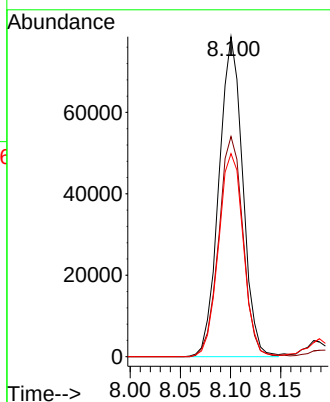
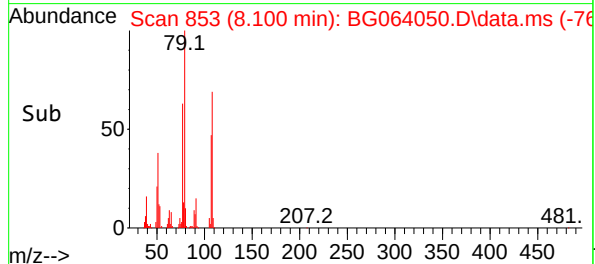
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



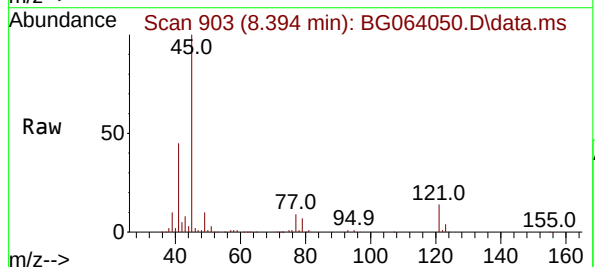
Tgt Ion: 79 Resp: 12918  
Ion Ratio Lower Upper  
79 100  
108 68.8 61.7 92.5  
77 63.5 53.9 80.9

Manual Integrations  
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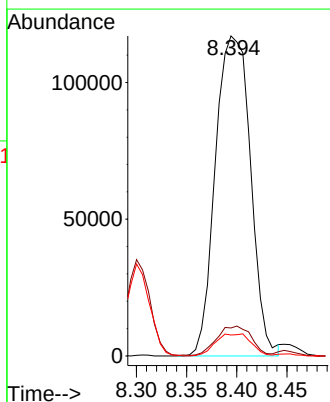
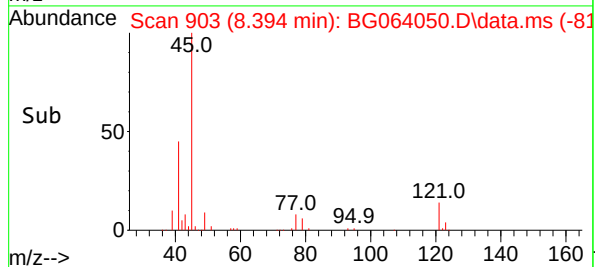
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

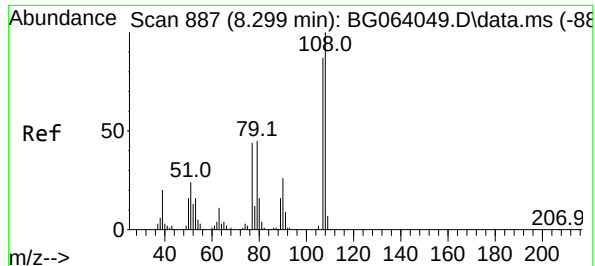


#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 47.637 ng  
RT: 8.394 min Scan# 903  
Delta R.T. -0.005 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23



Tgt Ion: 45 Resp: 284947  
Ion Ratio Lower Upper  
45 100  
77 8.8 0.0 29.0  
79 6.5 0.0 26.6





#17

2-Methylphenol

Concen: 49.469 ng

RT: 8.300 min Scan# 887

Delta R.T. 0.001 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23

Instrument :

BNA\_G

ClientSampleId :

SSTDICC050

Tgt Ion:107 Resp: 11140

Ion Ratio Lower Upper

107 100

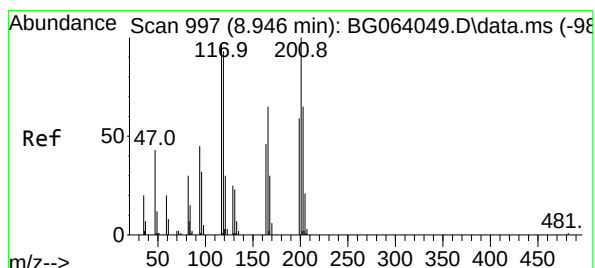
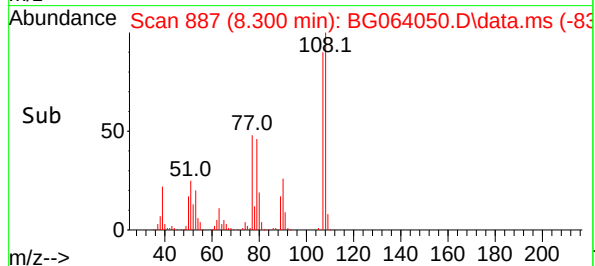
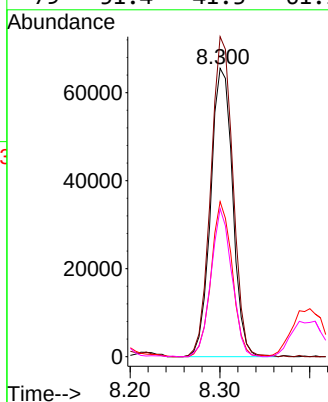
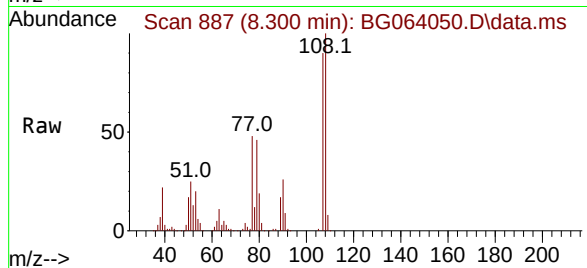
108 111.0 92.5 138.7

77 53.8 40.5 60.7

79 51.4 41.3 61.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#18

Hexachloroethane

Concen: 48.558 ng

RT: 8.947 min Scan# 997

Delta R.T. 0.001 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23

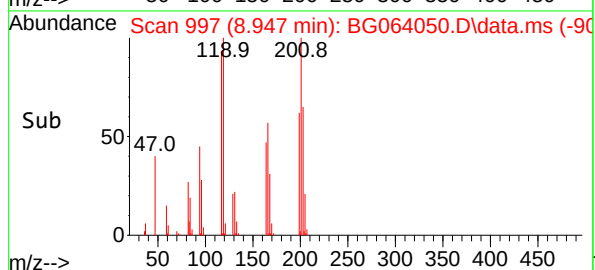
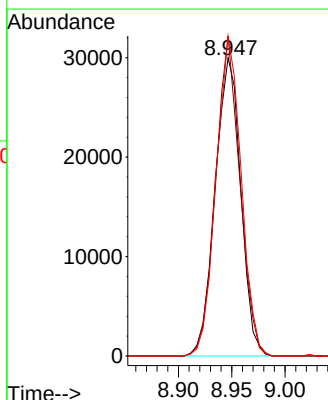
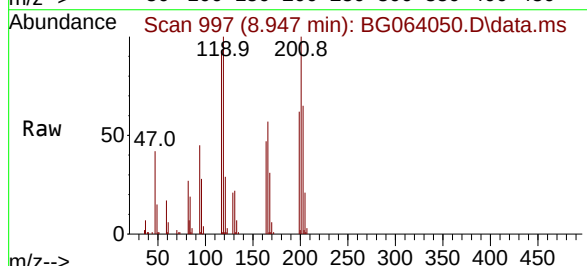
Tgt Ion:117 Resp: 50035

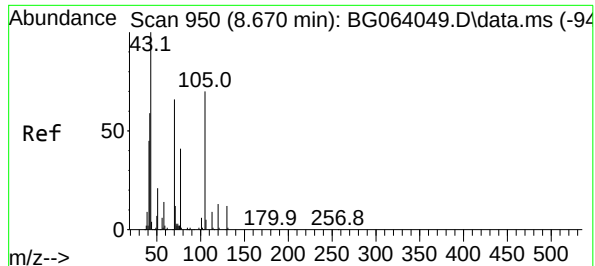
Ion Ratio Lower Upper

117 100

119 108.3 76.2 114.2

201 107.3 81.5 122.3





#19

n-Nitroso-di-n-propylamine

Concen: 48.631 ng

RT: 8.670 min Scan# 91

Delta R.T. 0.001 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23

Instrument :

BNA\_G

ClientSampleId :

SSTDICC050

Tgt Ion: 70 Resp: 11311

Ion Ratio Lower Upper

70 100

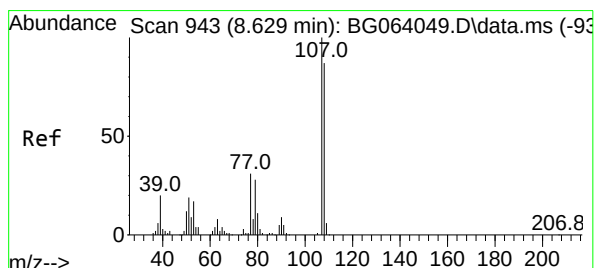
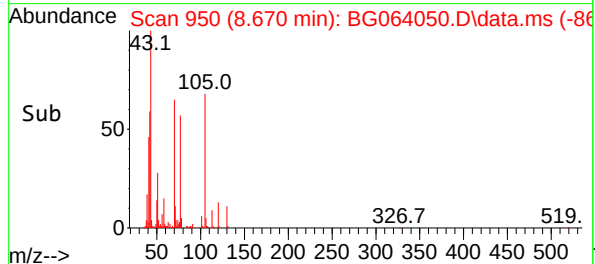
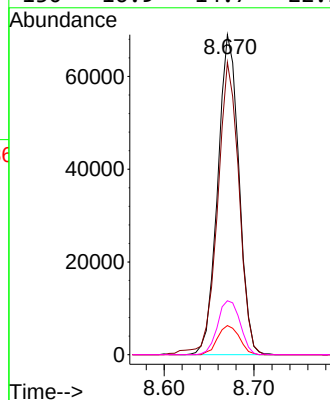
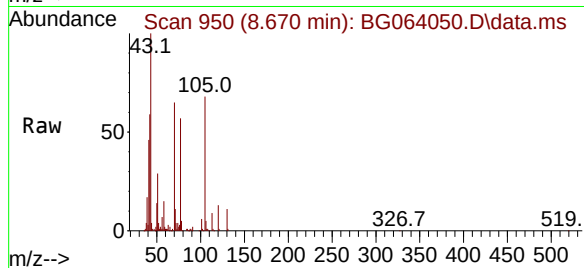
42 91.4 72.1 108.1

101 9.1 7.2 10.8

130 16.9 14.7 22.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#20

3+4-Methylphenols

Concen: 49.461 ng

RT: 8.629 min Scan# 943

Delta R.T. 0.001 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23

Tgt Ion:107 Resp: 153346

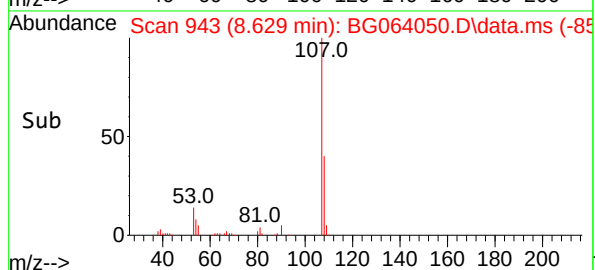
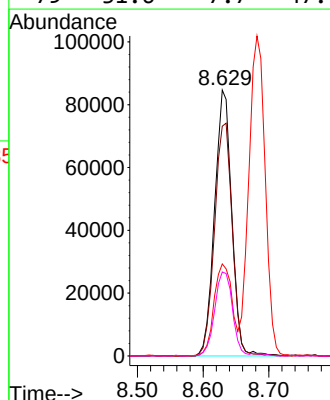
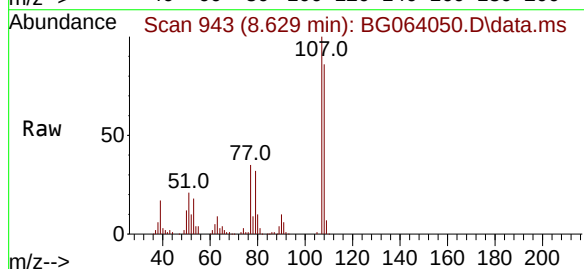
Ion Ratio Lower Upper

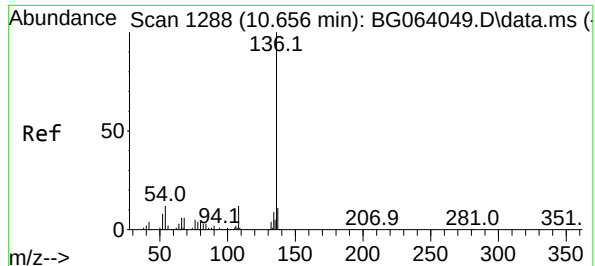
107 100

108 86.4 67.0 107.0

77 34.6 11.2 51.2

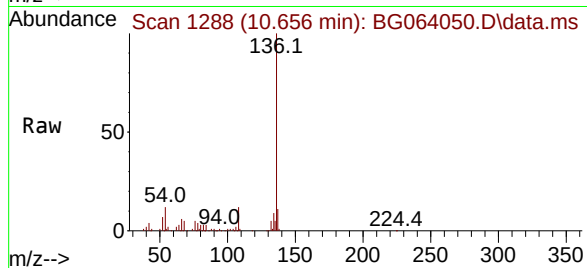
79 31.6 7.7 47.7





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.656 min Scan# 1288  
Delta R.T. 0.000 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

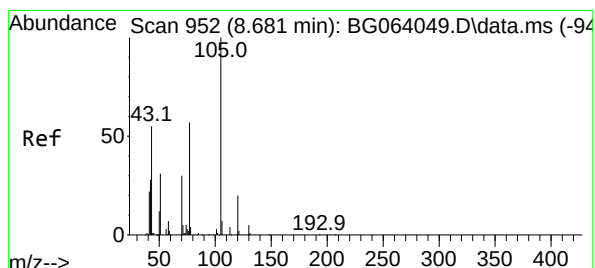
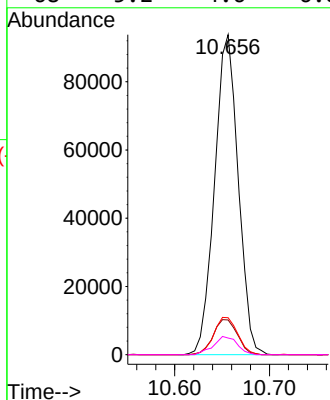
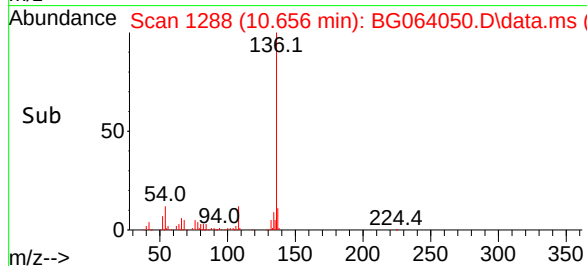
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:136 Resp: 16232  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.5 12.7  
54 12.3 9.9 14.9  
68 5.2 4.6 6.8

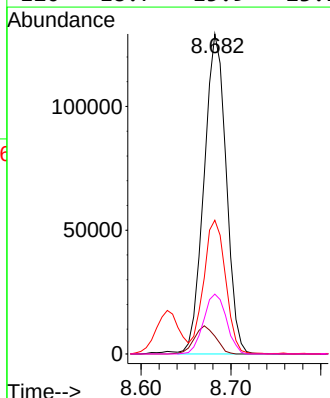
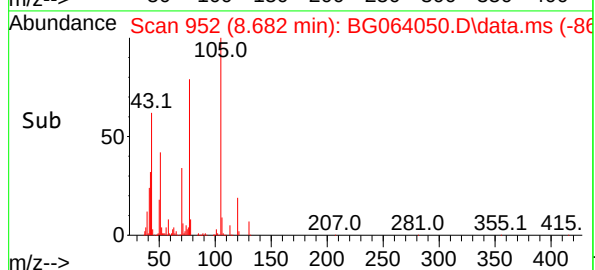
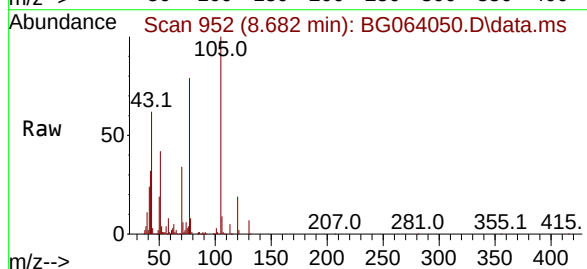
Manual Integrations  
APPROVED

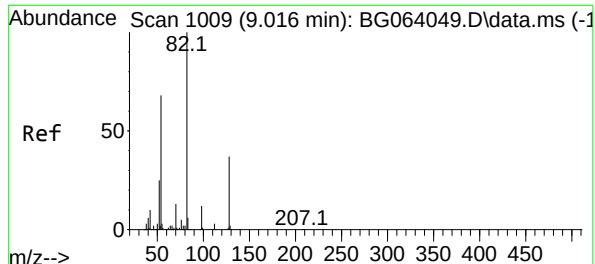
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#22  
Acetophenone  
Concen: 49.752 ng  
RT: 8.682 min Scan# 952  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

Tgt Ion:105 Resp: 221424  
Ion Ratio Lower Upper  
105 100  
71 5.5 4.2 6.4  
51 41.8 33.3 49.9  
120 18.7 15.9 23.9





#23

Nitrobenzene-d5

Concen: 107.720 ng

RT: 9.017 min Scan# 1009

Delta R.T. 0.001 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23

Instrument :

BNA\_G

ClientSampleId :

SSTDICC050

Tgt Ion: 82 Resp: 31640

Ion Ratio Lower Upper

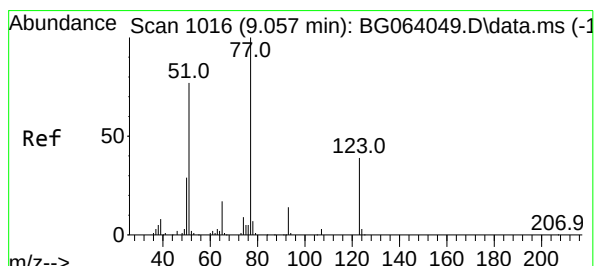
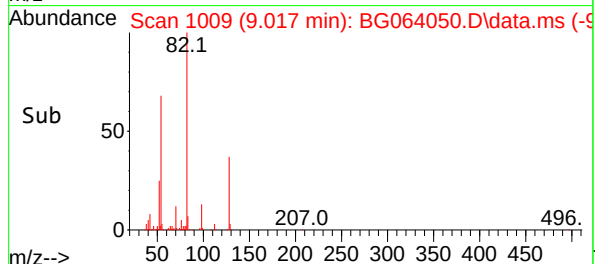
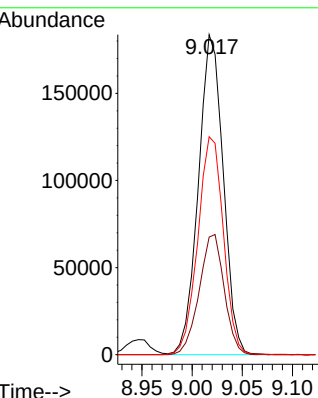
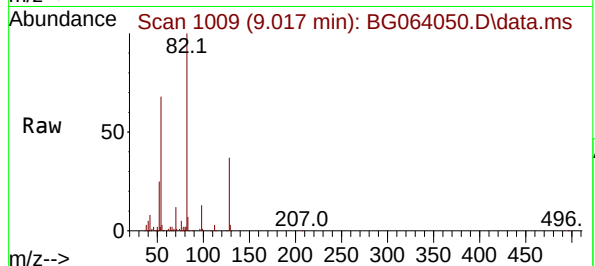
82 100

128 36.7 30.0 45.0

54 68.1 54.7 82.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#24

Nitrobenzene

Concen: 52.890 ng

RT: 9.058 min Scan# 1016

Delta R.T. 0.001 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23

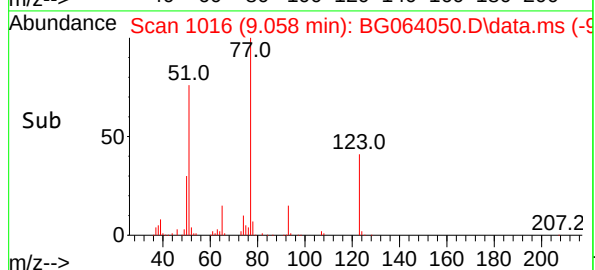
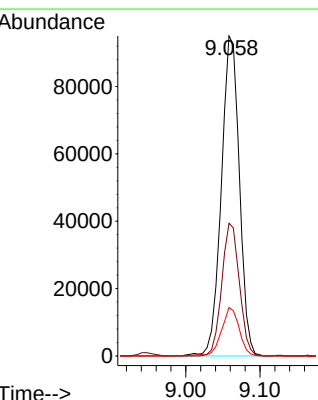
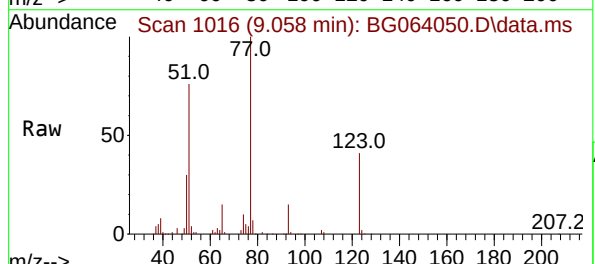
Tgt Ion: 77 Resp: 160553

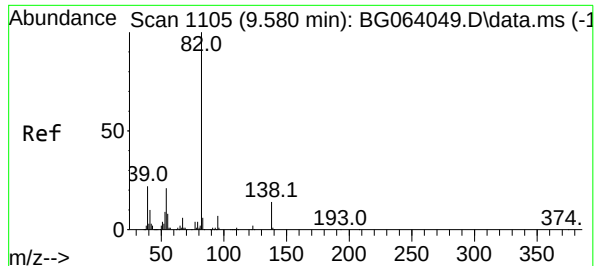
Ion Ratio Lower Upper

77 100

123 41.4 31.4 47.2

65 15.1 13.4 20.0





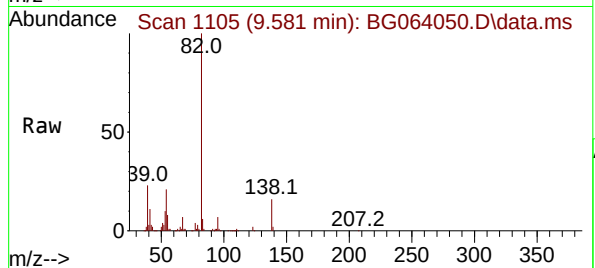
#25  
Isophorone  
Concen: 49.457 ng  
RT: 9.581 min Scan# 1105  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

Instrument :

BNA\_G

ClientSampleId :

SSTDICC050

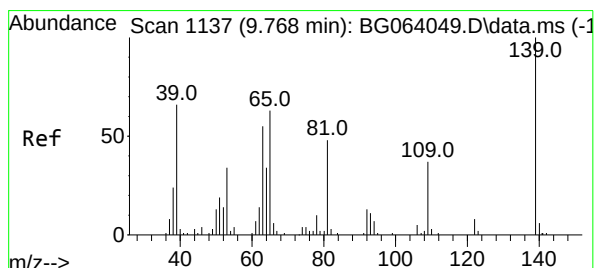
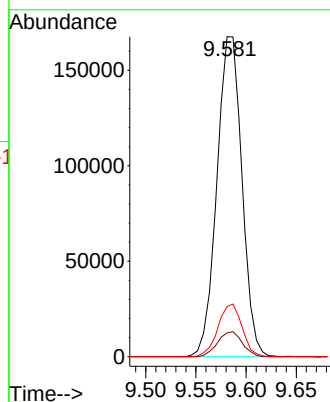
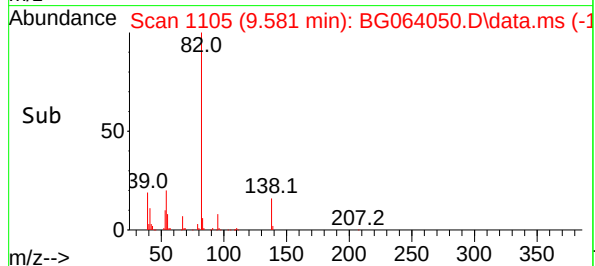


Tgt Ion: 82 Resp: 290768  
Ion Ratio Lower Upper  
82 100  
95 7.4 5.8 8.8  
138 15.7 10.9 16.3

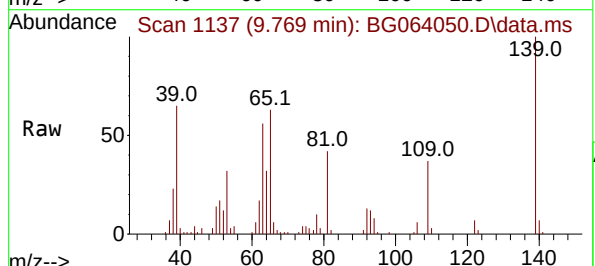
Manual Integrations

APPROVED

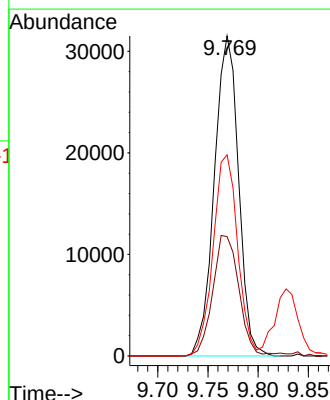
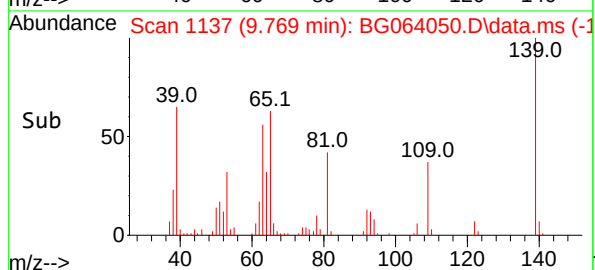
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



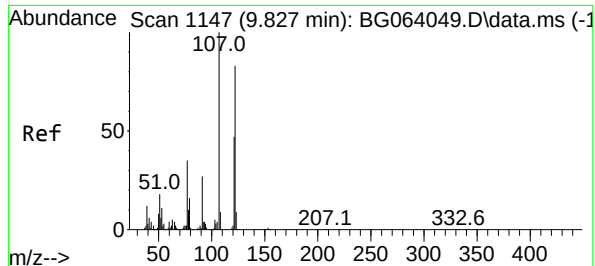
#26  
2-Nitrophenol  
Concen: 49.791 ng  
RT: 9.769 min Scan# 1137  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23



Tgt Ion:139 Resp: 52718  
Ion Ratio Lower Upper  
139 100  
109 37.3 29.9 44.9  
65 62.8 50.6 76.0







#27

2,4-Dimethylphenol

Concen: 50.976 ng

RT: 9.828 min Scan# 1147

Delta R.T. 0.001 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23

Instrument :

BNA\_G

ClientSampleId :

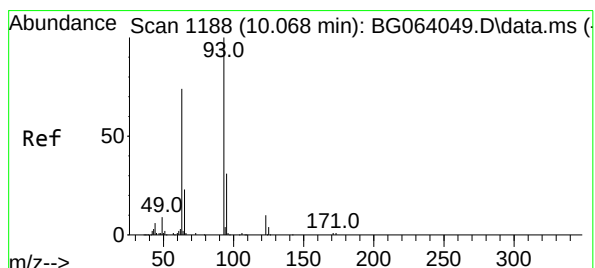
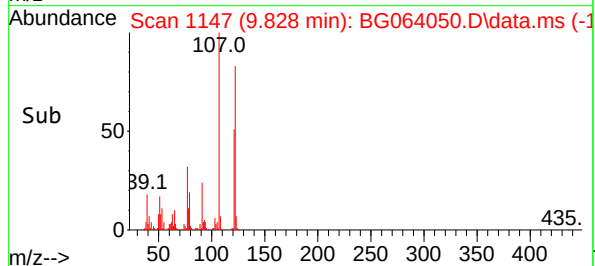
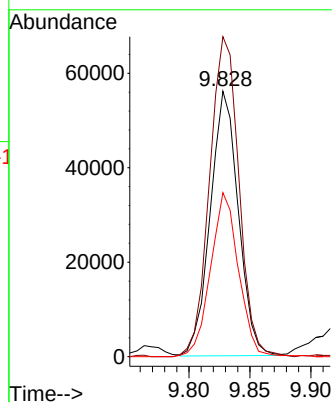
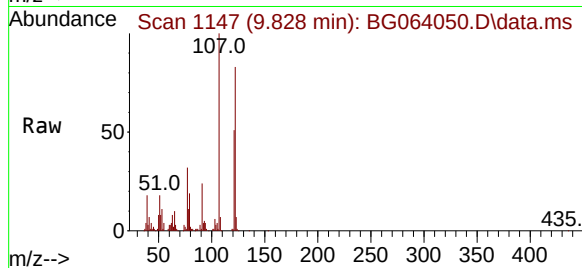
SSTDICC050

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 122   | Resp: | 8984  |
| Ion Ratio | Lower | Upper |       |
| 122       | 100   |       |       |
| 107       | 120.6 | 95.4  | 143.0 |
| 121       | 61.8  | 44.9  | 67.3  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025



#28

bis(2-Chloroethoxy)methane

Concen: 48.604 ng

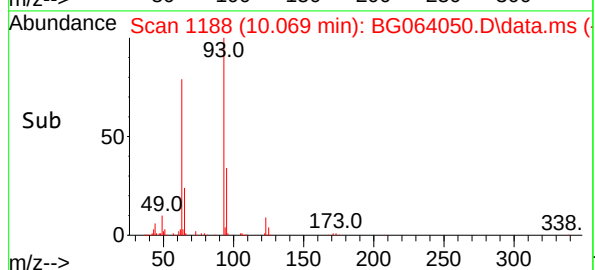
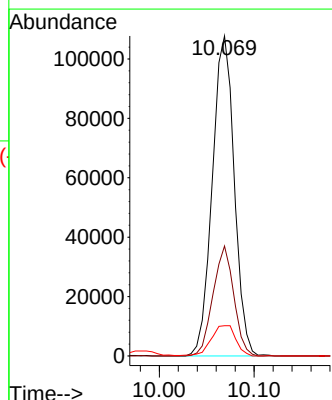
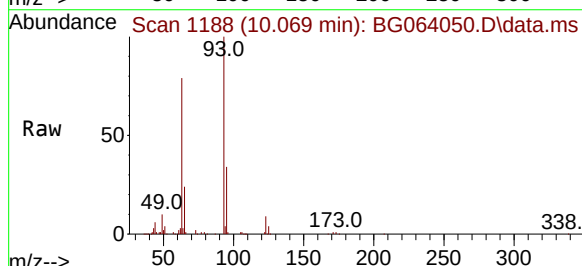
RT: 10.069 min Scan# 1188

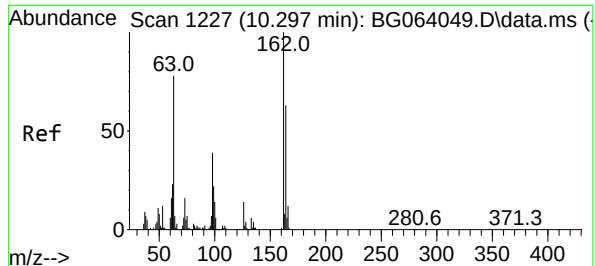
Delta R.T. 0.001 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23

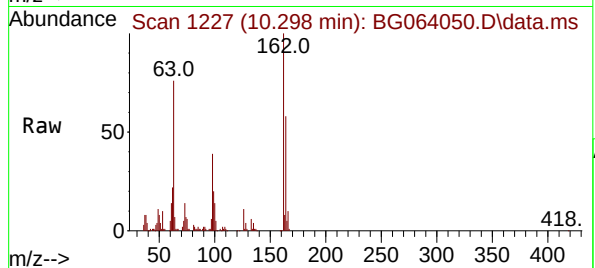
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 173244 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 95        | 34.4  | 25.0  | 37.4   |
| 123       | 9.5   | 7.6   | 11.4   |





#29  
2,4-Dichlorophenol  
Concen: 52.861 ng  
RT: 10.298 min Scan# 11764  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

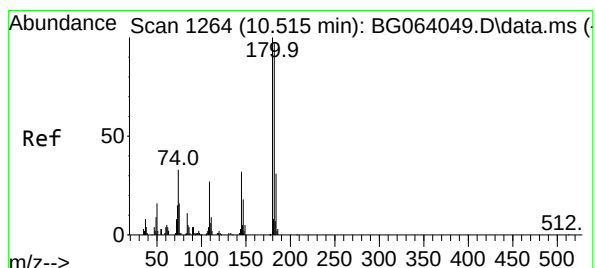
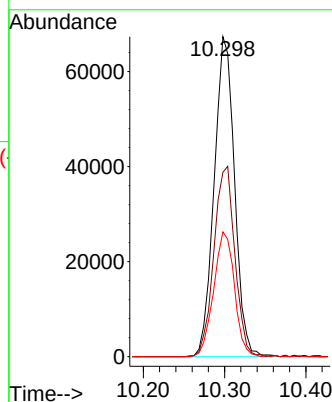
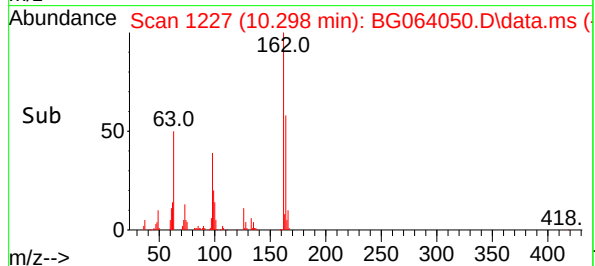
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:162 Resp: 11764  
Ion Ratio Lower Upper  
162 100  
164 57.6 42.8 82.8  
98 39.0 19.1 59.1

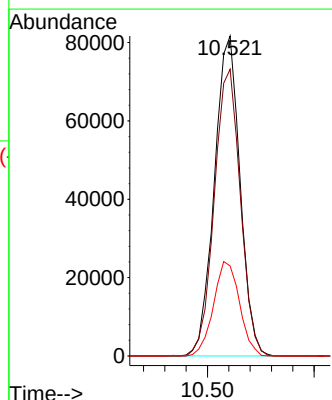
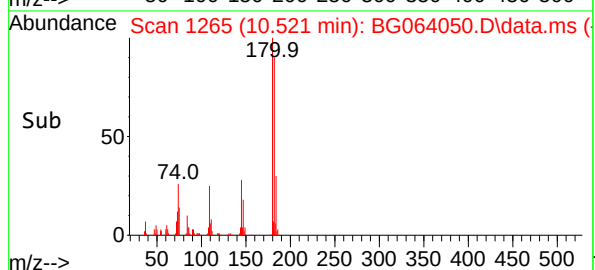
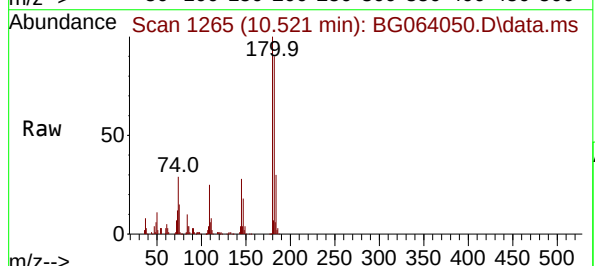
Manual Integrations  
APPROVED

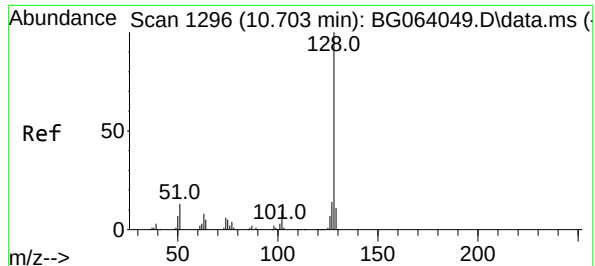
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#30  
1,2,4-Trichlorobenzene  
Concen: 50.701 ng  
RT: 10.521 min Scan# 1265  
Delta R.T. 0.007 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

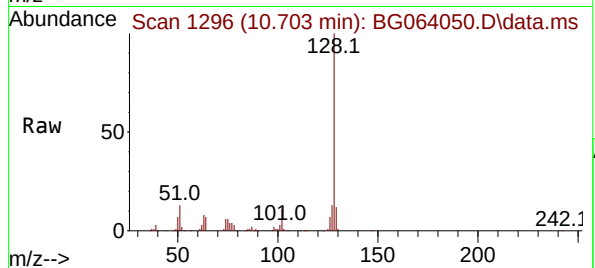
Tgt Ion:180 Resp: 136213  
Ion Ratio Lower Upper  
180 100  
182 89.6 77.3 115.9  
145 28.2 25.2 37.8





#31  
Naphthalene  
Concen: 49.204 ng  
RT: 10.703 min Scan# 1296  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

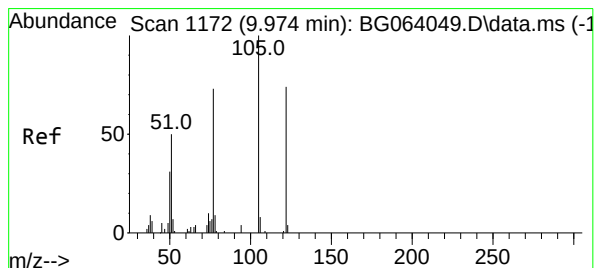
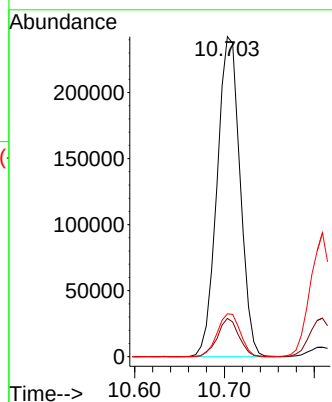
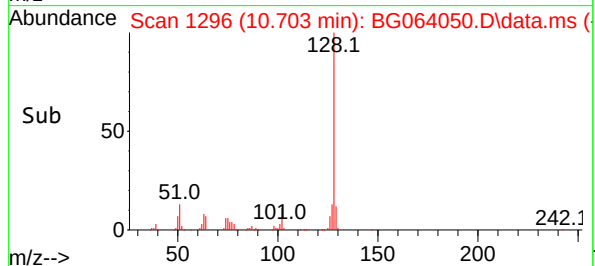
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:128 Resp: 430679  
Ion Ratio Lower Upper  
128 100  
129 11.9 8.4 12.6  
127 13.4 11.1 16.7

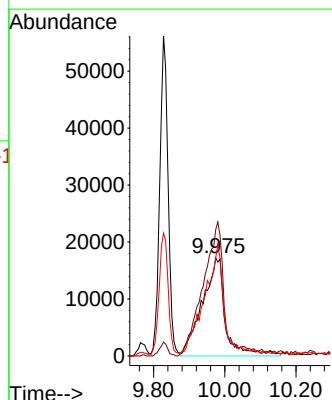
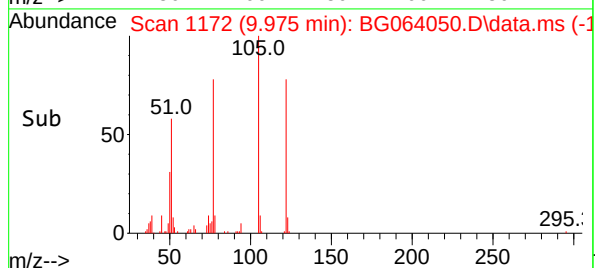
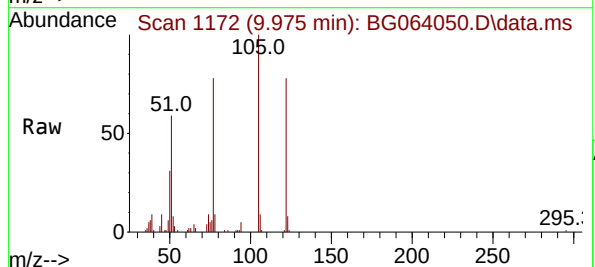
Manual Integrations  
APPROVED

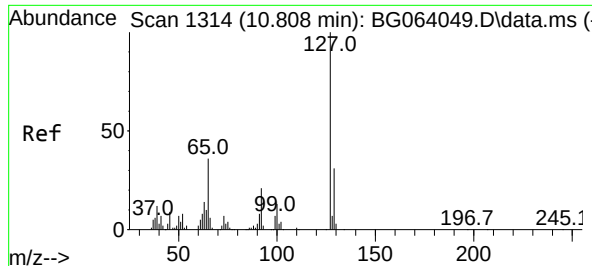
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#32  
Benzoic acid  
Concen: 47.851 ng m  
RT: 9.975 min Scan# 1172  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

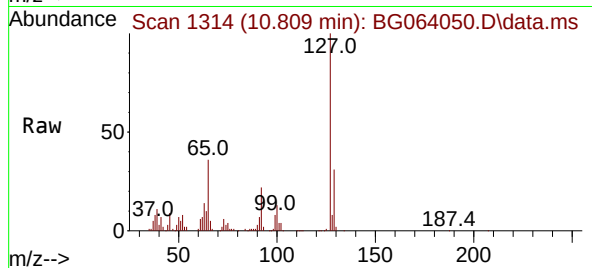
Tgt Ion:122 Resp: 77326  
Ion Ratio Lower Upper  
122 100  
105 128.9 115.0 155.0  
77 100.0 80.9 120.9





#33  
4-Chloroaniline  
Concen: 49.975 ng  
RT: 10.809 min Scan# 1314  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

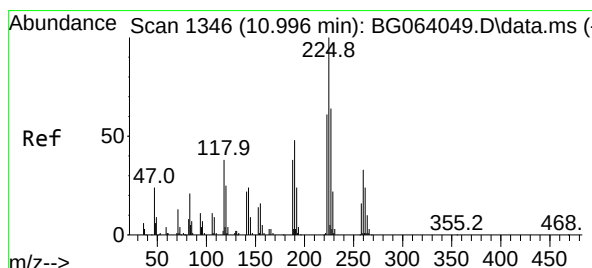
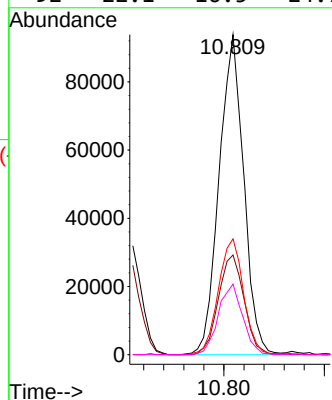
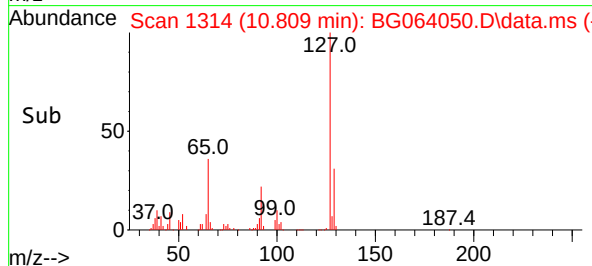
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:127 Resp: 159874  
Ion Ratio Lower Upper  
127 100  
129 31.1 25.0 37.4  
65 36.2 28.5 42.7  
92 22.1 16.5 24.7

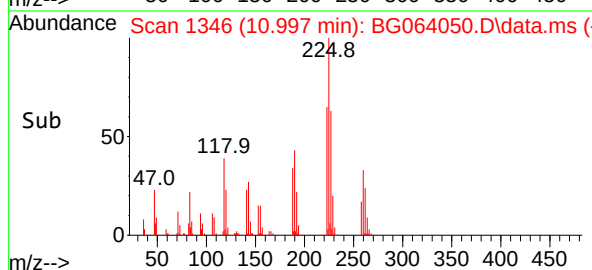
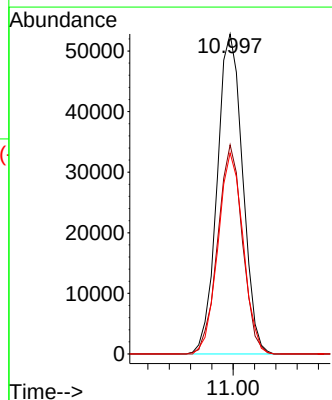
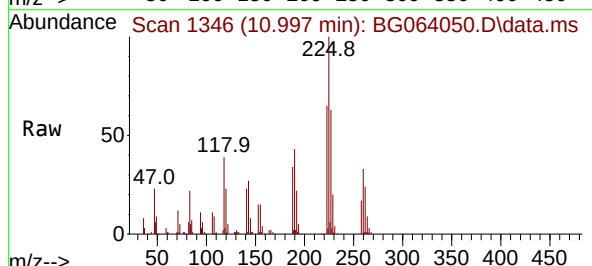
Manual Integrations  
APPROVED

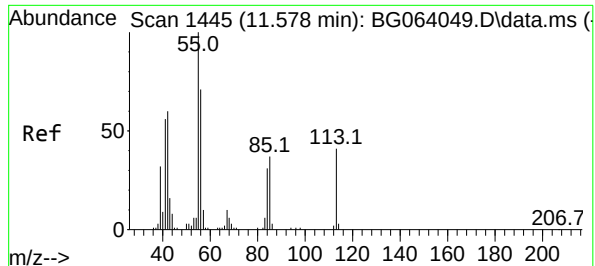
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#34  
Hexachlorobutadiene  
Concen: 49.759 ng  
RT: 10.997 min Scan# 1346  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

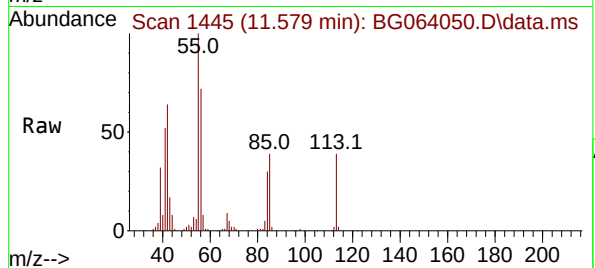
Tgt Ion:225 Resp: 87623  
Ion Ratio Lower Upper  
225 100  
223 65.4 48.5 72.7  
227 62.8 51.0 76.6





#35  
Caprolactam  
Concen: 53.678 ng  
RT: 11.579 min Scan# 1445  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

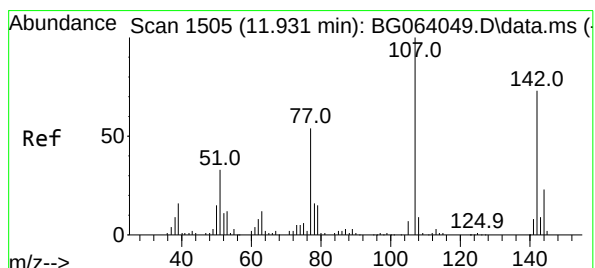
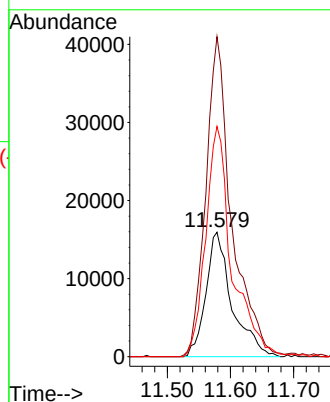
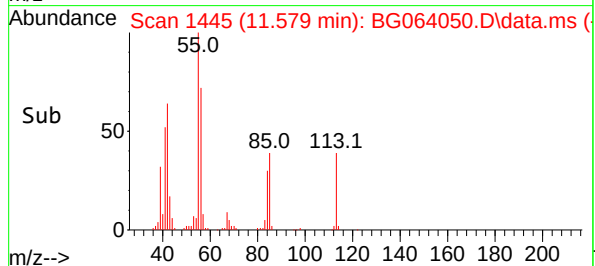
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:113 Resp: 45779  
Ion Ratio Lower Upper  
113 100  
55 257.1 225.2 265.2  
56 185.0 153.4 193.4

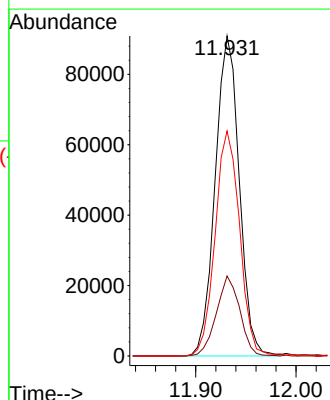
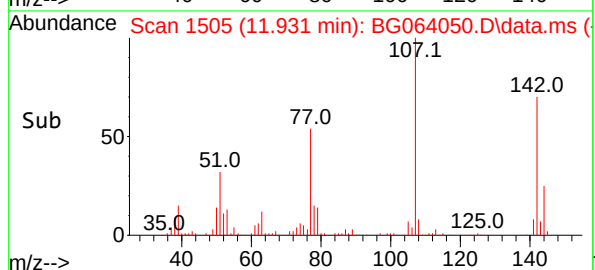
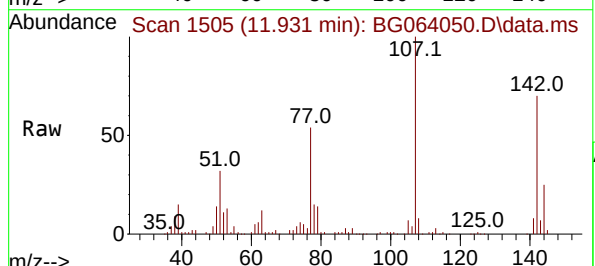
Manual Integrations  
APPROVED

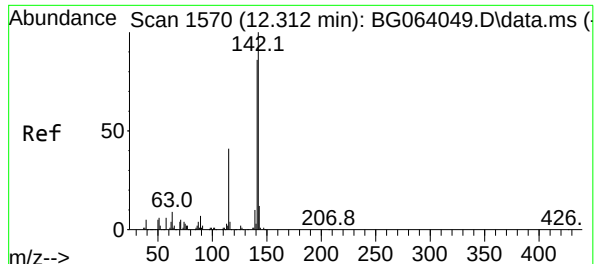
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#36  
4-Chloro-3-methylphenol  
Concen: 51.905 ng  
RT: 11.931 min Scan# 1505  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

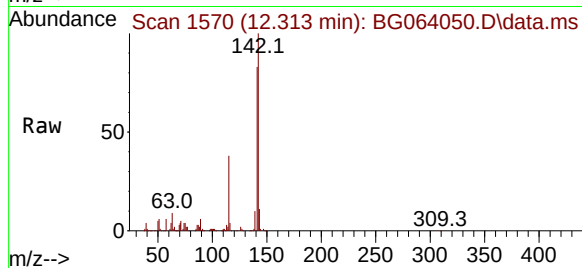
Tgt Ion:107 Resp: 151419  
Ion Ratio Lower Upper  
107 100  
144 25.0 18.6 28.0  
142 70.3 58.0 87.0





#37  
2-Methylnaphthalene  
Concen: 48.994 ng  
RT: 12.313 min Scan# 1570  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

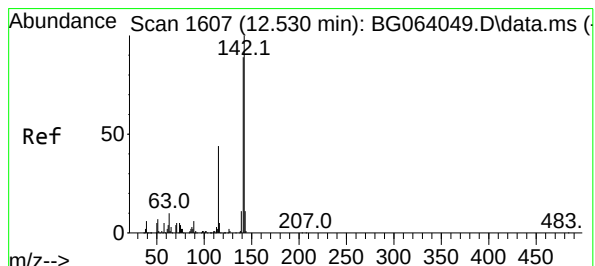
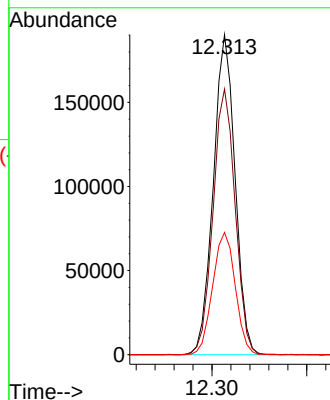
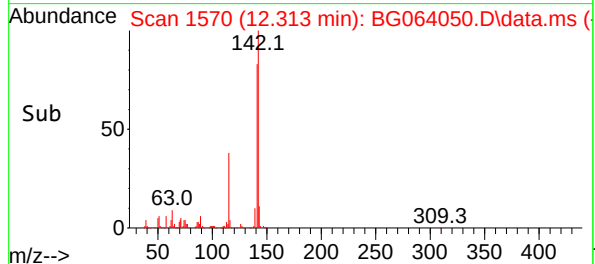
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:142 Resp: 302749  
Ion Ratio Lower Upper  
142 100  
141 83.0 68.6 103.0  
115 38.2 32.8 49.2

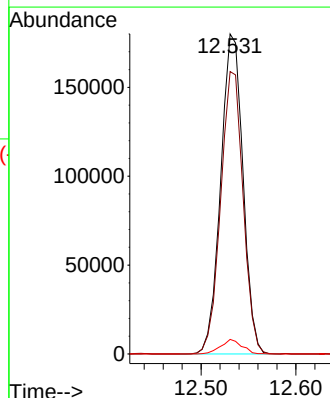
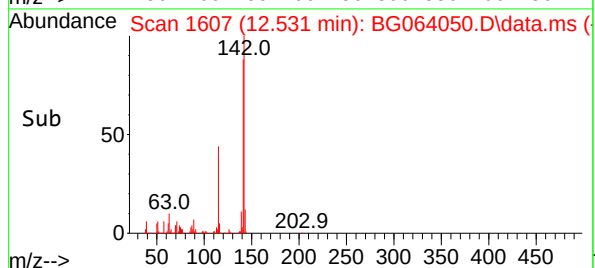
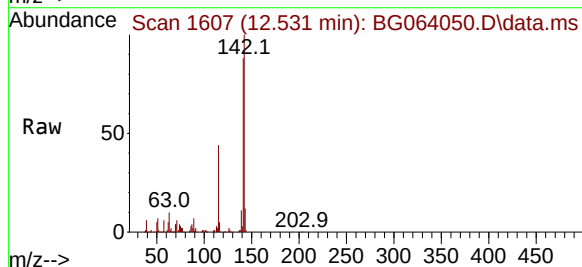
Manual Integrations  
APPROVED

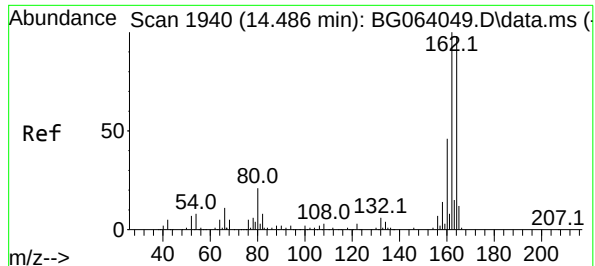
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#38  
1-Methylnaphthalene  
Concen: 48.517 ng  
RT: 12.531 min Scan# 1607  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

Tgt Ion:142 Resp: 293710  
Ion Ratio Lower Upper  
142 100  
141 88.3 71.2 106.8  
116 4.6 3.6 5.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.487 min Scan# 1940

Delta R.T. 0.001 min

Lab File: BG064050.D

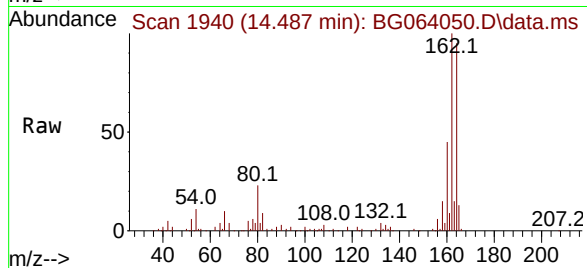
Acq: 5 Mar 2025 12:23

Instrument :

BNA\_G

ClientSampleId :

SSTDICC050

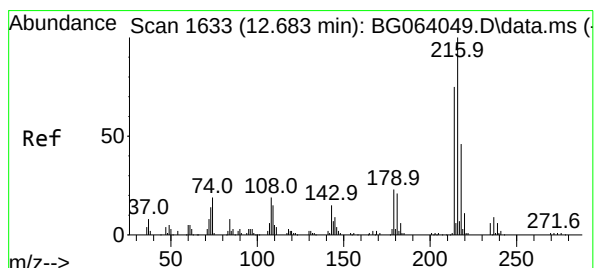
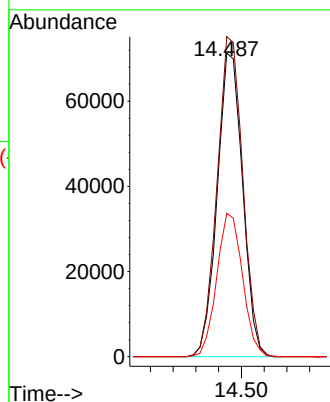
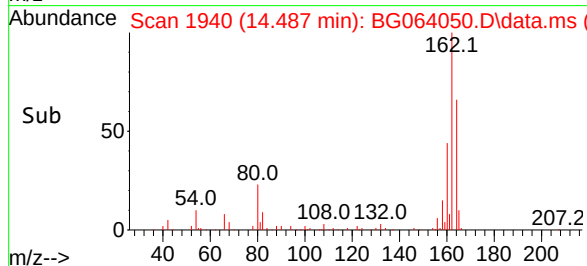


| Tgt Ion:  | 164   | Resp: | 11052 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 105.3 | 81.4  | 122.0 |
| 160       | 47.2  | 37.0  | 55.6  |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#40

1,2,4,5-Tetrachlorobenzene

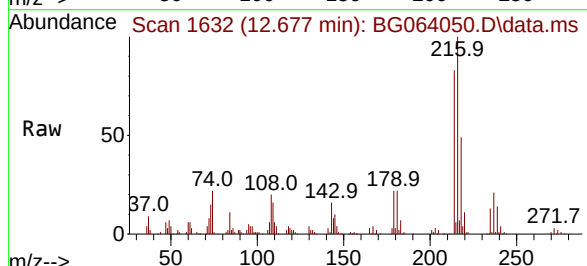
Concen: 49.068 ng

RT: 12.677 min Scan# 1632

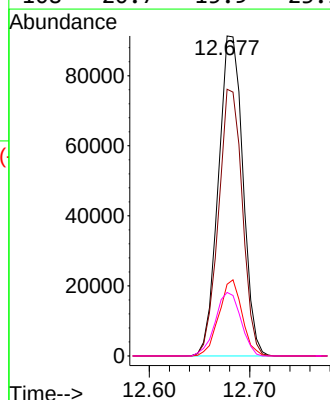
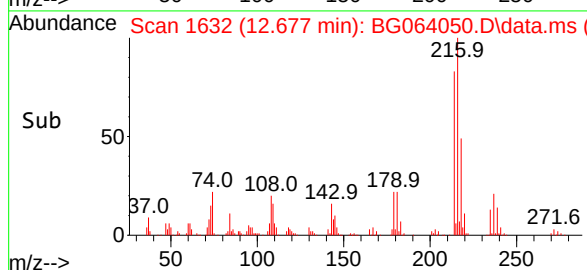
Delta R.T. -0.005 min

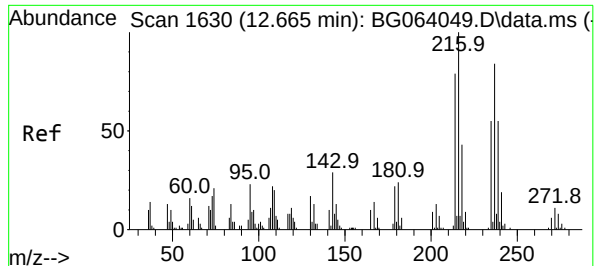
Lab File: BG064050.D

Acq: 5 Mar 2025 12:23



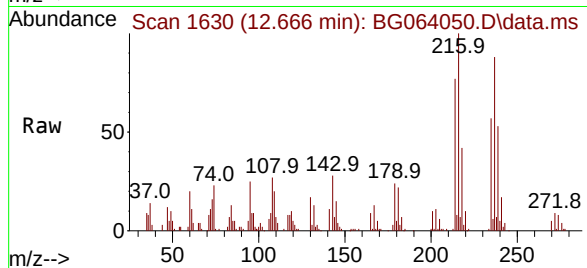
| Tgt Ion:  | 216   | Resp: | 154824 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 216       | 100   |       |        |
| 214       | 80.9  | 61.7  | 92.5   |
| 179       | 22.4  | 17.9  | 26.9   |
| 108       | 20.7  | 15.9  | 23.9   |





#41  
Hexachlorocyclopentadiene  
Concen: 54.295 ng  
RT: 12.666 min Scan# 1630  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

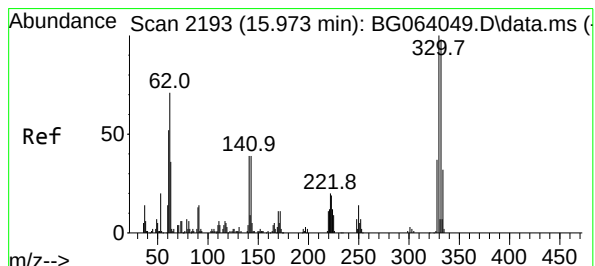
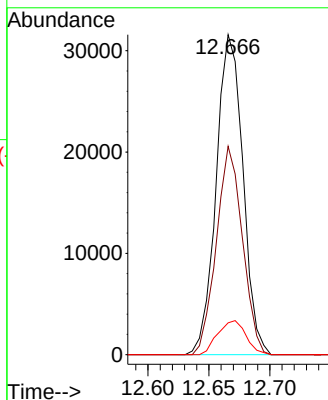
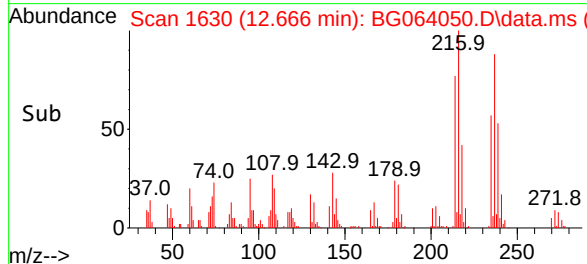
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



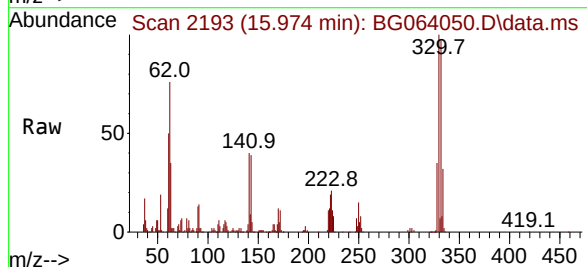
Tgt Ion:237 Resp: 48218  
Ion Ratio Lower Upper  
237 100  
235 65.1 46.0 86.0  
272 9.9 0.0 32.8

Manual Integrations  
APPROVED

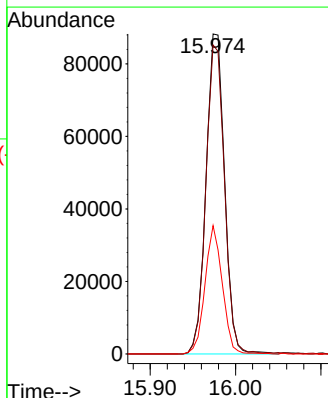
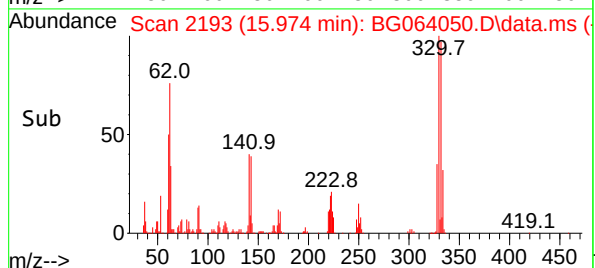
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



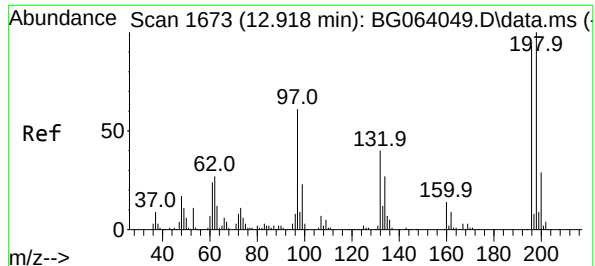
#42  
2,4,6-Tribromophenol  
Concen: 108.574 ng  
RT: 15.974 min Scan# 2193  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23



Tgt Ion:330 Resp: 133386  
Ion Ratio Lower Upper  
330 100  
332 96.6 76.7 115.1  
141 37.4 29.7 44.5







#43

2,4,6-Trichlorophenol

Concen: 53.786 ng

RT: 12.918 min Scan# 1

Delta R.T. 0.001 min

Lab File: BG064050.D

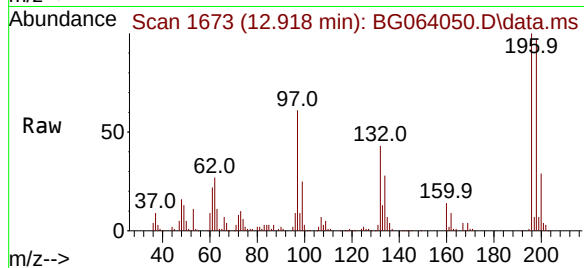
Acq: 5 Mar 2025 12:23

Instrument :

BNA\_G

ClientSampleId :

SSTDICC050



Tgt Ion:196 Resp: 100024

Ion Ratio Lower Upper

196 100

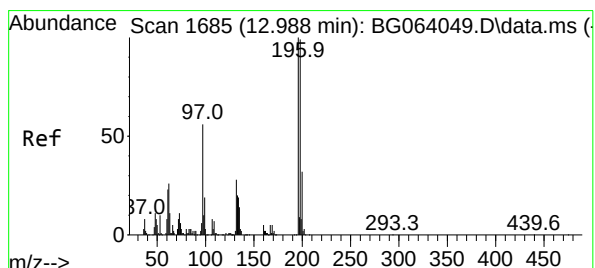
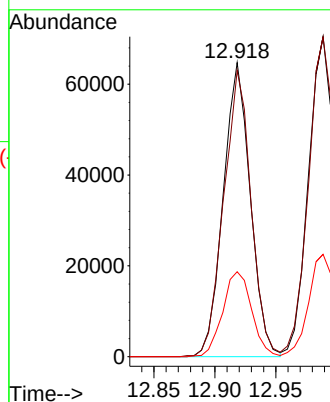
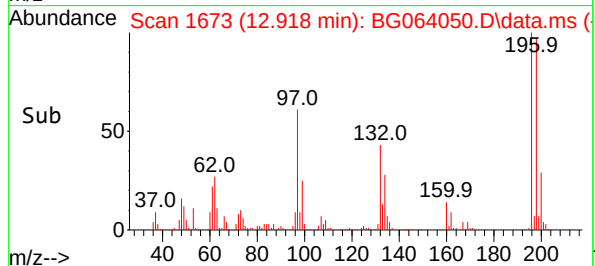
198 97.3 85.6 128.4

200 28.9 24.6 37.0

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#44

2,4,5-Trichlorophenol

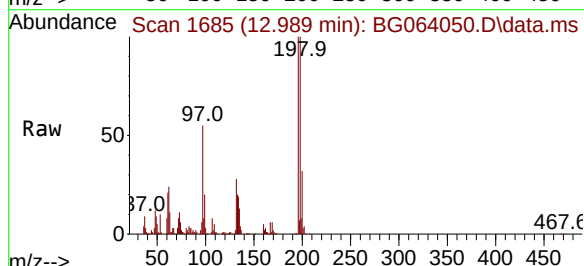
Concen: 52.900 ng

RT: 12.989 min Scan# 1685

Delta R.T. 0.001 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23



Tgt Ion:196 Resp: 109309

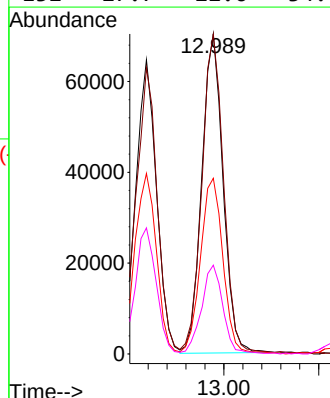
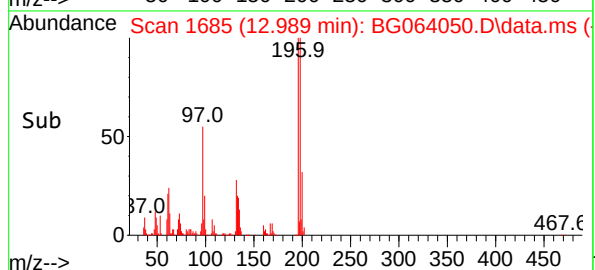
Ion Ratio Lower Upper

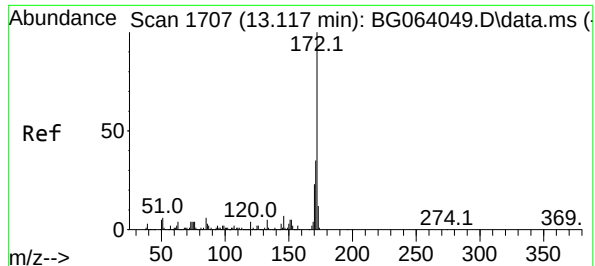
196 100

198 99.9 79.5 119.3

97 54.9 45.2 67.8

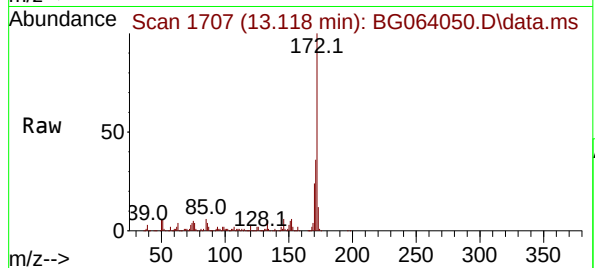
132 27.7 22.6 34.0





#45  
2-Fluorobiphenyl  
Concen: 97.354 ng  
RT: 13.118 min Scan# 1707  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

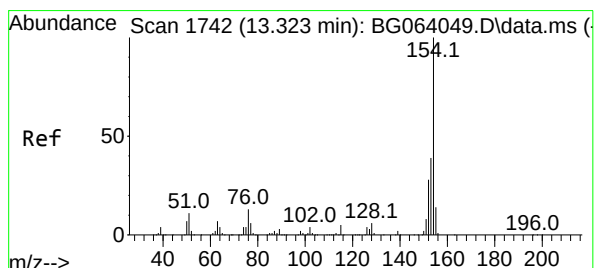
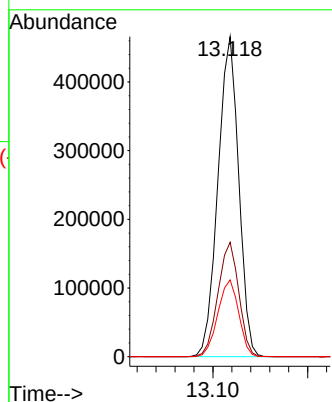
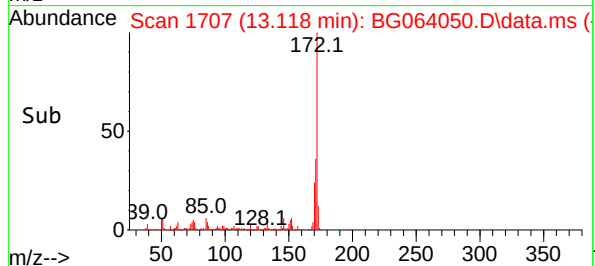
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:172 Resp: 70886  
Ion Ratio Lower Upper  
172 100  
171 35.7 28.0 42.0  
170 24.0 18.7 28.1

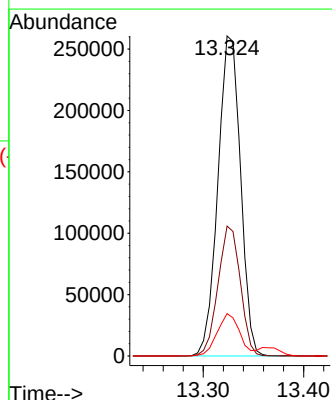
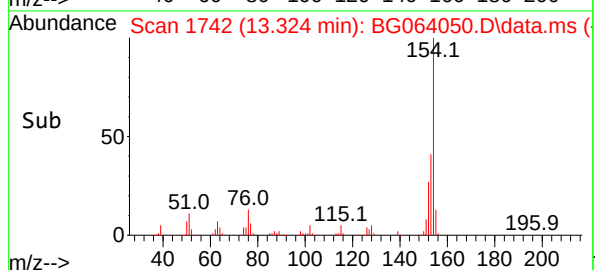
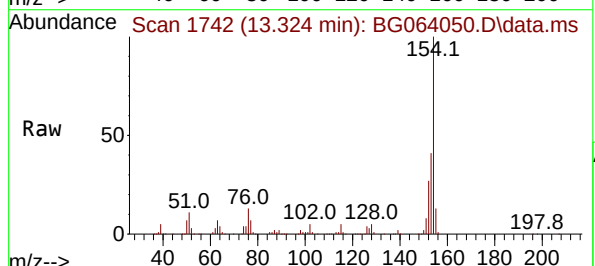
Manual Integrations  
APPROVED

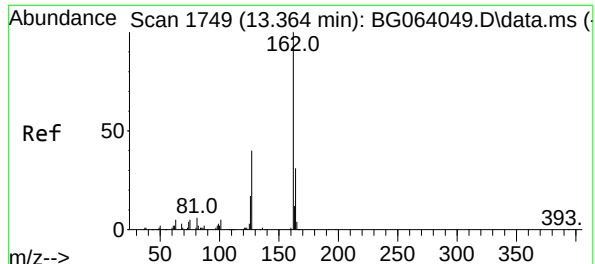
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#46  
1,1'-Biphenyl  
Concen: 48.802 ng  
RT: 13.324 min Scan# 1742  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

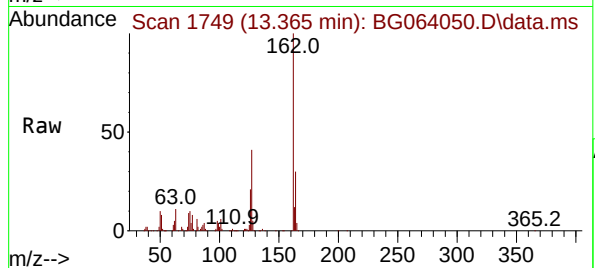
Tgt Ion:154 Resp: 407499  
Ion Ratio Lower Upper  
154 100  
153 40.6 19.5 59.5  
76 13.2 0.0 33.5





#47  
2-Chloronaphthalene  
Concen: 49.991 ng  
RT: 13.365 min Scan# 1749  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

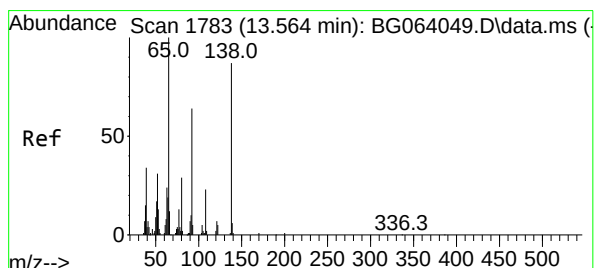
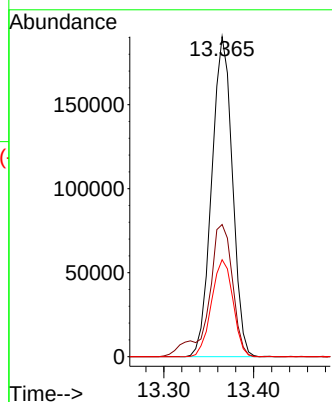
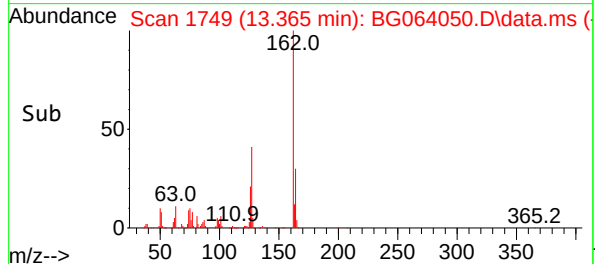
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:162 Resp: 30444  
Ion Ratio Lower Upper  
162 100  
127 41.3 35.0 52.4  
164 30.3 25.0 37.6

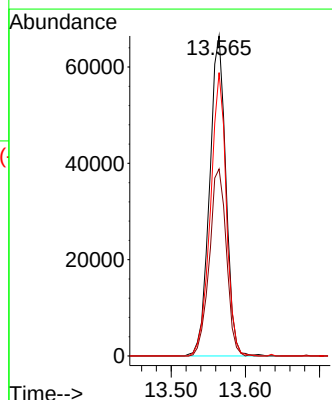
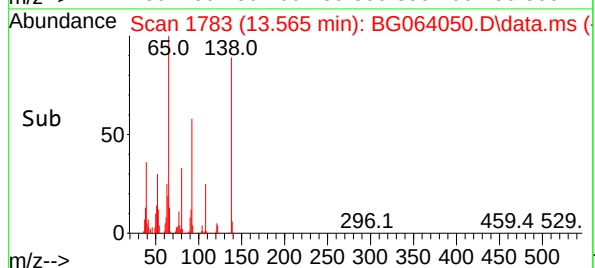
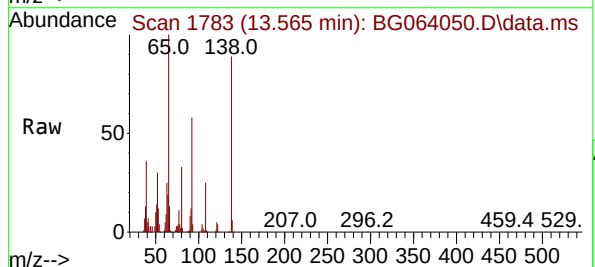
Manual Integrations  
APPROVED

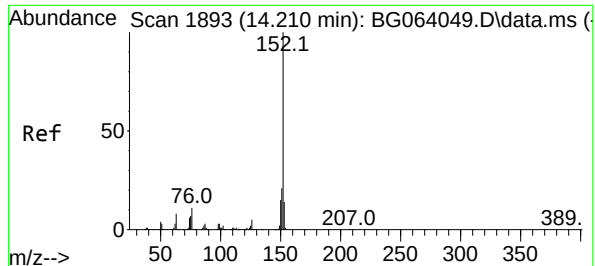
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#48  
2-Nitroaniline  
Concen: 49.852 ng  
RT: 13.565 min Scan# 1783  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

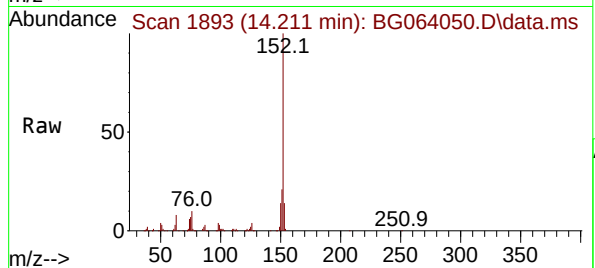
Tgt Ion: 65 Resp: 101610  
Ion Ratio Lower Upper  
65 100  
92 58.4 51.2 76.8  
138 88.5 69.4 104.2





#49  
Acenaphthylene  
Concen: 49.779 ng  
RT: 14.211 min Scan# 1893  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

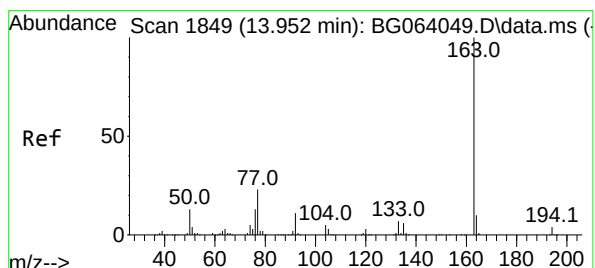
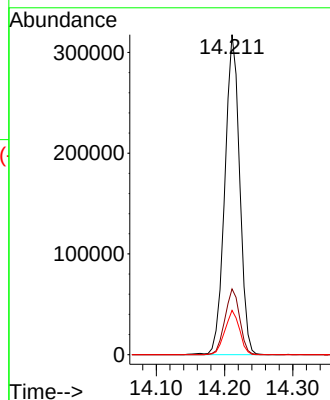
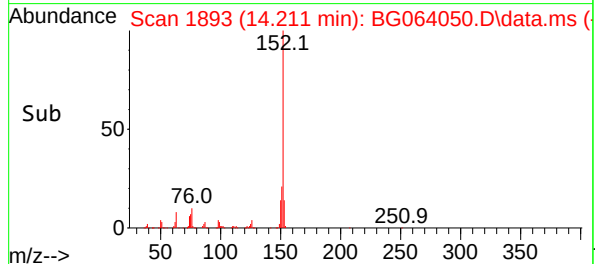
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



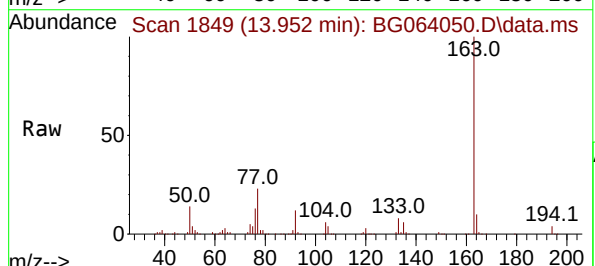
Tgt Ion:152 Resp: 479498  
Ion Ratio Lower Upper  
152 100  
151 20.6 16.4 24.6  
153 13.8 10.9 16.3

Manual Integrations  
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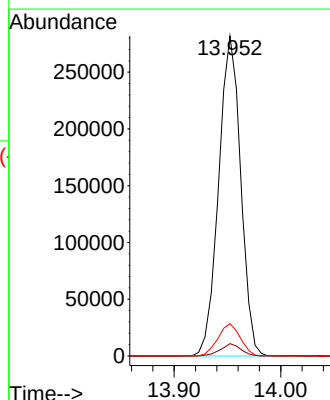
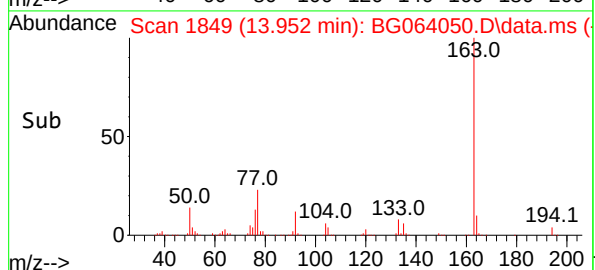
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

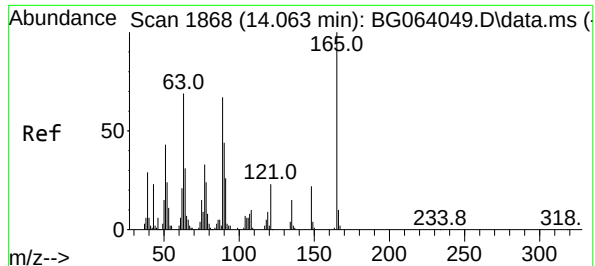


#50  
Dimethylphthalate  
Concen: 49.555 ng  
RT: 13.952 min Scan# 1849  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23



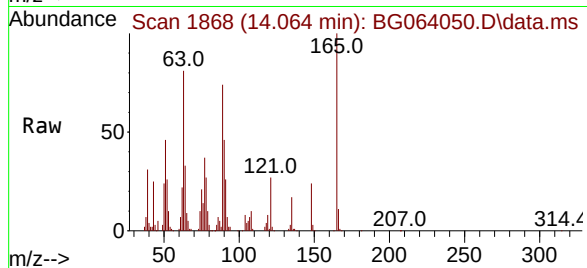
Tgt Ion:163 Resp: 404288  
Ion Ratio Lower Upper  
163 100  
194 3.8 2.8 4.2  
164 10.1 8.2 12.2





#51  
2,6-Dinitrotoluene  
Concen: 49.957 ng  
RT: 14.064 min Scan# 1868  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

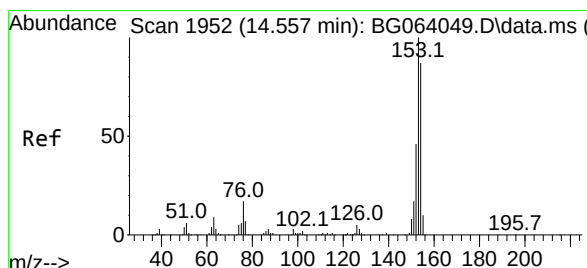
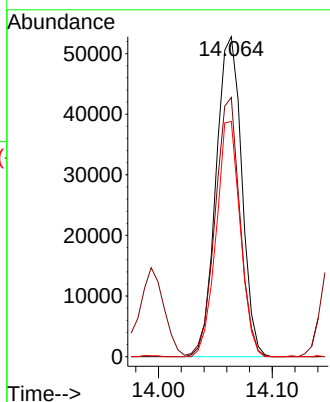
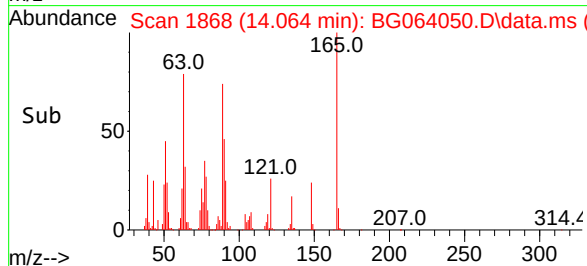
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



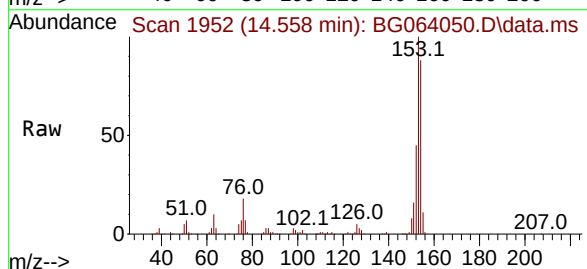
Tgt Ion:165 Resp: 82929  
Ion Ratio Lower Upper  
165 100  
63 81.0 56.7 85.1  
89 73.5 53.7 80.5

Manual Integrations  
APPROVED

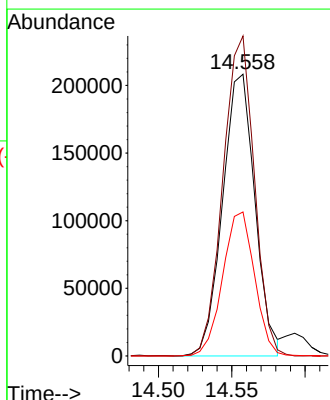
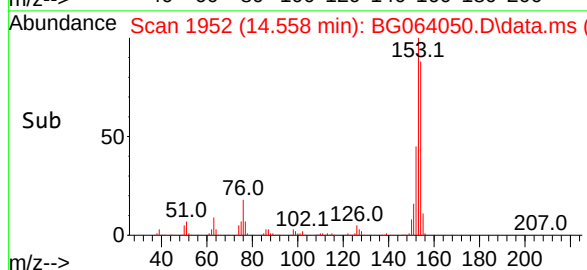
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

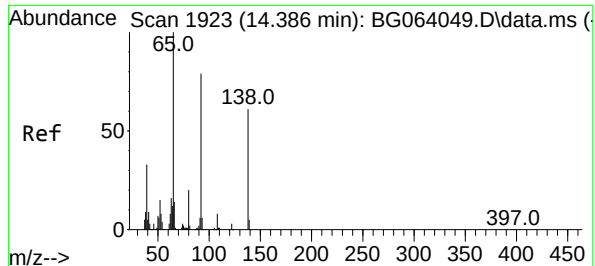


#52  
Acenaphthene  
Concen: 49.442 ng m  
RT: 14.558 min Scan# 1952  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23



Tgt Ion:154 Resp: 320276  
Ion Ratio Lower Upper  
154 100  
153 113.5 91.6 137.4  
152 51.1 42.5 63.7





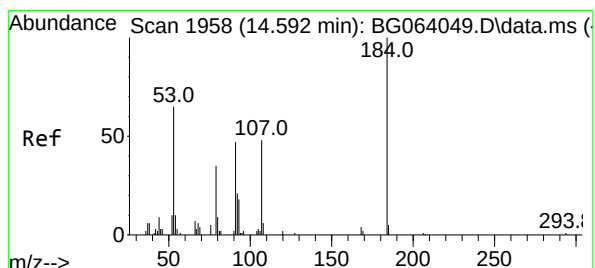
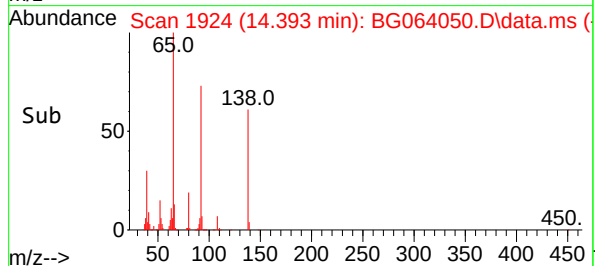
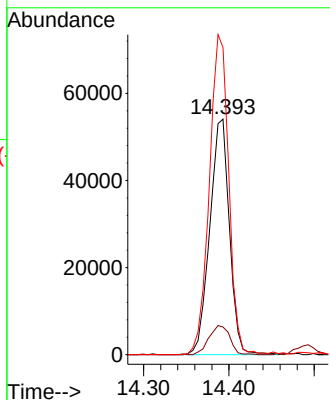
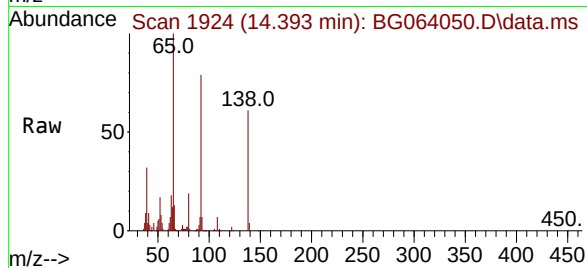
#53  
3-Nitroaniline  
Concen: 54.830 ng  
RT: 14.393 min Scan# 1924  
Delta R.T. 0.007 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050

Tgt Ion:138 Resp: 86450  
Ion Ratio Lower Upper  
138 100  
108 11.7 10.1 15.1  
92 130.4 104.1 156.1

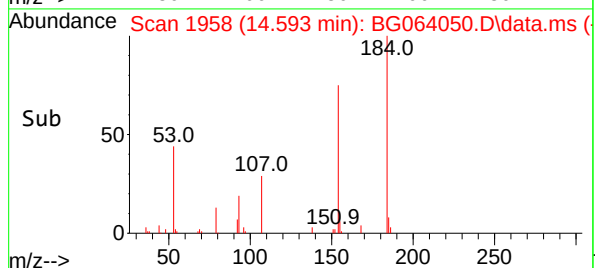
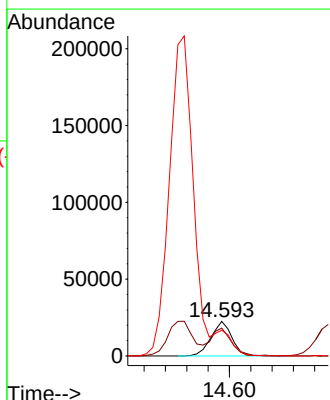
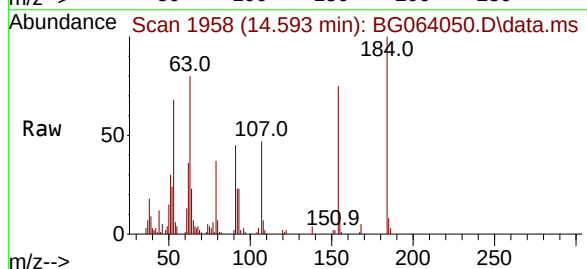
Manual Integrations  
APPROVED

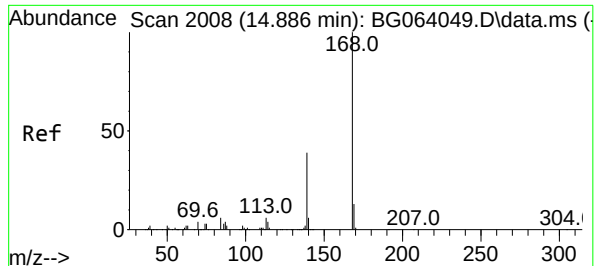
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#54  
2,4-Dinitrophenol  
Concen: 48.003 ng  
RT: 14.593 min Scan# 1958  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

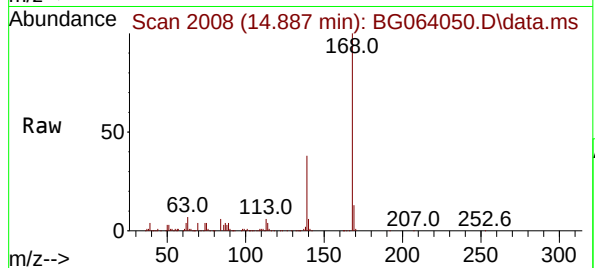
Tgt Ion:184 Resp: 30713  
Ion Ratio Lower Upper  
184 100  
63 80.4 57.5 86.3  
154 74.7 52.3 78.5





#55  
Dibenzofuran  
Concen: 48.883 ng  
RT: 14.887 min Scan# 2008  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

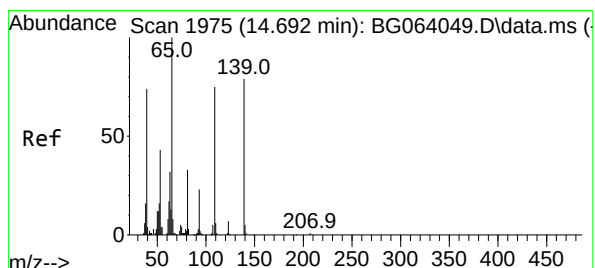
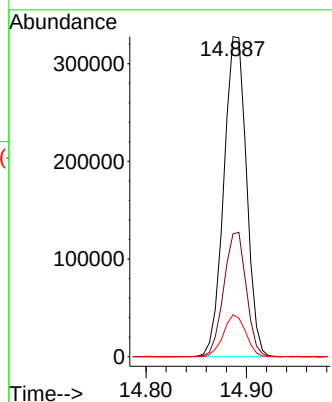
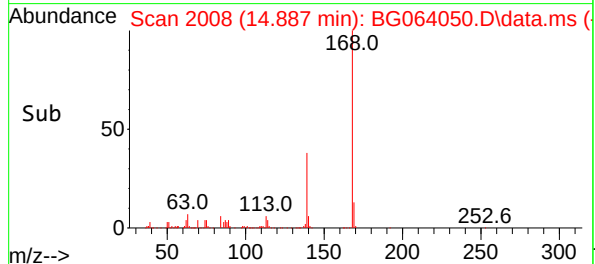
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:168 Resp: 51192  
Ion Ratio Lower Upper  
168 100  
139 38.4 31.1 46.7  
169 13.1 10.5 15.7

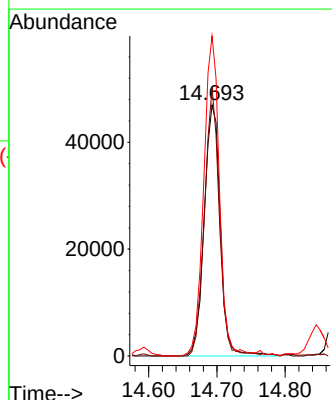
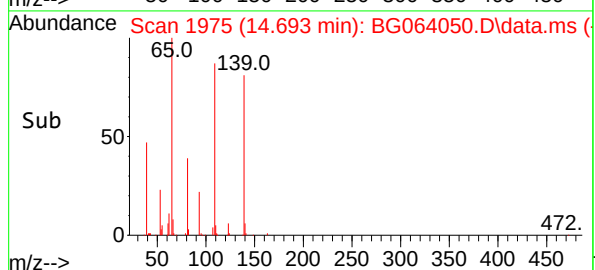
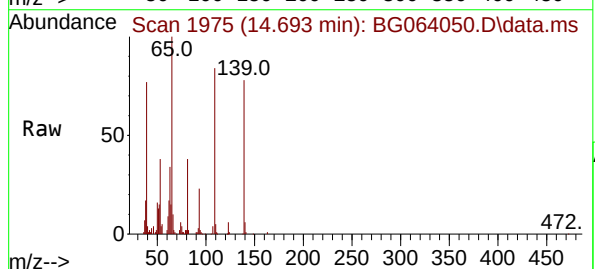
Manual Integrations  
APPROVED

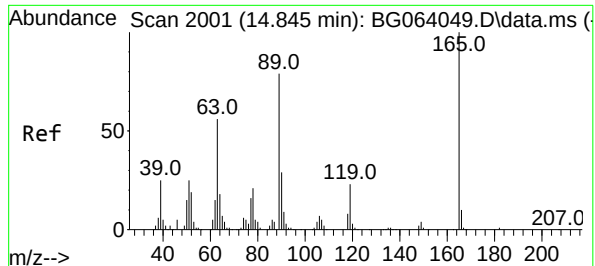
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#56  
4-Nitrophenol  
Concen: 58.485 ng  
RT: 14.693 min Scan# 1975  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

Tgt Ion:139 Resp: 77342  
Ion Ratio Lower Upper  
139 100  
109 106.8 74.9 114.9  
65 127.5 106.8 146.8





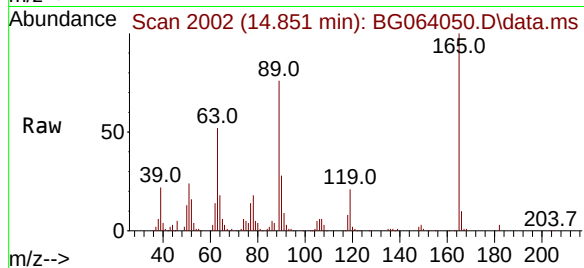
#57  
2,4-Dinitrotoluene  
Concen: 50.361 ng  
RT: 14.851 min Scan# 2001  
Delta R.T. 0.006 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

Instrument :

BNA\_G

ClientSampleId :

SSTDICC050

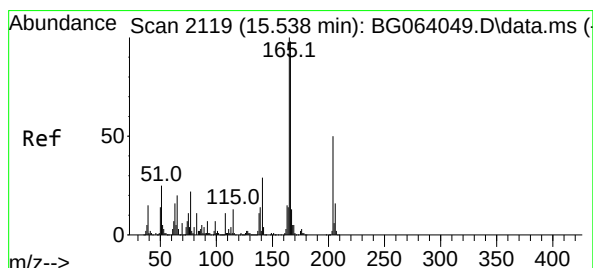
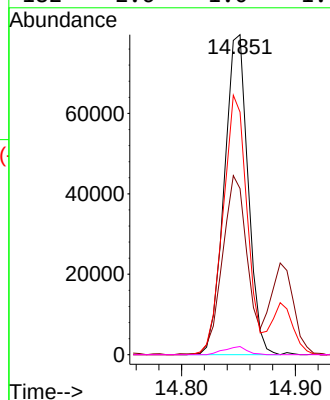
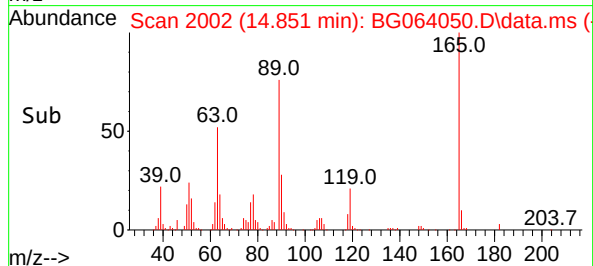


Tgt Ion:165 Resp: 11545  
Ion Ratio Lower Upper  
165 100  
63 51.9 45.0 67.6  
89 75.8 63.1 94.7  
182 2.6 1.0 1.4#

Manual Integrations

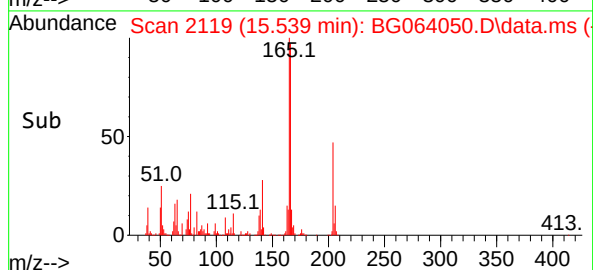
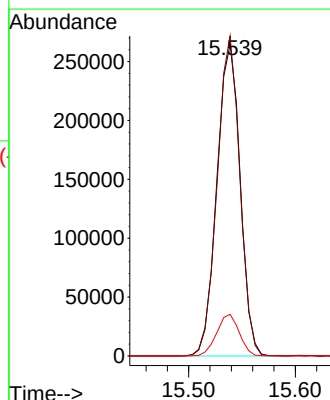
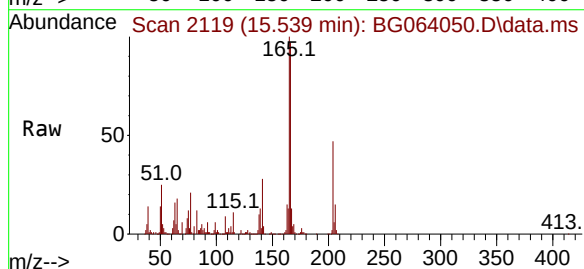
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

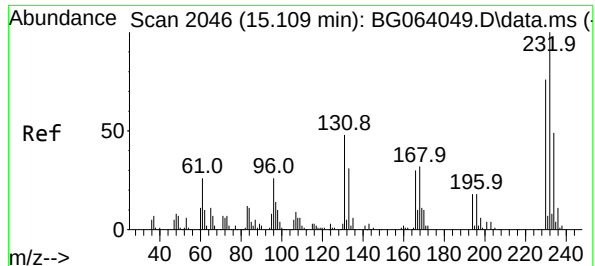


#58  
Fluorene  
Concen: 49.182 ng  
RT: 15.539 min Scan# 2119  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

Tgt Ion:166 Resp: 401156  
Ion Ratio Lower Upper  
166 100  
165 102.7 81.8 122.8  
167 13.4 10.8 16.2

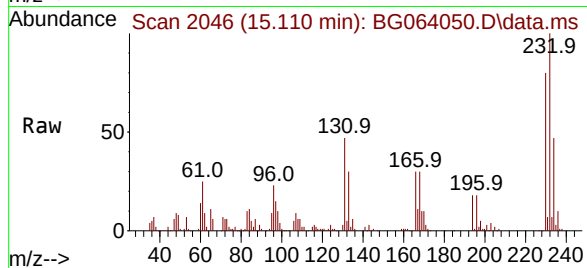






#59  
2,3,4,6-Tetrachlorophenol  
Concen: 52.772 ng  
RT: 15.110 min Scan# 2046  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

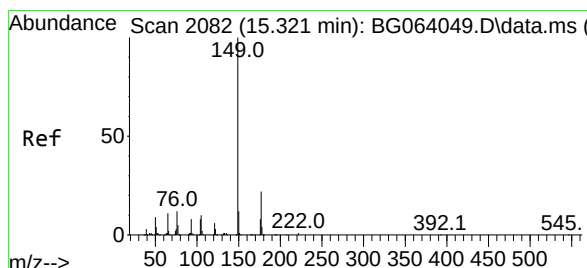
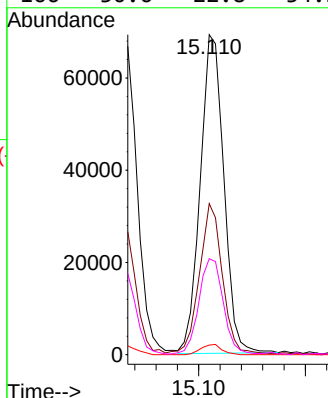
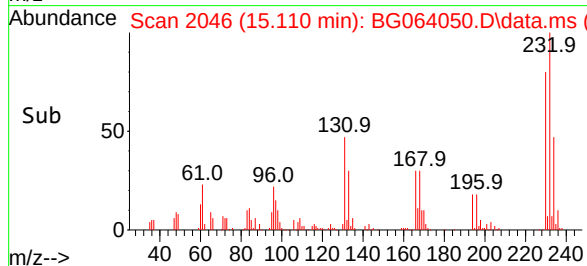
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



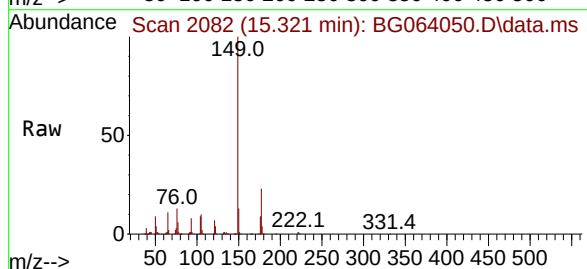
Tgt Ion:232 Resp: 106300  
Ion Ratio Lower Upper  
232 100  
131 45.8 36.3 54.5  
130 2.9 1.9 2.9  
166 30.6 22.8 34.2

Manual Integrations  
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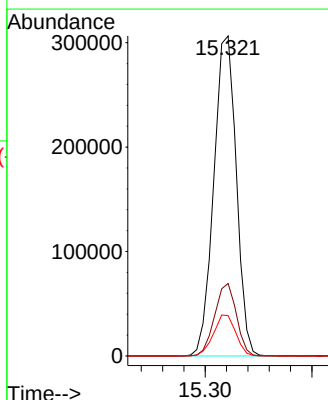
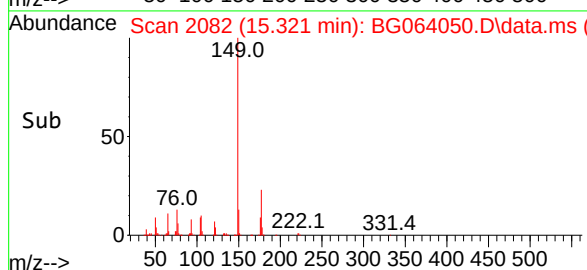
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

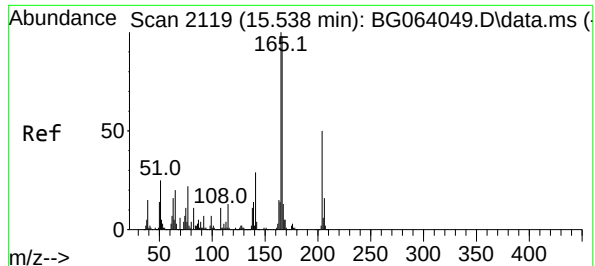


#60  
Diethylphthalate  
Concen: 50.673 ng  
RT: 15.321 min Scan# 2082  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23



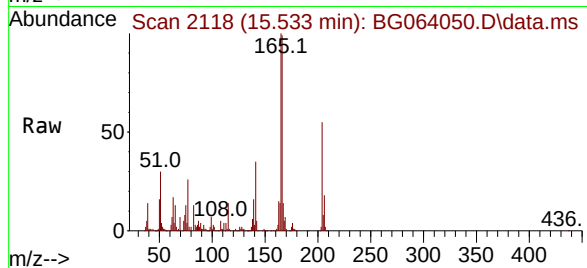
Tgt Ion:149 Resp: 448796  
Ion Ratio Lower Upper  
149 100  
177 22.6 17.4 26.2  
150 12.6 9.4 14.2





#61  
4-Chlorophenyl-phenylether  
Concen: 48.525 ng  
RT: 15.533 min Scan# 2118  
Delta R.T. -0.005 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

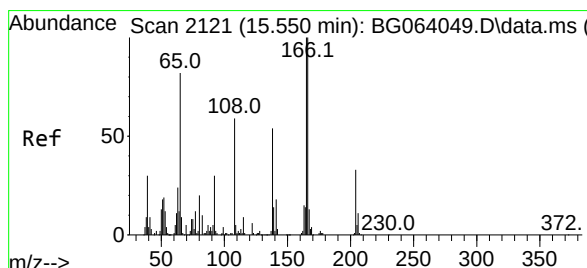
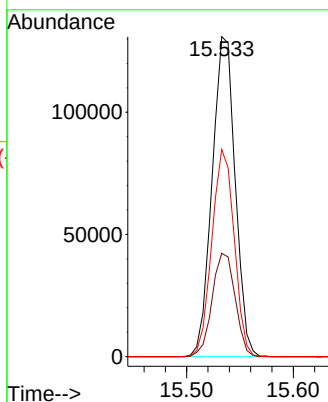
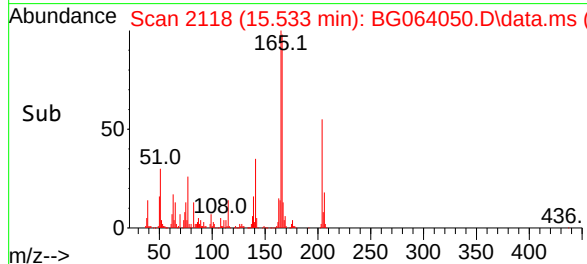
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:204 Resp: 19668  
Ion Ratio Lower Upper  
204 100  
206 32.3 25.5 38.3  
141 64.7 45.4 68.0

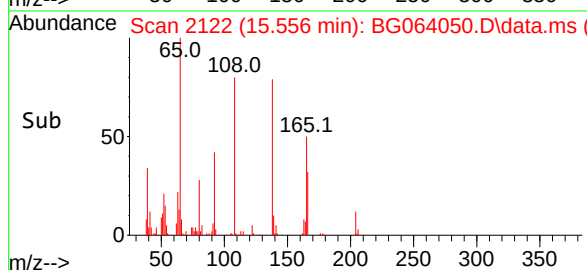
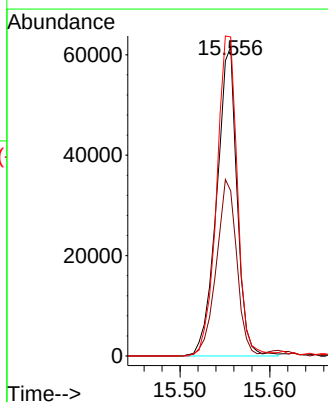
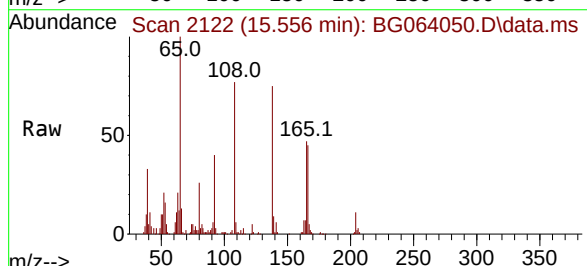
Manual Integrations  
APPROVED

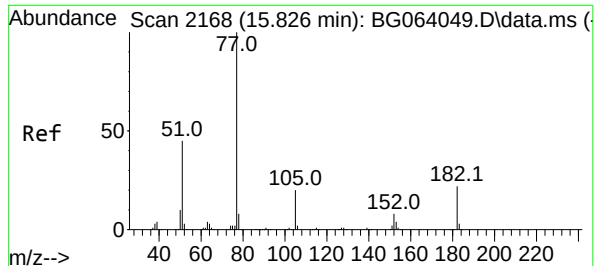
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#62  
4-Nitroaniline  
Concen: 56.899 ng  
RT: 15.556 min Scan# 2122  
Delta R.T. 0.007 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

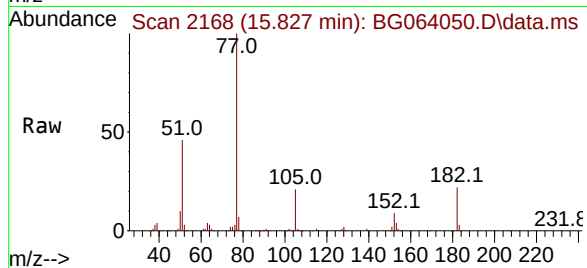
Tgt Ion:138 Resp: 96864  
Ion Ratio Lower Upper  
138 100  
92 53.5 36.1 76.1  
108 103.2 87.9 127.9





#63  
Azobenzene  
Concen: 49.712 ng  
RT: 15.827 min Scan# 2168  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

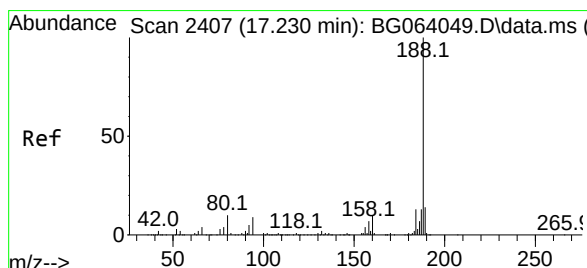
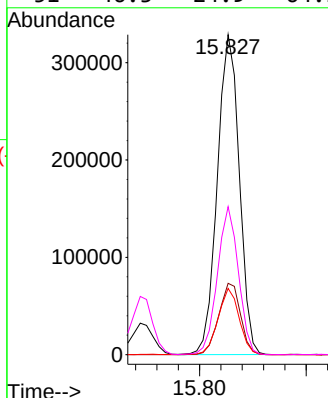
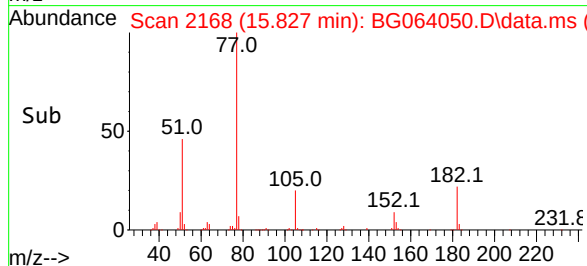
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



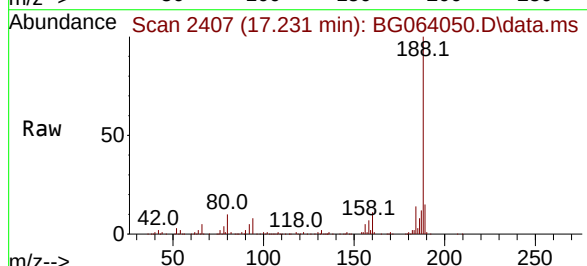
Tgt Ion: 77 Resp: 46983  
Ion Ratio Lower Upper  
77 100  
182 22.3 2.4 42.4  
105 20.7 0.0 40.0  
51 46.3 24.9 64.9

Manual Integrations  
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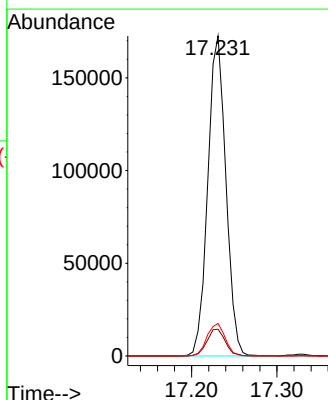
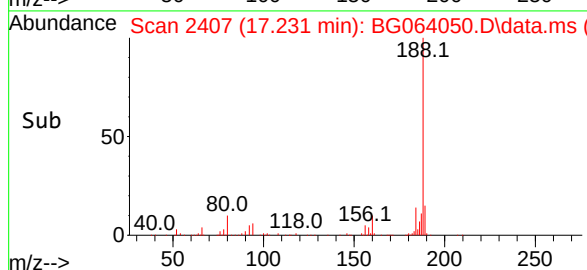
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

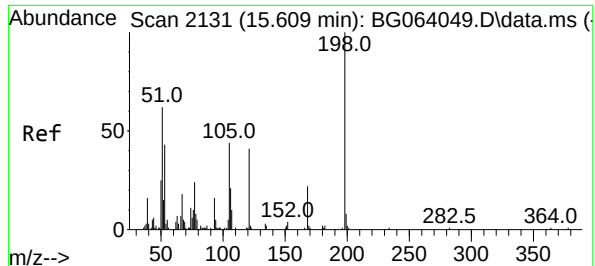


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.231 min Scan# 2407  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23



Tgt Ion:188 Resp: 254221  
Ion Ratio Lower Upper  
188 100  
94 8.4 6.9 10.3  
80 10.1 8.1 12.1





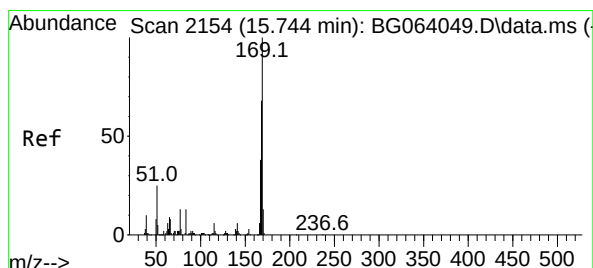
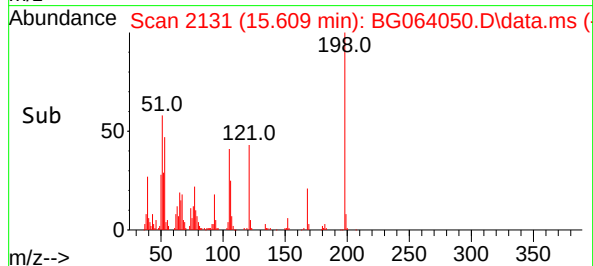
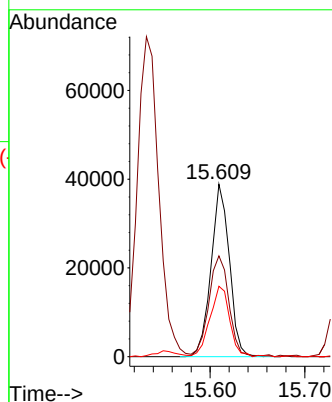
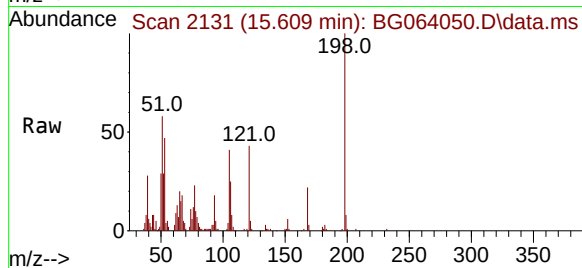
#65  
4,6-Dinitro-2-methylphenol  
Concen: 47.566 ng  
RT: 15.609 min Scan# 2131  
Delta R.T. 0.000 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050

Tgt Ion:198 Resp: 5214  
Ion Ratio Lower Upper  
198 100  
51 58.5 45.6 85.6  
105 40.9 25.3 65.3

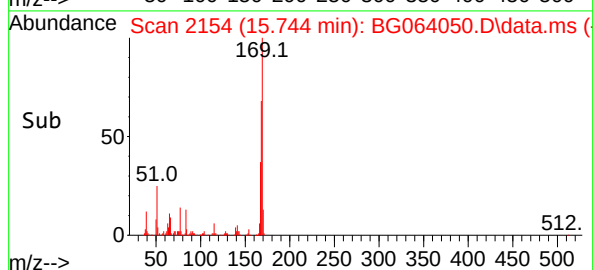
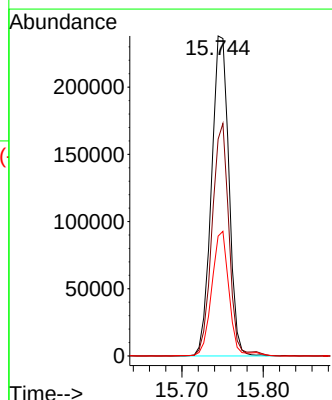
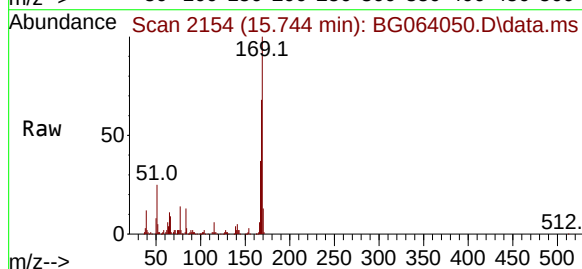
Manual Integrations  
APPROVED

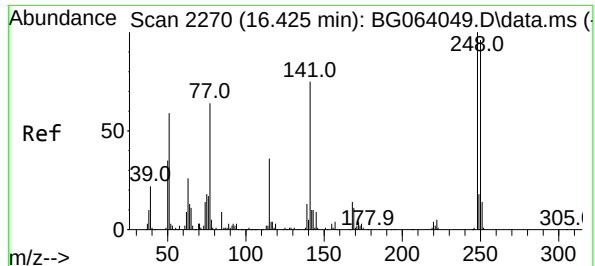
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#66  
n-Nitrosodiphenylamine  
Concen: 49.240 ng  
RT: 15.744 min Scan# 2154  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

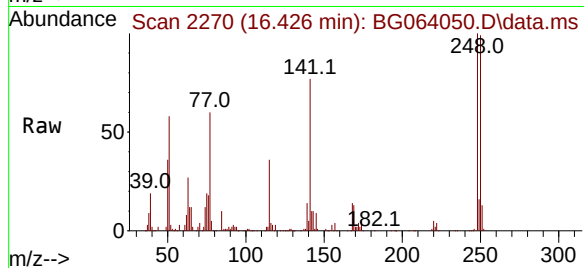
Tgt Ion:169 Resp: 354329  
Ion Ratio Lower Upper  
169 100  
168 67.8 54.1 81.1  
167 37.4 30.3 45.5





#67  
4-Bromophenyl-phenylether  
Concen: 48.903 ng  
RT: 16.426 min Scan# 21  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

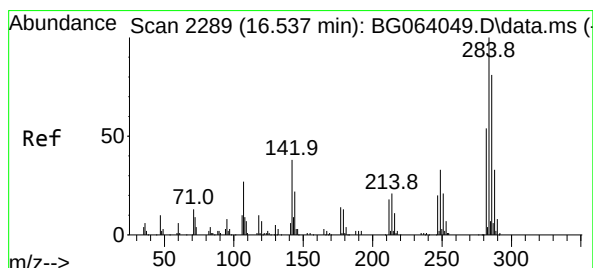
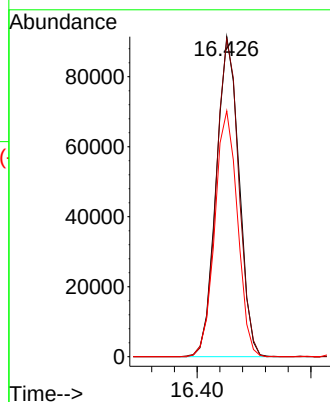
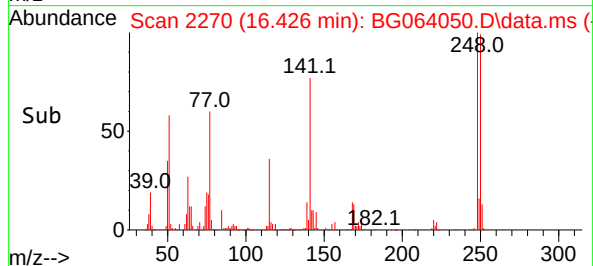
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:248 Resp: 127329  
Ion Ratio Lower Upper  
248 100  
250 99.3 77.1 115.7  
141 76.8 59.8 89.8

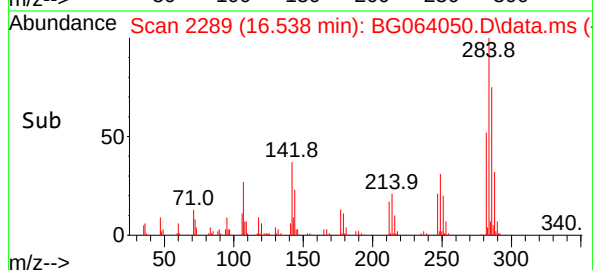
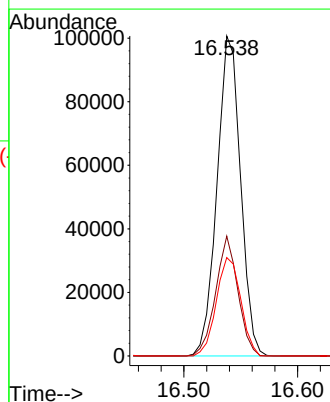
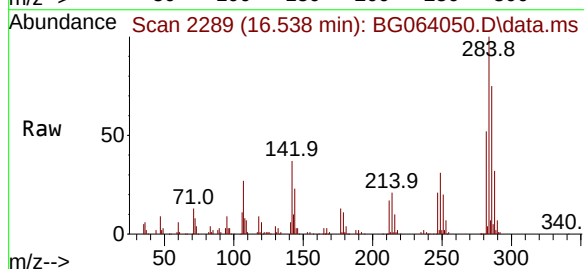
Manual Integrations  
APPROVED

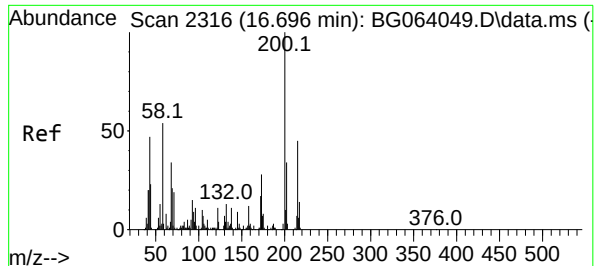
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#68  
Hexachlorobenzene  
Concen: 49.646 ng  
RT: 16.538 min Scan# 2289  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

Tgt Ion:284 Resp: 144717  
Ion Ratio Lower Upper  
284 100  
142 37.4 30.6 45.8  
249 30.7 26.6 39.8





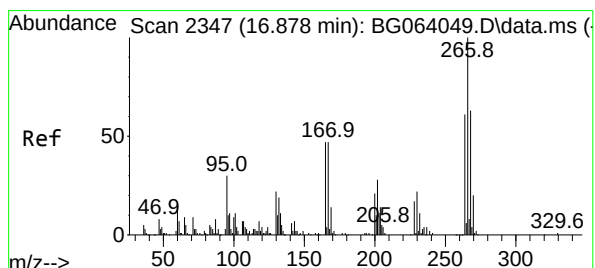
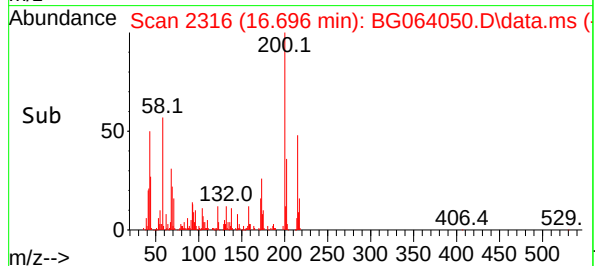
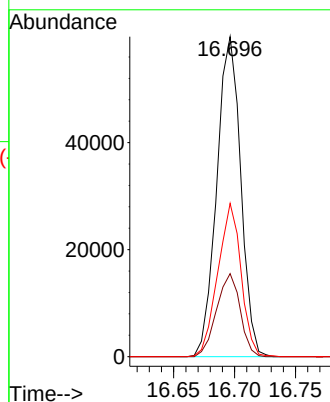
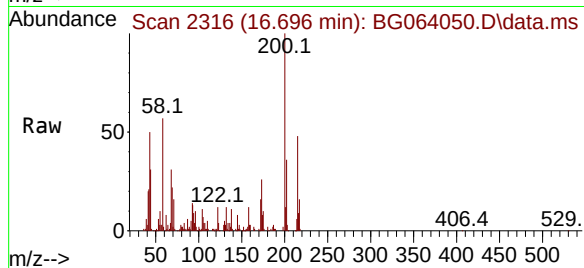
#69  
Atrazine  
Concen: 38.632 ng  
RT: 16.696 min Scan# 2316  
Delta R.T. 0.000 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050

Tgt Ion:200 Resp: 81790  
Ion Ratio Lower Upper  
200 100  
173 26.0 8.2 48.2  
215 47.9 25.5 65.5

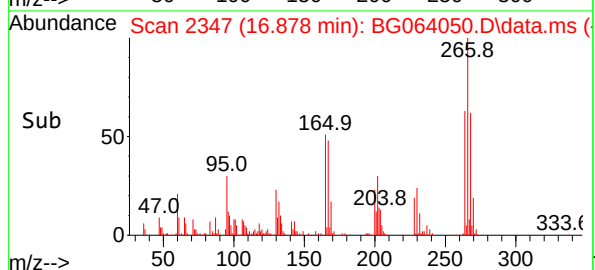
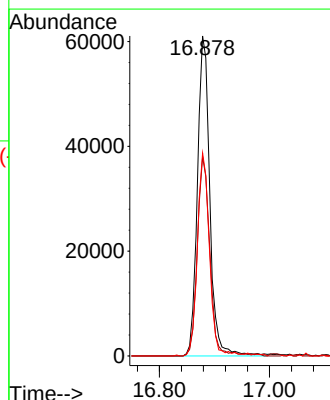
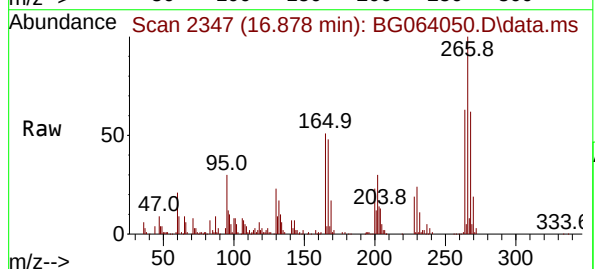
Manual Integrations  
APPROVED

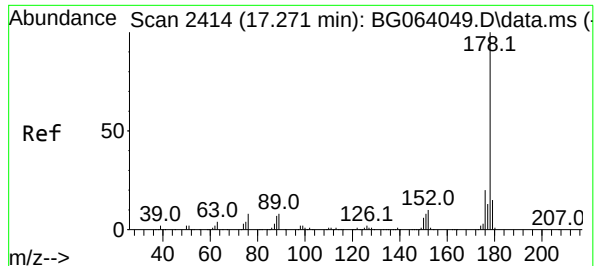
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#70  
Pentachlorophenol  
Concen: 52.943 ng  
RT: 16.878 min Scan# 2347  
Delta R.T. 0.000 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

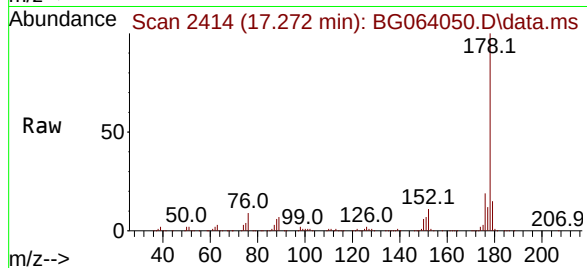
Tgt Ion:266 Resp: 95820  
Ion Ratio Lower Upper  
266 100  
268 62.2 50.2 75.4  
264 63.5 48.9 73.3





#71  
Phenanthrene  
Concen: 49.395 ng  
RT: 17.272 min Scan# 2414  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

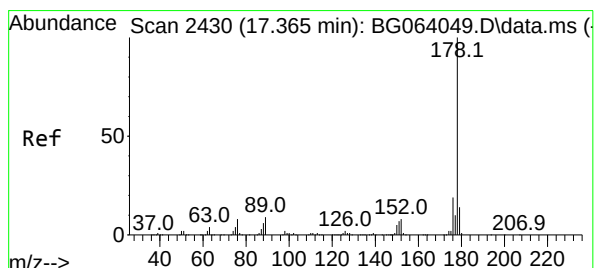
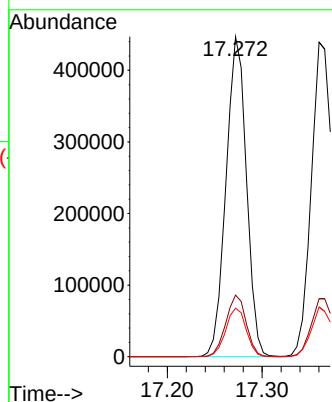
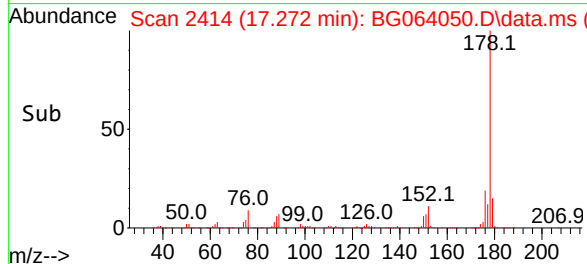
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:178 Resp: 669770  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.9 23.9  
179 15.1 12.2 18.2

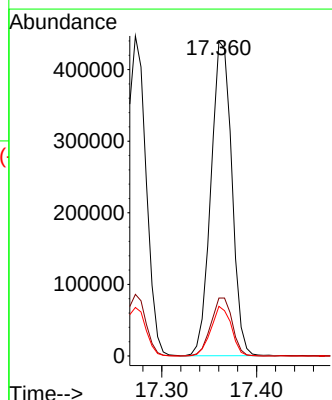
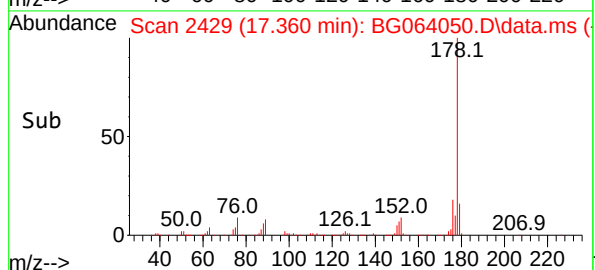
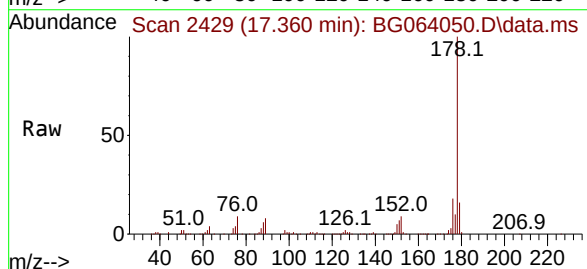
Manual Integrations  
APPROVED

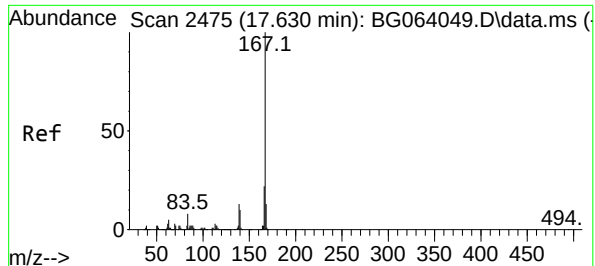
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#72  
Anthracene  
Concen: 49.714 ng  
RT: 17.360 min Scan# 2429  
Delta R.T. -0.005 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

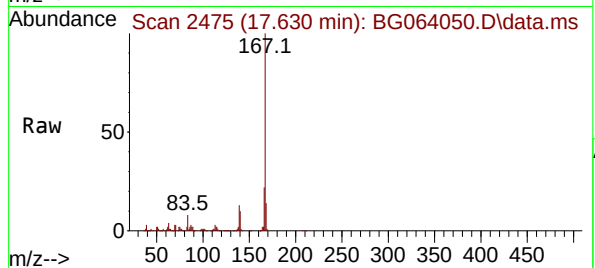
Tgt Ion:178 Resp: 670298  
Ion Ratio Lower Upper  
178 100  
176 18.4 14.8 22.2  
179 15.8 11.5 17.3





#73  
Carbazole  
Concen: 50.853 ng  
RT: 17.630 min Scan# 2475  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

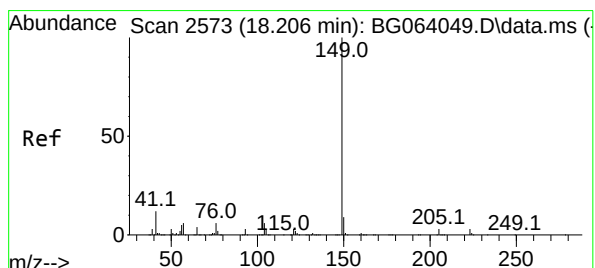
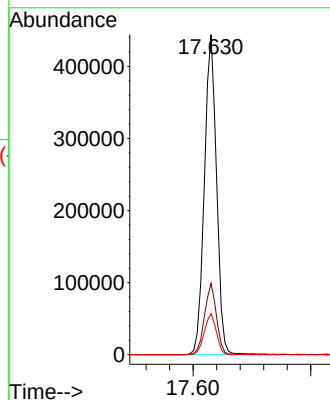
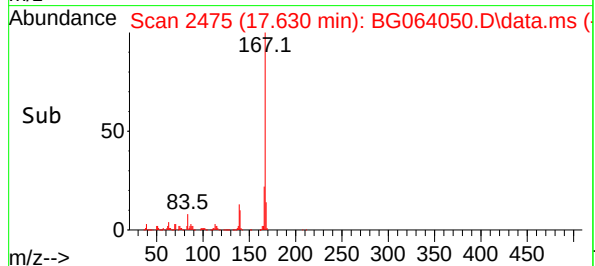
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:167 Resp: 64016  
Ion Ratio Lower Upper  
167 100  
166 22.3 18.0 27.0  
139 12.9 10.6 15.8

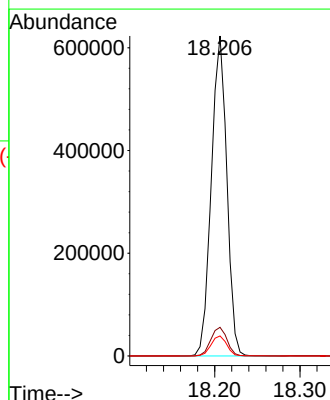
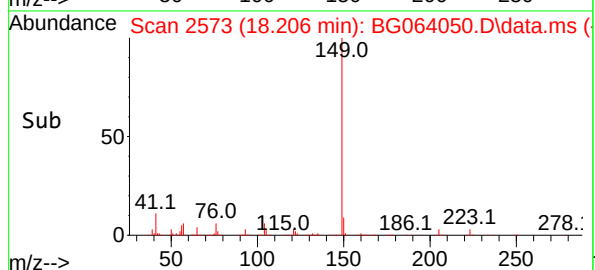
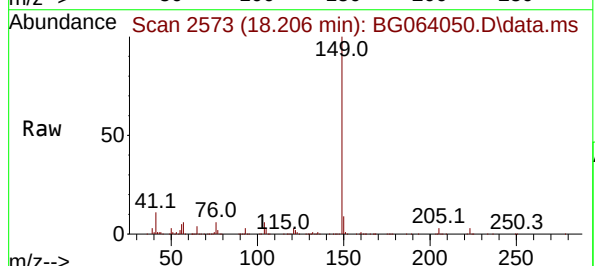
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

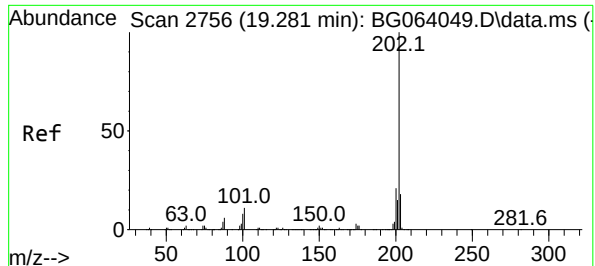


#74  
Di-n-butylphthalate  
Concen: 53.009 ng  
RT: 18.206 min Scan# 2573  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

Tgt Ion:149 Resp: 785487  
Ion Ratio Lower Upper  
149 100  
150 9.0 7.4 11.0  
104 6.3 5.0 7.6

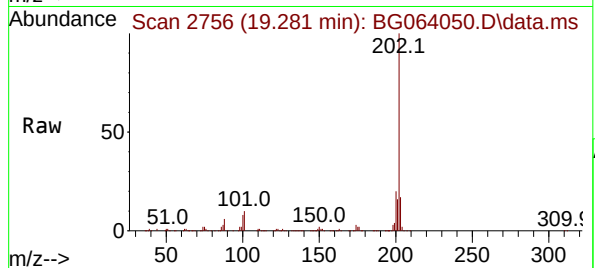






#75  
Fluoranthene  
Concen: 50.454 ng  
RT: 19.281 min Scan# 21  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

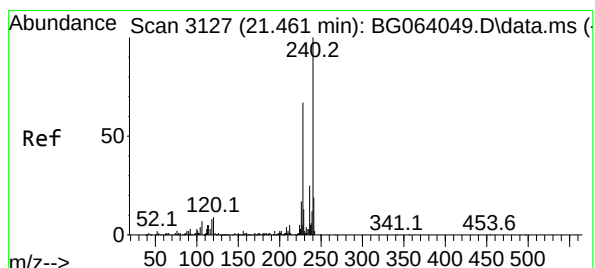
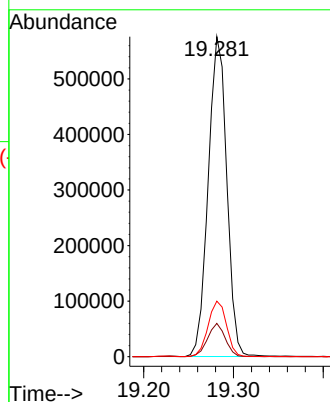
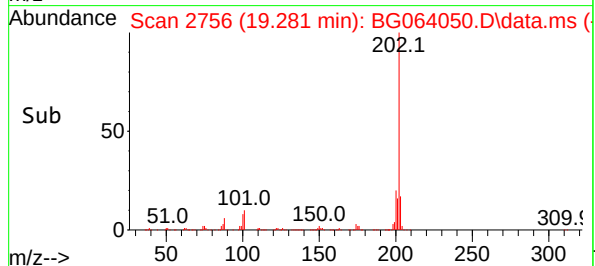
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:202 Resp: 824769  
Ion Ratio Lower Upper  
202 100  
101 10.4 0.0 30.5  
203 17.4 0.0 38.3

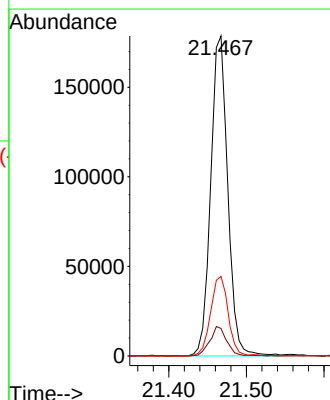
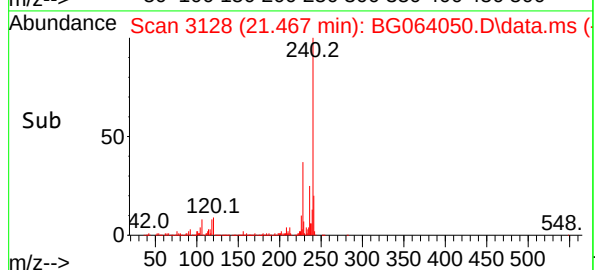
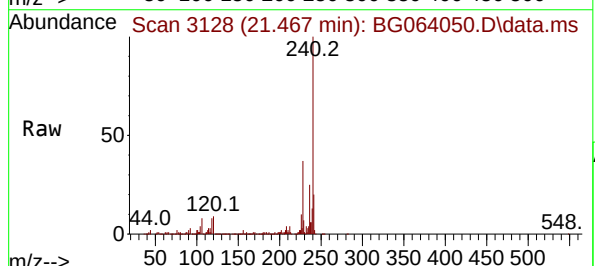
Manual Integrations  
APPROVED

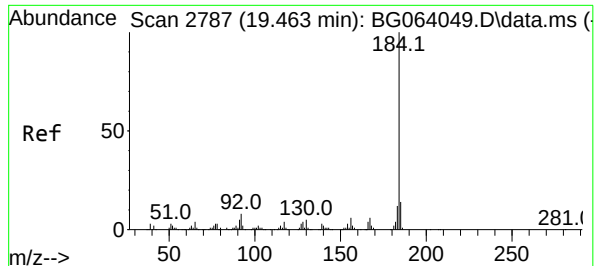
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.467 min Scan# 3128  
Delta R.T. 0.007 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

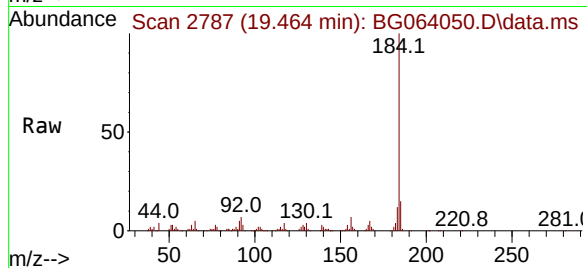
Tgt Ion:240 Resp: 272579  
Ion Ratio Lower Upper  
240 100  
120 8.6 7.2 10.8  
236 24.8 20.2 30.2





#77  
Benzidine  
Concen: 34.790 ng  
RT: 19.464 min Scan# 2787  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

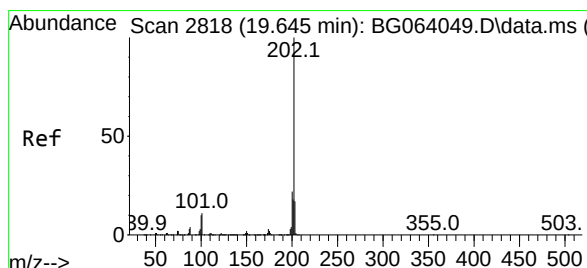
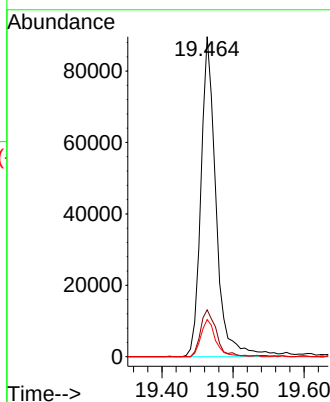
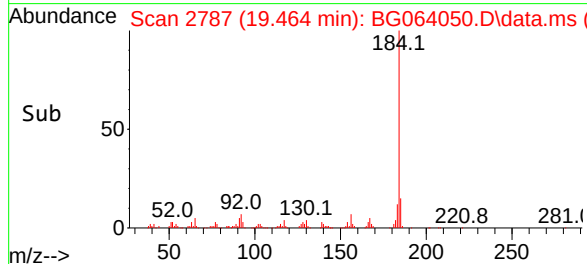
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:184 Resp: 13312  
Ion Ratio Lower Upper  
184 100  
185 14.6 11.3 16.9  
183 11.6 9.5 14.3

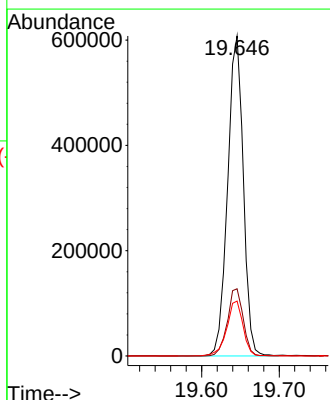
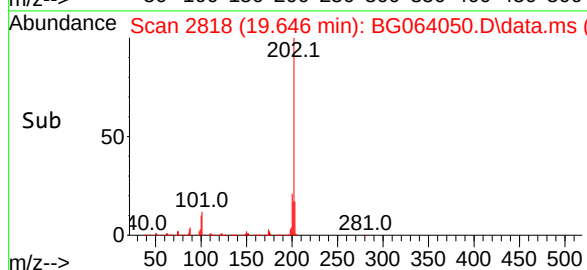
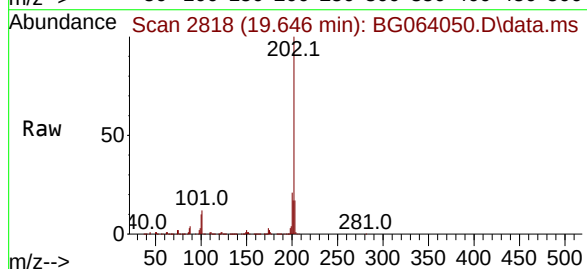
Manual Integrations  
APPROVED

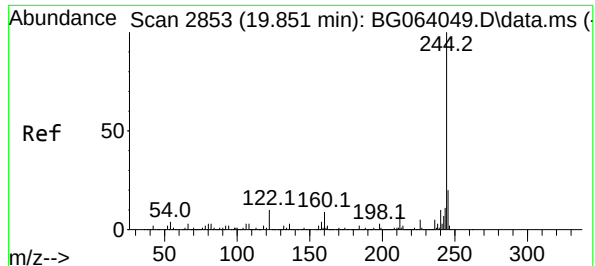
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#78  
Pyrene  
Concen: 48.636 ng  
RT: 19.646 min Scan# 2818  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

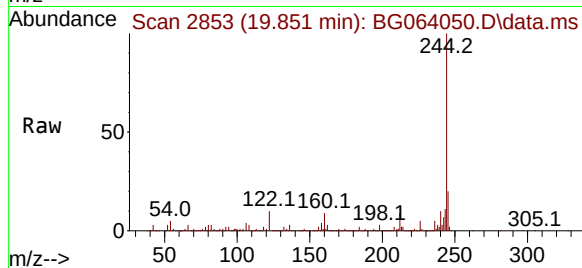
Tgt Ion:202 Resp: 854585  
Ion Ratio Lower Upper  
202 100  
200 21.0 17.3 25.9  
203 17.1 13.6 20.4





#79  
Terphenyl-d14  
Concen: 95.415 ng  
RT: 19.851 min Scan# 2853  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

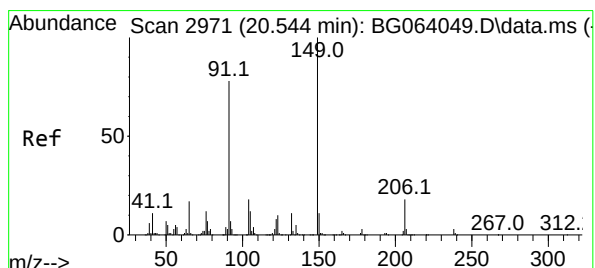
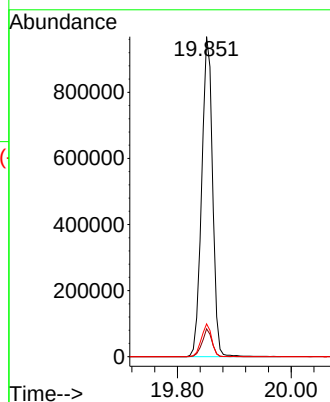
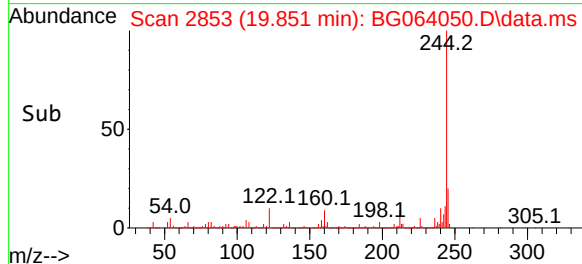
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



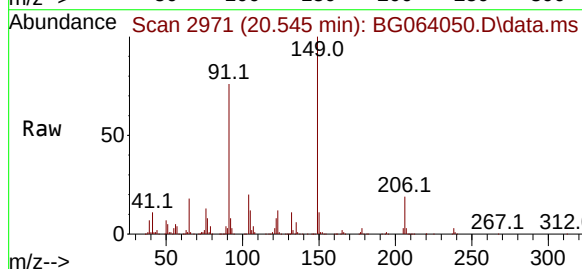
Tgt Ion:244 Resp: 128626  
Ion Ratio Lower Upper  
244 100  
212 8.7 6.2 9.4  
122 10.3 8.0 12.0

Manual Integrations  
APPROVED

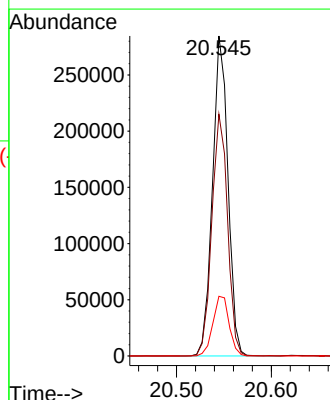
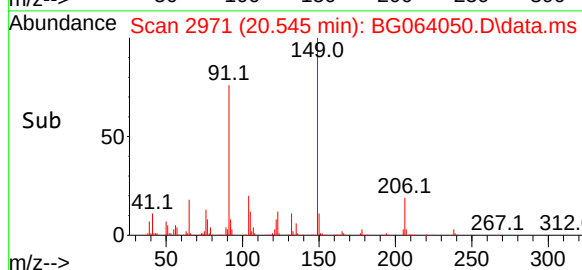
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

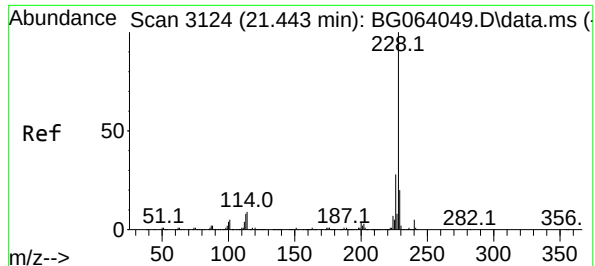


#80  
Butylbenzylphthalate  
Concen: 48.794 ng  
RT: 20.545 min Scan# 2971  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23



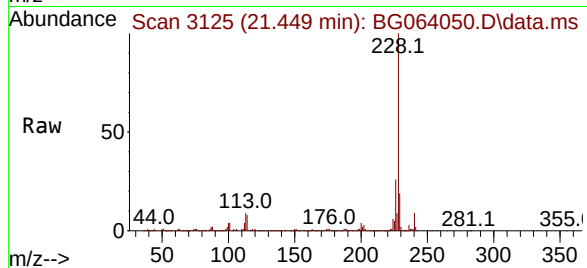
Tgt Ion:149 Resp: 322148  
Ion Ratio Lower Upper  
149 100  
91 75.5 62.0 93.0  
206 18.6 14.6 21.8





#81  
Benzo(a)anthracene  
Concen: 49.769 ng  
RT: 21.449 min Scan# 3125  
Delta R.T. 0.007 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

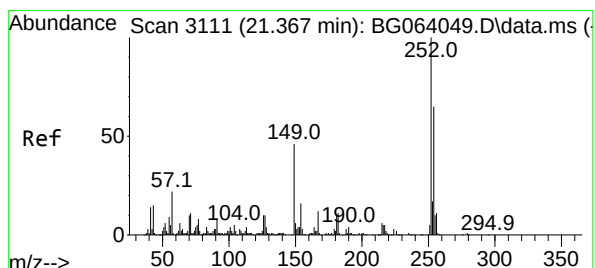
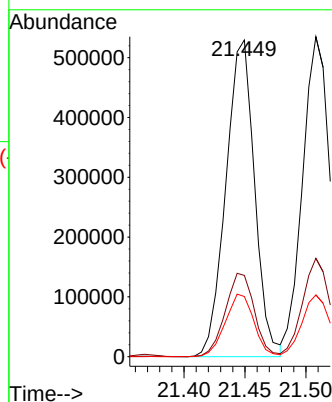
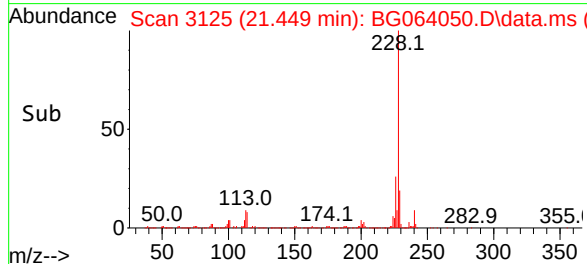
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:228 Resp: 86899  
Ion Ratio Lower Upper  
228 100  
226 25.7 22.2 33.2  
229 19.0 16.4 24.6

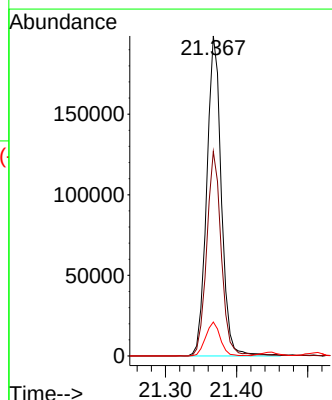
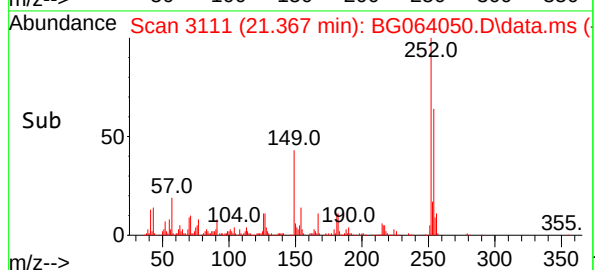
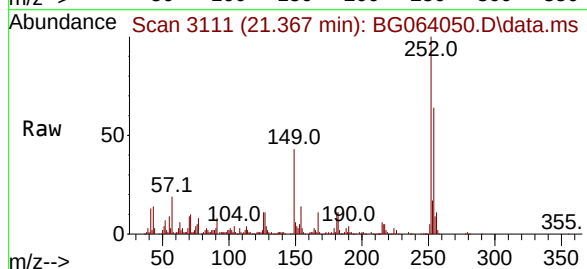
Manual Integrations  
APPROVED

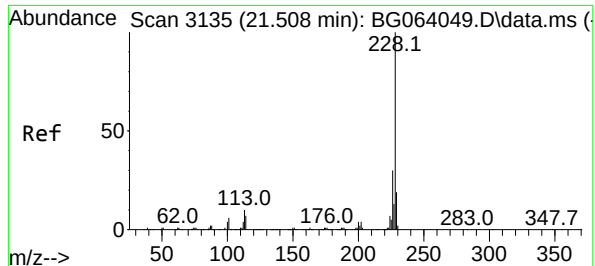
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#82  
3,3'-Dichlorobenzidine  
Concen: 50.177 ng  
RT: 21.367 min Scan# 3111  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

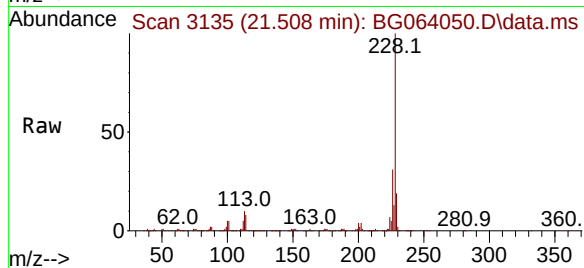
Tgt Ion:252 Resp: 283543  
Ion Ratio Lower Upper  
252 100  
254 63.9 52.1 78.1  
126 10.6 7.8 11.8





#83  
Chrysene  
Concen: 49.437 ng  
RT: 21.508 min Scan# 3135  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

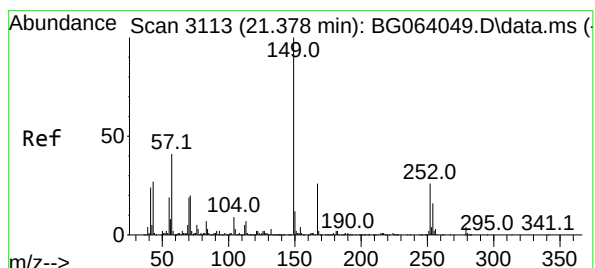
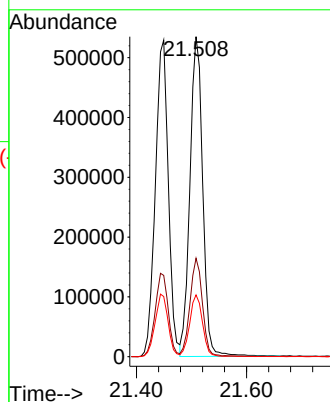
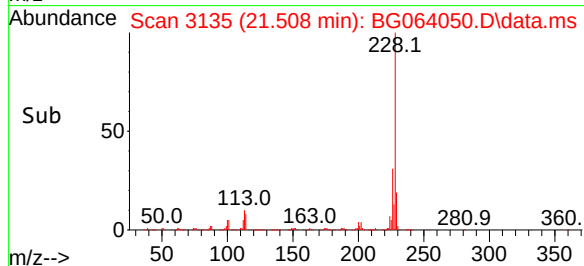
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:228 Resp: 860924  
Ion Ratio Lower Upper  
228 100  
226 30.7 23.9 35.9  
229 19.3 15.3 22.9

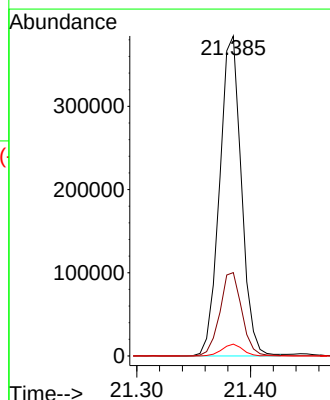
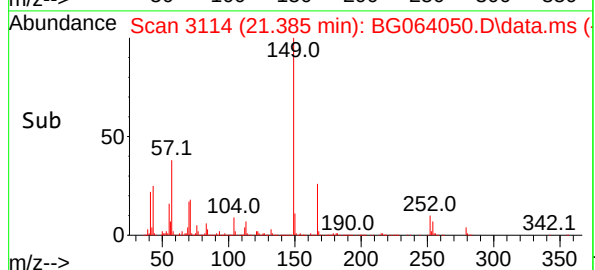
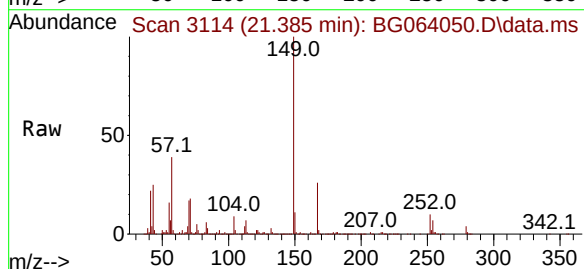
Manual Integrations  
APPROVED

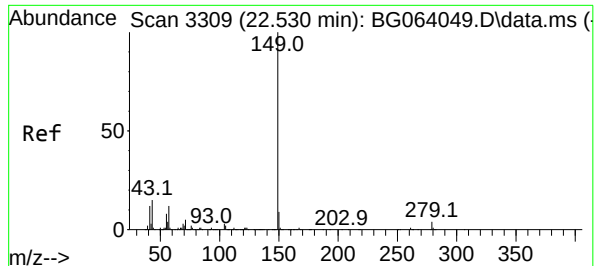
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 54.210 ng  
RT: 21.385 min Scan# 3114  
Delta R.T. 0.007 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

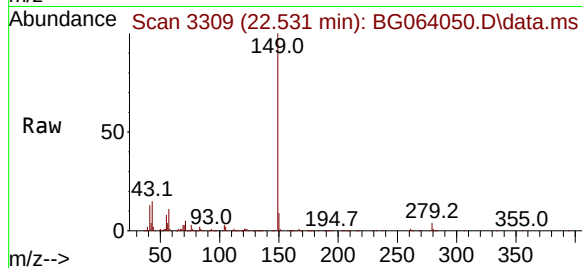
Tgt Ion:149 Resp: 511903  
Ion Ratio Lower Upper  
149 100  
167 26.1 21.0 31.6  
279 3.7 2.8 4.2





#85  
Di-n-octyl phthalate  
Concen: 52.538 ng  
RT: 22.531 min Scan# 31  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

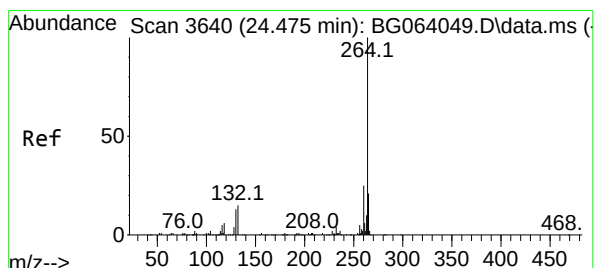
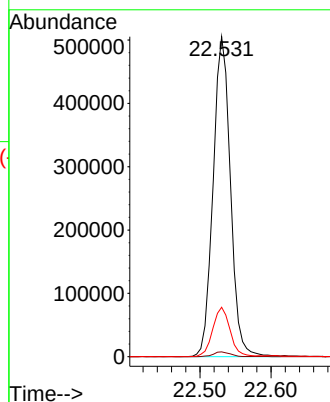
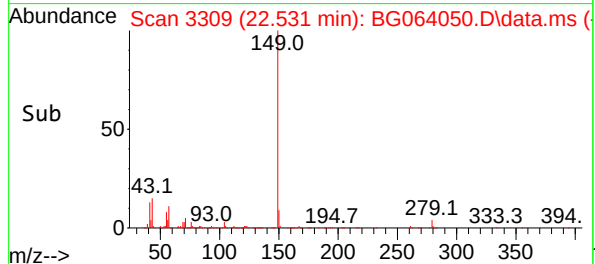
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:149 Resp: 85572  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.2 1.8  
43 15.6 12.6 19.0

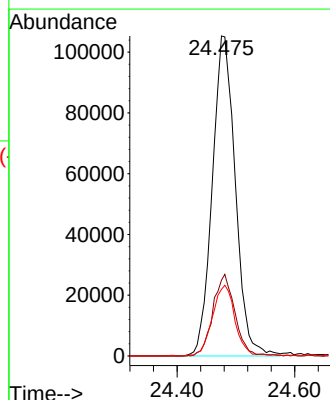
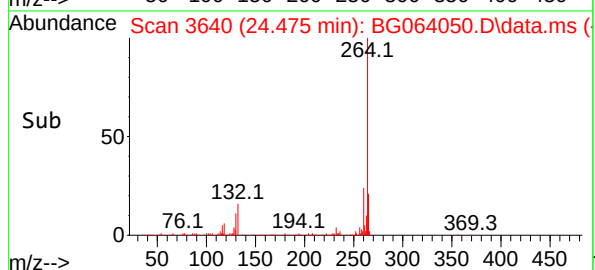
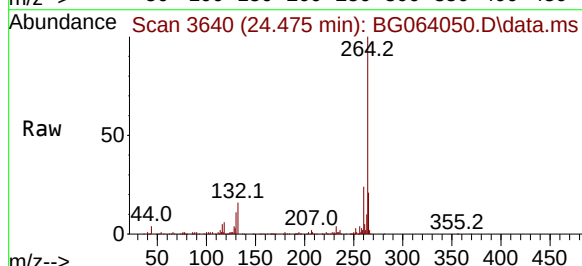
Manual Integrations  
APPROVED

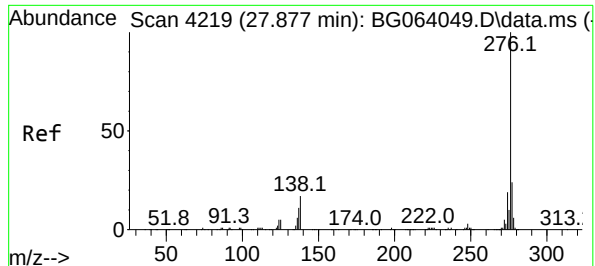
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.475 min Scan# 3640  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

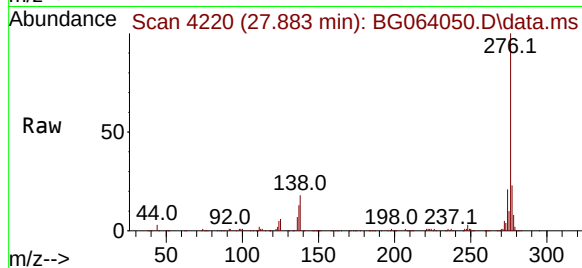
Tgt Ion:264 Resp: 286555  
Ion Ratio Lower Upper  
264 100  
260 23.7 19.6 29.4  
265 20.8 16.6 25.0





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 50.610 ng  
RT: 27.883 min Scan# 4219  
Delta R.T. 0.007 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

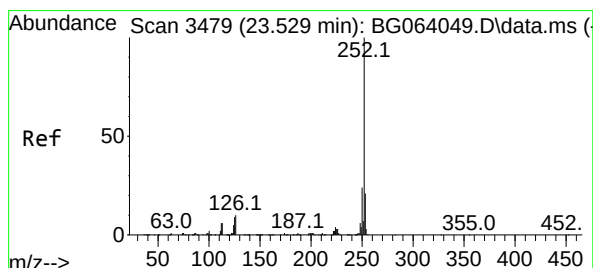
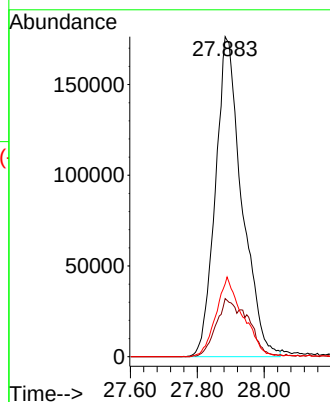
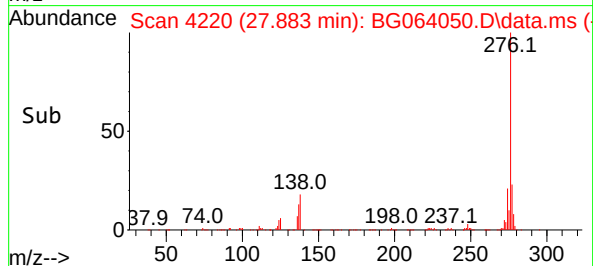
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



Tgt Ion:276 Resp: 970339  
Ion Ratio Lower Upper  
276 100  
138 13.2 12.1 18.1  
277 25.3 20.0 30.0

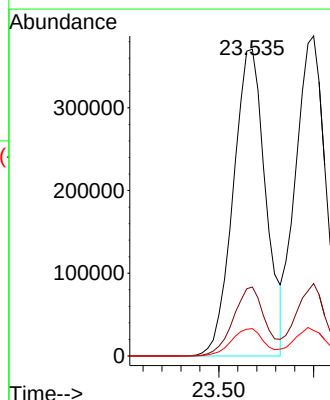
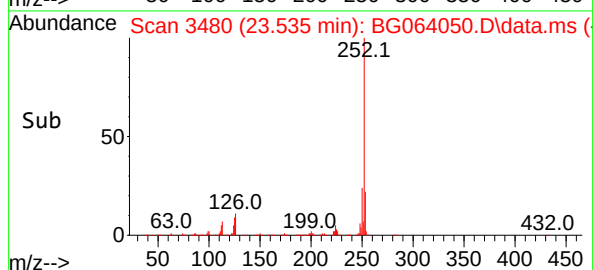
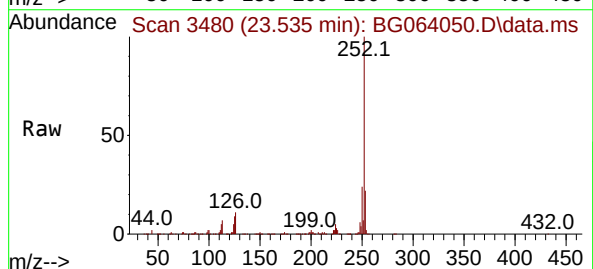
Manual Integrations  
APPROVED

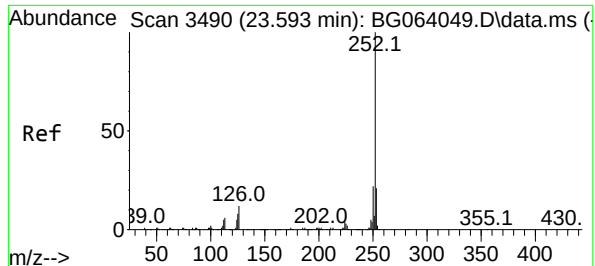
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#88  
Benzo(b)fluoranthene  
Concen: 50.946 ng  
RT: 23.535 min Scan# 3480  
Delta R.T. 0.007 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

Tgt Ion:252 Resp: 882554  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.0 25.4  
125 8.9 7.4 11.2





#89

Benzo(k)fluoranthene

Concen: 49.673 ng

RT: 23.600 min Scan# 3490

Delta R.T. 0.007 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23

Instrument :

BNA\_G

ClientSampleId :

SSTDICC050

Tgt Ion:252 Resp: 86326

Ion Ratio Lower Upper

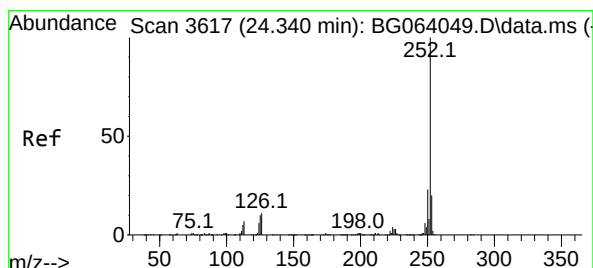
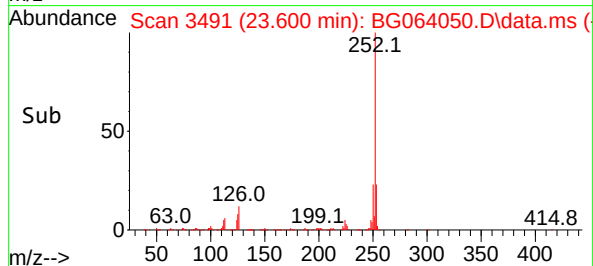
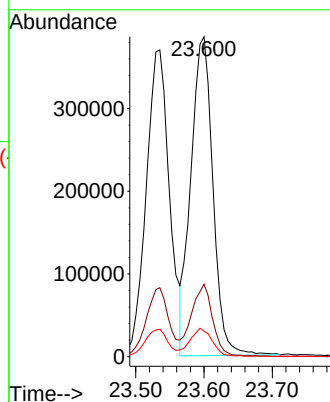
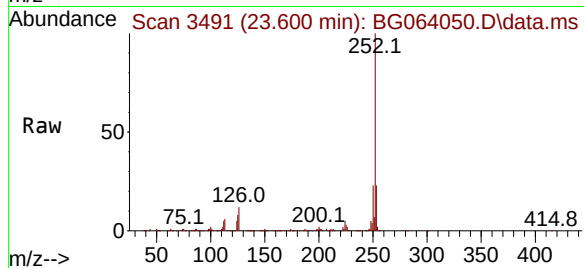
252 100

253 22.6 16.8 25.2

125 8.0 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#90

Benzo(a)pyrene

Concen: 51.360 ng

RT: 24.346 min Scan# 3618

Delta R.T. 0.007 min

Lab File: BG064050.D

Acq: 5 Mar 2025 12:23

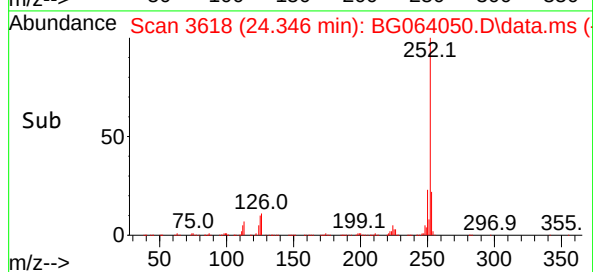
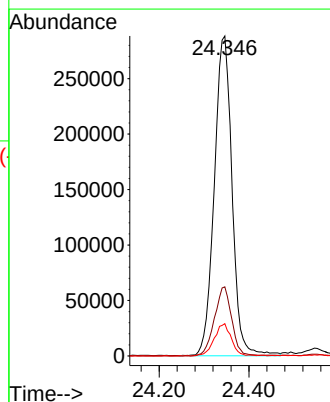
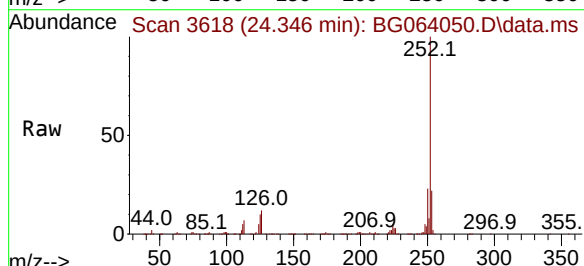
Tgt Ion:252 Resp: 792379

Ion Ratio Lower Upper

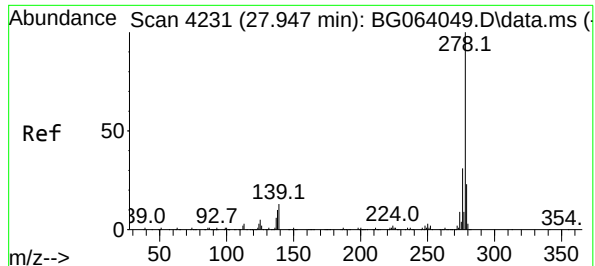
252 100

253 21.6 16.2 24.2

125 10.1 7.8 11.6

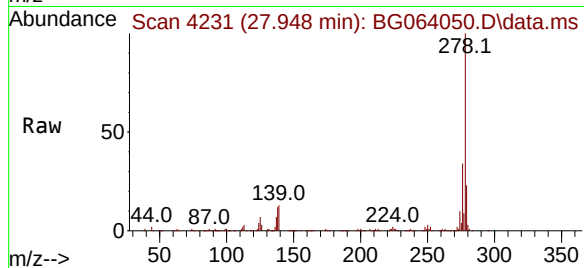






#91  
Dibenzo(a,h)anthracene  
Concen: 51.097 ng  
RT: 27.948 min Scan# 41  
Delta R.T. 0.001 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23

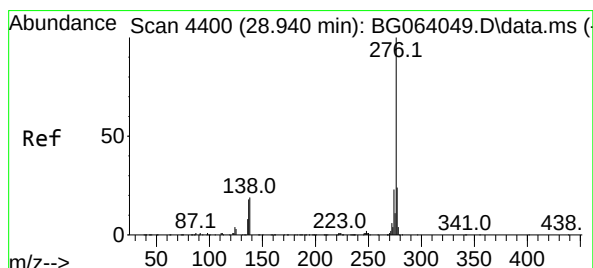
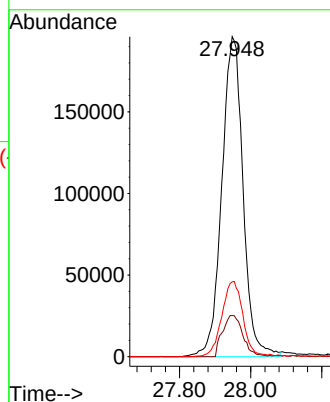
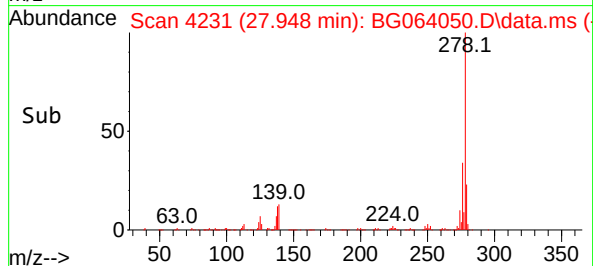
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC050



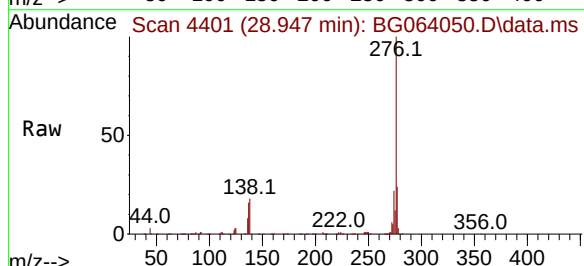
Tgt Ion:278 Resp: 812185  
Ion Ratio Lower Upper  
278 100  
139 12.8 10.2 15.2  
279 23.4 18.1 27.1

Manual Integrations  
APPROVED

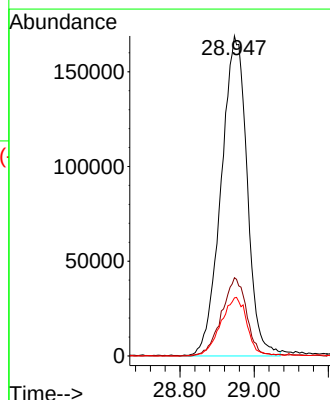
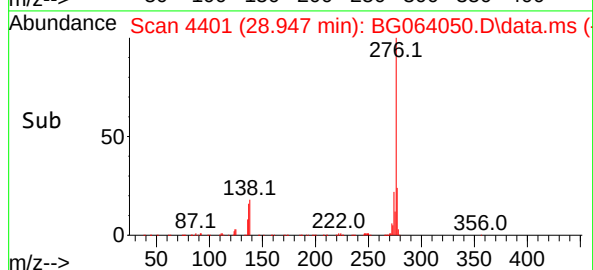
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#92  
Benzo(g,h,i)perylene  
Concen: 50.325 ng  
RT: 28.947 min Scan# 4401  
Delta R.T. 0.007 min  
Lab File: BG064050.D  
Acq: 5 Mar 2025 12:23



Tgt Ion:276 Resp: 821282  
Ion Ratio Lower Upper  
276 100  
277 24.4 19.5 29.3  
138 18.1 15.4 23.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064051.D  
 Acq On : 5 Mar 2025 13:04  
 Operator : RC/JU  
 Sample : SSTDICC060  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDICC060

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025

Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:25:06 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 14:45:06 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.865  | 152  | 37134    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.656 | 136  | 170133   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.492 | 164  | 120501   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.230 | 188  | 267696   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.467 | 240  | 267699   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 24.481 | 264  | 289231   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.450  | 112  | 293555   | 123.437 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.031  | 99   | 409752   | 126.652 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.022  | 82   | 408232   | 132.600 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.979 | 330  | 180569   | 134.808 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.118 | 172  | 928658   | 116.978 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.851 | 244  | 1536841  | 116.081 | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.376  | 88   | 60005    | 55.674  | ng    | 98       |
| 3) Pyridine                   | 3.764  | 79   | 153247   | 58.464  | ng    | 100      |
| 4) n-Nitrosodimethylamine     | 3.682  | 42   | 116662   | 62.293  | ng    | 99       |
| 6) Aniline                    | 7.195  | 93   | 194727   | 61.338  | ng    | 99       |
| 8) 2-Chlorophenol             | 7.430  | 128  | 158149   | 61.917  | ng    | 97       |
| 9) Benzaldehyde               | 7.007  | 77   | 94743    | 50.099  | ng    | 97       |
| 10) Phenol                    | 7.060  | 94   | 211698   | 63.911  | ng    | 97       |
| 11) bis(2-Chloroethyl)ether   | 7.295  | 93   | 157937   | 60.818  | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 7.759  | 146  | 169236   | 60.337  | ng    | 97       |
| 13) 1,4-Dichlorobenzene       | 7.900  | 146  | 171129   | 59.524  | ng    | 98       |
| 14) 1,2-Dichlorobenzene       | 8.217  | 146  | 169937   | 61.300  | ng    | 98       |
| 15) Benzyl Alcohol            | 8.100  | 79   | 163423   | 65.368  | ng    | 98       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.394  | 45   | 358503   | 61.396  | ng    | 98       |
| 17) 2-Methylphenol            | 8.300  | 107  | 141394   | 64.317  | ng    | 96       |
| 18) Hexachloroethane          | 8.946  | 117  | 64767    | 64.389  | ng    | 94       |
| 19) n-Nitroso-di-n-propyla... | 8.676  | 70   | 147291   | 64.871  | ng    | 97       |
| 20) 3+4-Methylphenols         | 8.635  | 107  | 200990   | 66.409  | ng    | 94       |
| 22) Acetophenone              | 8.682  | 105  | 286250   | 61.365  | ng    | # 98     |
| 24) Nitrobenzene              | 9.064  | 77   | 208758   | 65.613  | ng    | 95       |
| 25) Isophorone                | 9.586  | 82   | 386627   | 62.743  | ng    | 97       |
| 26) 2-Nitrophenol             | 9.769  | 139  | 72153    | 61.605  | ng    | 95       |
| 27) 2,4-Dimethylphenol        | 9.827  | 122  | 122021   | 66.054  | ng    | 98       |
| 28) bis(2-Chloroethoxy)met... | 10.068 | 93   | 229336   | 61.387  | ng    | 98       |
| 29) 2,4-Dichlorophenol        | 10.303 | 162  | 153766   | 65.920  | ng    | 97       |
| 30) 1,2,4-Trichlorobenzene    | 10.521 | 180  | 170860   | 60.677  | ng    | 98       |
| 31) Naphthalene               | 10.703 | 128  | 559954   | 61.037  | ng    | 99       |
| 32) Benzoic acid              | 9.998  | 122  | 110878m  | 62.274  | ng    |          |
| 33) 4-Chloroaniline           | 10.809 | 127  | 214091   | 63.850  | ng    | 98       |
| 34) Hexachlorobutadiene       | 10.997 | 225  | 112408   | 60.903  | ng    | 98       |
| 35) Caprolactam               | 11.596 | 113  | 57227    | 64.020  | ng    | 95       |
| 36) 4-Chloro-3-methylphenol   | 11.931 | 107  | 199201   | 65.149  | ng    | 97       |
| 37) 2-Methylnaphthalene       | 12.313 | 142  | 397524   | 61.379  | ng    | 99       |
| 38) 1-Methylnaphthalene       | 12.536 | 142  | 391774   | 61.745  | ng    | 95       |
| 40) 1,2,4,5-Tetrachloroben... | 12.683 | 216  | 203188   | 59.063  | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 12.665 | 237  | 65070    | 67.203  | ng    | 96       |
| 43) 2,4,6-Trichlorophenol     | 12.918 | 196  | 133197   | 65.693  | ng    | 99       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064051.D  
 Acq On : 5 Mar 2025 13:04  
 Operator : RC/JU  
 Sample : SSTDICC060  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDICC060

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:25:06 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 14:45:06 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.988 | 196  | 147199   | 65.338 | ng    | 97       |
| 46) 1,1'-Biphenyl             | 13.329 | 154  | 546747   | 60.056 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.364 | 162  | 405177   | 61.023 | ng    | 98       |
| 48) 2-Nitroaniline            | 13.564 | 65   | 143213   | 61.521 | ng    | 97       |
| 49) Acenaphthylene            | 14.210 | 152  | 642256   | 61.154 | ng    | 99       |
| 50) Dimethylphthalate         | 13.958 | 163  | 545112   | 61.282 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 14.064 | 165  | 110825   | 60.475 | ng    | 92       |
| 52) Acenaphthene              | 14.557 | 154  | 423181   | 59.918 | ng    | 99       |
| 53) 3-Nitroaniline            | 14.393 | 138  | 118880   | 69.150 | ng    | 99       |
| 54) 2,4-Dinitrophenol         | 14.592 | 184  | 43597    | 60.118 | ng    | # 82     |
| 55) Dibenzofuran              | 14.892 | 168  | 673760   | 59.009 | ng    | 100      |
| 56) 4-Nitrophenol             | 14.698 | 139  | 97685    | 67.751 | ng    | 97       |
| 57) 2,4-Dinitrotoluene        | 14.851 | 165  | 153908   | 60.762 | ng    | # 98     |
| 58) Fluorene                  | 15.538 | 166  | 527952   | 59.367 | ng    | 98       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.115 | 232  | 145394   | 66.199 | ng    | 96       |
| 60) Diethylphthalate          | 15.321 | 149  | 591838   | 61.289 | ng    | 100      |
| 61) 4-Chlorophenyl-phenyle... | 15.538 | 204  | 260768   | 59.007 | ng    | 93       |
| 62) 4-Nitroaniline            | 15.556 | 138  | 122494   | 65.996 | ng    | 97       |
| 63) Azobenzene                | 15.826 | 77   | 616384   | 59.818 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 15.615 | 198  | 74058    | 61.305 | ng    | 97       |
| 66) n-Nitrosodiphenylamine    | 15.750 | 169  | 458342   | 60.488 | ng    | 97       |
| 67) 4-Bromophenyl-phenylether | 16.426 | 248  | 174594   | 63.681 | ng    | 96       |
| 68) Hexachlorobenzene         | 16.543 | 284  | 183700   | 59.848 | ng    | 99       |
| 70) Pentachlorophenol         | 16.884 | 266  | 127516   | 66.910 | ng    | 97       |
| 71) Phenanthrene              | 17.272 | 178  | 850190   | 59.544 | ng    | 100      |
| 72) Anthracene                | 17.366 | 178  | 855662   | 60.267 | ng    | 98       |
| 73) Carbazole                 | 17.630 | 167  | 791764   | 59.729 | ng    | 98       |
| 74) Di-n-butylphthalate       | 18.206 | 149  | 978831   | 62.731 | ng    | 99       |
| 75) Fluoranthene              | 19.281 | 202  | 998035   | 57.980 | ng    | 99       |
| 77) Benzidine                 | 19.469 | 184  | 240411   | 63.973 | ng    | 98       |
| 78) Pyrene                    | 19.645 | 202  | 1035908  | 60.030 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.544 | 149  | 403606   | 61.244 | ng    | 97       |
| 81) Benzo(a)anthracene        | 21.449 | 228  | 1051558  | 61.323 | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.367 | 252  | 349935   | 63.055 | ng    | 99       |
| 83) Chrysene                  | 21.514 | 228  | 1044616  | 61.078 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.384 | 149  | 633796   | 68.341 | ng    | 98       |
| 85) Di-n-octyl phthalate      | 22.530 | 149  | 1075085  | 67.209 | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 27.889 | 276  | 1198276  | 61.921 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 23.535 | 252  | 1054170  | 60.290 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 23.599 | 252  | 1070595  | 61.033 | ng    | 100      |
| 90) Benzo(a)pyrene            | 24.346 | 252  | 947608   | 60.853 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 27.953 | 278  | 974276   | 60.728 | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 28.964 | 276  | 1002330  | 60.851 | ng    | 96       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

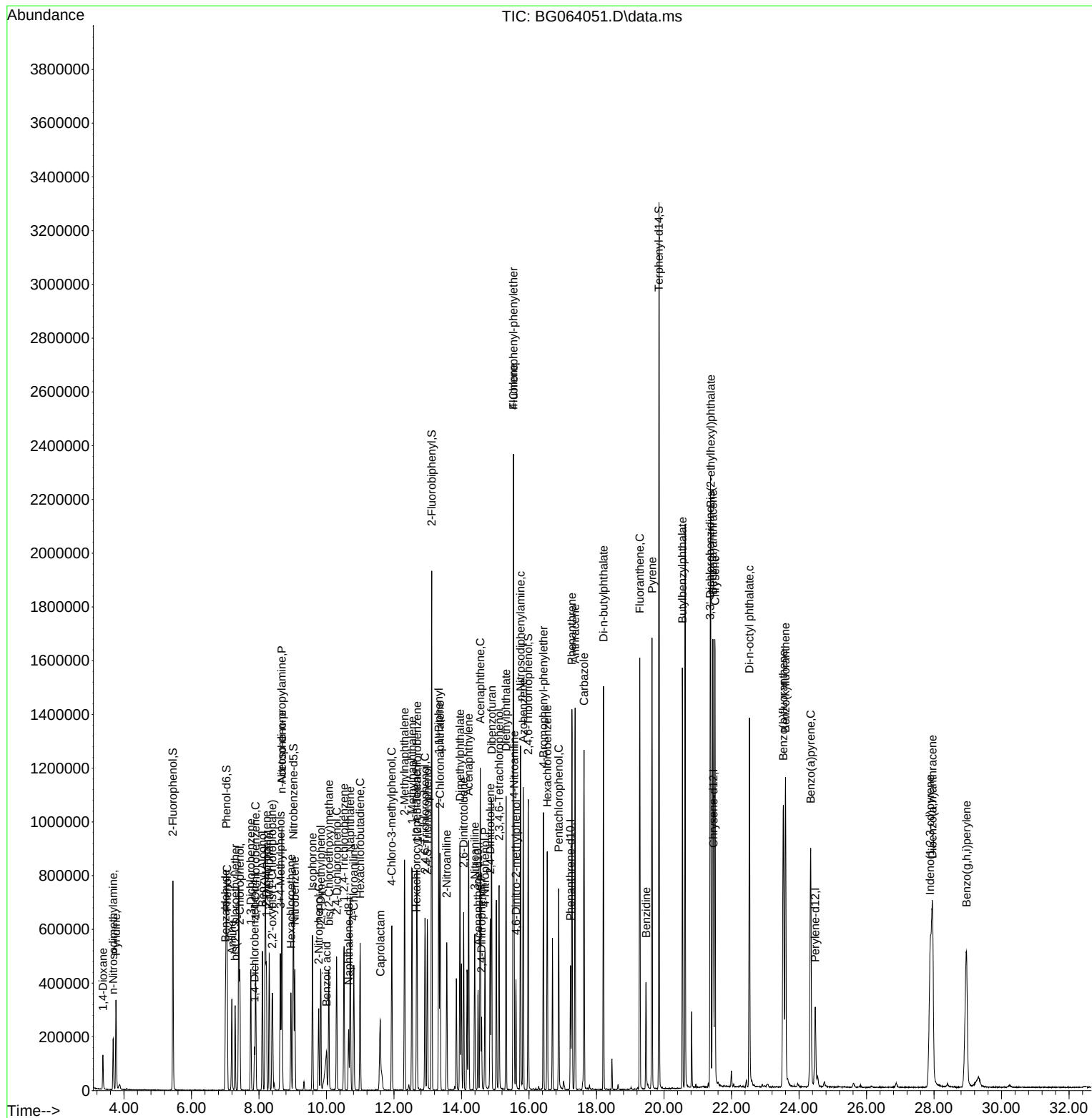
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064051.D  
 Acq On : 5 Mar 2025 13:04  
 Operator : RC/JU  
 Sample : SSTDICC060  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

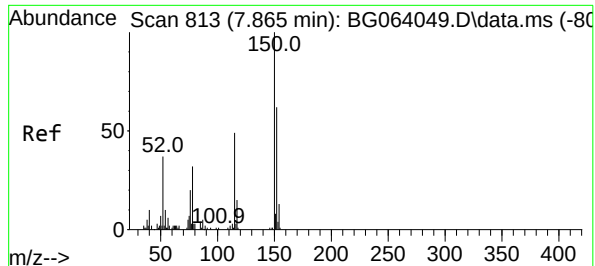
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTDICC060

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025

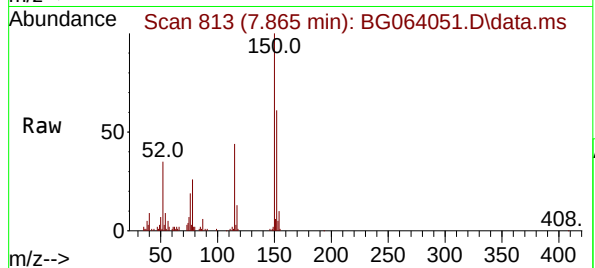
Quant Time: Mar 05 15:25:06 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 14:45:06 2025  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.865 min Scan# 813  
Delta R.T. -0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

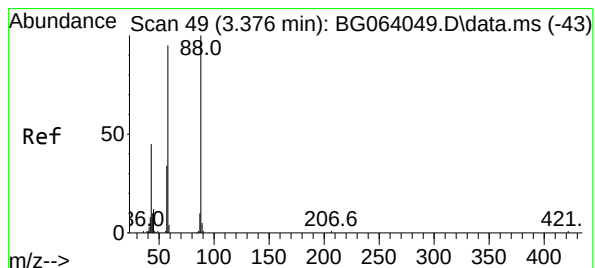
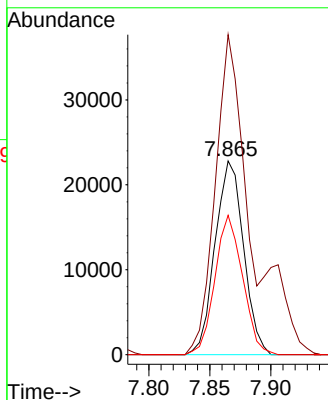
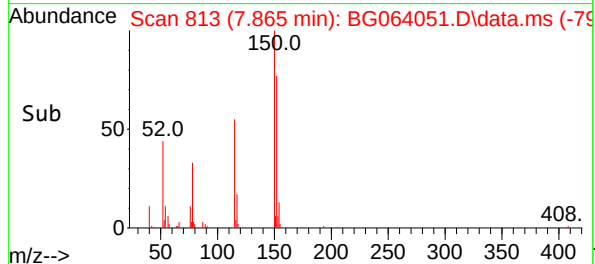
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:152 Resp: 37134  
Ion Ratio Lower Upper  
152 100  
150 165.1 129.2 193.8  
115 71.9 63.0 94.6

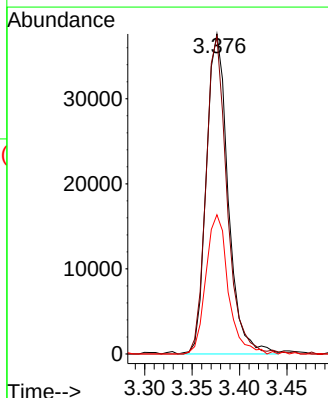
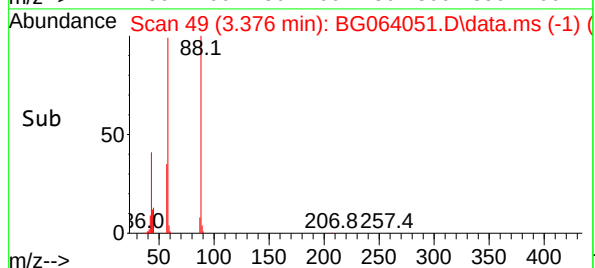
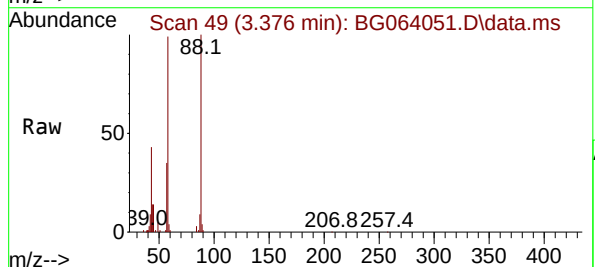
Manual Integrations  
APPROVED

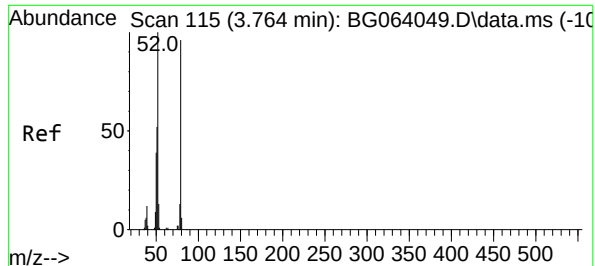
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#2  
1,4-Dioxane  
Concen: 55.674 ng  
RT: 3.376 min Scan# 49  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

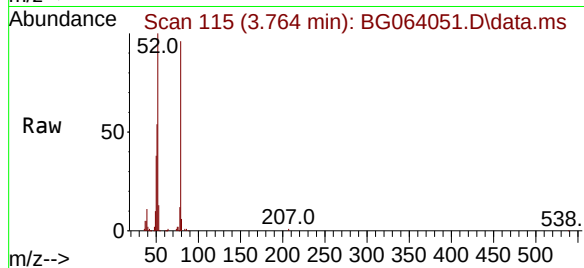
Tgt Ion: 88 Resp: 60005  
Ion Ratio Lower Upper  
88 100  
58 96.3 74.6 111.8  
43 44.5 35.5 53.3





#3  
Pyridine  
Concen: 58.464 ng  
RT: 3.764 min Scan# 115  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

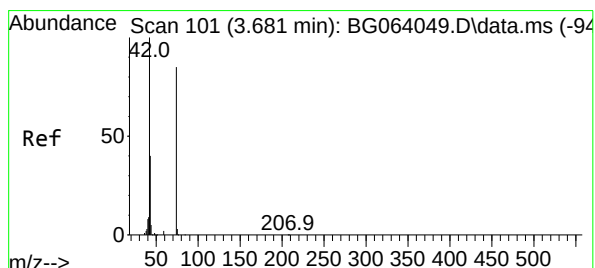
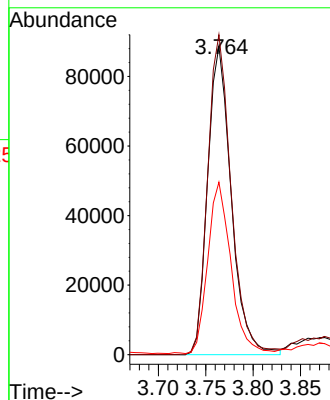
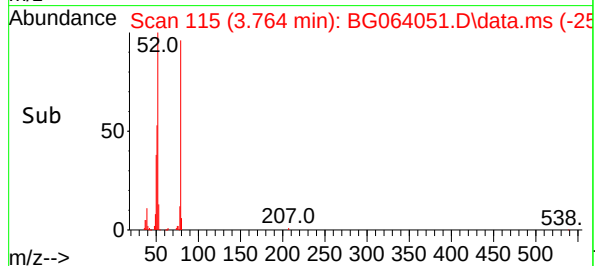
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion: 79 Resp: 15324  
Ion Ratio Lower Upper  
79 100  
52 103.8 83.0 124.6  
51 56.0 44.3 66.5

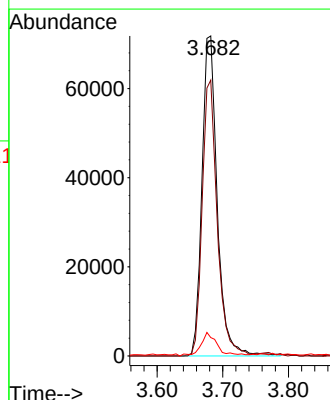
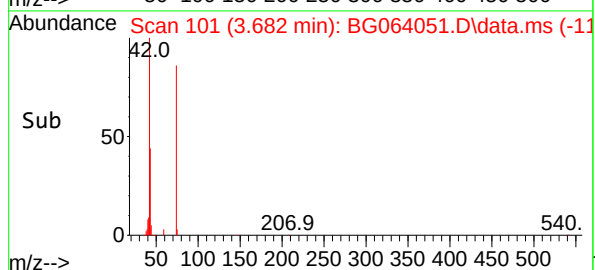
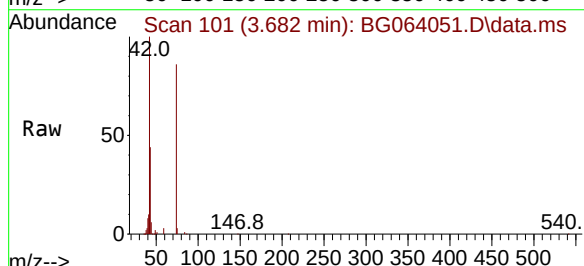
Manual Integrations  
APPROVED

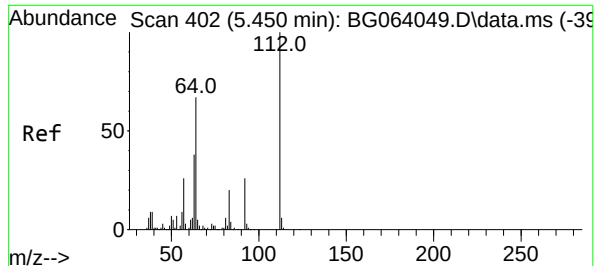
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#4  
n-Nitrosodimethylamine  
Concen: 62.293 ng  
RT: 3.682 min Scan# 101  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

Tgt Ion: 42 Resp: 116662  
Ion Ratio Lower Upper  
42 100  
74 86.2 68.0 102.0  
44 5.7 4.9 7.3





#5

2-Fluorophenol

Concen: 123.437 ng

RT: 5.450 min Scan# 402

Delta R.T. 0.000 min

Lab File: BG064051.D

Acq: 5 Mar 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDICC060

Tgt Ion:112 Resp: 29355

Ion Ratio Lower Upper

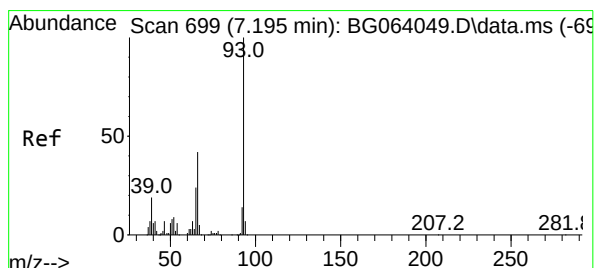
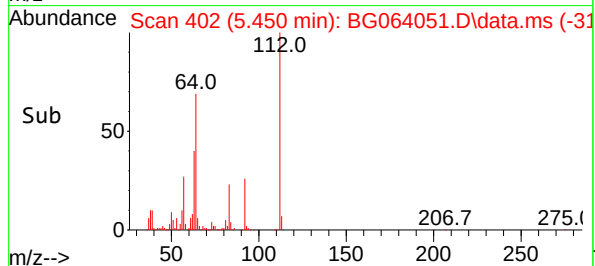
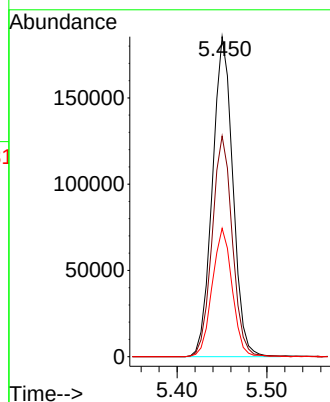
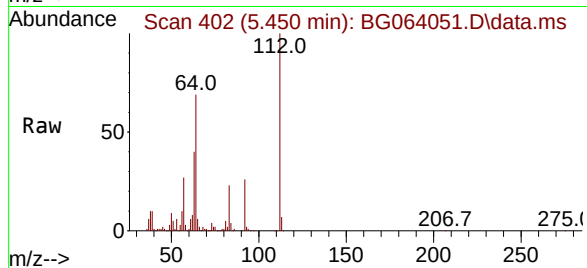
112 100

64 69.0 53.7 80.5

63 40.1 30.2 45.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#6

Aniline

Concen: 61.338 ng

RT: 7.195 min Scan# 699

Delta R.T. 0.000 min

Lab File: BG064051.D

Acq: 5 Mar 2025 13:04

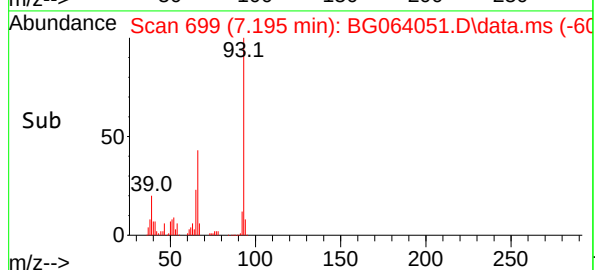
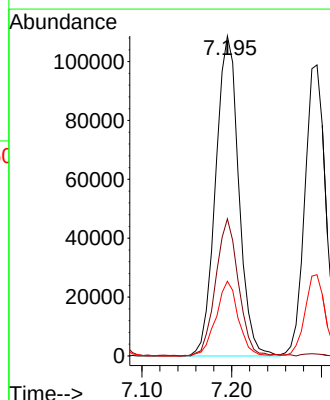
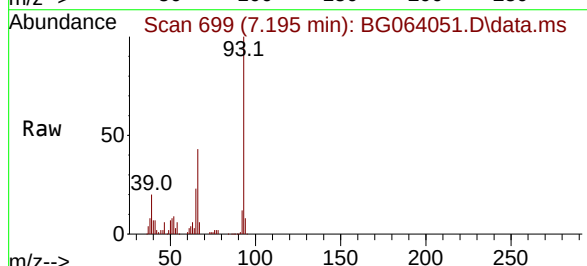
Tgt Ion: 93 Resp: 194727

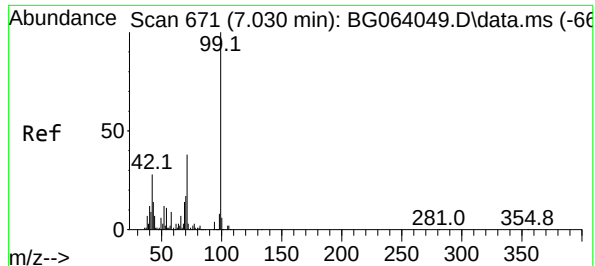
Ion Ratio Lower Upper

93 100

66 42.9 33.7 50.5

65 23.3 19.1 28.7





#7

Phenol-d6

Concen: 126.652 ng

RT: 7.031 min Scan# 61

Delta R.T. 0.000 min

Lab File: BG064051.D

Acq: 5 Mar 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDICC060

Tgt Ion: 99 Resp: 409752

Ion Ratio Lower Upper

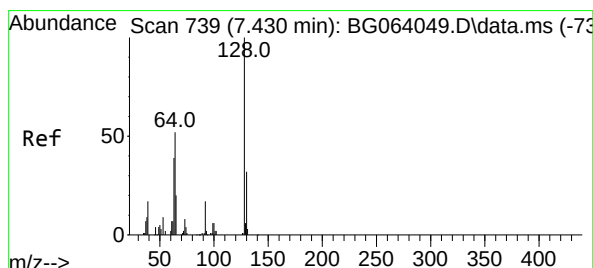
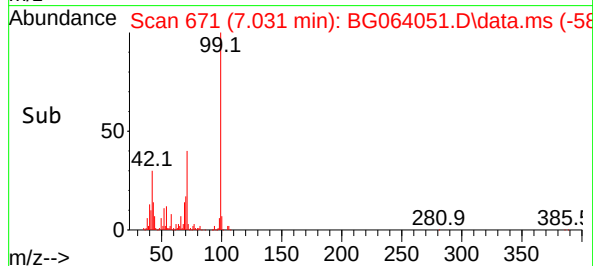
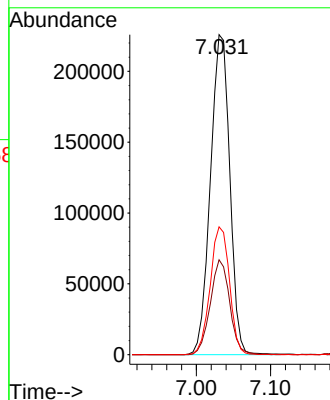
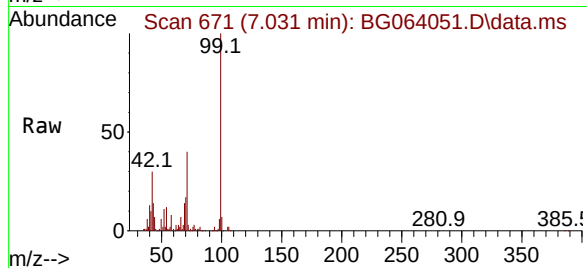
99 100

42 29.6 22.7 34.1

71 39.9 30.6 46.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#8

2-Chlorophenol

Concen: 61.917 ng

RT: 7.430 min Scan# 739

Delta R.T. 0.000 min

Lab File: BG064051.D

Acq: 5 Mar 2025 13:04

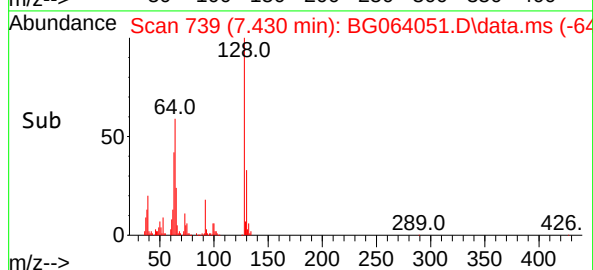
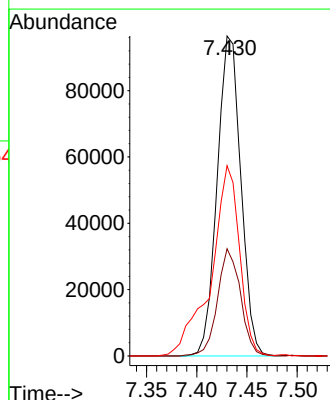
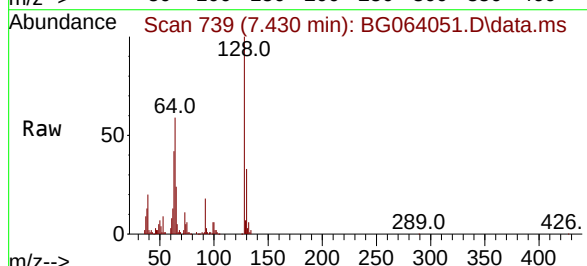
Tgt Ion:128 Resp: 158149

Ion Ratio Lower Upper

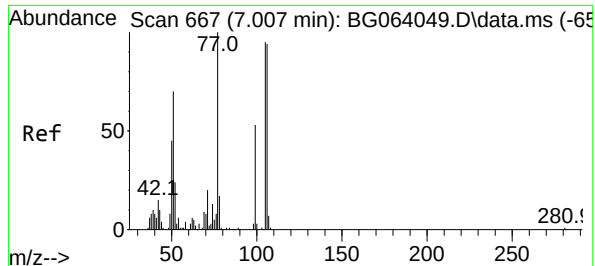
128 100

130 33.5 12.3 52.3

64 59.4 37.0 77.0

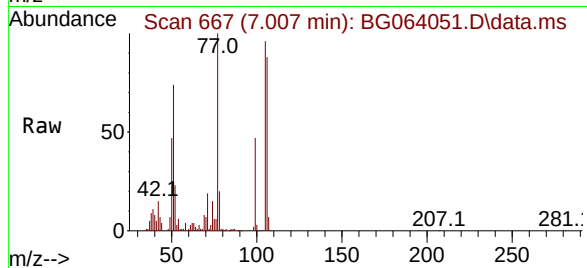






#9  
Benzaldehyde  
Concen: 50.099 ng  
RT: 7.007 min Scan# 667  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

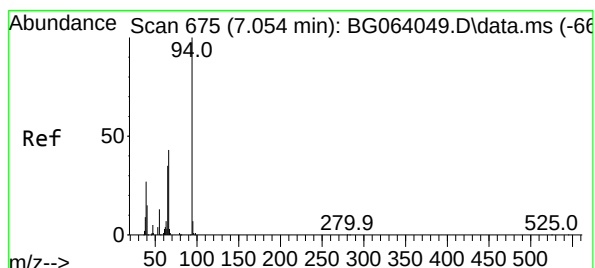
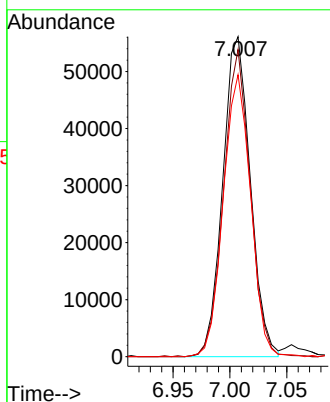
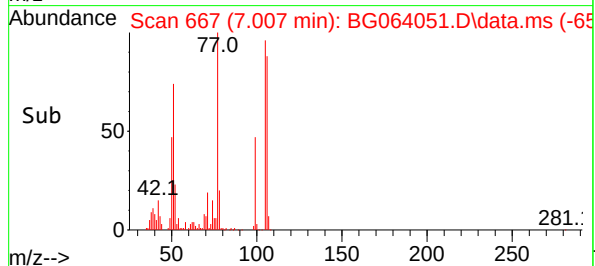
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



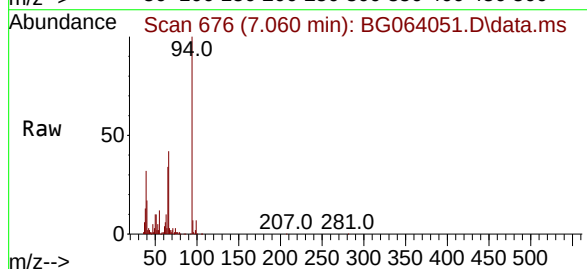
Tgt Ion: 77 Resp: 9474  
Ion Ratio Lower Upper  
77 100  
105 96.0 75.5 115.5  
106 88.1 74.2 114.2

Manual Integrations  
APPROVED

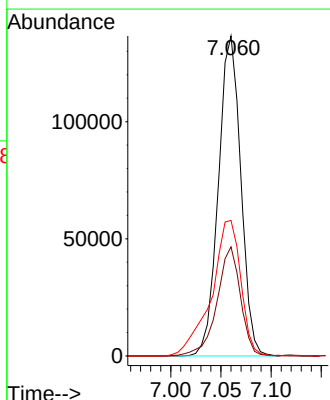
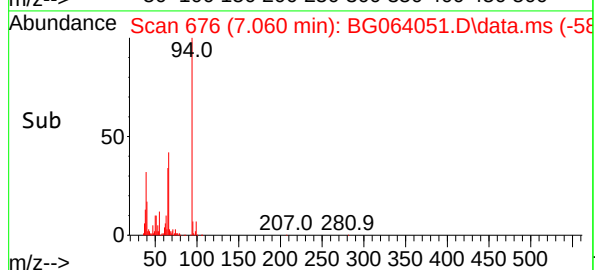
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

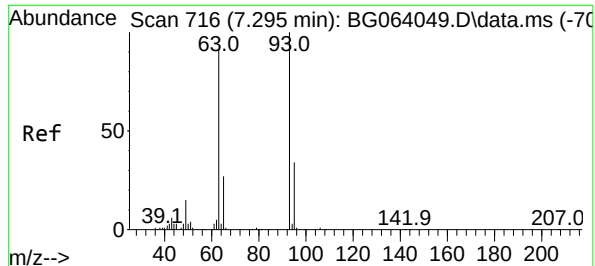


#10  
Phenol  
Concen: 63.911 ng  
RT: 7.060 min Scan# 676  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04



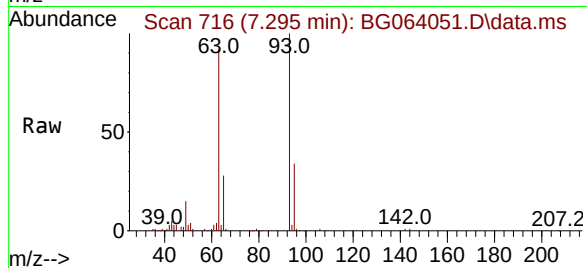
Tgt Ion: 94 Resp: 211698  
Ion Ratio Lower Upper  
94 100  
65 34.1 15.2 55.2  
66 42.3 25.1 65.1





#11  
bis(2-Chloroethyl)ether  
Concen: 60.818 ng  
RT: 7.295 min Scan# 716  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

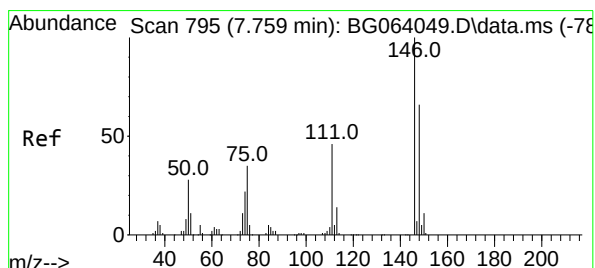
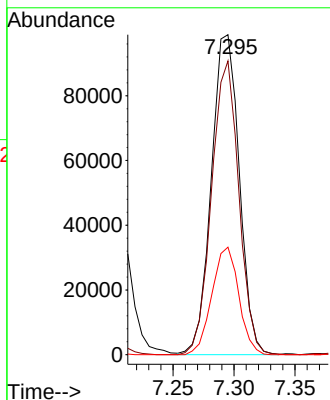
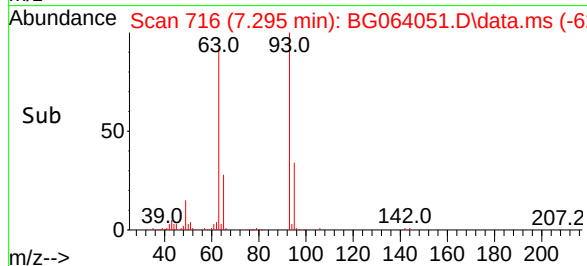
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion: 93 Resp: 15793  
Ion Ratio Lower Upper  
93 100  
63 91.8 70.0 110.0  
95 33.6 13.7 53.7

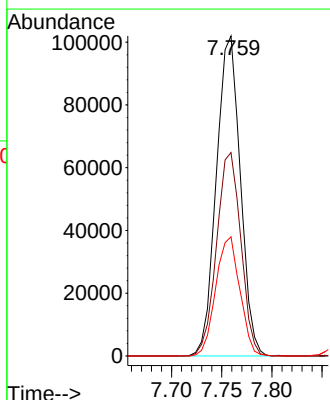
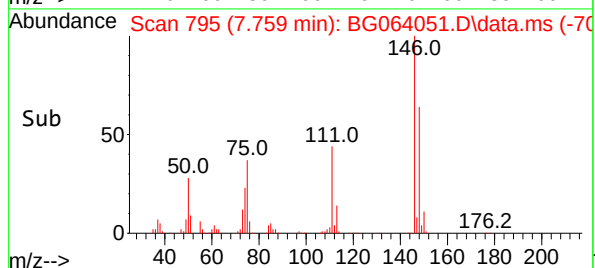
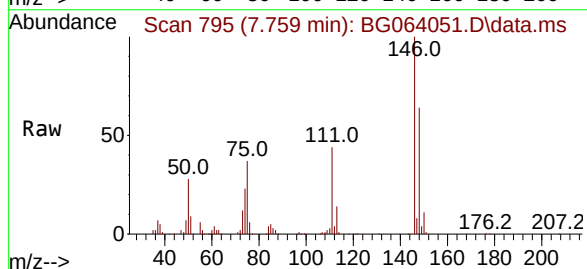
Manual Integrations  
APPROVED

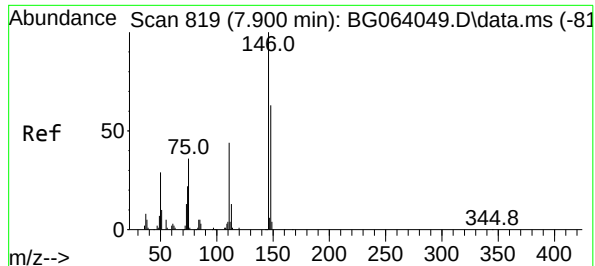
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#12  
1,3-Dichlorobenzene  
Concen: 60.337 ng  
RT: 7.759 min Scan# 795  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

Tgt Ion:146 Resp: 169236  
Ion Ratio Lower Upper  
146 100  
148 63.6 52.6 78.8  
75 37.2 28.1 42.1





#13

1,4-Dichlorobenzene

Concen: 59.524 ng

RT: 7.900 min Scan# 819

Delta R.T. 0.000 min

Lab File: BG064051.D

Acq: 5 Mar 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDICC060

Tgt Ion:146 Resp: 171129

Ion Ratio Lower Upper

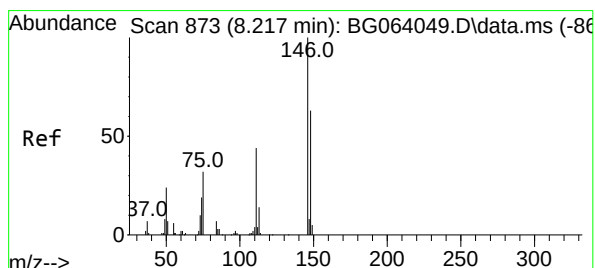
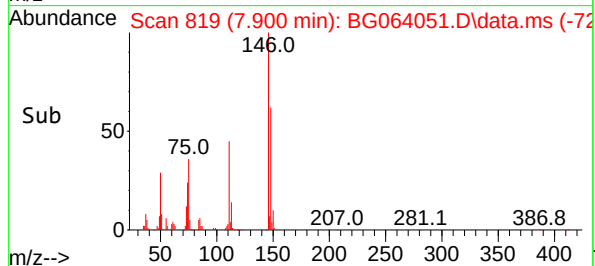
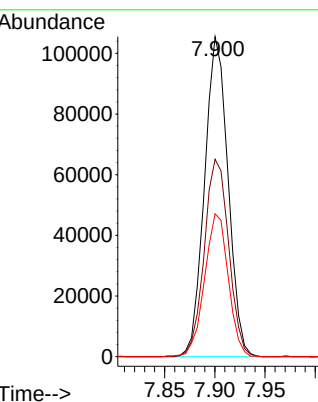
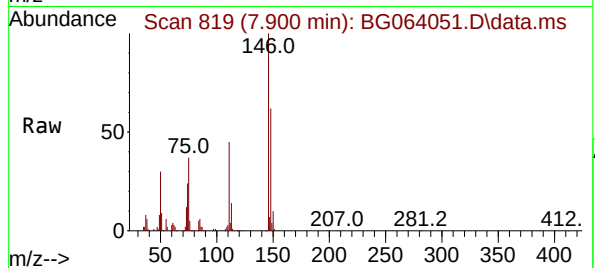
146 100

148 61.7 50.6 75.8

111 44.7 35.1 52.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#14

1,2-Dichlorobenzene

Concen: 61.300 ng

RT: 8.217 min Scan# 873

Delta R.T. 0.000 min

Lab File: BG064051.D

Acq: 5 Mar 2025 13:04

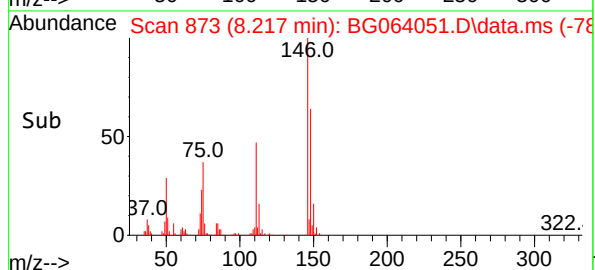
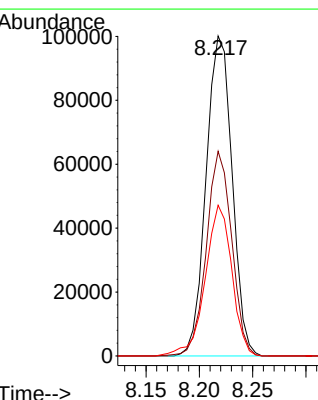
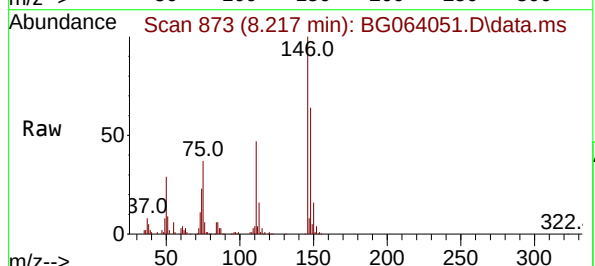
Tgt Ion:146 Resp: 169937

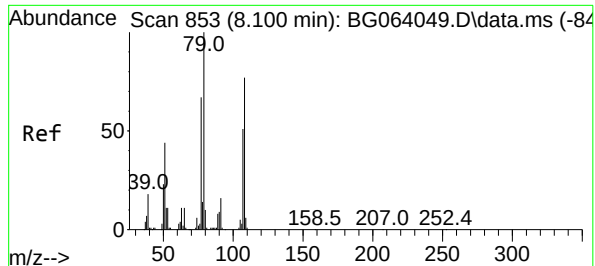
Ion Ratio Lower Upper

146 100

148 64.0 50.2 75.2

111 47.1 36.4 54.6





#15

Benzyl Alcohol

Concen: 65.368 ng

RT: 8.100 min Scan# 81

Delta R.T. 0.000 min

Lab File: BG064051.D

Acq: 5 Mar 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDICC060

Tgt Ion: 79 Resp: 16342

Ion Ratio Lower Upper

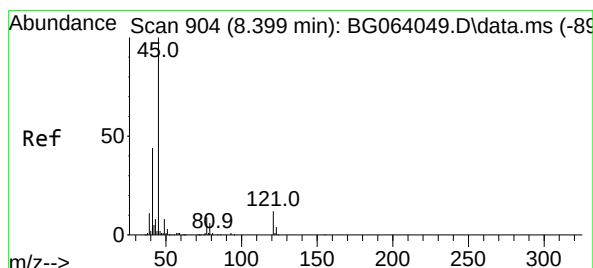
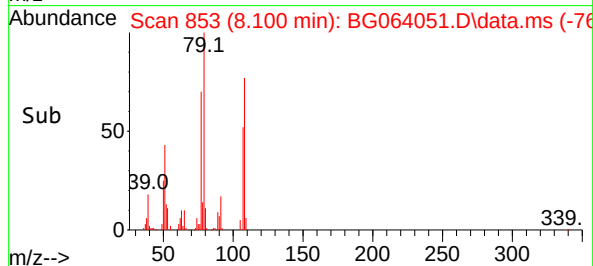
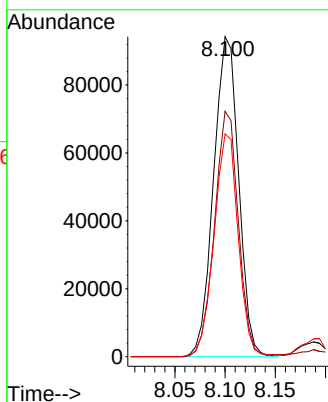
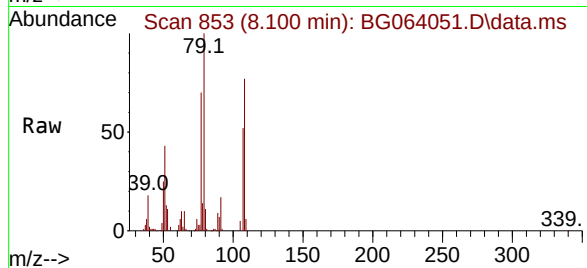
79 100

108 76.7 61.7 92.5

77 69.6 53.9 80.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#16

2,2'-oxybis(1-Chloropropane)

Concen: 61.396 ng

RT: 8.394 min Scan# 903

Delta R.T. -0.006 min

Lab File: BG064051.D

Acq: 5 Mar 2025 13:04

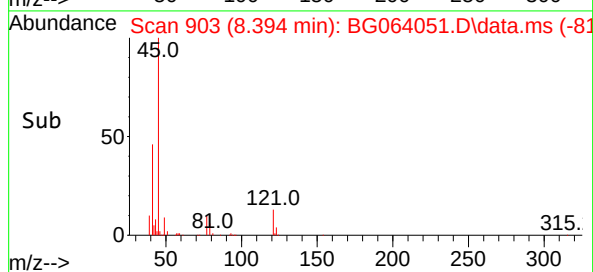
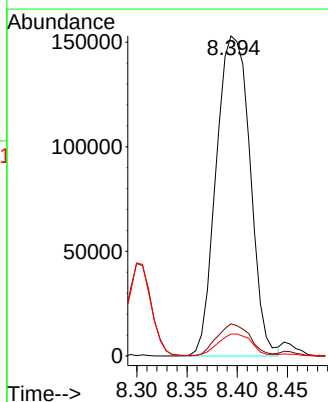
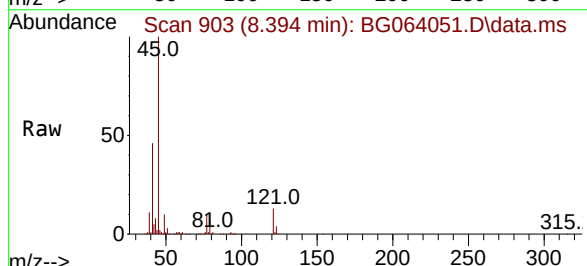
Tgt Ion: 45 Resp: 358503

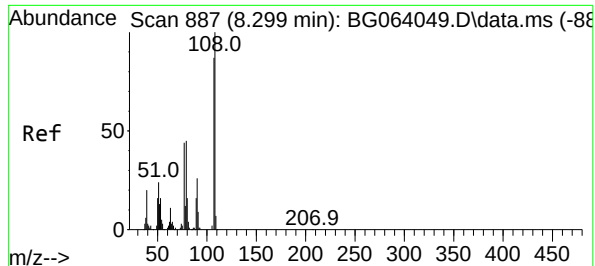
Ion Ratio Lower Upper

45 100

77 10.0 0.0 29.0

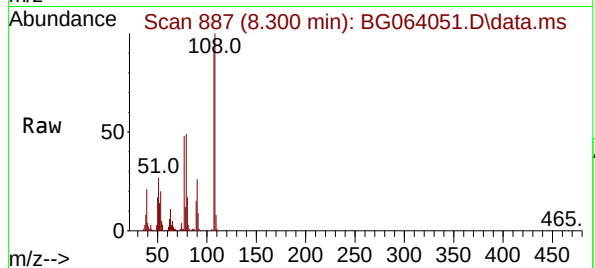
79 6.8 0.0 26.6





#17  
2-Methylphenol  
Concen: 64.317 ng  
RT: 8.300 min Scan# 887  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

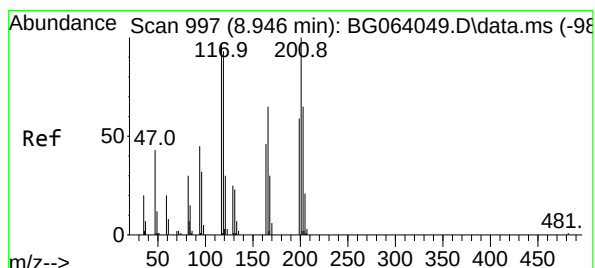
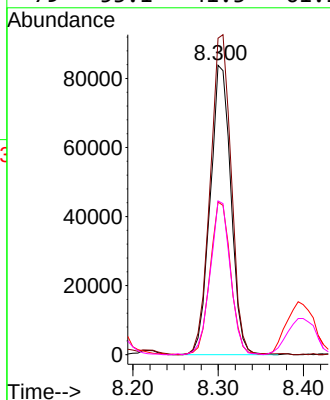
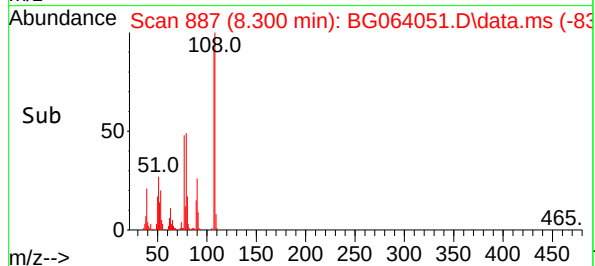
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:107 Resp: 141394  
Ion Ratio Lower Upper  
107 100  
108 109.3 92.5 138.7  
77 52.7 40.5 60.7  
79 53.1 41.3 61.9

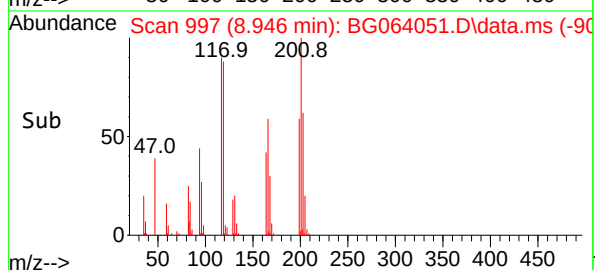
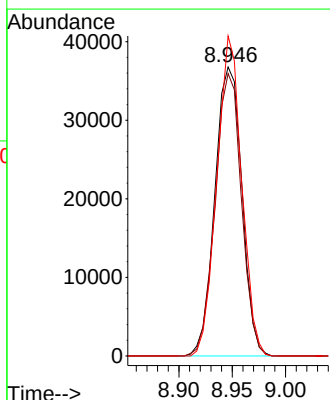
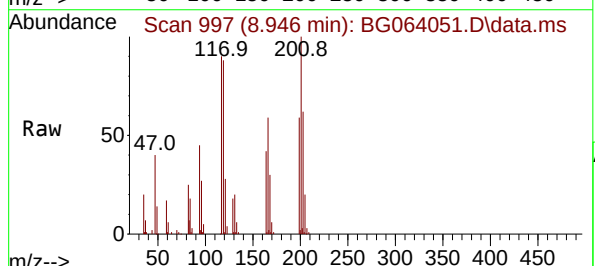
Manual Integrations  
APPROVED

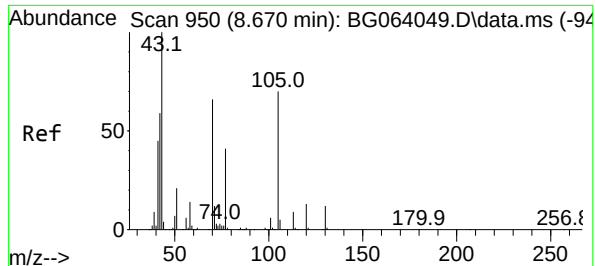
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#18  
Hexachloroethane  
Concen: 64.389 ng  
RT: 8.946 min Scan# 997  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

Tgt Ion:117 Resp: 64767  
Ion Ratio Lower Upper  
117 100  
119 97.7 76.2 114.2  
201 110.7 81.5 122.3





#19

n-Nitroso-di-n-propylamine

Concen: 64.871 ng

RT: 8.676 min Scan# 91

Delta R.T. 0.006 min

Lab File: BG064051.D

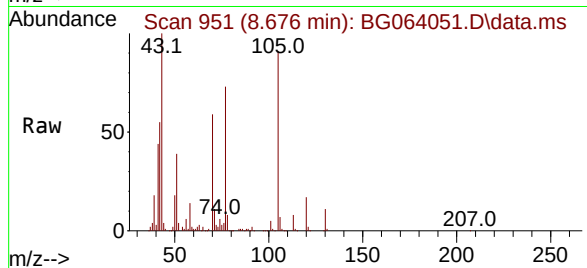
Acq: 5 Mar 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDICC060



Tgt Ion: 70 Resp: 14729

Ion Ratio Lower Upper

70 100

42 93.5 72.1 108.1

101 9.4 7.2 10.8

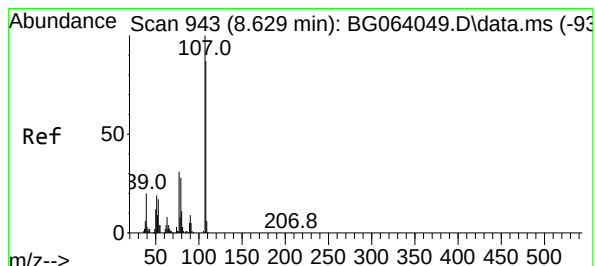
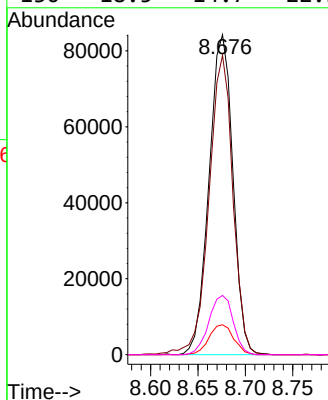
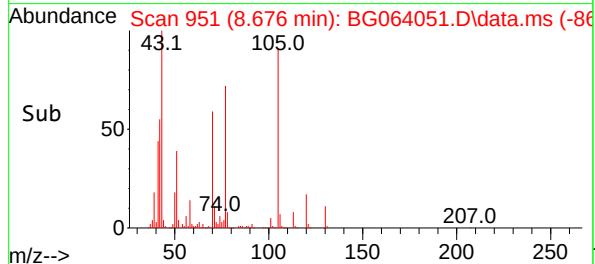
130 18.5 14.7 22.1

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025

Supervised By :mohammad ahmed 03/07/2025



#20

3+4-Methylphenols

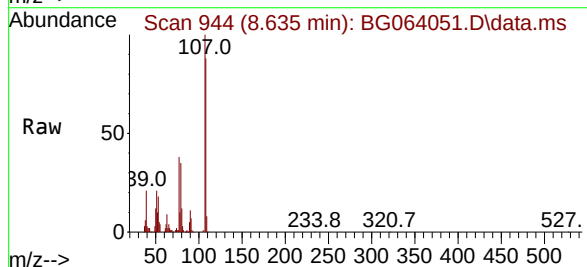
Concen: 66.409 ng

RT: 8.635 min Scan# 944

Delta R.T. 0.006 min

Lab File: BG064051.D

Acq: 5 Mar 2025 13:04



Tgt Ion:107 Resp: 200990

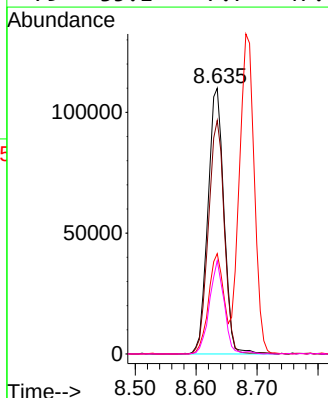
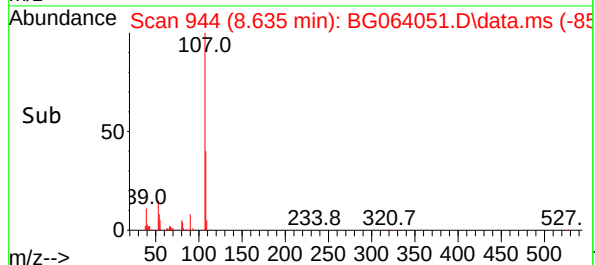
Ion Ratio Lower Upper

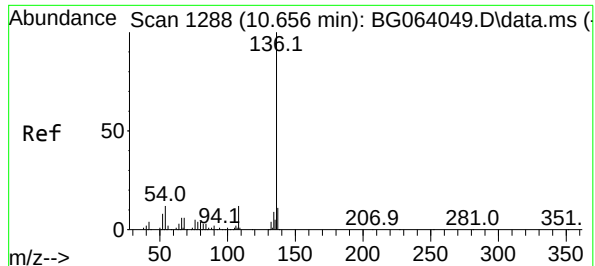
107 100

108 87.8 67.0 107.0

77 37.8 11.2 51.2

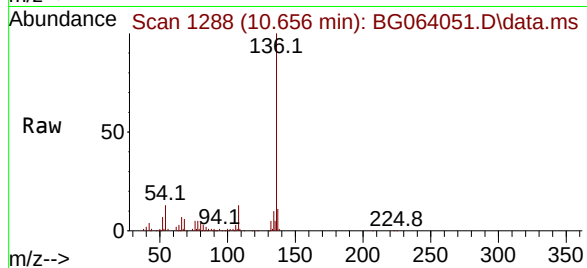
79 35.1 7.7 47.7





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.656 min Scan# 1288  
Delta R.T. -0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

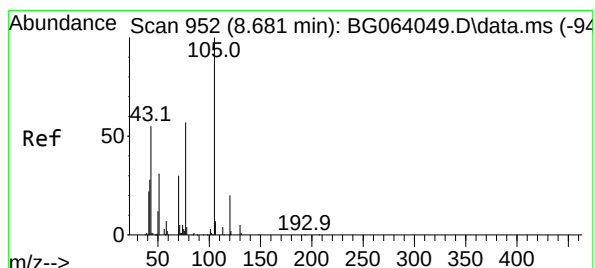
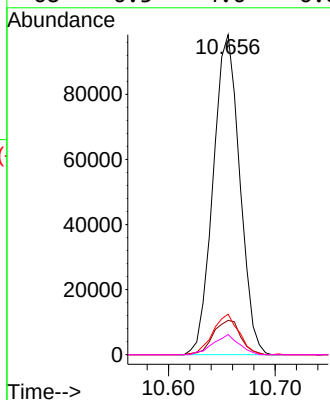
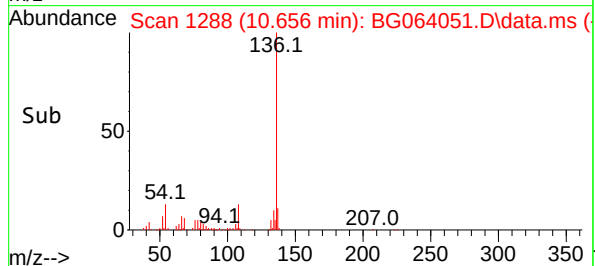
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



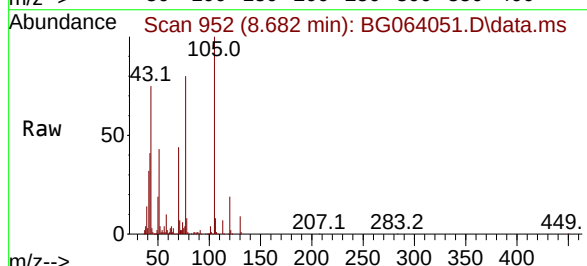
Tgt Ion:136 Resp: 170133  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.5 12.7  
54 12.6 9.9 14.9  
68 6.3 4.6 6.8

Manual Integrations  
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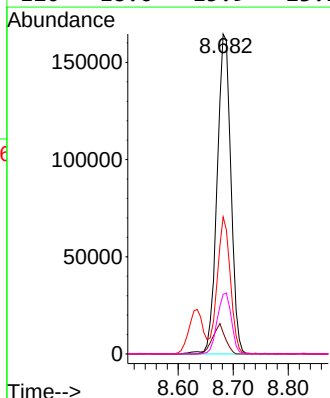
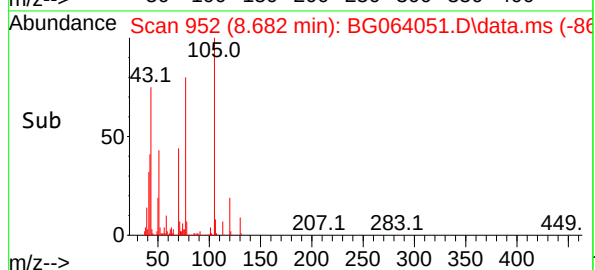
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

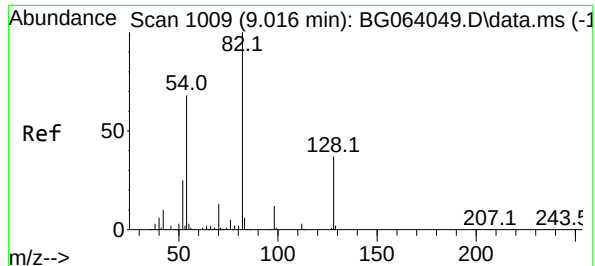


#22  
Acetophenone  
Concen: 61.365 ng  
RT: 8.682 min Scan# 952  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04



Tgt Ion:105 Resp: 286250  
Ion Ratio Lower Upper  
105 100  
71 6.7 4.2 6.4#  
51 42.8 33.3 49.9  
120 18.6 15.9 23.9





#23

Nitrobenzene-d5

Concen: 132.600 ng

RT: 9.022 min Scan# 1010

Delta R.T. 0.006 min

Lab File: BG064051.D

Acq: 5 Mar 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDICC060

Tgt Ion: 82 Resp: 40823

Ion Ratio Lower Upper

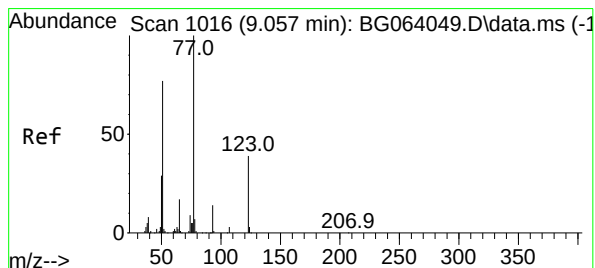
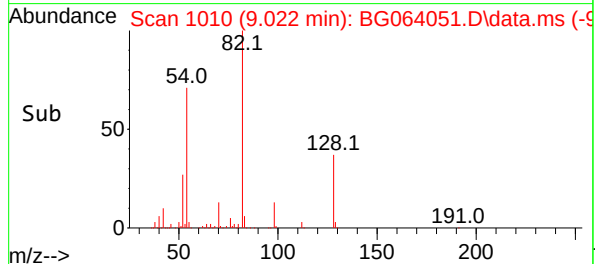
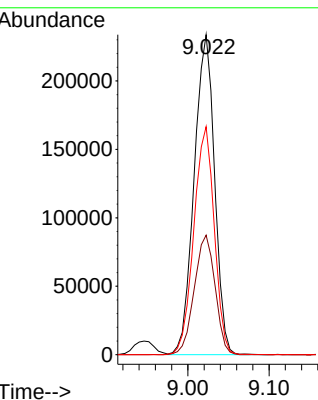
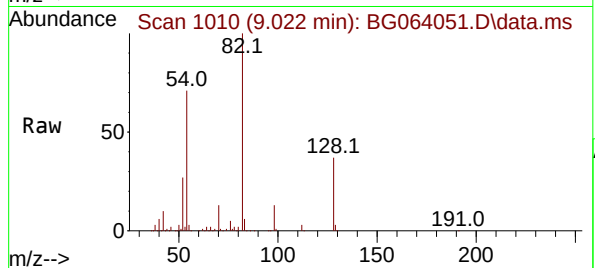
82 100

128 37.4 30.0 45.0

54 71.2 54.7 82.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#24

Nitrobenzene

Concen: 65.613 ng

RT: 9.064 min Scan# 1017

Delta R.T. 0.006 min

Lab File: BG064051.D

Acq: 5 Mar 2025 13:04

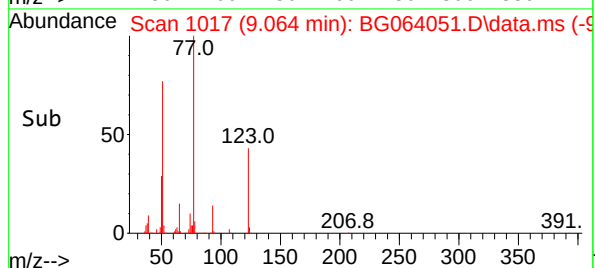
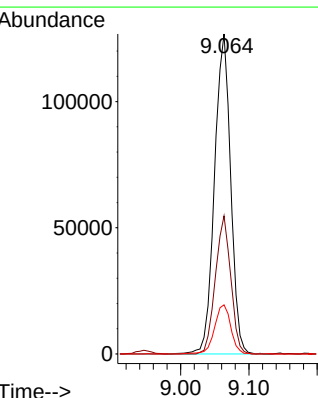
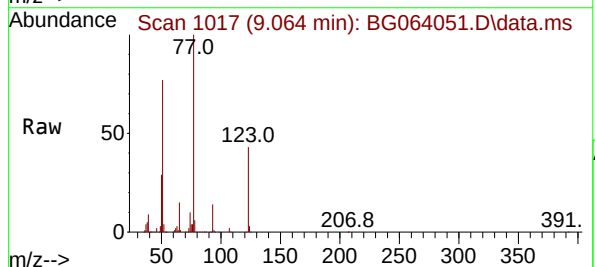
Tgt Ion: 77 Resp: 208758

Ion Ratio Lower Upper

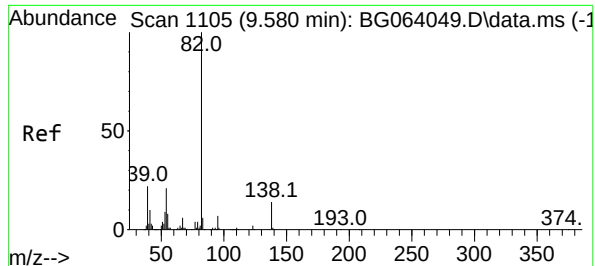
77 100

123 43.2 31.4 47.2

65 15.4 13.4 20.0







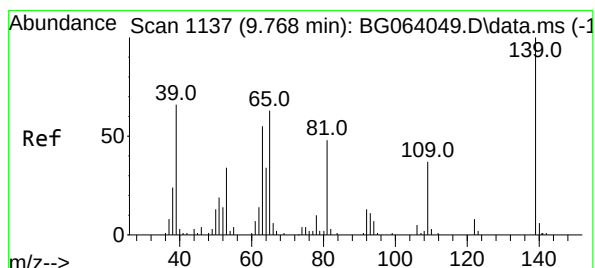
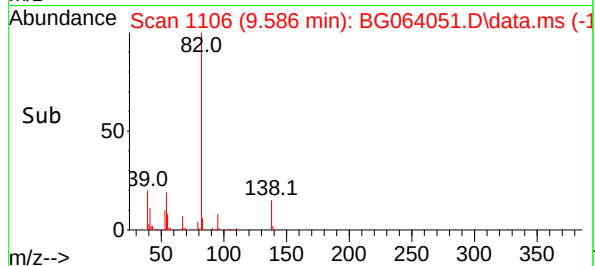
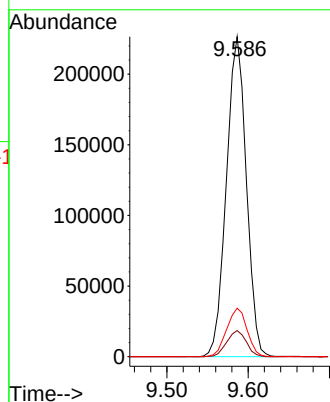
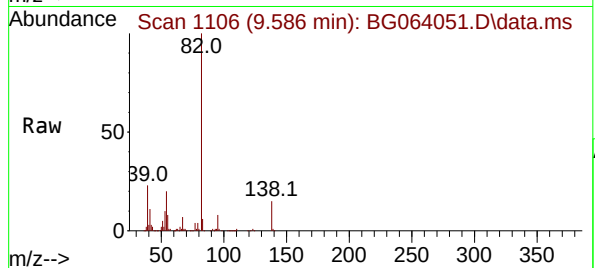
#25  
Isophorone  
Concen: 62.743 ng  
RT: 9.586 min Scan# 1105  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060

Tgt Ion: 82 Resp: 38662  
Ion Ratio Lower Upper  
82 100  
95 8.2 5.8 8.8  
138 15.2 10.9 16.3

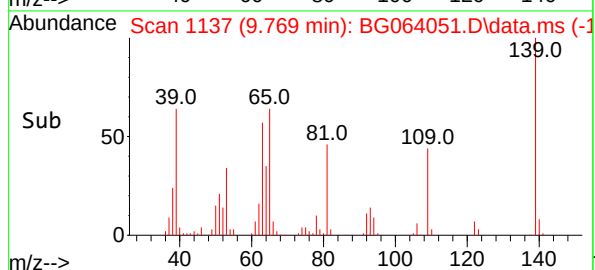
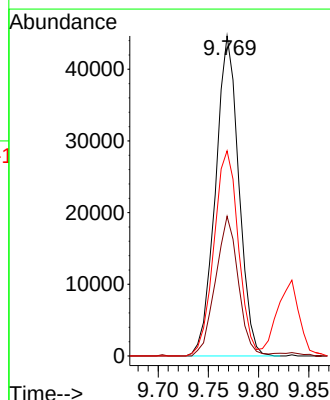
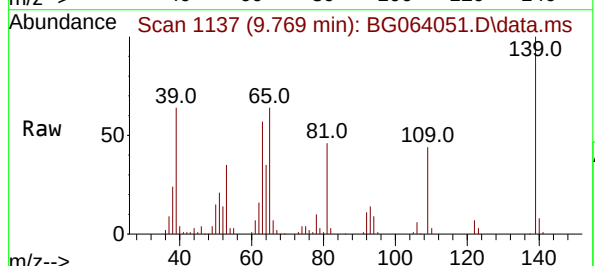
Manual Integrations  
APPROVED

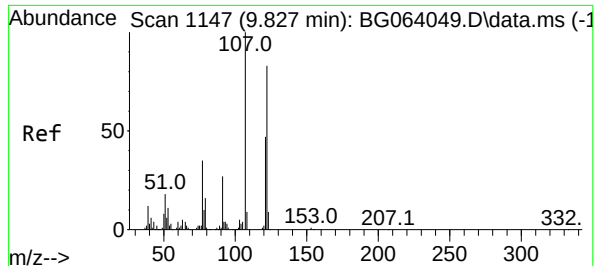
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#26  
2-Nitrophenol  
Concen: 61.605 ng  
RT: 9.769 min Scan# 1137  
Delta R.T. 0.001 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

Tgt Ion:139 Resp: 72153  
Ion Ratio Lower Upper  
139 100  
109 43.6 29.9 44.9  
65 64.1 50.6 76.0





#27

2,4-Dimethylphenol

Concen: 66.054 ng

RT: 9.827 min Scan# 1147

Delta R.T. 0.000 min

Lab File: BG064051.D

Acq: 5 Mar 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDICC060

Tgt Ion:122 Resp: 12202

Ion Ratio Lower Upper

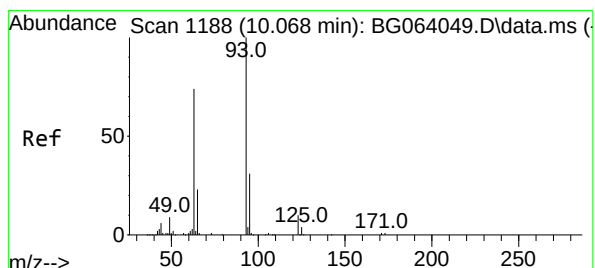
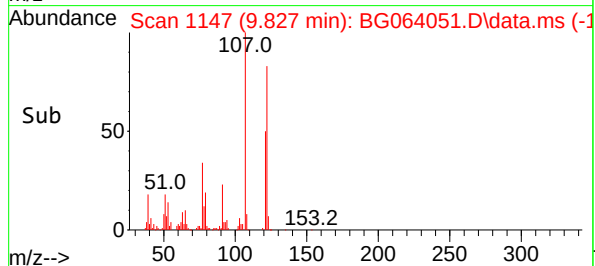
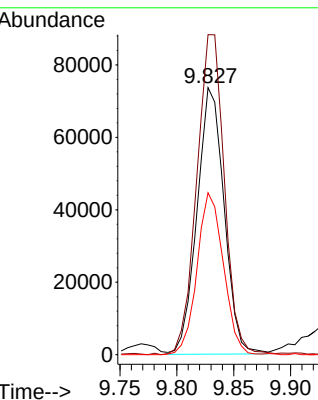
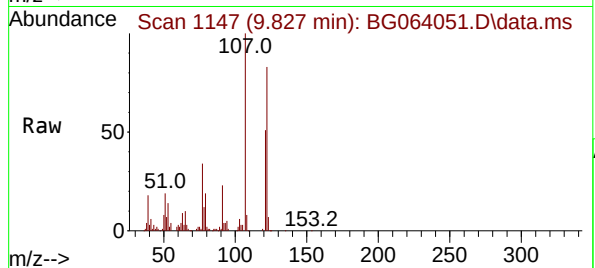
122 100

107 119.8 95.4 143.0

121 60.6 44.9 67.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#28

bis(2-Chloroethoxy)methane

Concen: 61.387 ng

RT: 10.068 min Scan# 1188

Delta R.T. 0.000 min

Lab File: BG064051.D

Acq: 5 Mar 2025 13:04

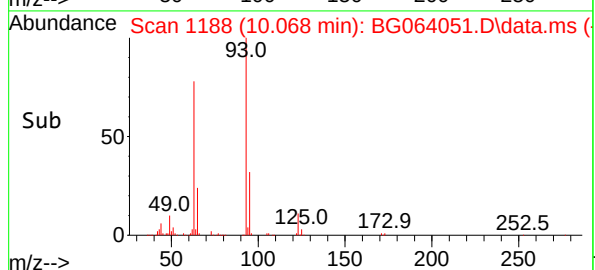
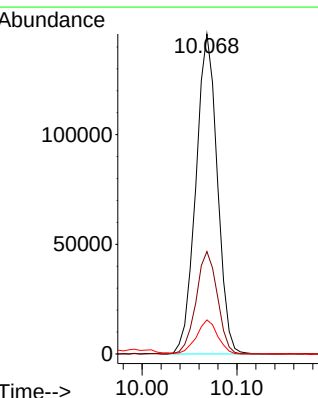
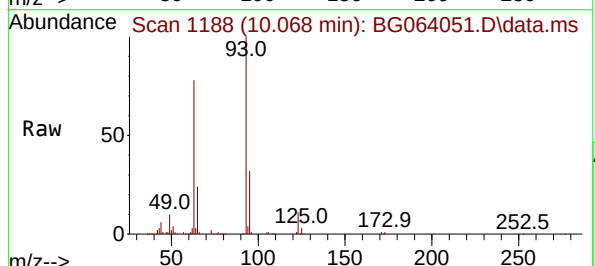
Tgt Ion: 93 Resp: 229336

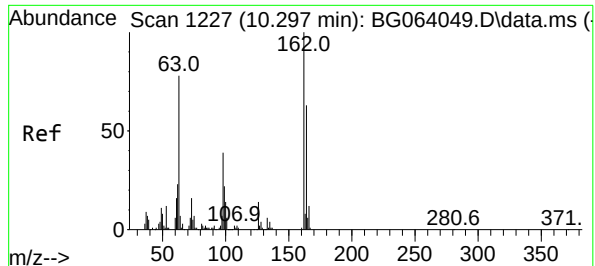
Ion Ratio Lower Upper

93 100

95 32.0 25.0 37.4

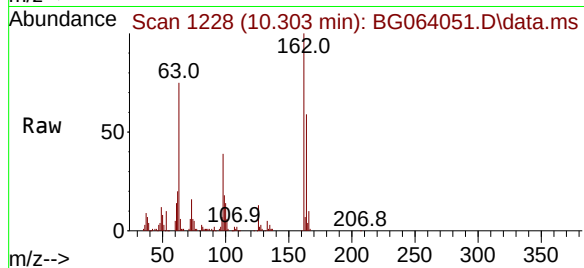
123 10.6 7.6 11.4





#29  
2,4-Dichlorophenol  
Concen: 65.920 ng  
RT: 10.303 min Scan# 1228  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

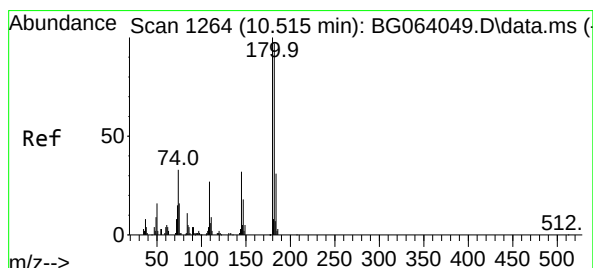
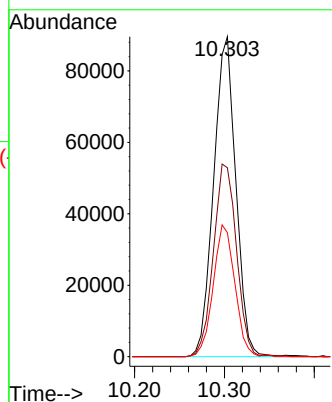
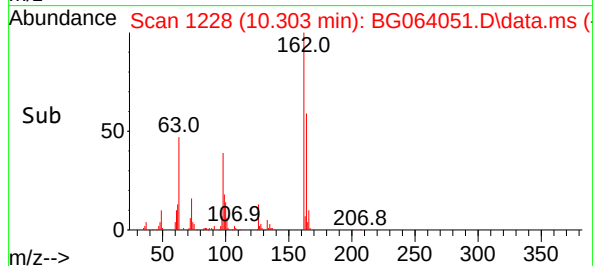
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:162 Resp: 153760  
Ion Ratio Lower Upper  
162 100  
164 59.0 42.8 82.8  
98 38.7 19.1 59.1

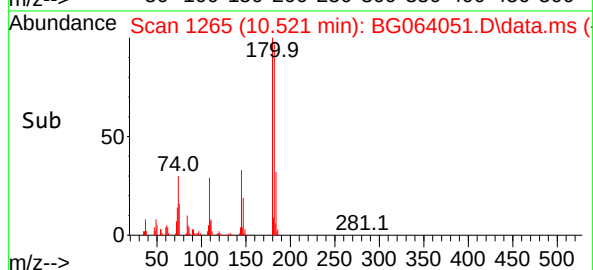
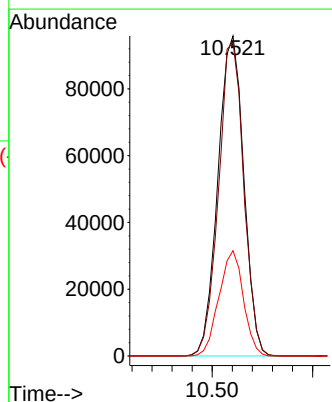
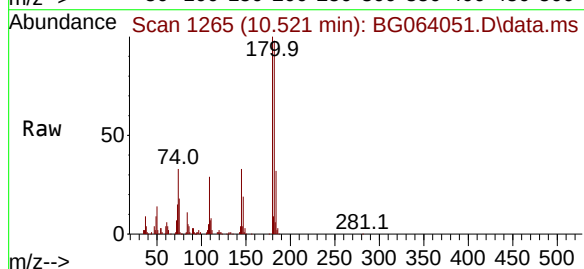
Manual Integrations  
APPROVED

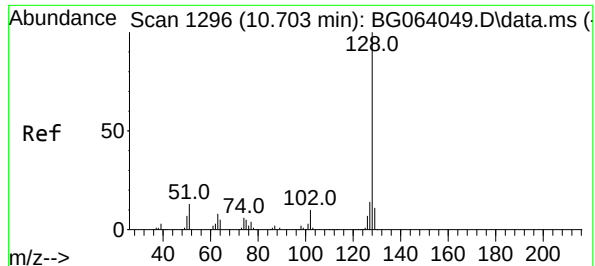
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#30  
1,2,4-Trichlorobenzene  
Concen: 60.677 ng  
RT: 10.521 min Scan# 1265  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

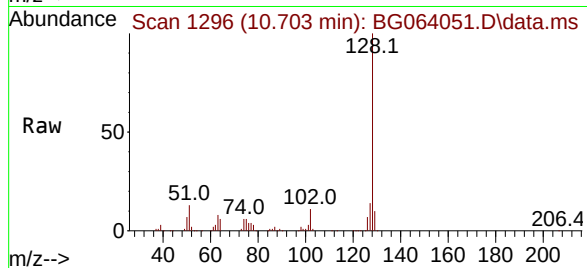
Tgt Ion:180 Resp: 170860  
Ion Ratio Lower Upper  
180 100  
182 98.1 77.3 115.9  
145 32.9 25.2 37.8





#31  
Naphthalene  
Concen: 61.037 ng  
RT: 10.703 min Scan# 1176  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

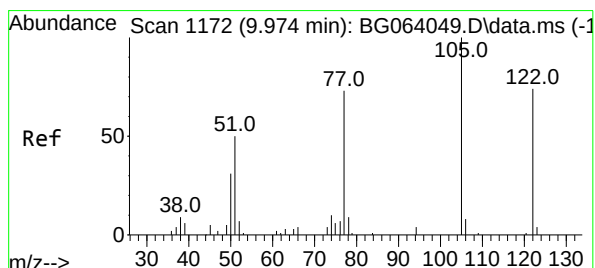
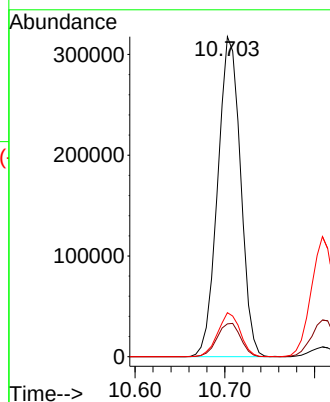
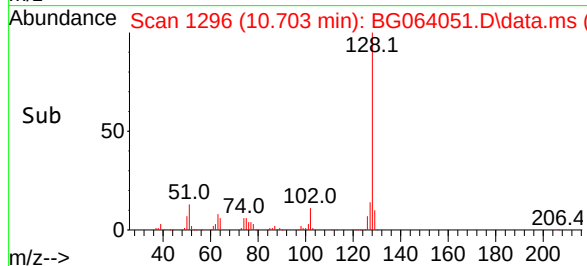
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:128 Resp: 559954  
Ion Ratio Lower Upper  
128 100  
129 10.2 8.4 12.6  
127 13.7 11.1 16.7

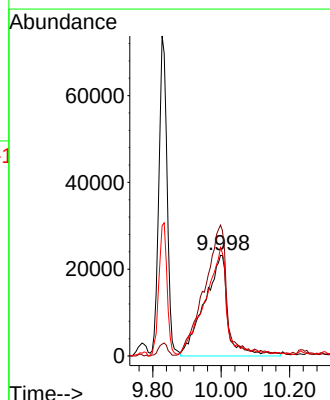
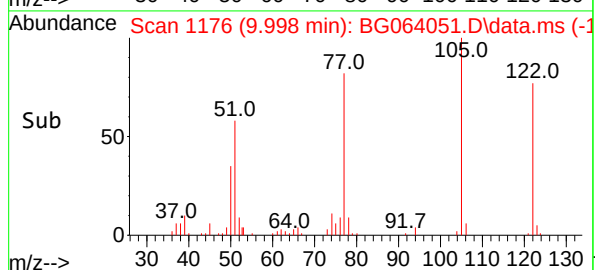
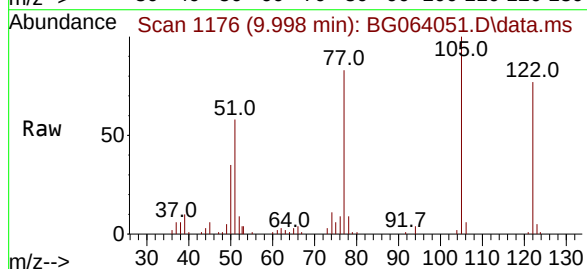
Manual Integrations  
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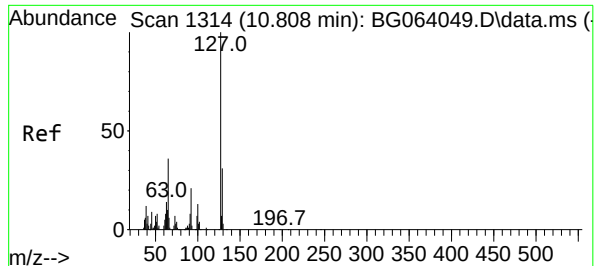
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#32  
Benzoic acid  
Concen: 62.274 ng m  
RT: 9.998 min Scan# 1176  
Delta R.T. 0.024 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

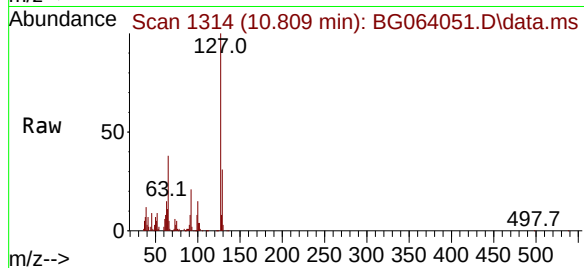
Tgt Ion:122 Resp: 110878  
Ion Ratio Lower Upper  
122 100  
105 130.0 115.0 155.0  
77 107.8 80.9 120.9





#33  
4-Chloroaniline  
Concen: 63.850 ng  
RT: 10.809 min Scan# 1314  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

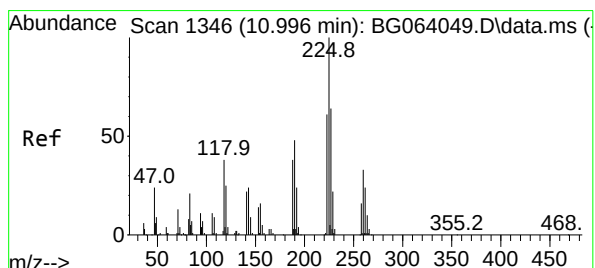
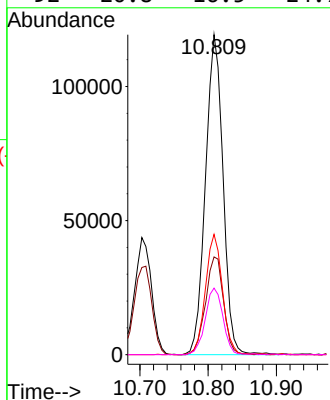
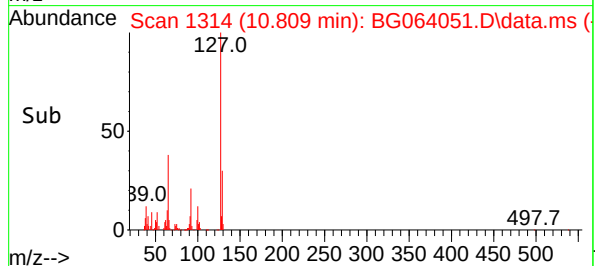
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



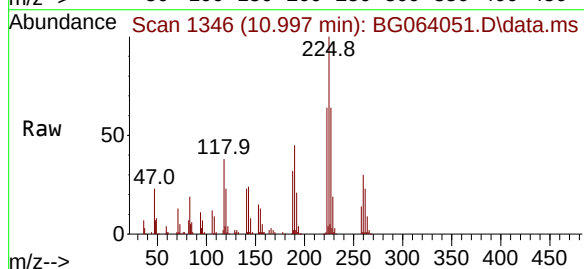
Tgt Ion:127 Resp: 21409  
Ion Ratio Lower Upper  
127 100  
129 30.5 25.0 37.4  
65 37.6 28.5 42.7  
92 20.8 16.5 24.7

Manual Integrations  
APPROVED

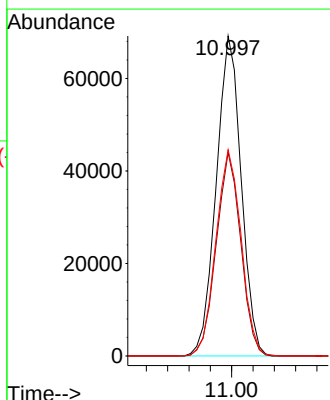
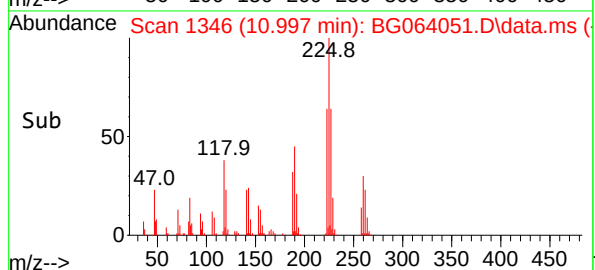
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

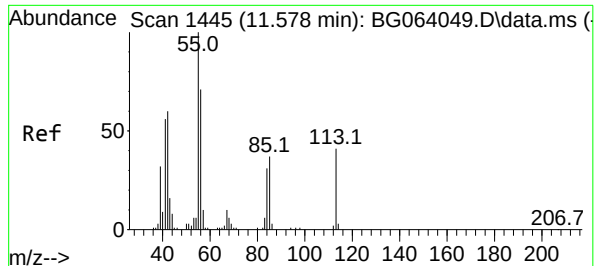


#34  
Hexachlorobutadiene  
Concen: 60.903 ng  
RT: 10.997 min Scan# 1346  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04



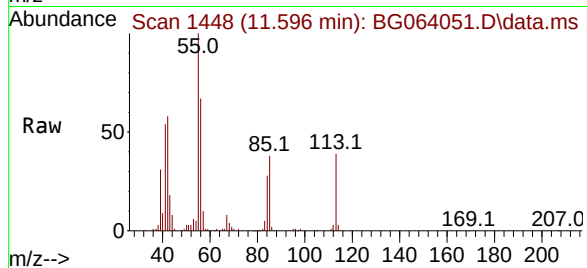
Tgt Ion:225 Resp: 112408  
Ion Ratio Lower Upper  
225 100  
223 63.6 48.5 72.7  
227 64.5 51.0 76.6





#35  
Caprolactam  
Concen: 64.020 ng  
RT: 11.596 min Scan# 1445  
Delta R.T. 0.018 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

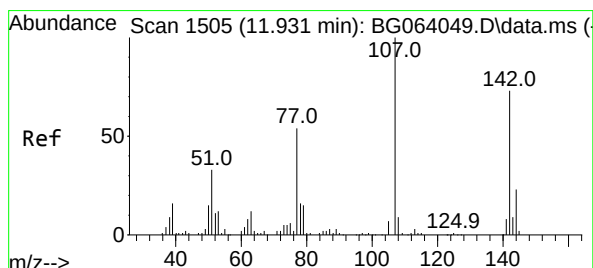
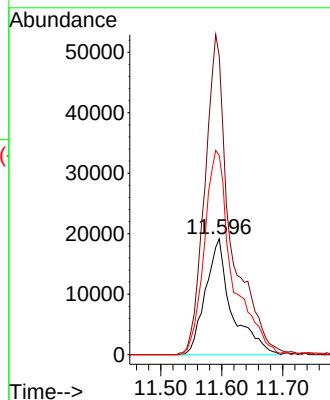
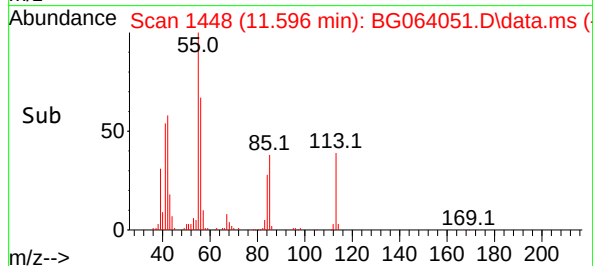
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:113 Resp: 5722  
Ion Ratio Lower Upper  
113 100  
55 257.6 225.2 265.2  
56 171.7 153.4 193.4

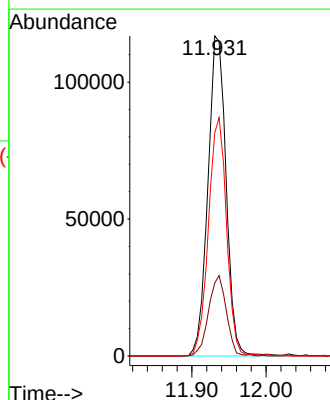
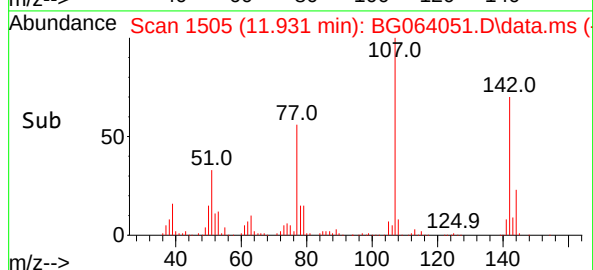
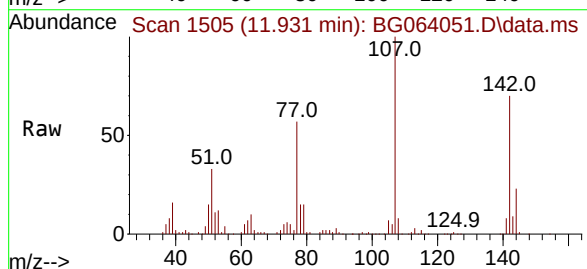
Manual Integrations  
APPROVED

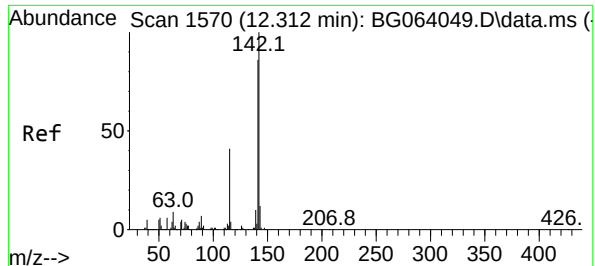
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#36  
4-Chloro-3-methylphenol  
Concen: 65.149 ng  
RT: 11.931 min Scan# 1505  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

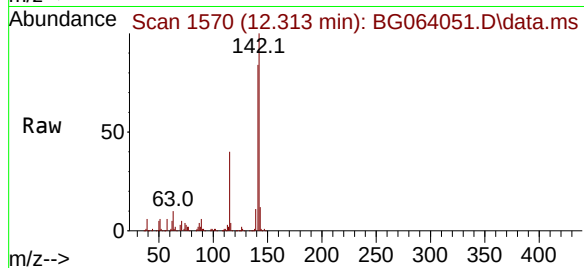
Tgt Ion:107 Resp: 199201  
Ion Ratio Lower Upper  
107 100  
144 22.8 18.6 28.0  
142 69.7 58.0 87.0





#37  
2-Methylnaphthalene  
Concen: 61.379 ng  
RT: 12.313 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

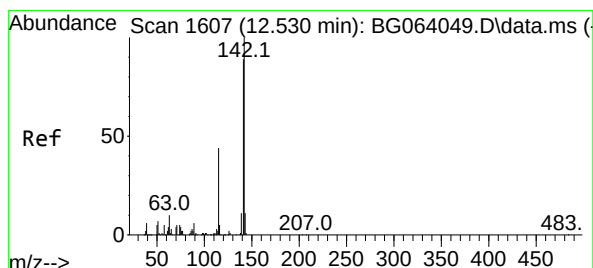
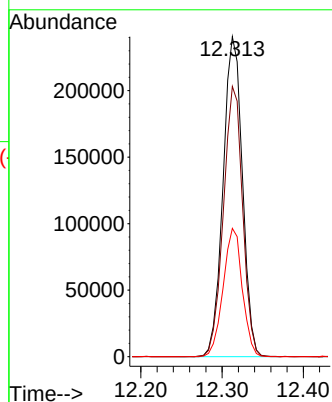
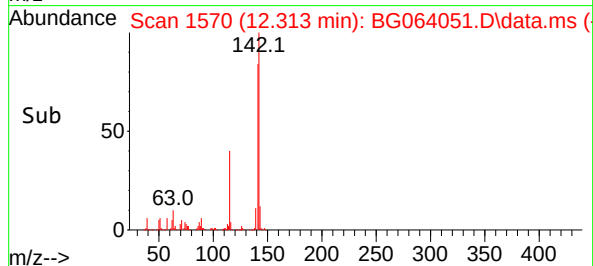
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:142 Resp: 397524  
Ion Ratio Lower Upper  
142 100  
141 84.5 68.6 103.0  
115 40.1 32.8 49.2

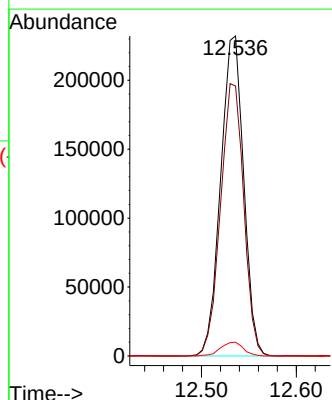
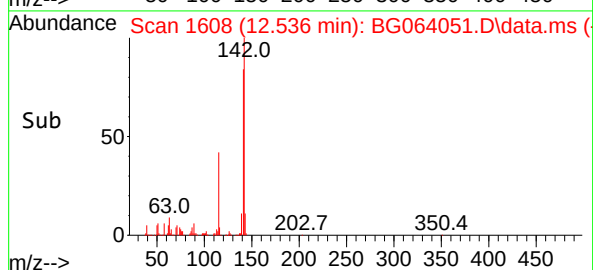
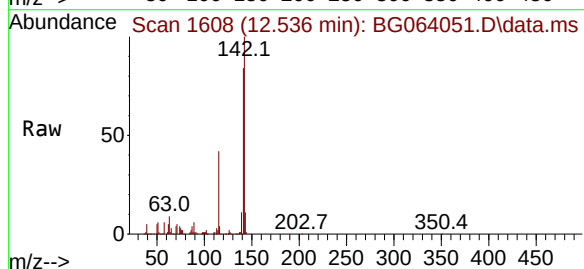
Manual Integrations  
APPROVED

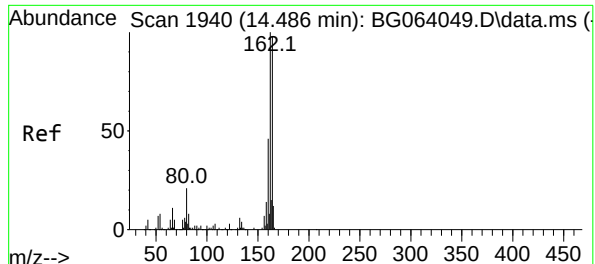
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#38  
1-Methylnaphthalene  
Concen: 61.745 ng  
RT: 12.536 min Scan# 1608  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

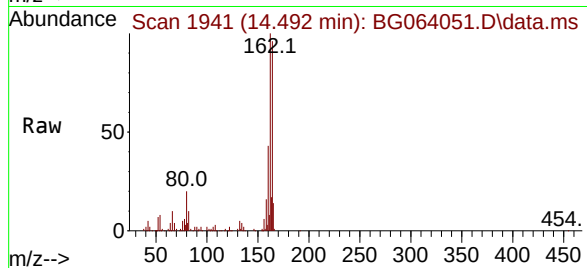
Tgt Ion:142 Resp: 391774  
Ion Ratio Lower Upper  
142 100  
141 84.3 71.2 106.8  
116 4.3 3.6 5.4





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.492 min Scan# 1941  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

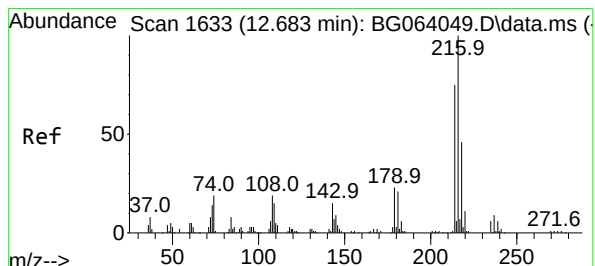
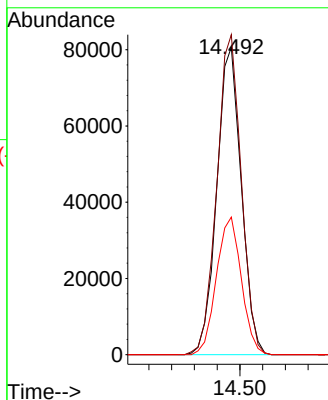
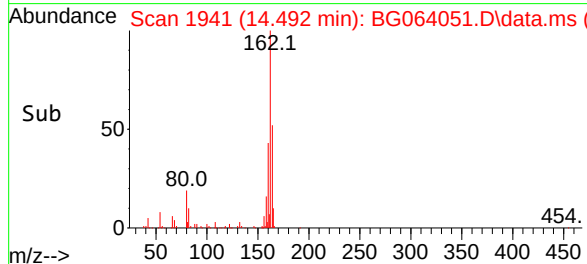
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:164 Resp: 12050  
Ion Ratio Lower Upper  
164 100  
162 104.0 81.4 122.0  
160 44.7 37.0 55.6

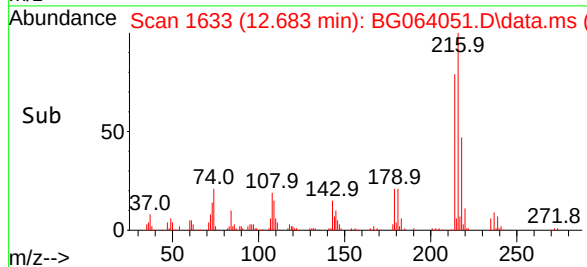
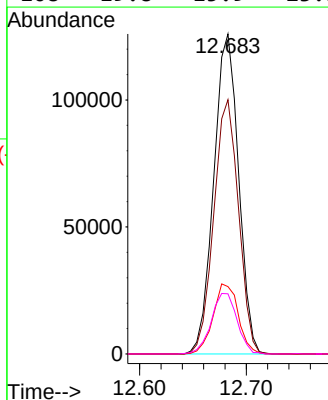
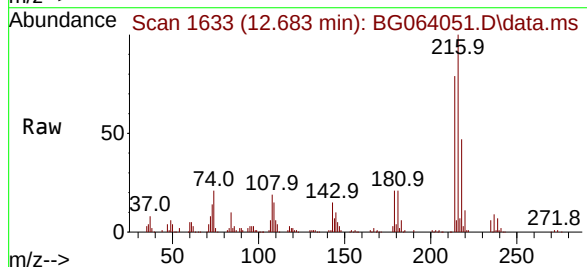
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

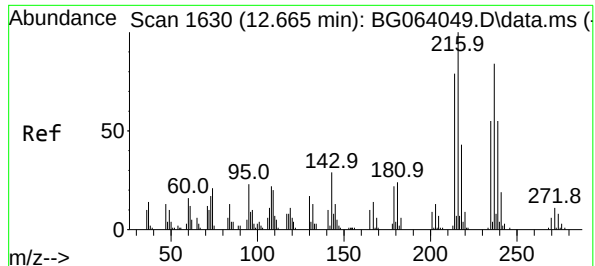


#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 59.063 ng  
RT: 12.683 min Scan# 1633  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

Tgt Ion:216 Resp: 203188  
Ion Ratio Lower Upper  
216 100  
214 79.3 61.7 92.5  
179 22.3 17.9 26.9  
108 19.8 15.9 23.9

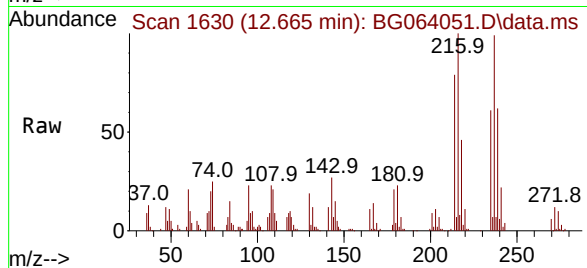






#41  
Hexachlorocyclopentadiene  
Concen: 67.203 ng  
RT: 12.665 min Scan# 1630  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

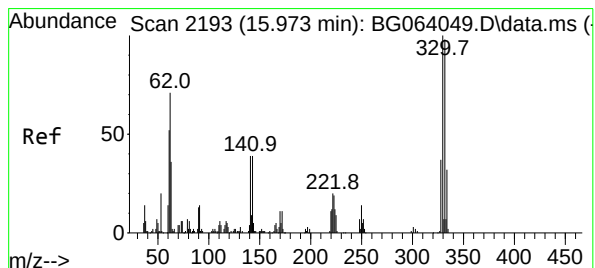
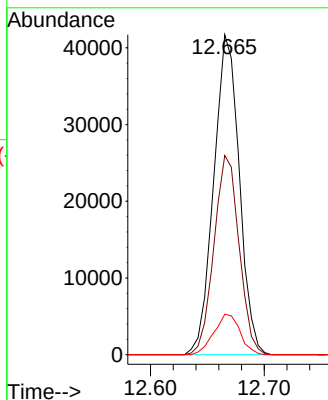
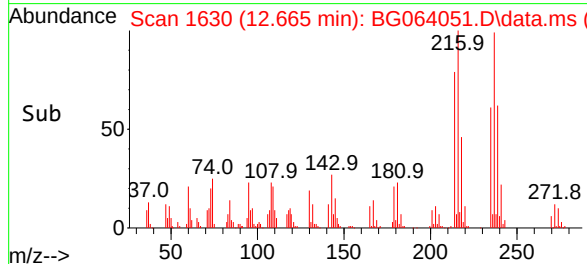
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:237 Resp: 65070  
Ion Ratio Lower Upper  
237 100  
235 62.2 46.0 86.0  
272 12.7 0.0 32.8

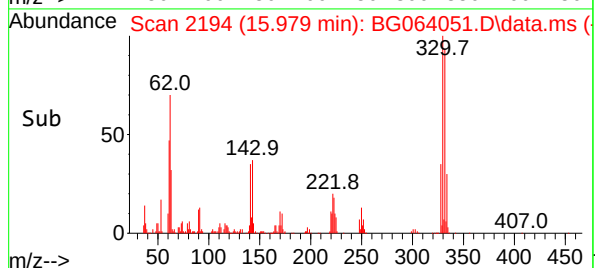
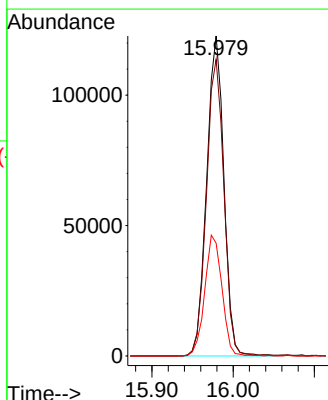
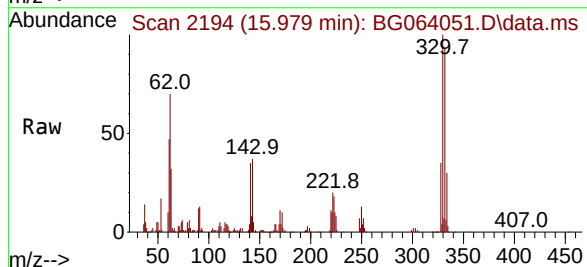
Manual Integrations  
APPROVED

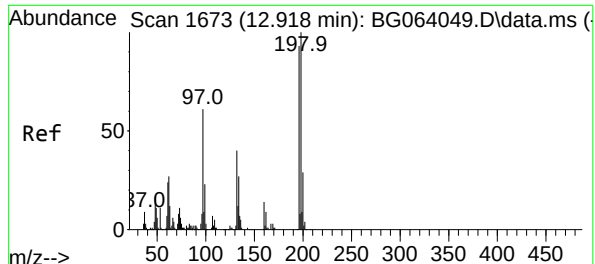
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#42  
2,4,6-Tribromophenol  
Concen: 134.808 ng  
RT: 15.979 min Scan# 2194  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

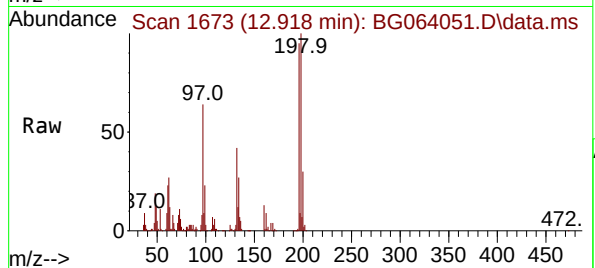
Tgt Ion:330 Resp: 180569  
Ion Ratio Lower Upper  
330 100  
332 93.7 76.7 115.1  
141 37.7 29.7 44.5





#43  
2,4,6-Trichlorophenol  
Concen: 65.693 ng  
RT: 12.918 min Scan# 1673  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

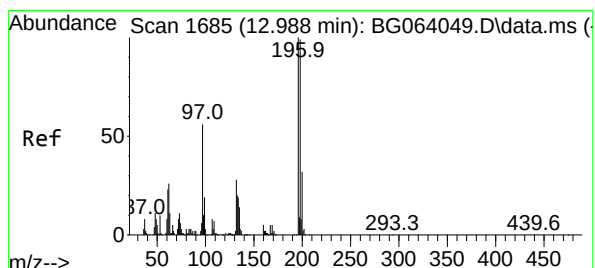
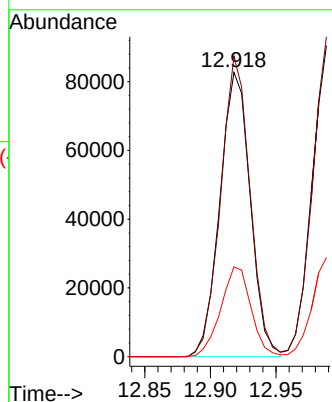
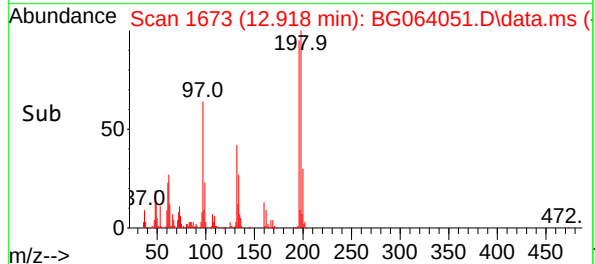
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:196 Resp: 13319  
Ion Ratio Lower Upper  
196 100  
198 105.7 85.6 128.4  
200 31.6 24.6 37.0

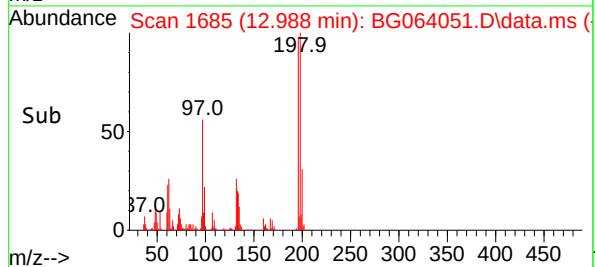
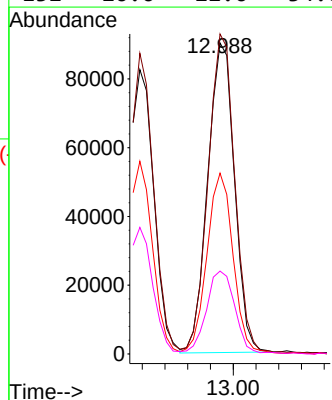
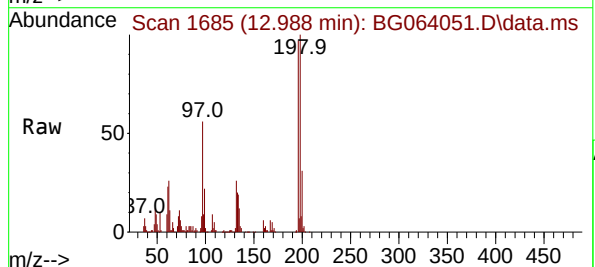
Manual Integrations  
APPROVED

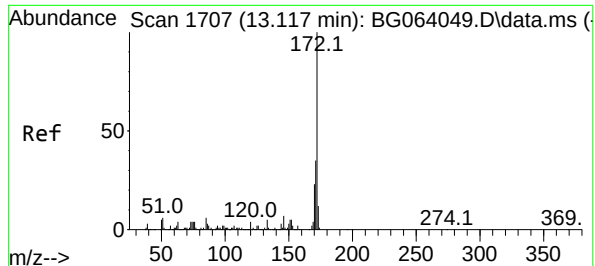
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#44  
2,4,5-Trichlorophenol  
Concen: 65.338 ng  
RT: 12.988 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

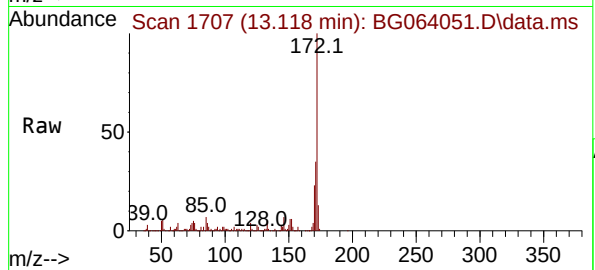
Tgt Ion:196 Resp: 147199  
Ion Ratio Lower Upper  
196 100  
198 102.9 79.5 119.3  
97 58.1 45.2 67.8  
132 26.6 22.6 34.0





#45  
2-Fluorobiphenyl  
Concen: 116.978 ng  
RT: 13.118 min Scan# 1707  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

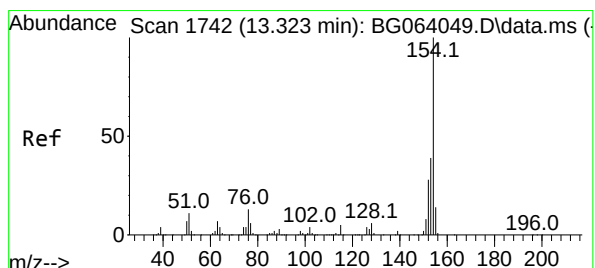
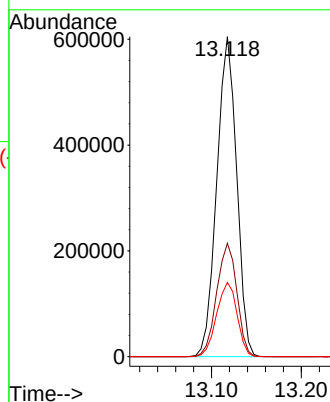
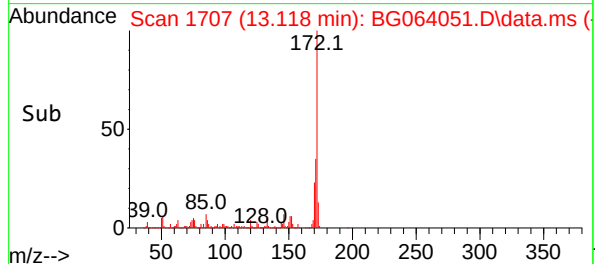
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



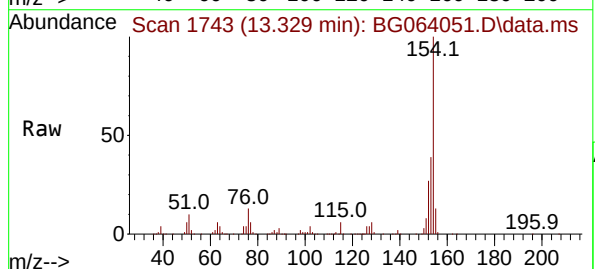
Tgt Ion:172 Resp: 928658  
Ion Ratio Lower Upper  
172 100  
171 35.5 28.0 42.0  
170 23.2 18.7 28.1

Manual Integrations  
APPROVED

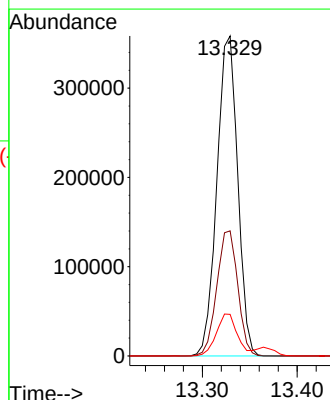
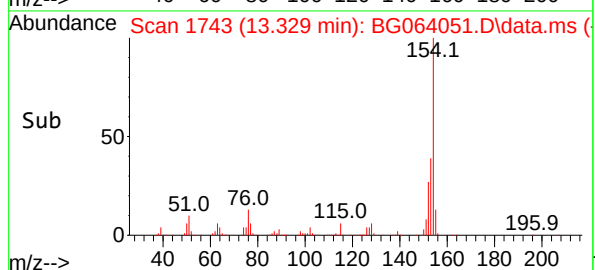
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

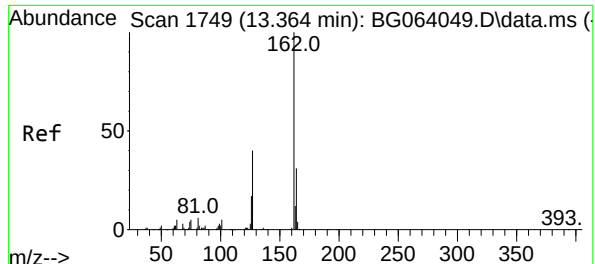


#46  
1,1'-Biphenyl  
Concen: 60.056 ng  
RT: 13.329 min Scan# 1743  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04



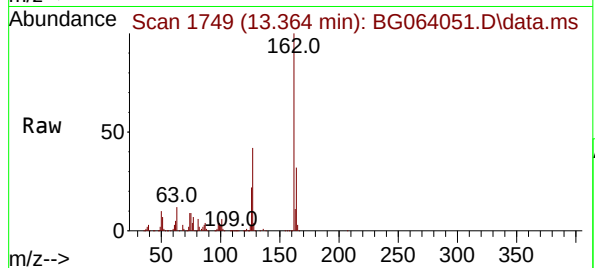
Tgt Ion:154 Resp: 546747  
Ion Ratio Lower Upper  
154 100  
153 39.1 19.5 59.5  
76 13.0 0.0 33.5





#47  
2-Chloronaphthalene  
Concen: 61.023 ng  
RT: 13.364 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

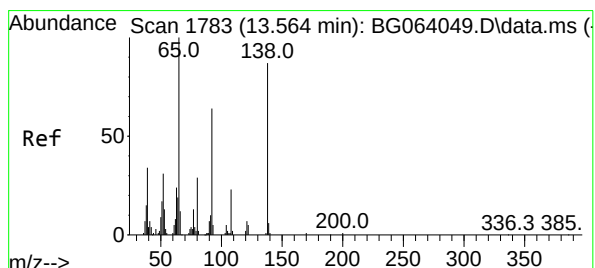
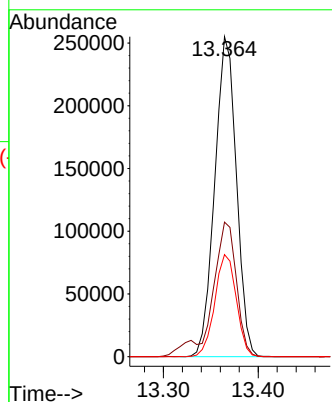
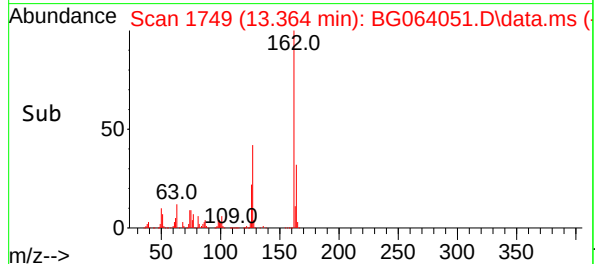
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:162 Resp: 40517  
Ion Ratio Lower Upper  
162 100  
127 42.1 35.0 52.4  
164 31.9 25.0 37.6

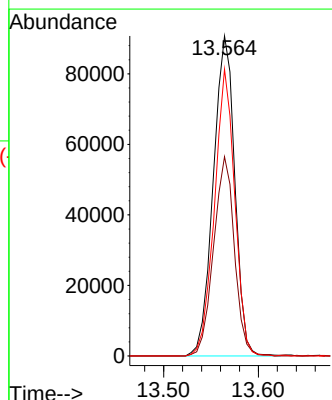
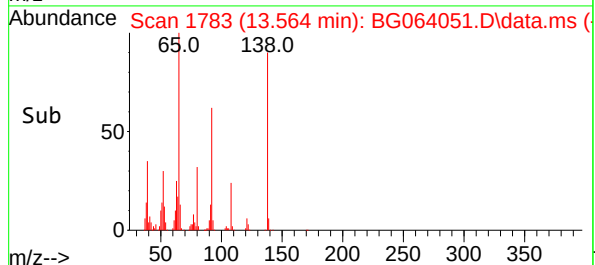
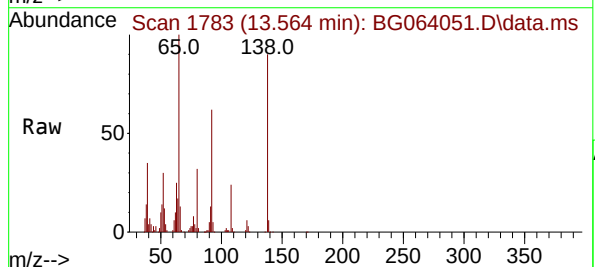
Manual Integrations  
APPROVED

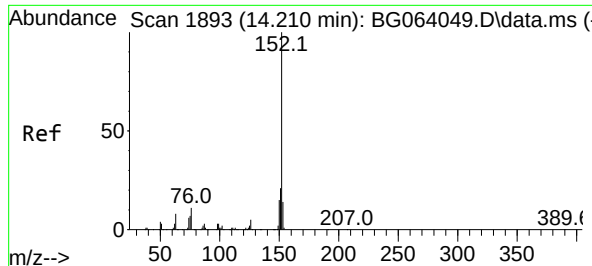
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#48  
2-Nitroaniline  
Concen: 61.521 ng  
RT: 13.564 min Scan# 1783  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

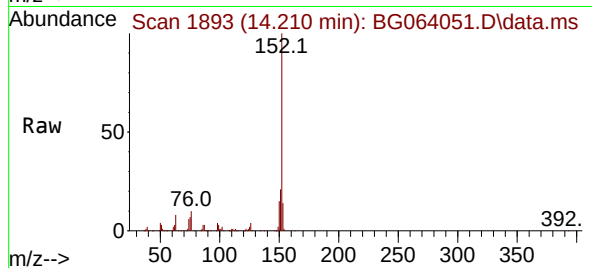
Tgt Ion: 65 Resp: 143213  
Ion Ratio Lower Upper  
65 100  
92 62.2 51.2 76.8  
138 89.6 69.4 104.2





#49  
Acenaphthylene  
Concen: 61.154 ng  
RT: 14.210 min Scan# 1893  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

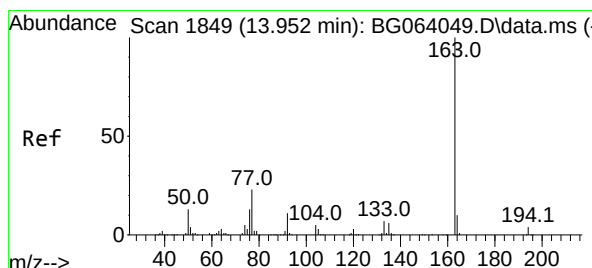
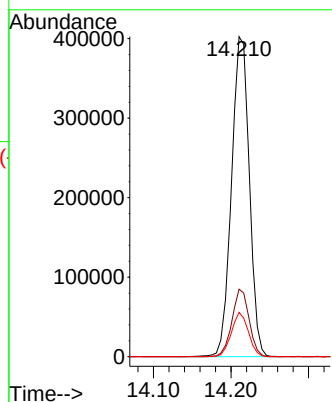
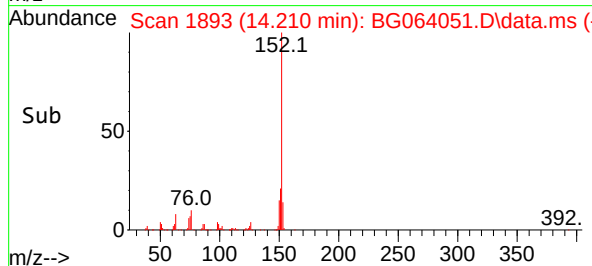
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:152 Resp: 642250  
Ion Ratio Lower Upper  
152 100  
151 21.1 16.4 24.6  
153 13.9 10.9 16.3

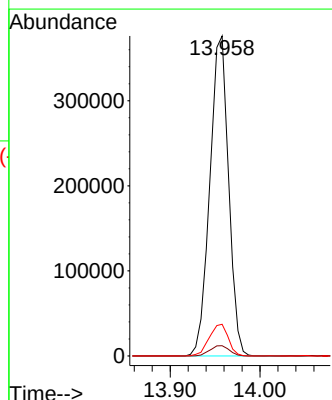
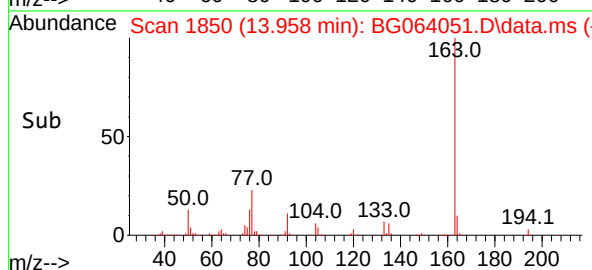
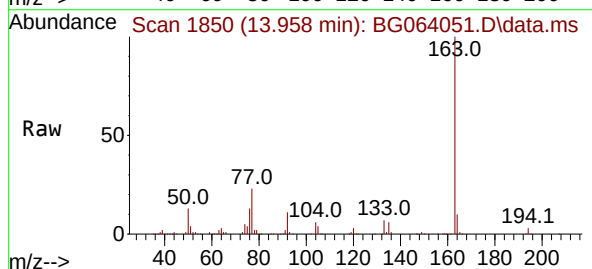
Manual Integrations  
APPROVED

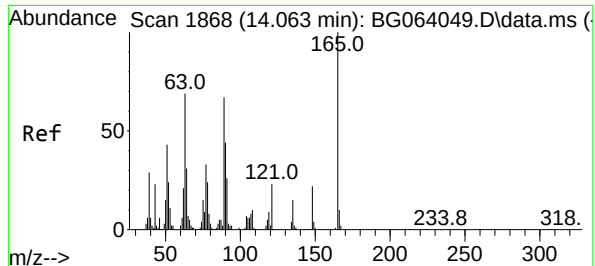
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#50  
Dimethylphthalate  
Concen: 61.282 ng  
RT: 13.958 min Scan# 1850  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

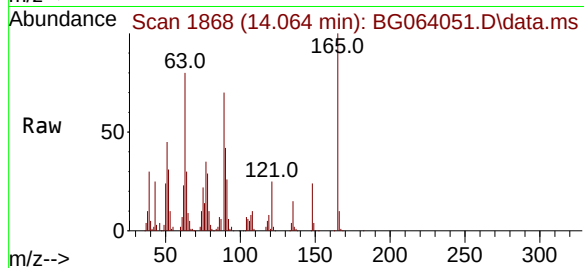
Tgt Ion:163 Resp: 545112  
Ion Ratio Lower Upper  
163 100  
194 3.2 2.8 4.2  
164 9.9 8.2 12.2





#51  
2,6-Dinitrotoluene  
Concen: 60.475 ng  
RT: 14.064 min Scan# 1868  
Delta R.T. 0.001 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

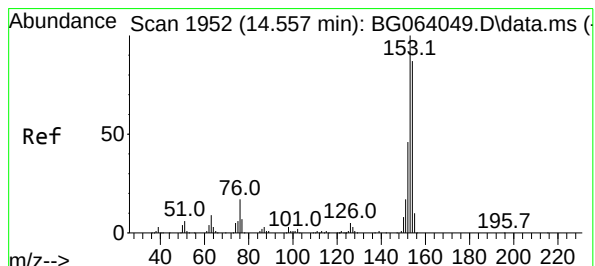
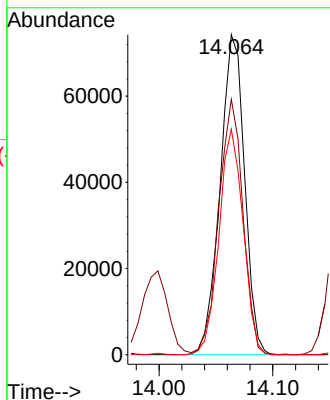
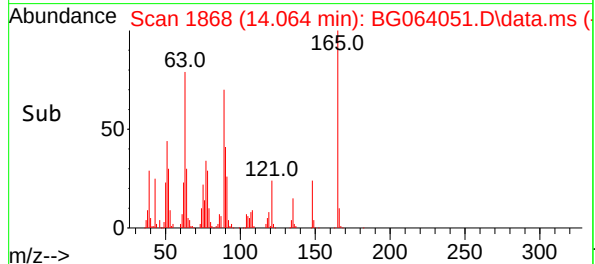
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:165 Resp: 110825  
Ion Ratio Lower Upper  
165 100  
63 79.8 56.7 85.1  
89 70.5 53.7 80.5

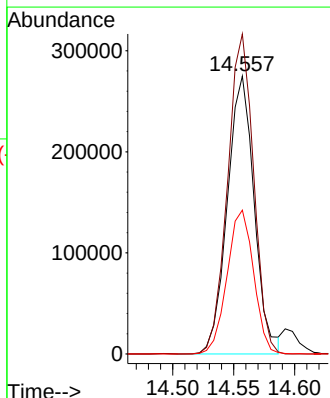
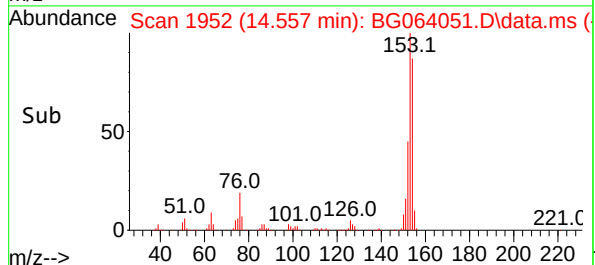
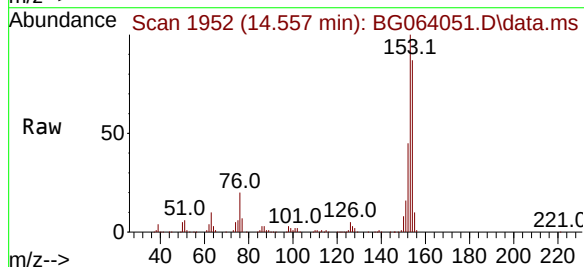
Manual Integrations  
APPROVED

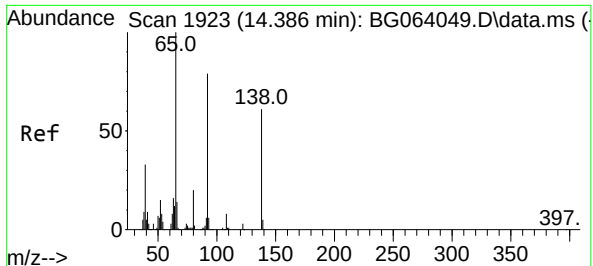
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#52  
Acenaphthene  
Concen: 59.918 ng  
RT: 14.557 min Scan# 1952  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

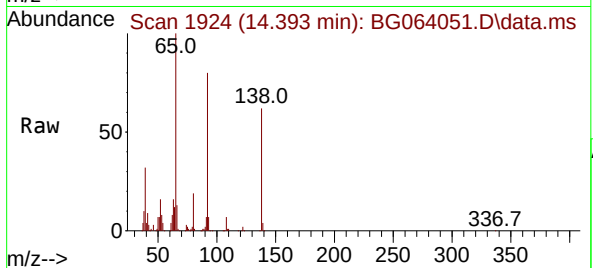
Tgt Ion:154 Resp: 423181  
Ion Ratio Lower Upper  
154 100  
153 115.2 91.6 137.4  
152 51.8 42.5 63.7





#53  
3-Nitroaniline  
Concen: 69.150 ng  
RT: 14.393 min Scan# 1924  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

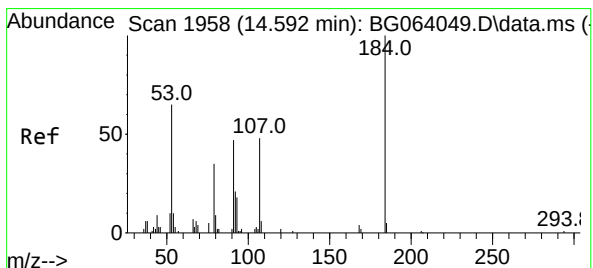
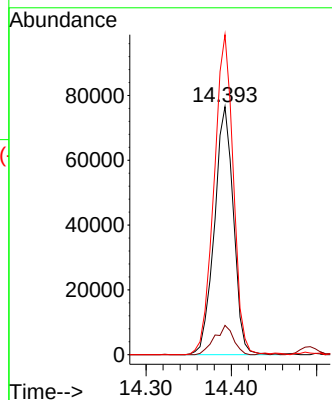
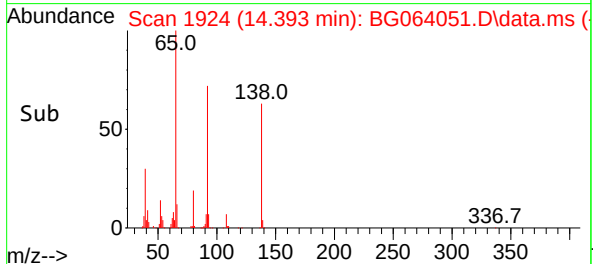
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:138 Resp: 118880  
Ion Ratio Lower Upper  
138 100  
108 11.8 10.1 15.1  
92 129.1 104.1 156.1

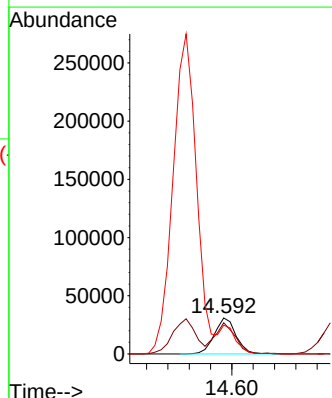
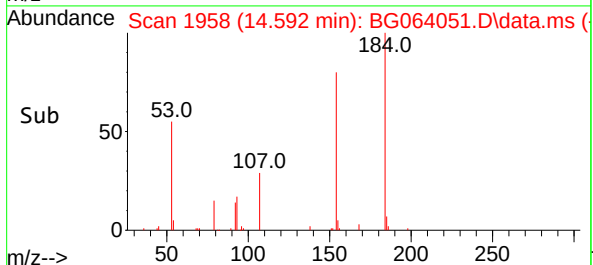
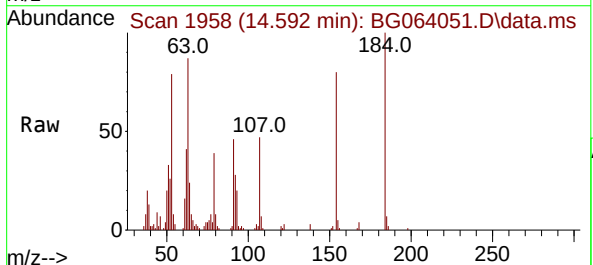
Manual Integrations  
APPROVED

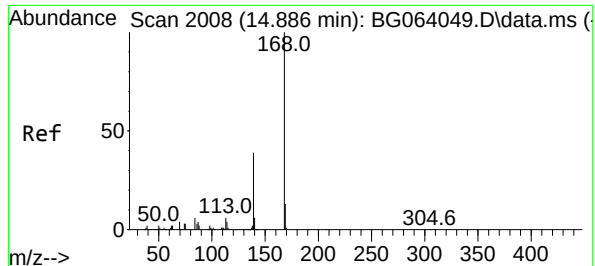
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#54  
2,4-Dinitrophenol  
Concen: 60.118 ng  
RT: 14.592 min Scan# 1958  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

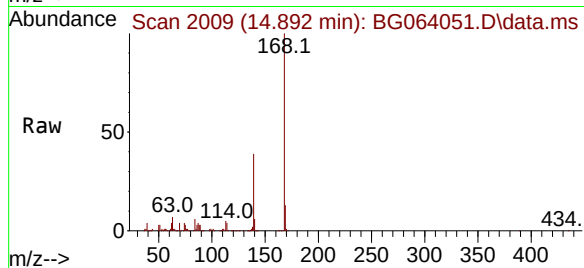
Tgt Ion:184 Resp: 43597  
Ion Ratio Lower Upper  
184 100  
63 86.6 57.5 86.3#  
154 80.0 52.3 78.5#





#55  
Dibenzenofuran  
Concen: 59.009 ng  
RT: 14.892 min Scan# 2009  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

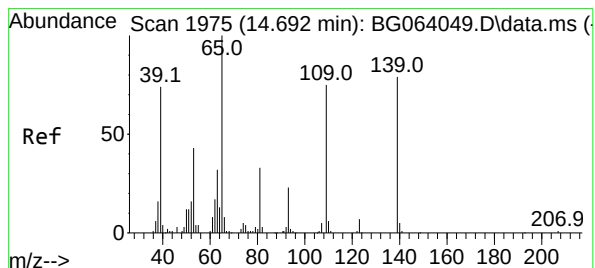
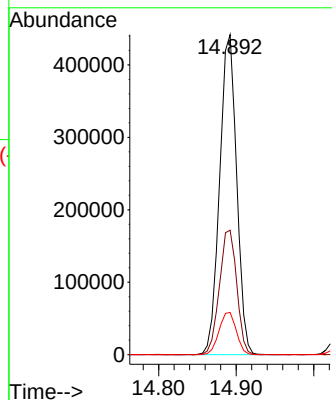
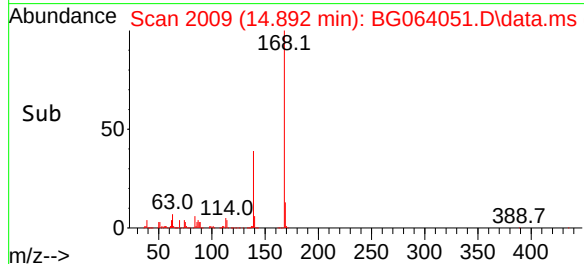
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:168 Resp: 673760  
Ion Ratio Lower Upper  
168 100  
139 38.9 31.1 46.7  
169 13.2 10.5 15.7

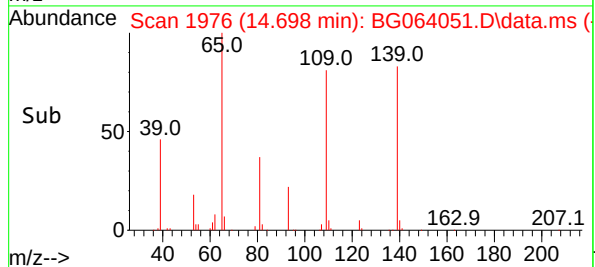
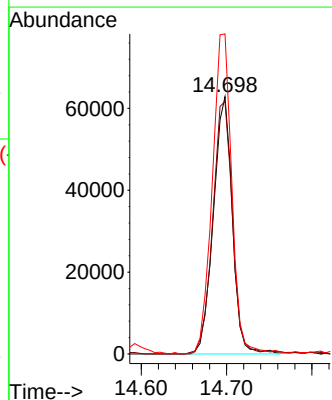
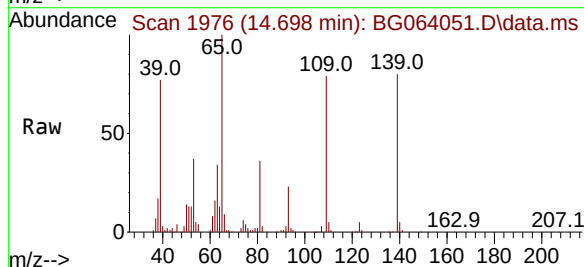
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

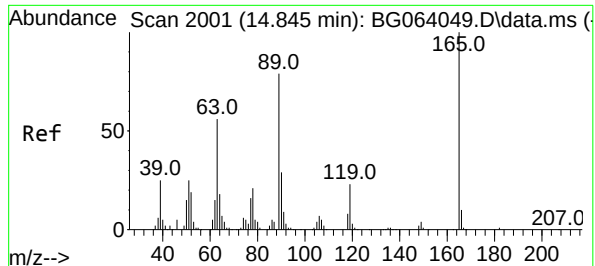


#56  
4-Nitrophenol  
Concen: 67.751 ng  
RT: 14.698 min Scan# 1976  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

Tgt Ion:139 Resp: 97685  
Ion Ratio Lower Upper  
139 100  
109 98.1 74.9 114.9  
65 124.4 106.8 146.8

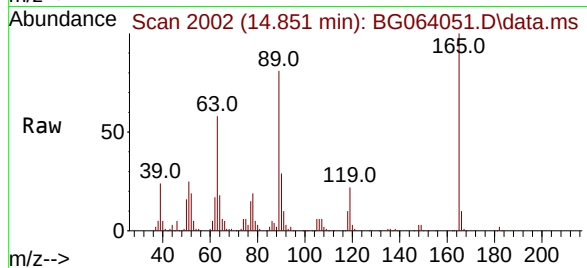






#57  
2,4-Dinitrotoluene  
Concen: 60.762 ng  
RT: 14.851 min Scan# 2001  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

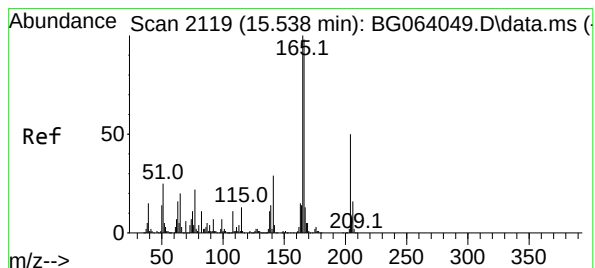
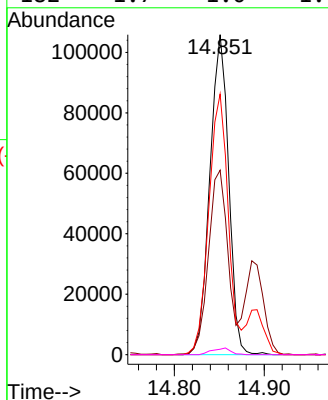
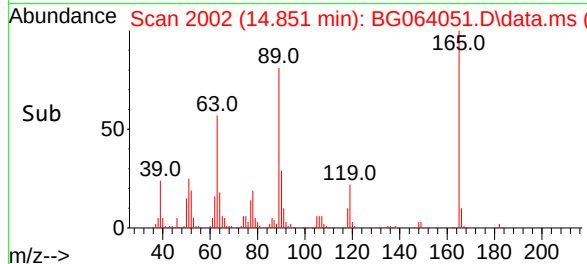
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:165 Resp: 153908  
Ion Ratio Lower Upper  
165 100  
63 57.7 45.0 67.6  
89 81.5 63.1 94.7  
182 1.7 1.0 1.4#

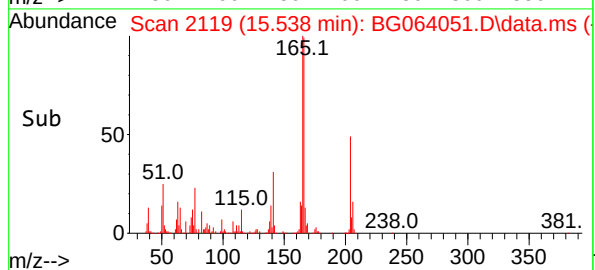
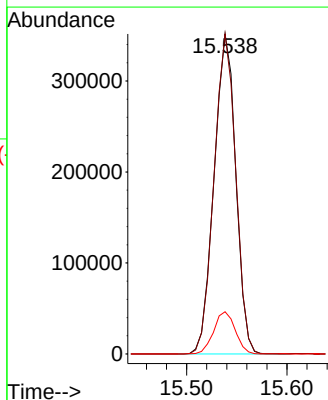
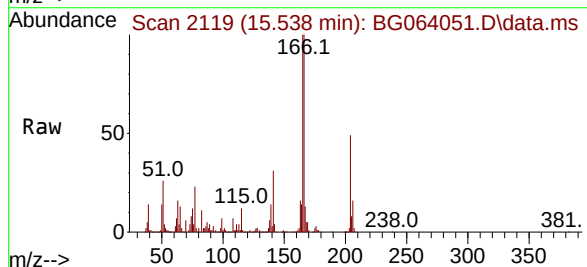
Manual Integrations  
APPROVED

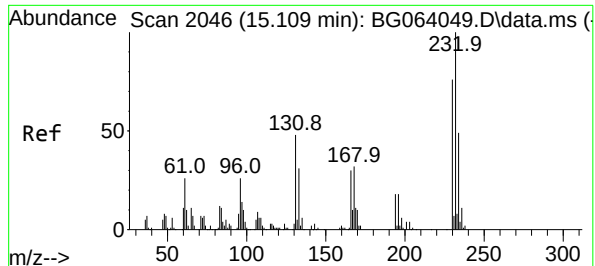
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#58  
Fluorene  
Concen: 59.367 ng  
RT: 15.538 min Scan# 2119  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

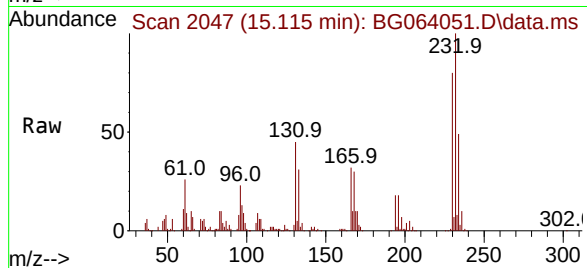
Tgt Ion:166 Resp: 527952  
Ion Ratio Lower Upper  
166 100  
165 100.0 81.8 122.8  
167 13.2 10.8 16.2





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 66.199 ng  
RT: 15.115 min Scan# 2047  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

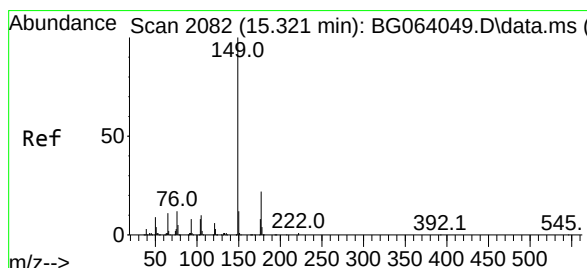
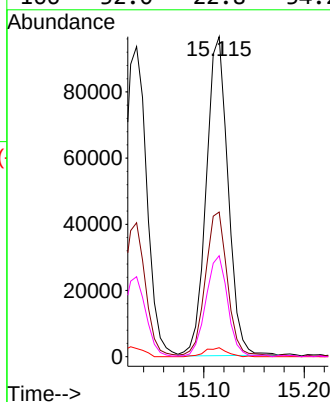
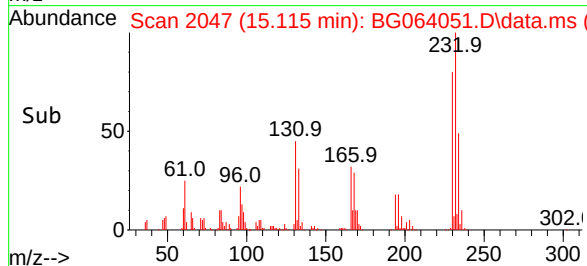
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:232 Resp: 145394  
Ion Ratio Lower Upper  
232 100  
131 46.7 36.3 54.5  
130 2.9 1.9 2.9  
166 32.0 22.8 34.2

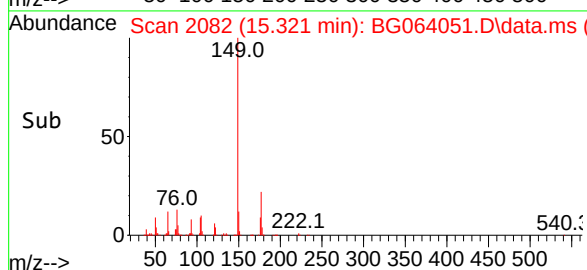
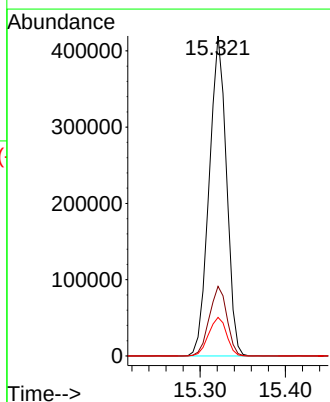
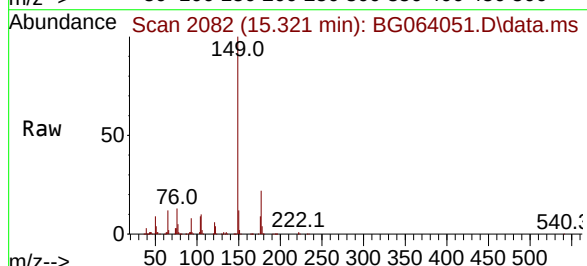
Manual Integrations  
APPROVED

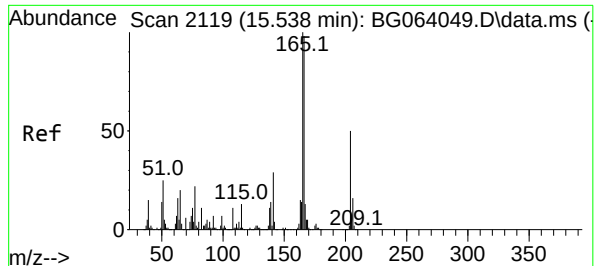
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#60  
Diethylphthalate  
Concen: 61.289 ng  
RT: 15.321 min Scan# 2082  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

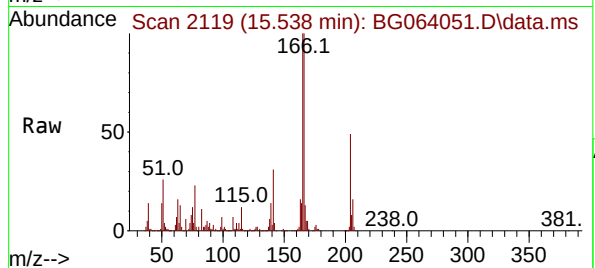
Tgt Ion:149 Resp: 591838  
Ion Ratio Lower Upper  
149 100  
177 21.8 17.4 26.2  
150 12.0 9.4 14.2





#61  
4-Chlorophenyl-phenylether  
Concen: 59.007 ng  
RT: 15.538 min Scan# 2119  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

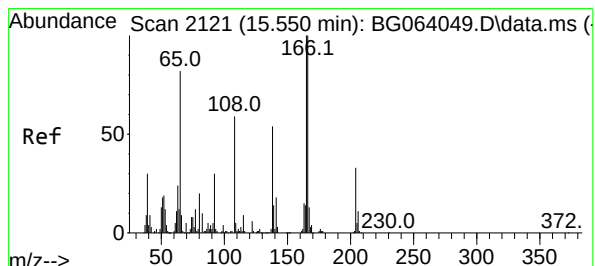
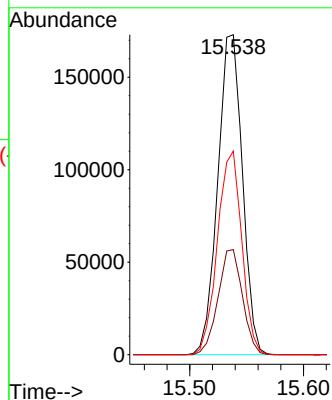
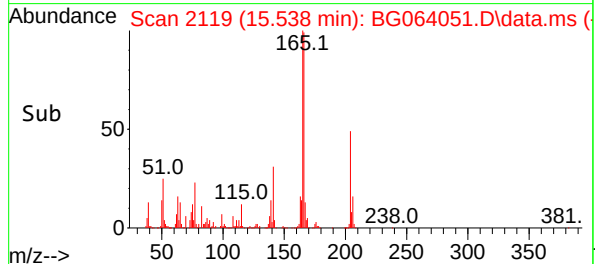
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



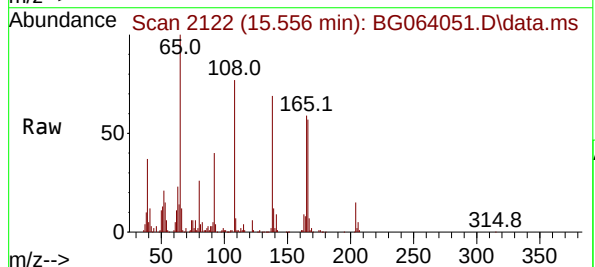
Tgt Ion:204 Resp: 260768  
Ion Ratio Lower Upper  
204 100  
206 32.8 25.5 38.3  
141 63.7 45.4 68.0

Manual Integrations  
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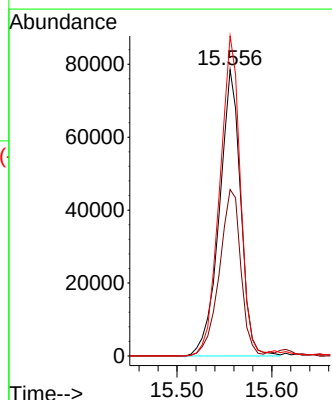
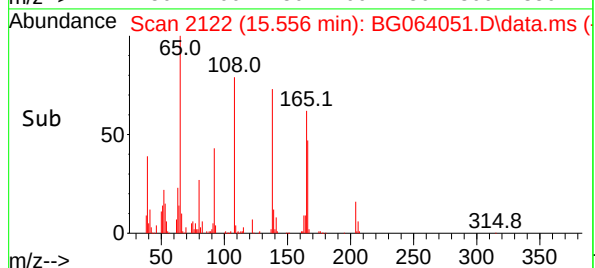
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

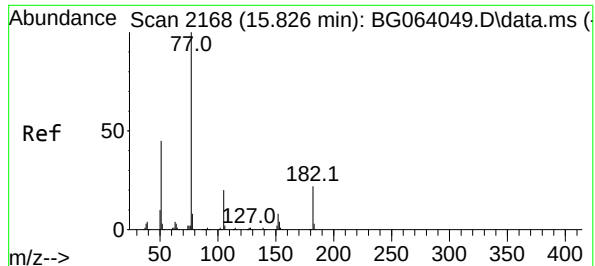


#62  
4-Nitroaniline  
Concen: 65.996 ng  
RT: 15.556 min Scan# 2122  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04



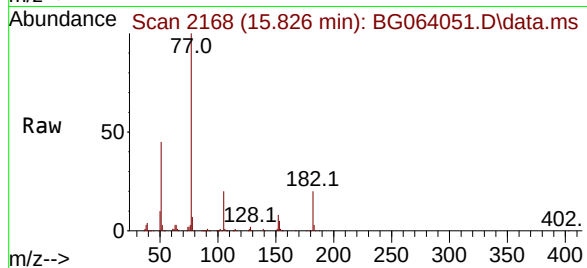
Tgt Ion:138 Resp: 122494  
Ion Ratio Lower Upper  
138 100  
92 58.1 36.1 76.1  
108 111.8 87.9 127.9





#63  
Azobenzene  
Concen: 59.818 ng  
RT: 15.826 min Scan# 2168  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

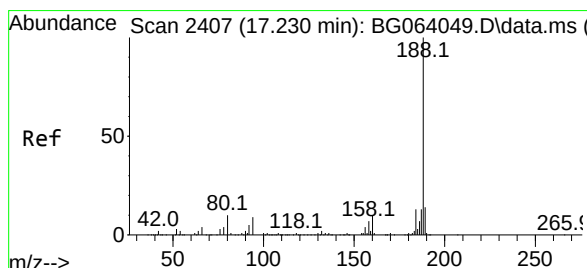
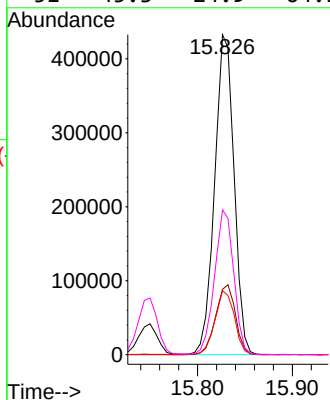
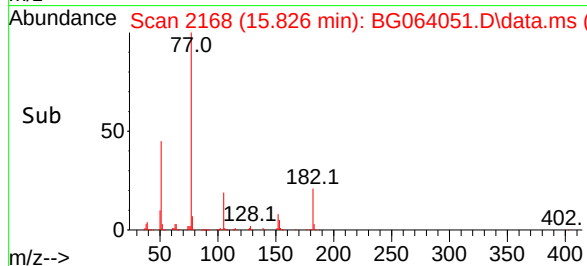
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



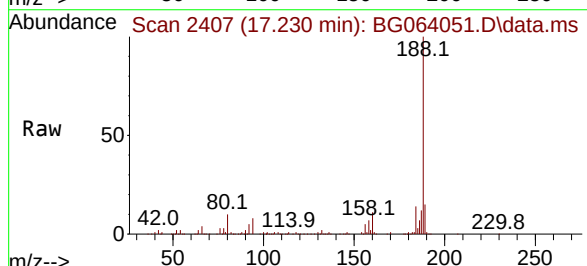
Tgt Ion: 77 Resp: 616384  
Ion Ratio Lower Upper  
77 100  
182 20.4 2.4 42.4  
105 20.0 0.0 40.0  
51 45.3 24.9 64.9

Manual Integrations  
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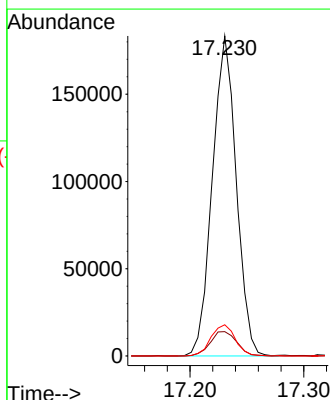
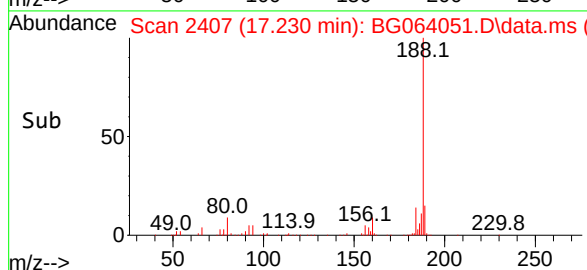
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

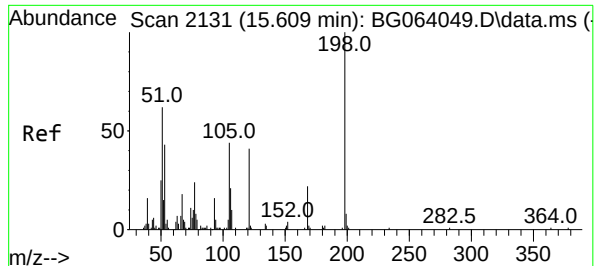


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.230 min Scan# 2407  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04



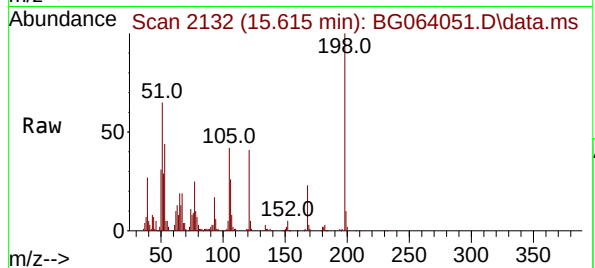
Tgt Ion:188 Resp: 267696  
Ion Ratio Lower Upper  
188 100  
94 7.6 6.9 10.3  
80 9.8 8.1 12.1





#65  
4,6-Dinitro-2-methylphenol  
Concen: 61.305 ng  
RT: 15.615 min Scan# 2132  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

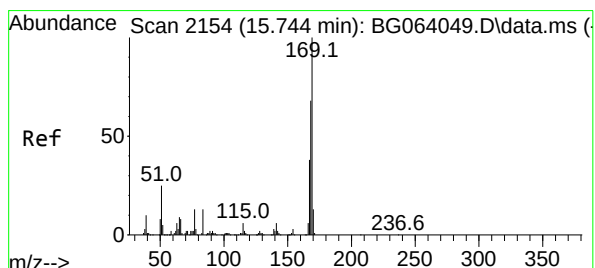
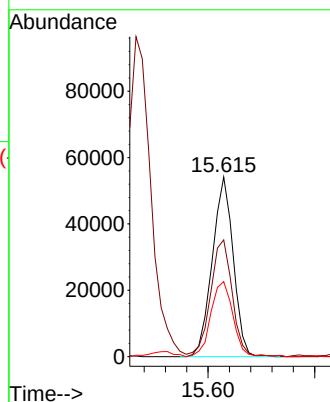
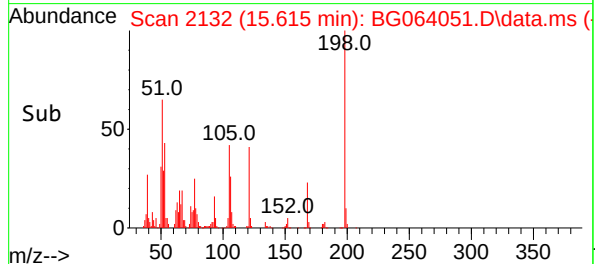
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:198 Resp: 74058  
Ion Ratio Lower Upper  
198 100  
51 65.1 45.6 85.6  
105 41.7 25.3 65.3

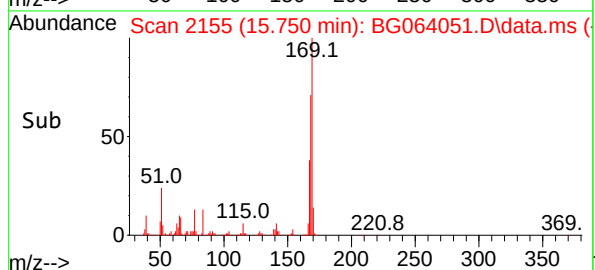
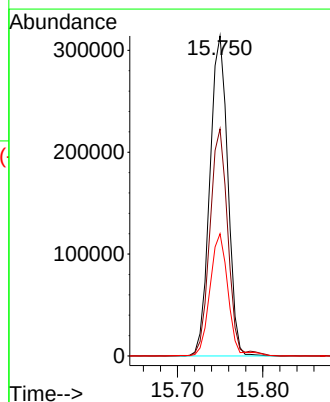
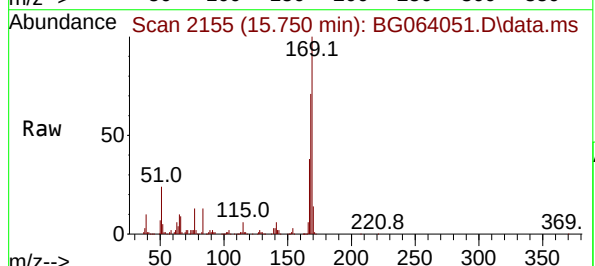
Manual Integrations  
APPROVED

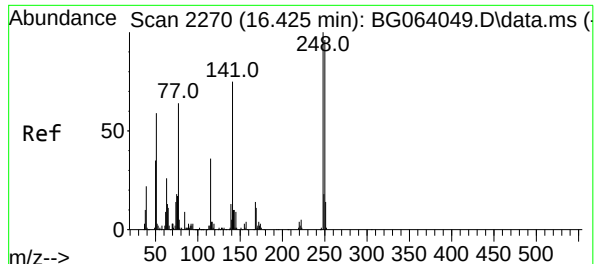
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#66  
n-Nitrosodiphenylamine  
Concen: 60.488 ng  
RT: 15.750 min Scan# 2155  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

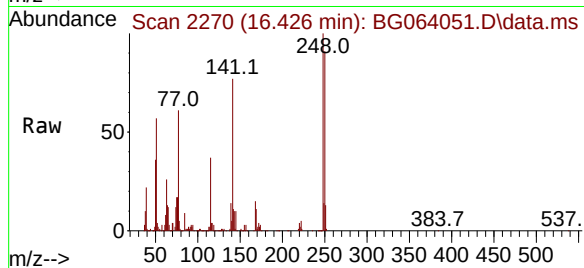
Tgt Ion:169 Resp: 458342  
Ion Ratio Lower Upper  
169 100  
168 71.0 54.1 81.1  
167 38.2 30.3 45.5





#67  
4-Bromophenyl-phenylether  
Concen: 63.681 ng  
RT: 16.426 min Scan# 2190  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

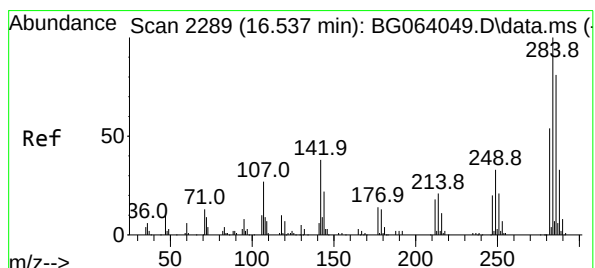
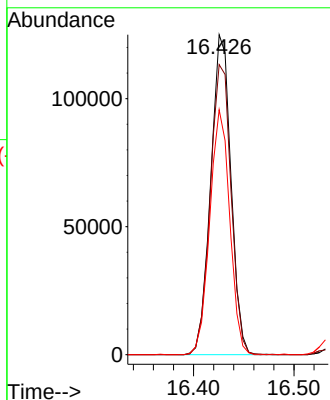
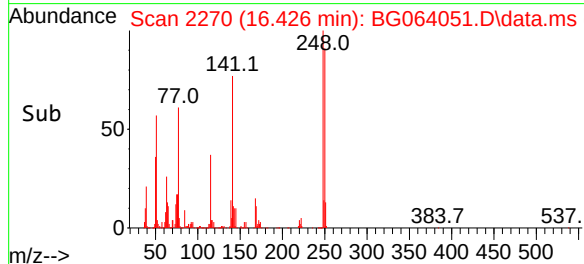
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



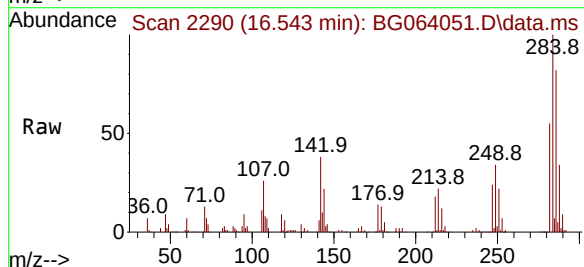
Tgt Ion:248 Resp: 174594  
Ion Ratio Lower Upper  
248 100  
250 90.7 77.1 115.7  
141 76.6 59.8 89.8

Manual Integrations  
APPROVED

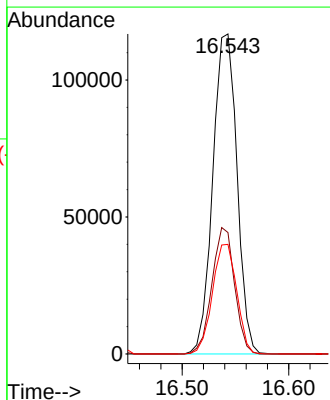
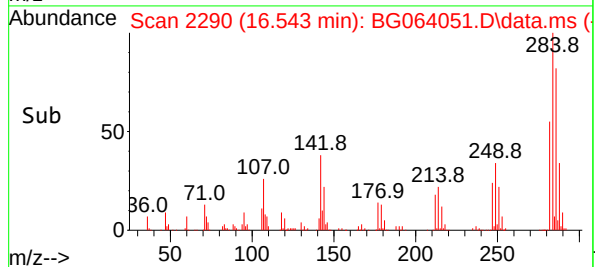
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

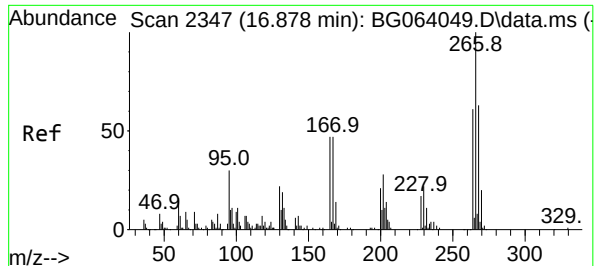


#68  
Hexachlorobenzene  
Concen: 59.848 ng  
RT: 16.543 min Scan# 2290  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04



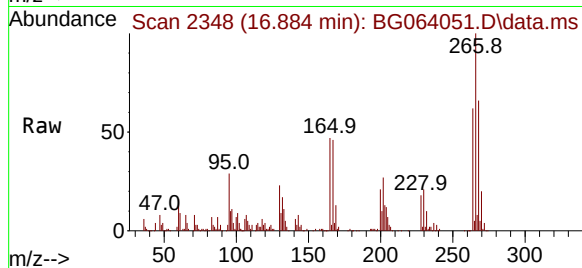
Tgt Ion:284 Resp: 183700  
Ion Ratio Lower Upper  
284 100  
142 37.9 30.6 45.8  
249 34.3 26.6 39.8





#70  
Pentachlorophenol  
Concen: 66.910 ng  
RT: 16.884 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

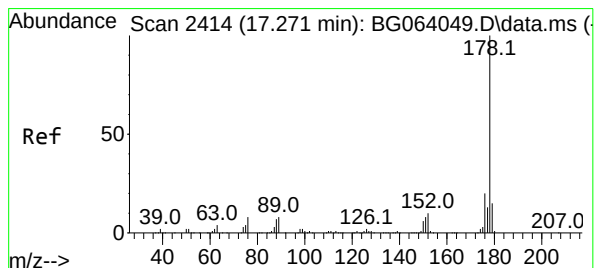
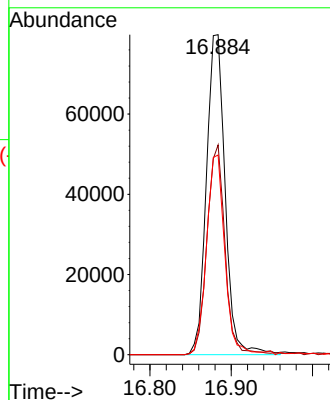
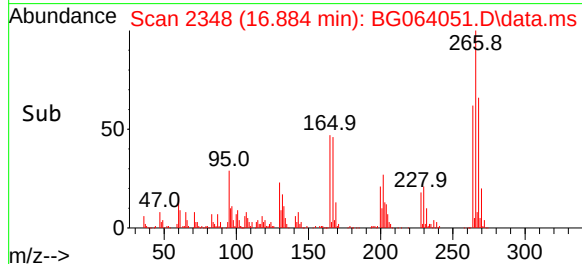
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:266 Resp: 127510  
Ion Ratio Lower Upper  
266 100  
268 65.5 50.2 75.4  
264 62.4 48.9 73.3

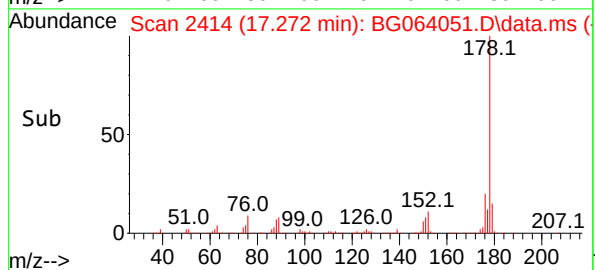
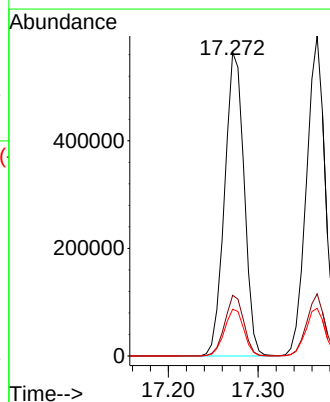
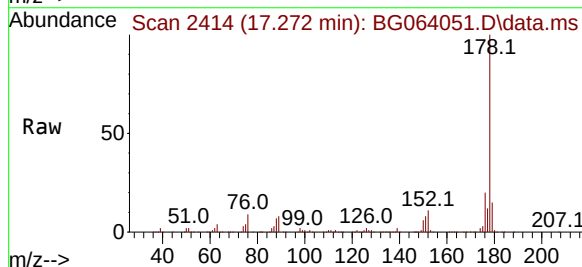
Manual Integrations  
APPROVED

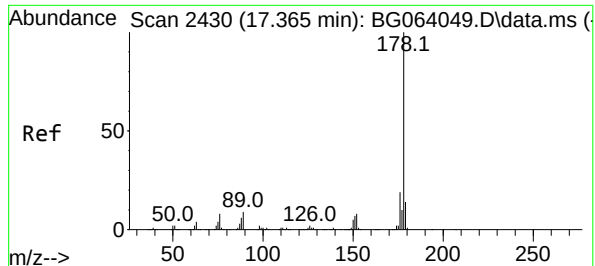
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#71  
Phenanthrene  
Concen: 59.544 ng  
RT: 17.272 min Scan# 2414  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

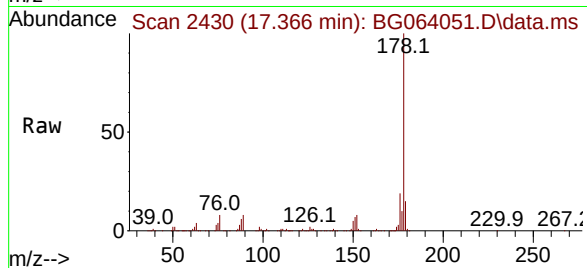
Tgt Ion:178 Resp: 850190  
Ion Ratio Lower Upper  
178 100  
176 20.0 15.9 23.9  
179 15.4 12.2 18.2





#72  
 Anthracene  
 Concen: 60.267 ng  
 RT: 17.366 min Scan# 2430  
 Delta R.T. 0.000 min  
 Lab File: BG064051.D  
 Acq: 5 Mar 2025 13:04

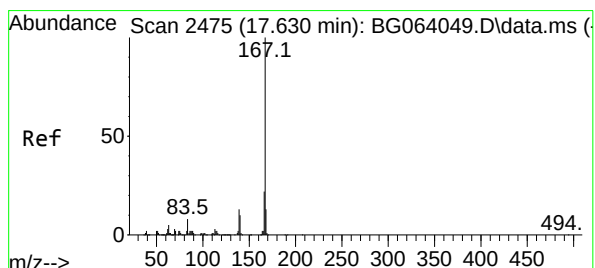
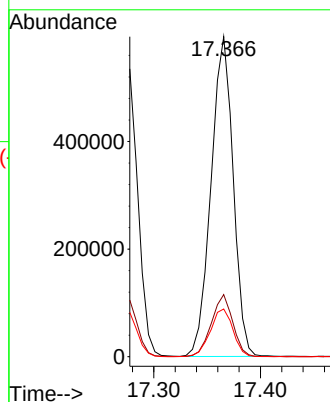
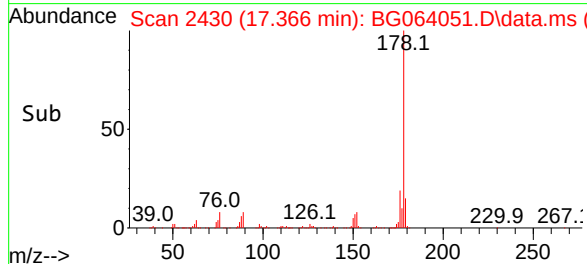
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTDICC060



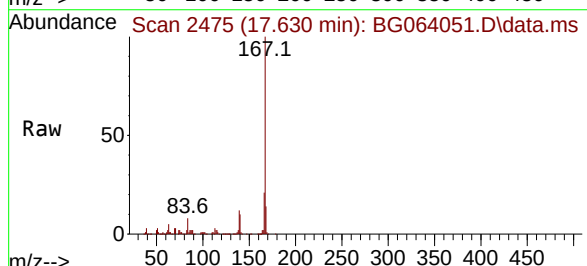
Tgt Ion:178 Resp: 855662  
 Ion Ratio Lower Upper  
 178 100  
 176 19.4 14.8 22.2  
 179 14.9 11.5 17.3

Manual Integrations  
 APPROVED

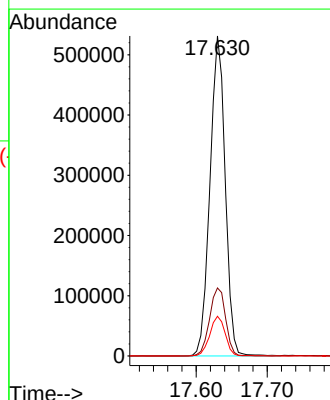
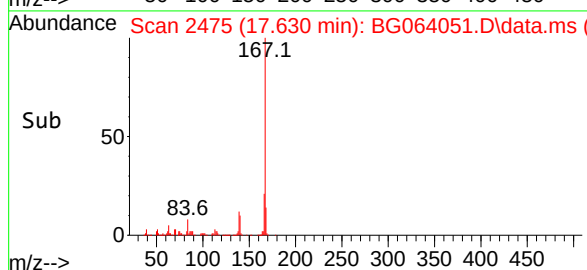
Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025



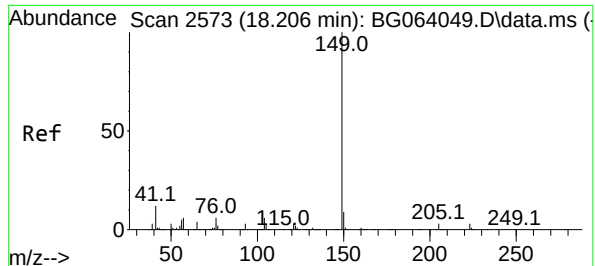
#73  
 Carbazole  
 Concen: 59.729 ng  
 RT: 17.630 min Scan# 2475  
 Delta R.T. 0.000 min  
 Lab File: BG064051.D  
 Acq: 5 Mar 2025 13:04



Tgt Ion:167 Resp: 791764  
 Ion Ratio Lower Upper  
 167 100  
 166 21.2 18.0 27.0  
 139 12.4 10.6 15.8

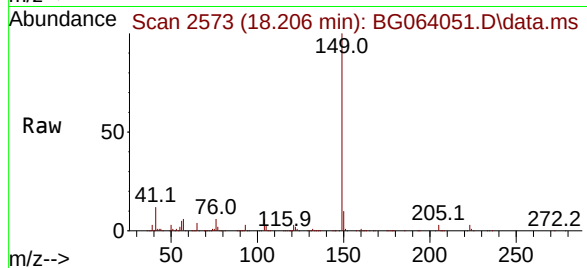






#74  
Di-n-butylphthalate  
Concen: 62.731 ng  
RT: 18.206 min Scan# 2573  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

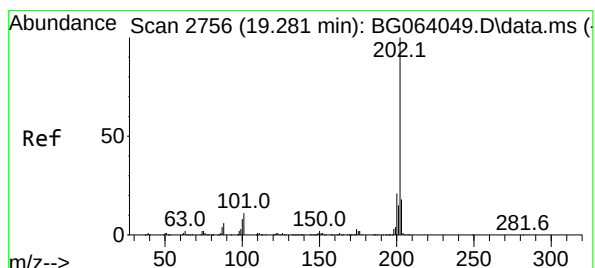
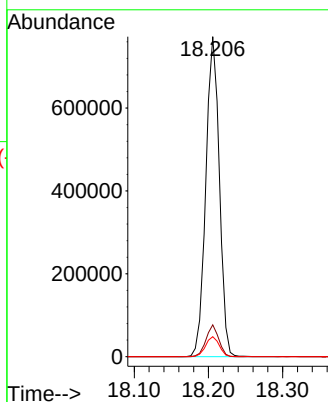
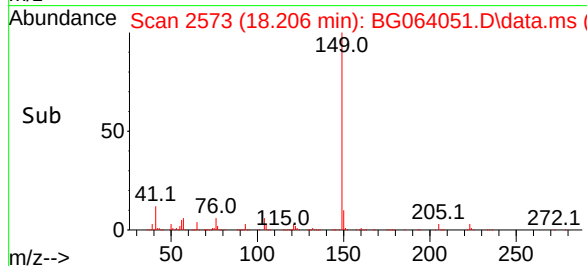
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



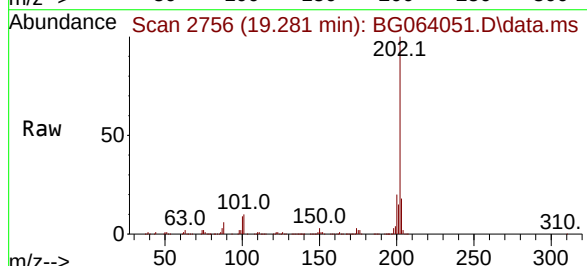
Tgt Ion:149 Resp: 97883  
Ion Ratio Lower Upper  
149 100  
150 9.9 7.4 11.0  
104 6.3 5.0 7.6

Manual Integrations  
APPROVED

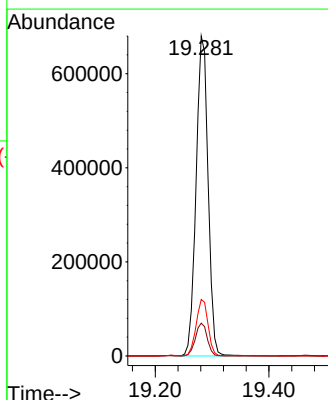
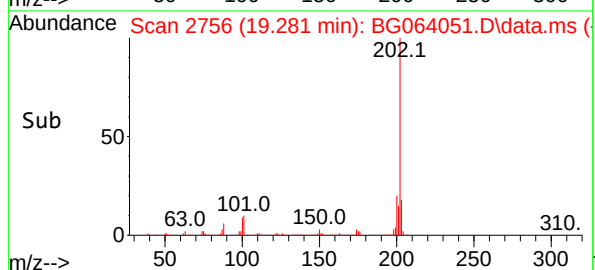
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

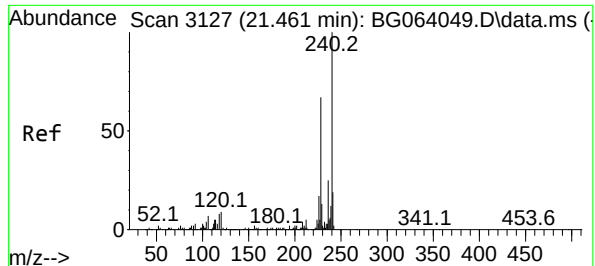


#75  
Fluoranthene  
Concen: 57.980 ng  
RT: 19.281 min Scan# 2756  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04



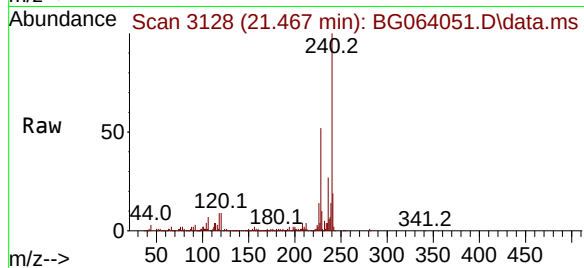
Tgt Ion:202 Resp: 998035  
Ion Ratio Lower Upper  
202 100  
101 10.3 0.0 30.5  
203 17.7 0.0 38.3





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.467 min Scan# 3127  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

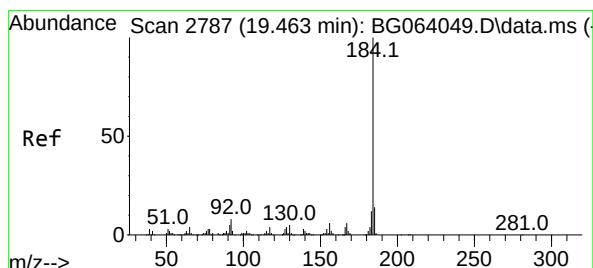
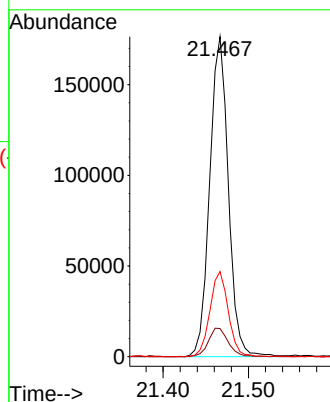
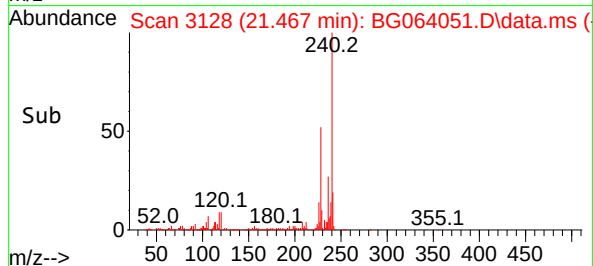
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:240 Resp: 267699  
Ion Ratio Lower Upper  
240 100  
120 8.8 7.2 10.8  
236 26.6 20.2 30.2

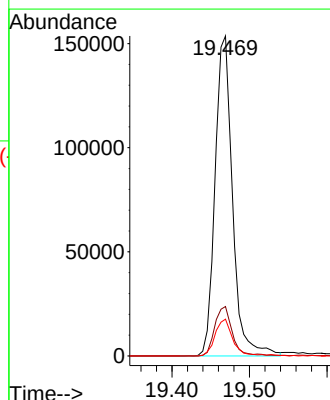
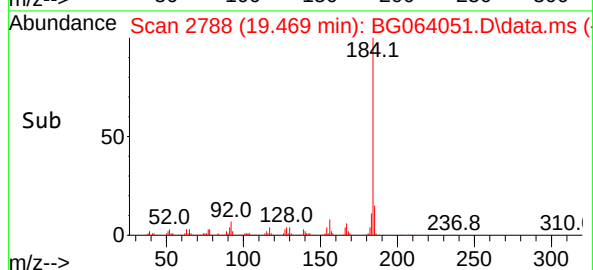
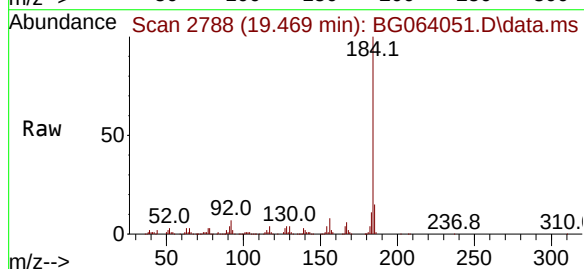
Manual Integrations  
APPROVED

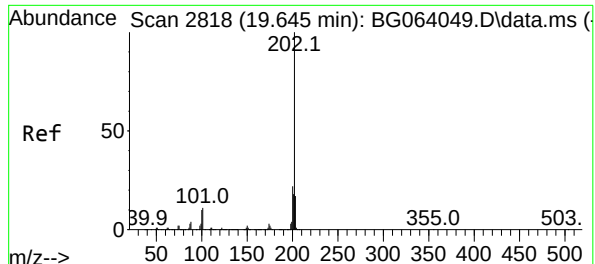
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#77  
Benzidine  
Concen: 63.973 ng  
RT: 19.469 min Scan# 2788  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

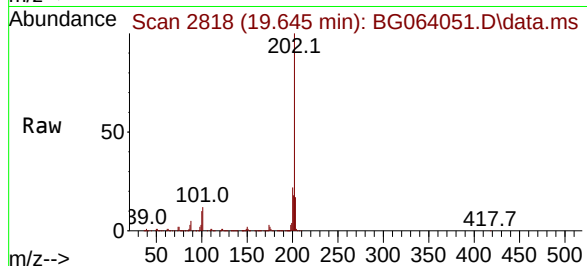
Tgt Ion:184 Resp: 240411  
Ion Ratio Lower Upper  
184 100  
185 15.4 11.3 16.9  
183 11.5 9.5 14.3





#78  
Pyrene  
Concen: 60.030 ng  
RT: 19.645 min Scan# 2818  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

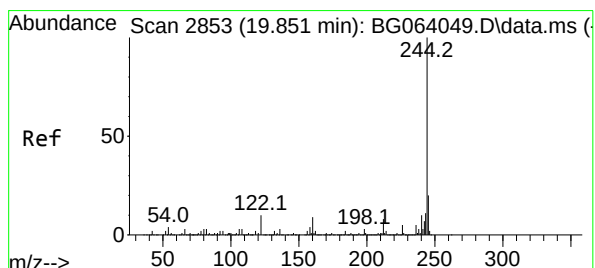
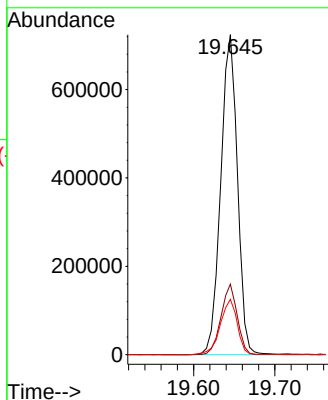
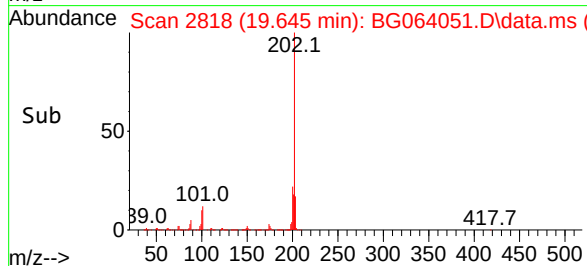
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:202 Resp: 1035908  
Ion Ratio Lower Upper  
202 100  
200 22.1 17.3 25.9  
203 17.3 13.6 20.4

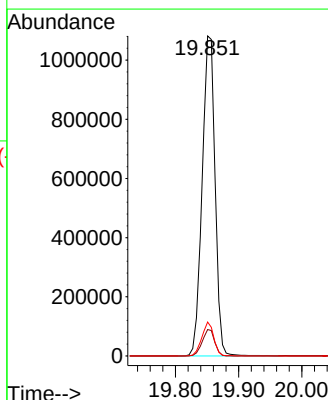
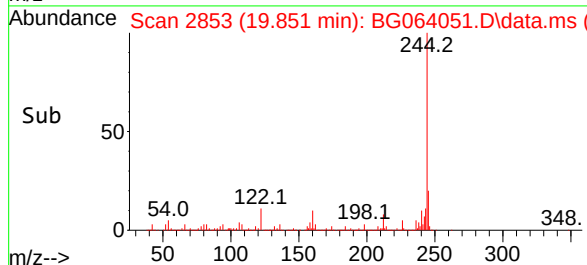
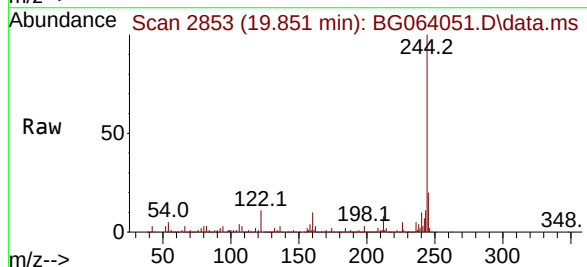
Manual Integrations  
APPROVED

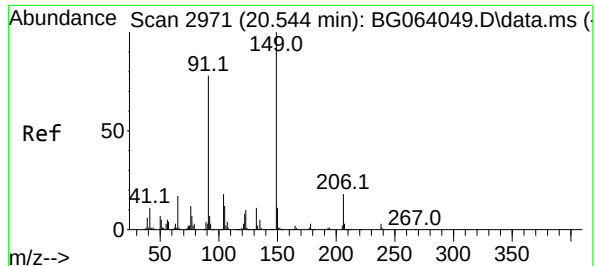
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#79  
Terphenyl-d14  
Concen: 116.081 ng  
RT: 19.851 min Scan# 2853  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

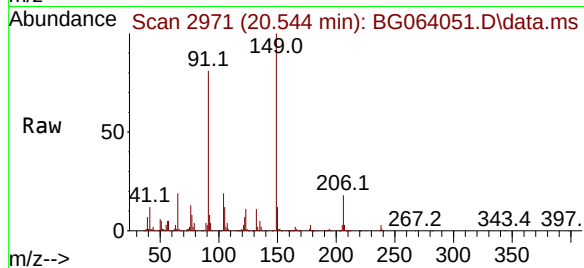
Tgt Ion:244 Resp: 1536841  
Ion Ratio Lower Upper  
244 100  
212 8.3 6.2 9.4  
122 10.6 8.0 12.0





#80  
Butylbenzylphthalate  
Concen: 61.244 ng  
RT: 20.544 min Scan# 2971  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

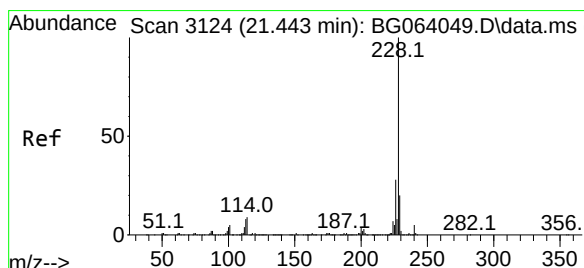
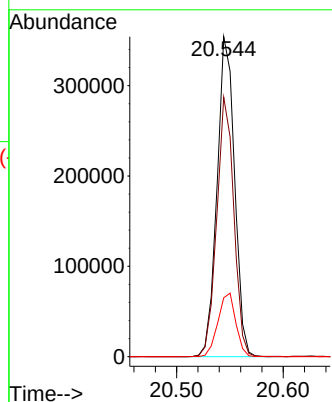
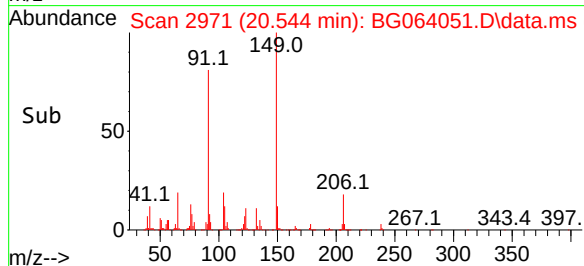
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:149 Resp: 403600  
Ion Ratio Lower Upper  
149 100  
91 81.1 62.0 93.0  
206 18.4 14.6 21.8

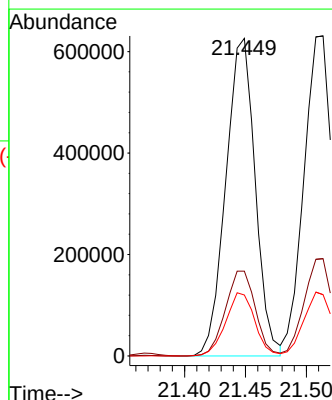
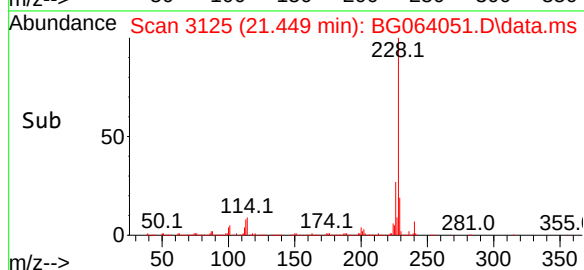
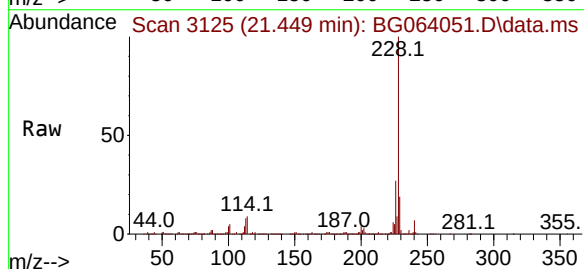
Manual Integrations  
APPROVED

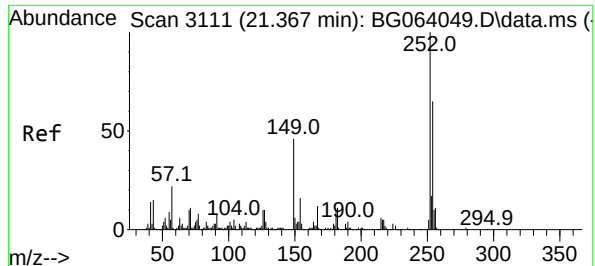
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#81  
Benzo(a)anthracene  
Concen: 61.323 ng  
RT: 21.449 min Scan# 3125  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

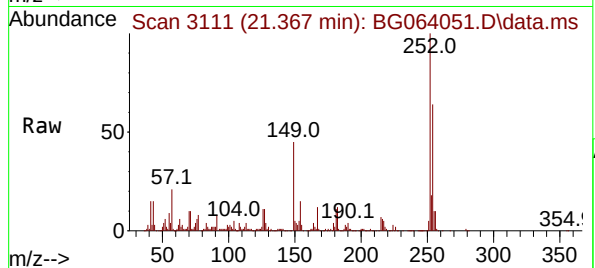
Tgt Ion:228 Resp: 1051558  
Ion Ratio Lower Upper  
228 100  
226 26.7 22.2 33.2  
229 19.2 16.4 24.6





#82  
3,3'-Dichlorobenzidine  
Concen: 63.055 ng  
RT: 21.367 min Scan# 3111  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

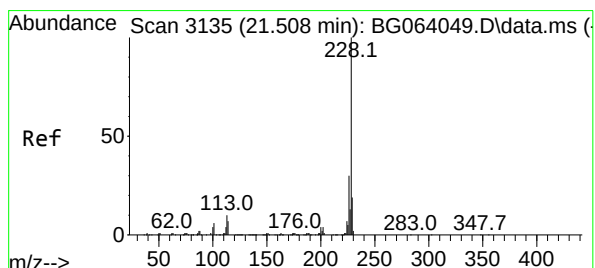
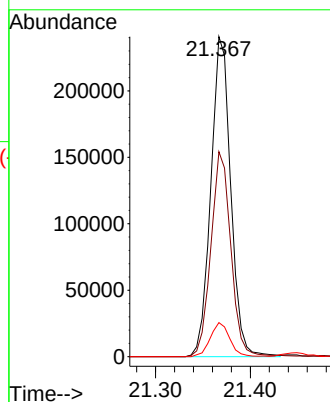
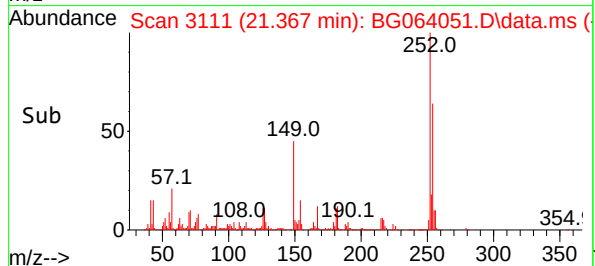
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:252 Resp: 349935  
Ion Ratio Lower Upper  
252 100  
254 64.1 52.1 78.1  
126 10.7 7.8 11.8

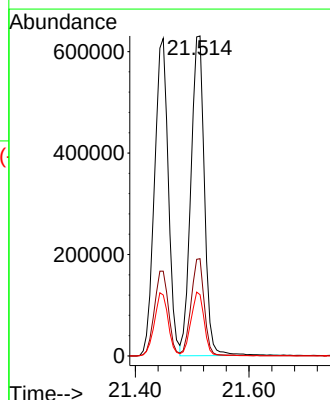
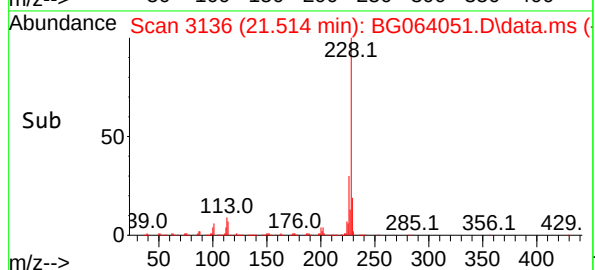
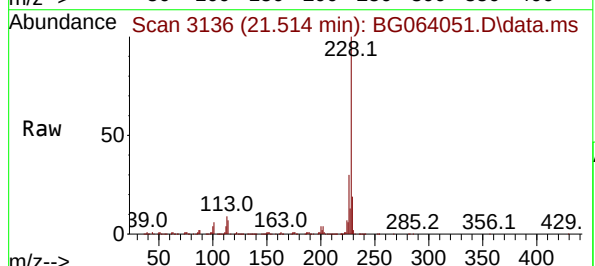
Manual Integrations  
APPROVED

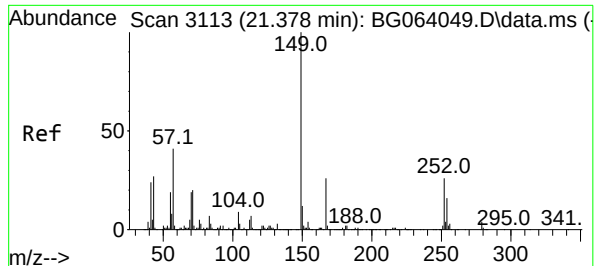
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#83  
Chrysene  
Concen: 61.078 ng  
RT: 21.514 min Scan# 3136  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

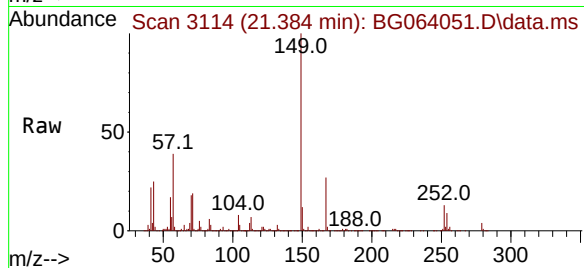
Tgt Ion:228 Resp: 1044616  
Ion Ratio Lower Upper  
228 100  
226 30.4 23.9 35.9  
229 19.1 15.3 22.9





#84  
Bis(2-ethylhexyl)phthalate  
Concen: 68.341 ng  
RT: 21.384 min Scan# 3114  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

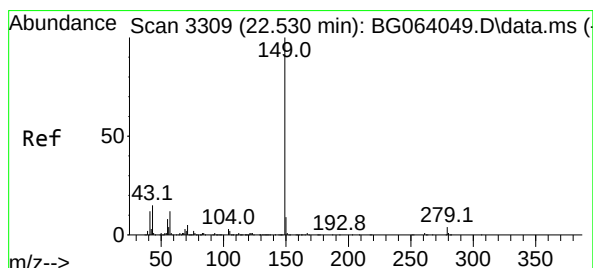
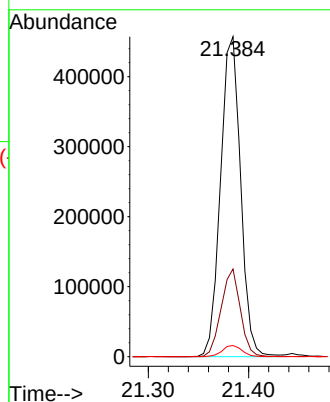
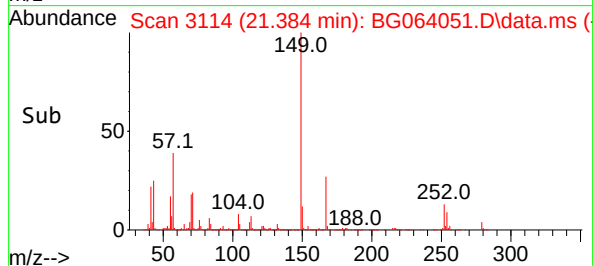
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



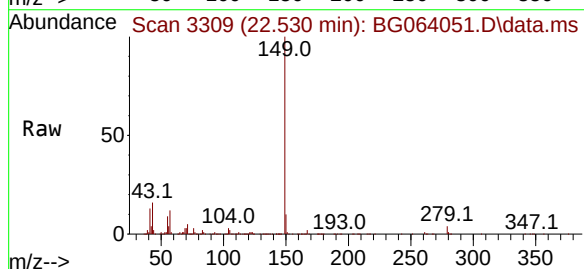
Tgt Ion:149 Resp: 633790  
Ion Ratio Lower Upper  
149 100  
167 27.4 21.0 31.6  
279 3.5 2.8 4.2

Manual Integrations  
APPROVED

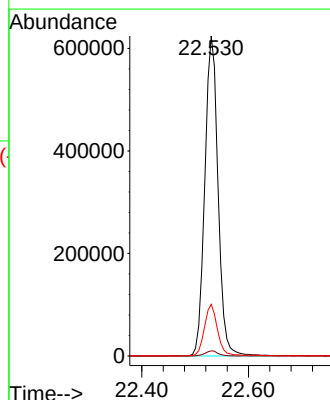
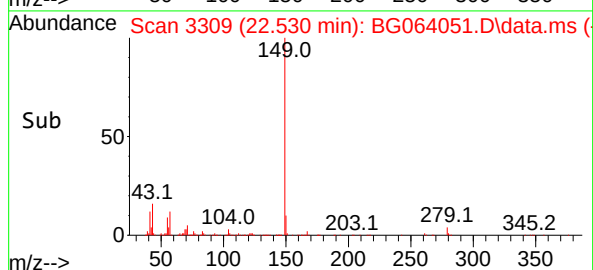
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

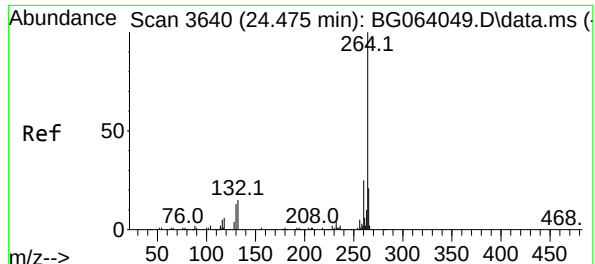


#85  
Di-n-octyl phthalate  
Concen: 67.209 ng  
RT: 22.530 min Scan# 3309  
Delta R.T. 0.000 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04



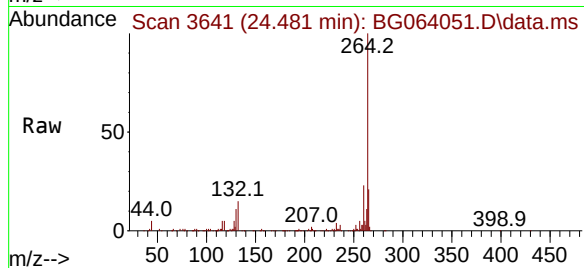
Tgt Ion:149 Resp: 1075085  
Ion Ratio Lower Upper  
149 100  
167 1.6 1.2 1.8  
43 15.9 12.6 19.0





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.481 min Scan# 30  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

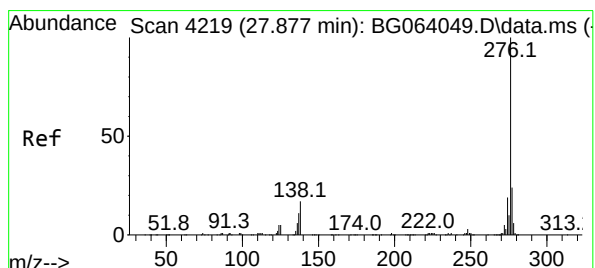
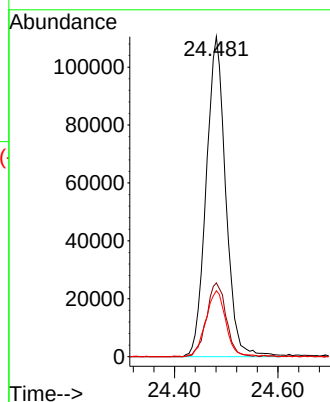
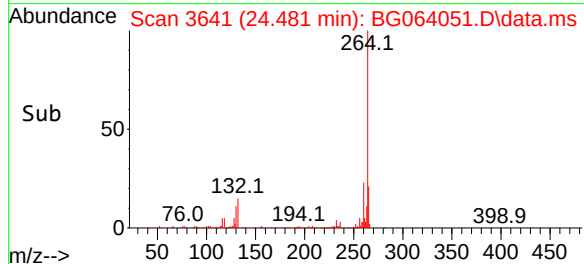
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:264 Resp: 28923  
Ion Ratio Lower Upper  
264 100  
260 23.1 19.6 29.4  
265 20.6 16.6 25.0

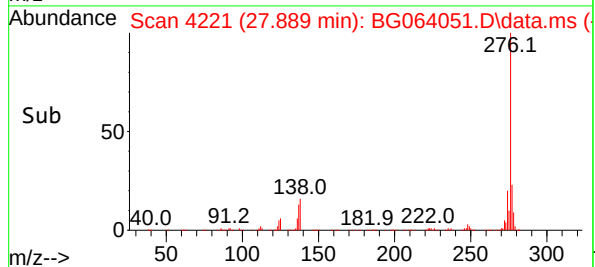
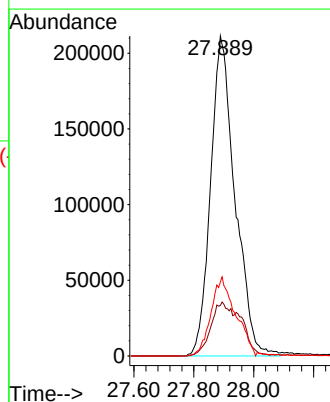
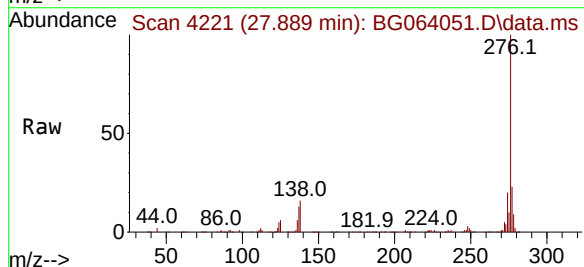
Manual Integrations  
APPROVED

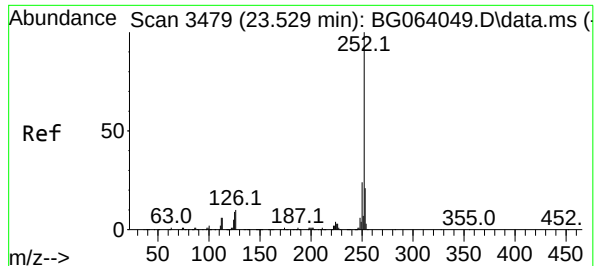
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 61.921 ng  
RT: 27.889 min Scan# 4221  
Delta R.T. 0.012 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

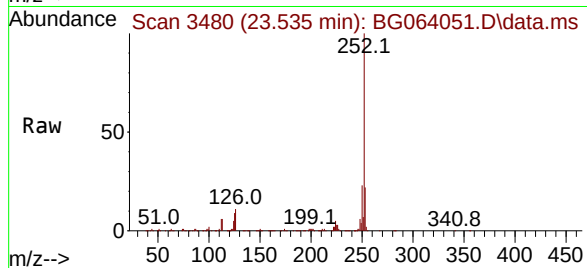
Tgt Ion:276 Resp: 1198276  
Ion Ratio Lower Upper  
276 100  
138 14.4 12.1 18.1  
277 24.8 20.0 30.0





#88  
Benzo(b)fluoranthene  
Concen: 60.290 ng  
RT: 23.535 min Scan# 3479  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

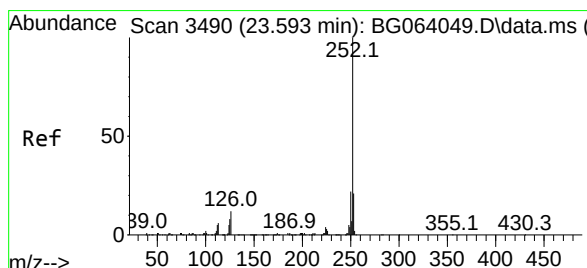
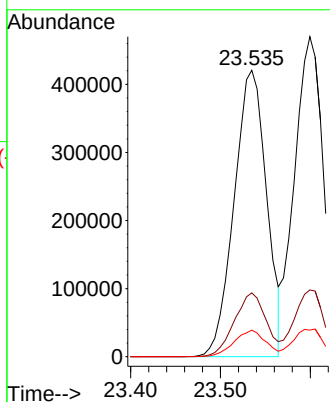
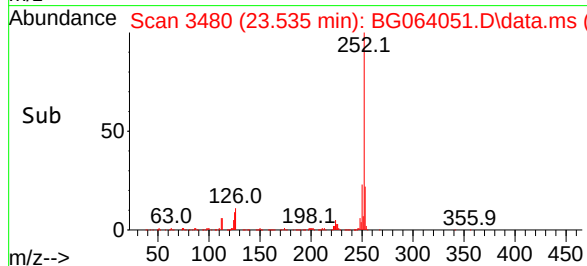
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



Tgt Ion:252 Resp: 1054170  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.0 25.4  
125 9.3 7.4 11.2

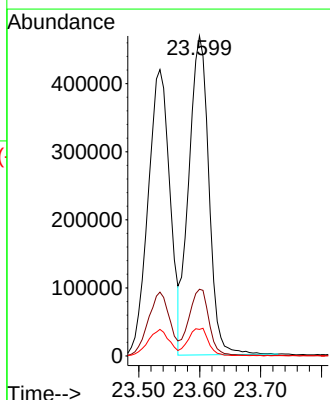
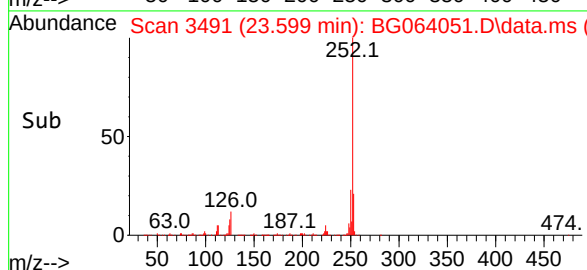
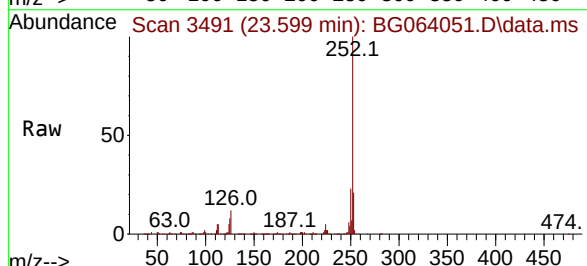
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

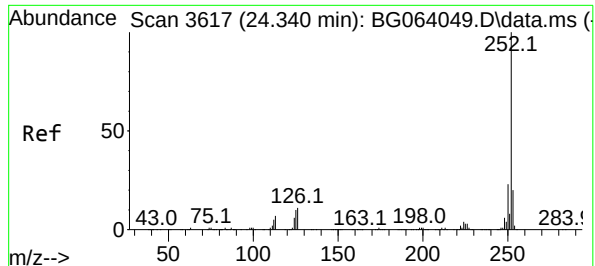


#89  
Benzo(k)fluoranthene  
Concen: 61.033 ng  
RT: 23.599 min Scan# 3491  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

Tgt Ion:252 Resp: 1070595  
Ion Ratio Lower Upper  
252 100  
253 20.8 16.8 25.2  
125 8.3 6.9 10.3

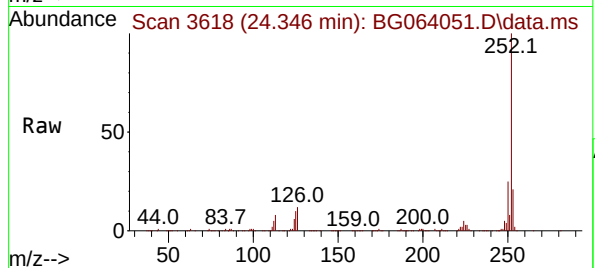






#90  
Benzo(a)pyrene  
Concen: 60.853 ng  
RT: 24.346 min Scan# 30  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04

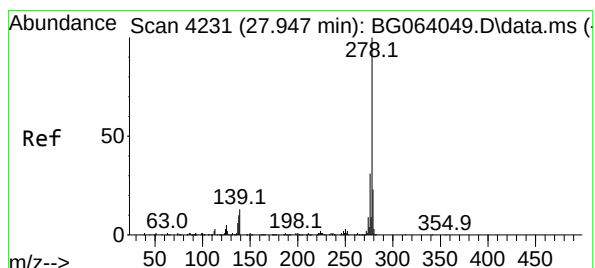
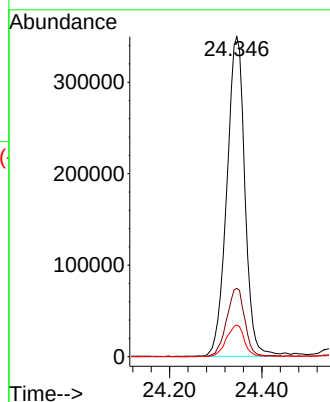
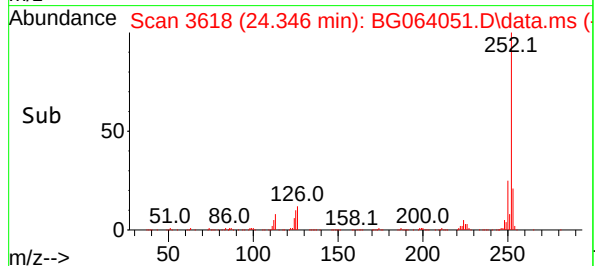
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC060



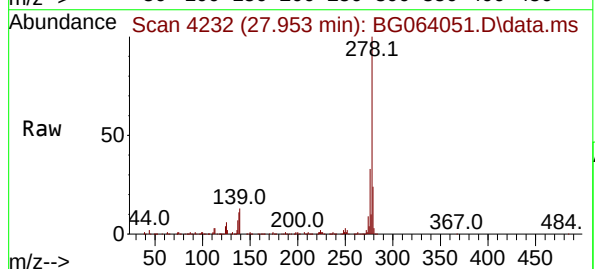
Tgt Ion:252 Resp: 947608  
Ion Ratio Lower Upper  
252 100  
253 21.4 16.2 24.2  
125 9.9 7.8 11.6

Manual Integrations  
APPROVED

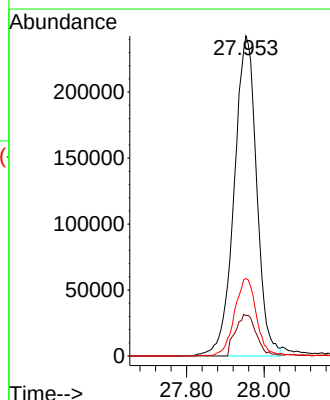
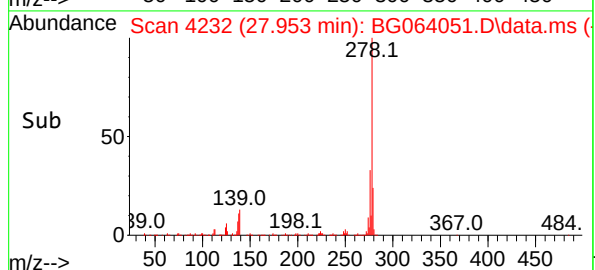
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

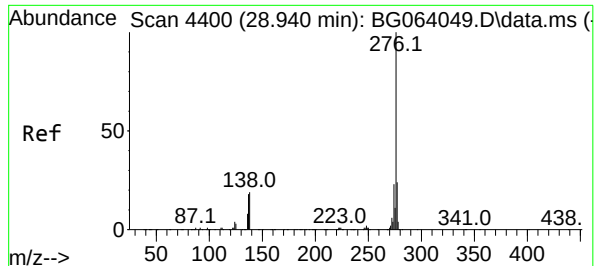


#91  
Dibenzo(a,h)anthracene  
Concen: 60.728 ng  
RT: 27.953 min Scan# 4232  
Delta R.T. 0.006 min  
Lab File: BG064051.D  
Acq: 5 Mar 2025 13:04



Tgt Ion:278 Resp: 974276  
Ion Ratio Lower Upper  
278 100  
139 12.6 10.2 15.2  
279 24.2 18.1 27.1





#92

Benzo(g,h,i)perylene

Concen: 60.851 ng

RT: 28.964 min Scan# 44

Delta R.T. 0.024 min

Lab File: BG064051.D

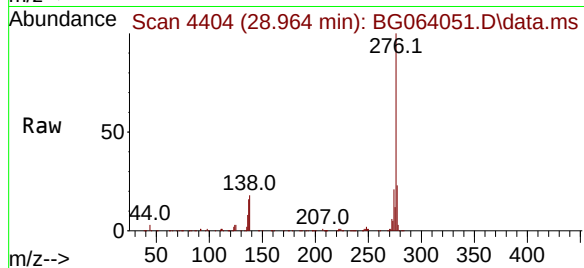
Acq: 5 Mar 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDICC060



Tgt Ion:276 Resp: 1002330

Ion Ratio Lower Upper

276 100

277 22.6 19.5 29.3

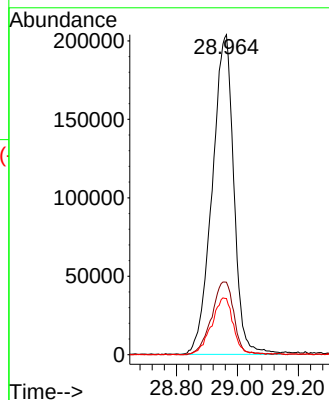
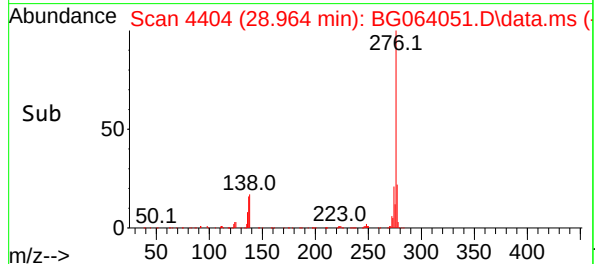
138 17.6 15.4 23.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025

Supervised By :mohammad ahmed 03/07/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064052.D  
 Acq On : 5 Mar 2025 13:44  
 Operator : RC/JU  
 Sample : SSTDICC080  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDICC080

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:25:59 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 14:45:06 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.865  | 152  | 38973    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.656 | 136  | 174562   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.493 | 164  | 119753   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.231 | 188  | 261353   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.467 | 240  | 257789   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 24.481 | 264  | 274554   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.456  | 112  | 406682   | 162.936 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.037  | 99   | 562221   | 165.580 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.029  | 82   | 570757   | 180.687 | ng    | 0.01     |
| 42) 2,4,6-Tribromophenol      | 15.979 | 330  | 230590   | 173.228 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.118 | 172  | 1198476  | 151.908 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.857 | 244  | 1912762  | 150.030 | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.376  | 88   | 86434    | 76.411  | ng    | 97       |
| 3) Pyridine                   | 3.770  | 79   | 194608   | 70.740  | ng    | 99       |
| 4) n-Nitrosodimethylamine     | 3.682  | 42   | 166554   | 84.738  | ng    | 98       |
| 6) Aniline                    | 7.196  | 93   | 260509   | 78.188  | ng    | 97       |
| 8) 2-Chlorophenol             | 7.436  | 128  | 221296   | 82.552  | ng    | 96       |
| 10) Phenol                    | 7.066  | 94   | 287854   | 82.802  | ng    | 97       |
| 11) bis(2-Chloroethyl)ether   | 7.295  | 93   | 217240   | 79.707  | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 7.760  | 146  | 235126   | 79.873  | ng    | 96       |
| 13) 1,4-Dichlorobenzene       | 7.901  | 146  | 238817   | 79.149  | ng    | 96       |
| 14) 1,2-Dichlorobenzene       | 8.224  | 146  | 233348   | 80.201  | ng    | 97       |
| 15) Benzyl Alcohol            | 8.106  | 79   | 227176   | 86.581  | ng    | 94       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.400  | 45   | 502220   | 81.950  | ng    | 99       |
| 17) 2-Methylphenol            | 8.306  | 107  | 198161   | 85.886  | ng    | 98       |
| 18) Hexachloroethane          | 8.946  | 117  | 90416    | 85.647  | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 8.682  | 70   | 197732   | 82.978  | ng    | 96       |
| 20) 3+4-Methylphenols         | 8.641  | 107  | 269552   | 84.861  | ng    | 92       |
| 22) Acetophenone              | 8.688  | 105  | 379097   | 79.207  | ng    | 99       |
| 24) Nitrobenzene              | 9.064  | 77   | 285702   | 87.518  | ng    | 99       |
| 25) Isophorone                | 9.593  | 82   | 507481   | 80.266  | ng    | 96       |
| 26) 2-Nitrophenol             | 9.769  | 139  | 102389   | 79.399  | ng    | 96       |
| 27) 2,4-Dimethylphenol        | 9.834  | 122  | 159995   | 84.413  | ng    | 94       |
| 28) bis(2-Chloroethoxy)met... | 10.074 | 93   | 310803   | 81.082  | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 10.304 | 162  | 208425   | 87.086  | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 10.521 | 180  | 231572   | 80.151  | ng    | 99       |
| 31) Naphthalene               | 10.709 | 128  | 752327   | 79.925  | ng    | 99       |
| 32) Benzoic acid              | 10.022 | 122  | 153536m  | 81.016  | ng    |          |
| 33) 4-Chloroaniline           | 10.815 | 127  | 281930   | 81.948  | ng    | 100      |
| 34) Hexachlorobutadiene       | 10.997 | 225  | 152146   | 80.341  | ng    | 98       |
| 35) Caprolactam               | 11.608 | 113  | 77479    | 84.477  | ng    | # 82     |
| 36) 4-Chloro-3-methylphenol   | 11.937 | 107  | 262810   | 83.772  | ng    | 100      |
| 37) 2-Methylnaphthalene       | 12.313 | 142  | 524206   | 78.886  | ng    | 97       |
| 38) 1-Methylnaphthalene       | 12.536 | 142  | 511482   | 78.566  | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 12.683 | 216  | 271079   | 79.289  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 12.671 | 237  | 87700    | 91.141  | ng    | 95       |
| 43) 2,4,6-Trichlorophenol     | 12.924 | 196  | 175233   | 86.966  | ng    | 97       |
| 44) 2,4,5-Trichlorophenol     | 12.995 | 196  | 197831   | 88.360  | ng    | 99       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064052.D  
 Acq On : 5 Mar 2025 13:44  
 Operator : RC/JU  
 Sample : SSTDICC080  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDICC080

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:25:59 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 14:45:06 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) 1,1'-Biphenyl             | 13.329 | 154  | 706656   | 78.106 | ng    | 98       |
| 47) 2-Chloronaphthalene       | 13.371 | 162  | 528541   | 80.099 | ng    | 98       |
| 48) 2-Nitroaniline            | 13.570 | 65   | 195363   | 79.407 | ng    | 97       |
| 49) Acenaphthylene            | 14.217 | 152  | 822307   | 78.787 | ng    | 99       |
| 50) Dimethylphthalate         | 13.958 | 163  | 695598   | 78.689 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 14.070 | 165  | 147719   | 79.965 | ng    | 98       |
| 52) Acenaphthene              | 14.557 | 154  | 540444   | 76.999 | ng    | 97       |
| 53) 3-Nitroaniline            | 14.399 | 138  | 154723   | 90.561 | ng    | 95       |
| 54) 2,4-Dinitrophenol         | 14.599 | 184  | 61808    | 82.400 | ng    | # 81     |
| 55) Dibenzofuran              | 14.892 | 168  | 874479   | 77.066 | ng    | 99       |
| 56) 4-Nitrophenol             | 14.698 | 139  | 126982   | 88.621 | ng    | 95       |
| 57) 2,4-Dinitrotoluene        | 14.857 | 165  | 203301   | 79.564 | ng    | # 97     |
| 58) Fluorene                  | 15.539 | 166  | 668072   | 75.593 | ng    | 98       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.116 | 232  | 188307   | 86.273 | ng    | # 95     |
| 60) Diethylphthalate          | 15.321 | 149  | 758650   | 79.055 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.539 | 204  | 326141   | 74.261 | ng    | 91       |
| 62) 4-Nitroaniline            | 15.562 | 138  | 159478   | 86.459 | ng    | 91       |
| 63) Azobenzene                | 15.832 | 77   | 787412   | 76.893 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 15.615 | 198  | 100338   | 81.905 | ng    | 96       |
| 66) n-Nitrosodiphenylamine    | 15.750 | 169  | 590976   | 79.884 | ng    | 97       |
| 67) 4-Bromophenyl-phenylether | 16.432 | 248  | 222258   | 83.033 | ng    | 96       |
| 68) Hexachlorobenzene         | 16.543 | 284  | 240907   | 80.390 | ng    | 98       |
| 70) Pentachlorophenol         | 16.884 | 266  | 170842   | 91.819 | ng    | 98       |
| 71) Phenanthrene              | 17.278 | 178  | 1094187  | 78.492 | ng    | 99       |
| 72) Anthracene                | 17.366 | 178  | 1099164  | 79.297 | ng    | 97       |
| 73) Carbazole                 | 17.636 | 167  | 999549   | 77.234 | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.206 | 149  | 1263186  | 82.920 | ng    | 99       |
| 75) Fluoranthene              | 19.287 | 202  | 1276040  | 75.929 | ng    | 99       |
| 77) Benzidine                 | 19.463 | 184  | 279417   | 77.211 | ng    | 99       |
| 78) Pyrene                    | 19.646 | 202  | 1321748  | 79.539 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.550 | 149  | 517770   | 80.379 | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.449 | 228  | 1325828  | 80.289 | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.367 | 252  | 423636   | 79.269 | ng    | 100      |
| 83) Chrysene                  | 21.514 | 228  | 1291089  | 78.391 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.385 | 149  | 806194   | 90.273 | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.530 | 149  | 1379517  | 89.556 | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 27.895 | 276  | 1530546  | 83.318 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 23.541 | 252  | 1356996  | 81.758 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 23.606 | 252  | 1334083  | 80.120 | ng    | 99       |
| 90) Benzo(a)pyrene            | 24.346 | 252  | 1200152  | 81.191 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene    | 27.959 | 278  | 1273882  | 83.647 | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 28.970 | 276  | 1282909  | 82.048 | ng    | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

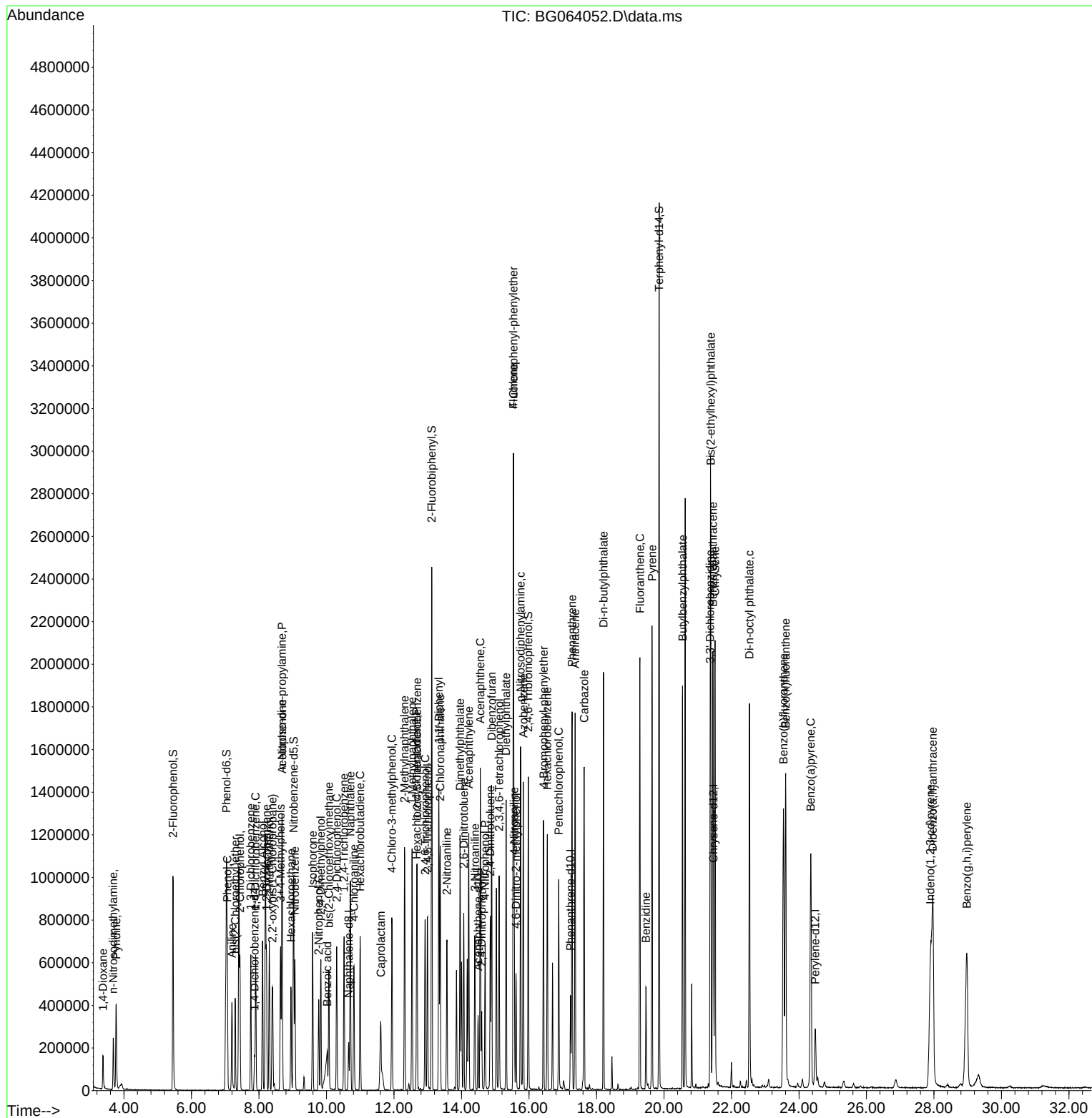
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
Data File : BG064052.D  
Acq On : 5 Mar 2025 13:44  
Operator : RC/JU  
Sample : SSTDICC080  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

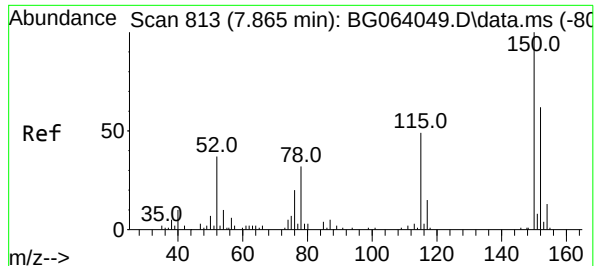
**Instrument :**  
BNA\_G  
**ClientSampleId :**  
SSTDICC080

## Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

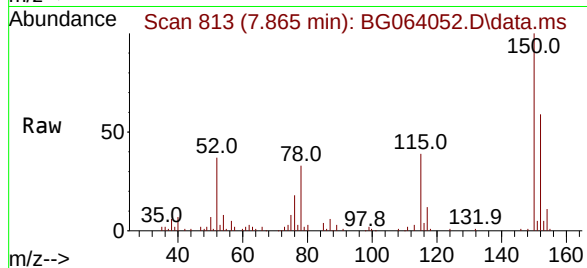
Quant Time: Mar 05 15:25:59 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 14:45:06 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.865 min Scan# 813  
Delta R.T. 0.000 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

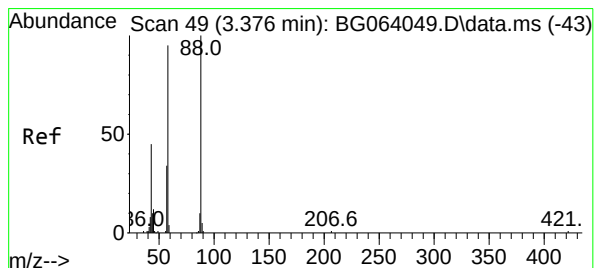
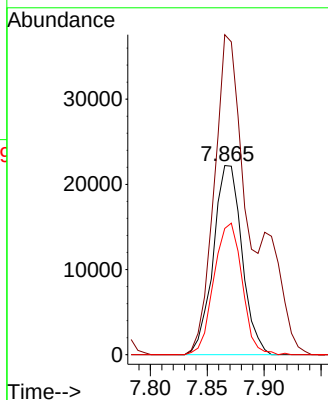
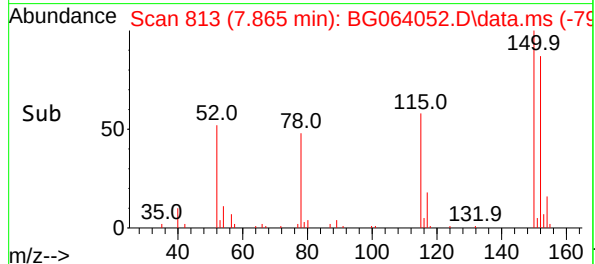
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:152 Resp: 3897  
Ion Ratio Lower Upper  
152 100  
150 169.1 129.2 193.8  
115 66.7 63.0 94.6

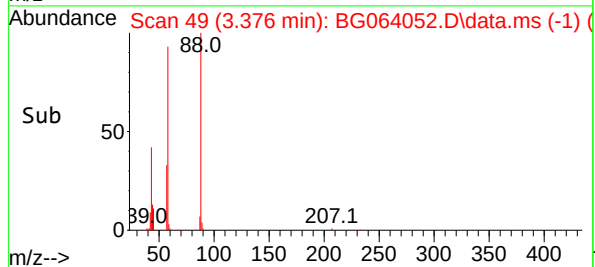
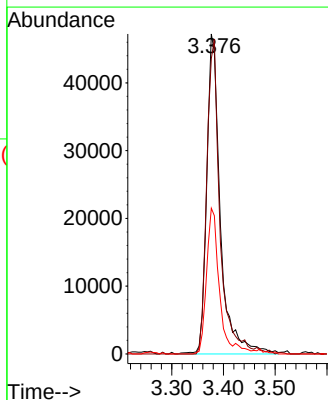
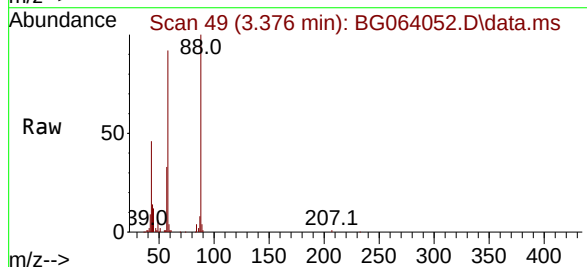
Manual Integrations  
APPROVED

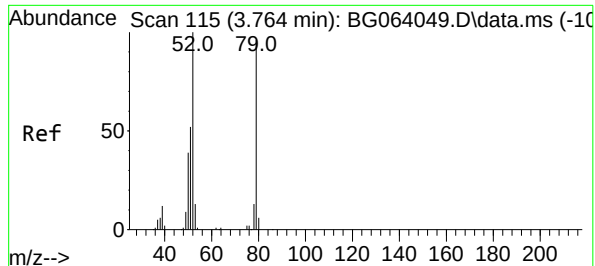
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#2  
1,4-Dioxane  
Concen: 76.411 ng  
RT: 3.376 min Scan# 49  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

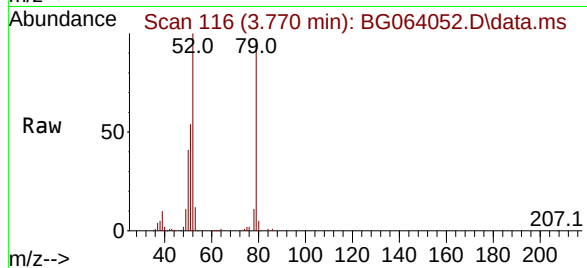
Tgt Ion: 88 Resp: 86434  
Ion Ratio Lower Upper  
88 100  
58 95.8 74.6 111.8  
43 43.0 35.5 53.3





#3  
Pyridine  
Concen: 70.740 ng  
RT: 3.770 min Scan# 115  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

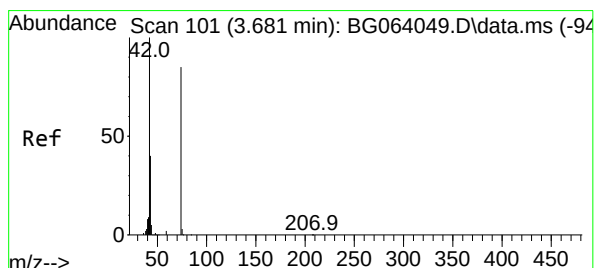
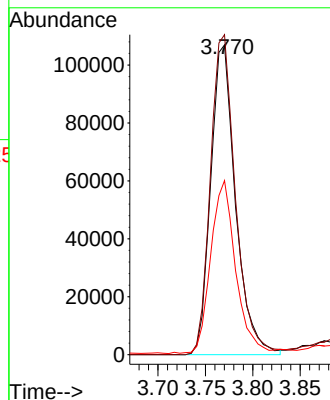
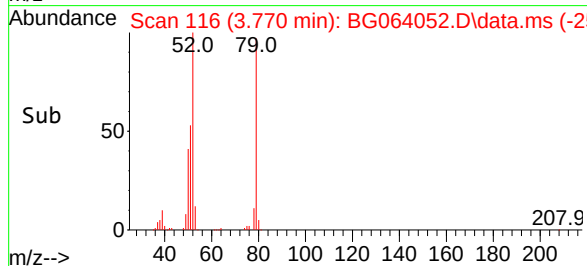
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion: 79 Resp: 194608  
Ion Ratio Lower Upper  
79 100  
52 103.3 83.0 124.6  
51 56.2 44.3 66.5

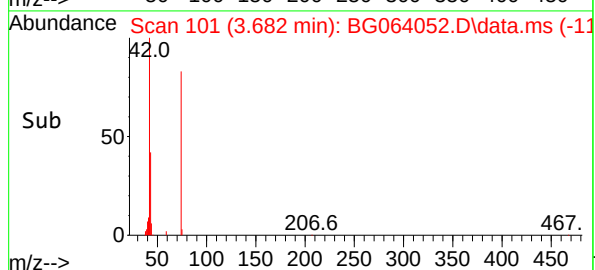
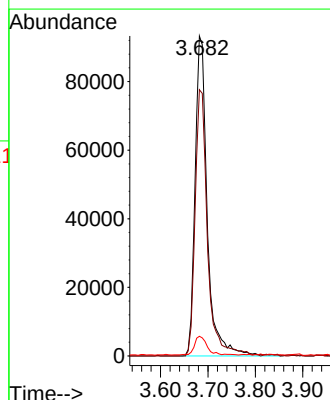
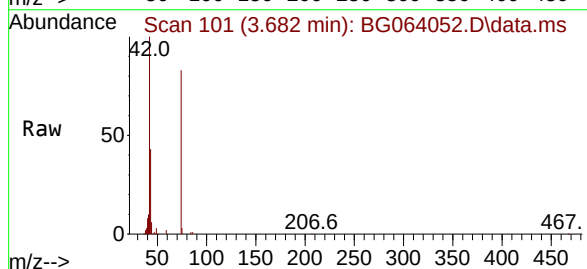
Manual Integrations  
APPROVED

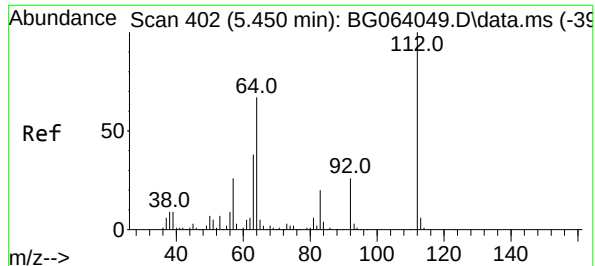
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#4  
n-Nitrosodimethylamine  
Concen: 84.738 ng  
RT: 3.682 min Scan# 101  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

Tgt Ion: 42 Resp: 166554  
Ion Ratio Lower Upper  
42 100  
74 83.2 68.0 102.0  
44 6.2 4.9 7.3





#5

2-Fluorophenol

Concen: 162.936 ng

RT: 5.456 min Scan# 402

Delta R.T. 0.006 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

Instrument :

BNA\_G

ClientSampleId :

SSTDICC080

Tgt Ion:112 Resp: 40668

Ion Ratio Lower Upper

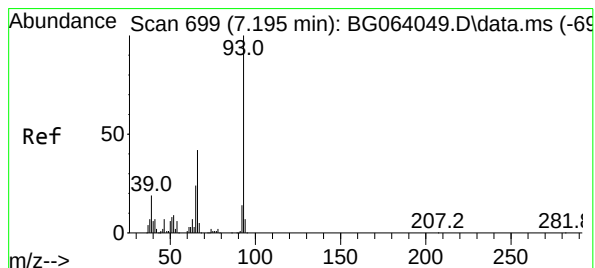
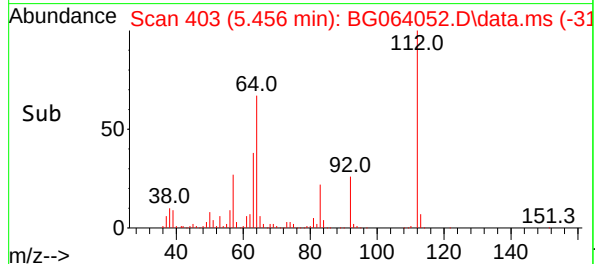
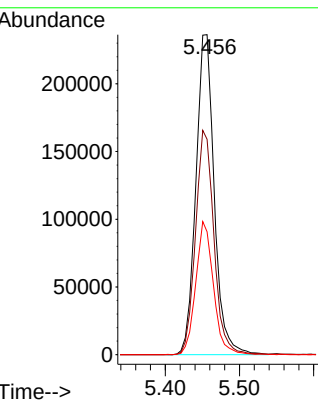
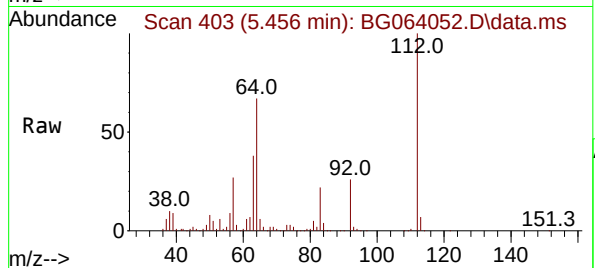
112 100

64 67.3 53.7 80.5

63 38.4 30.2 45.4

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#6

Aniline

Concen: 78.188 ng

RT: 7.196 min Scan# 699

Delta R.T. 0.001 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

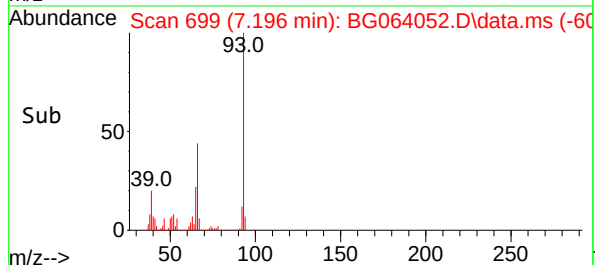
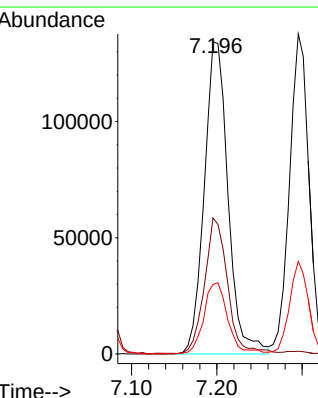
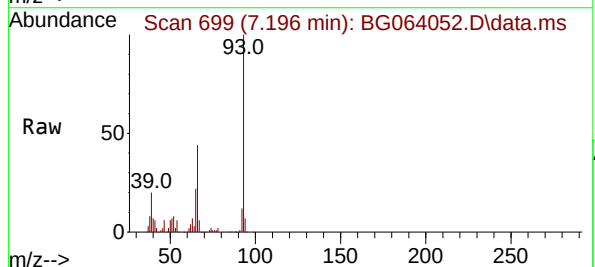
Tgt Ion: 93 Resp: 260509

Ion Ratio Lower Upper

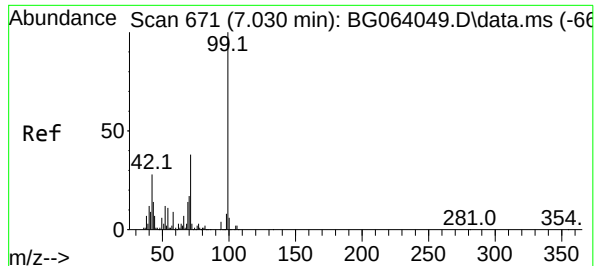
93 100

66 43.6 33.7 50.5

65 22.3 19.1 28.7

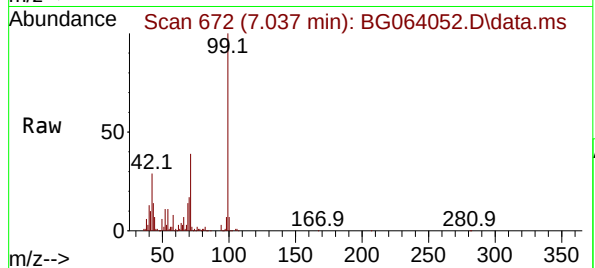






#7  
Phenol-d6  
Concen: 165.580 ng  
RT: 7.037 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

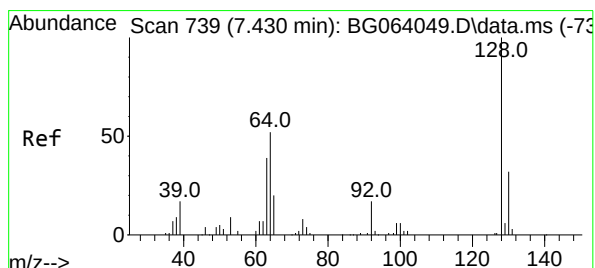
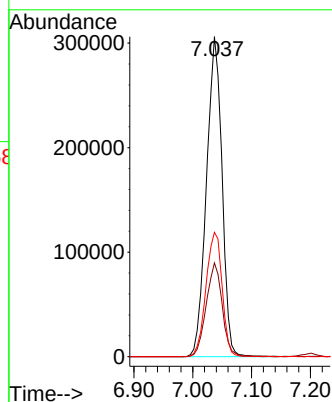
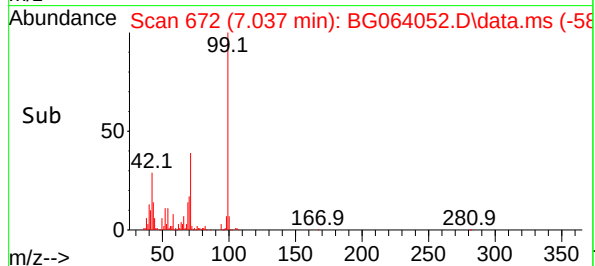
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion: 99 Resp: 56222  
Ion Ratio Lower Upper  
99 100  
42 29.3 22.7 34.1  
71 38.9 30.6 46.0

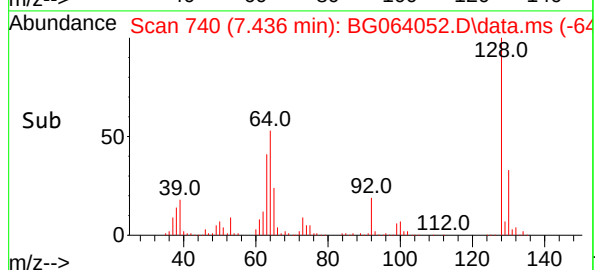
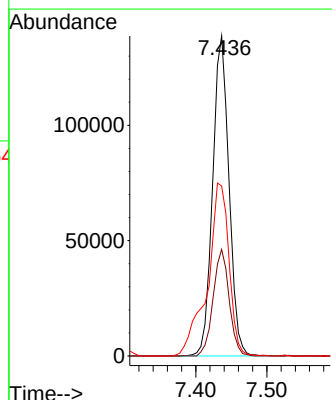
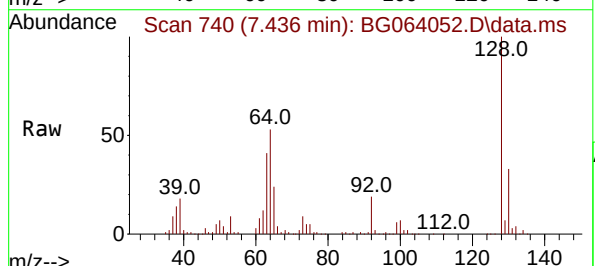
Manual Integrations  
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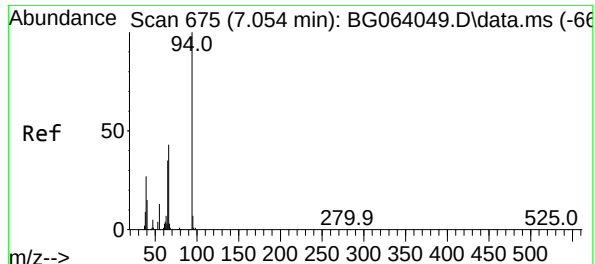
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#8  
2-Chlorophenol  
Concen: 82.552 ng  
RT: 7.436 min Scan# 740  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

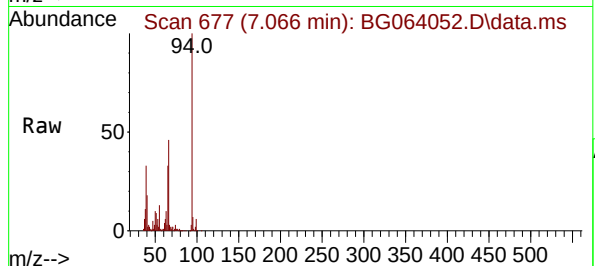
Tgt Ion:128 Resp: 221296  
Ion Ratio Lower Upper  
128 100  
130 33.3 12.3 52.3  
64 53.1 37.0 77.0





#10  
Phenol  
Concen: 82.802 ng  
RT: 7.066 min Scan# 677  
Delta R.T. 0.012 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

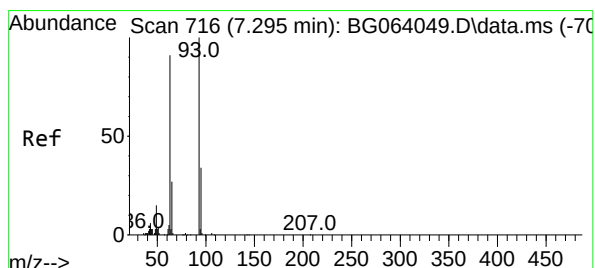
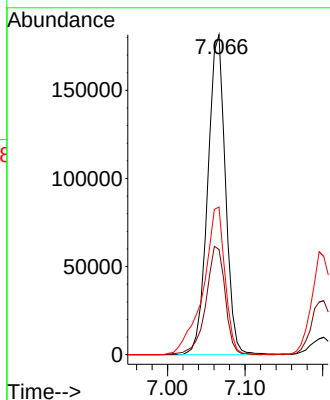
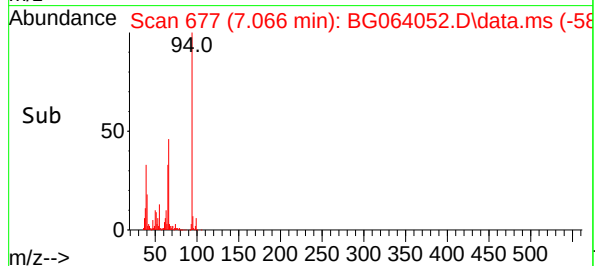
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion: 94 Resp: 287854  
Ion Ratio Lower Upper  
94 100  
65 32.9 15.2 55.2  
66 46.1 25.1 65.1

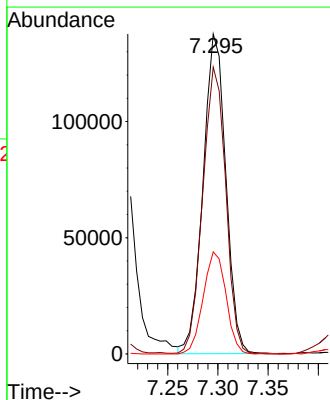
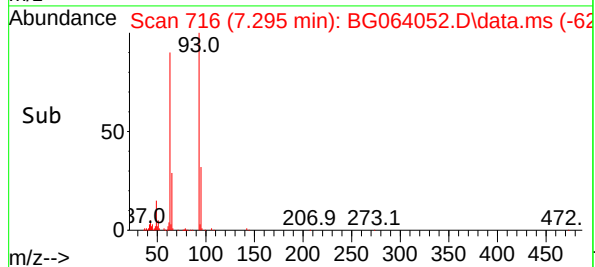
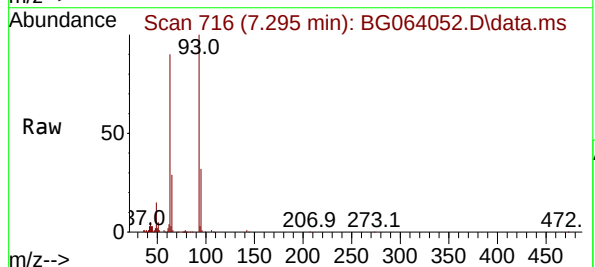
Manual Integrations  
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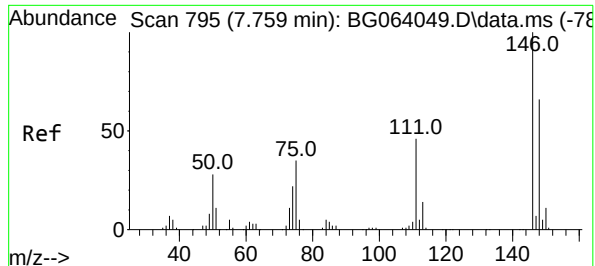
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#11  
bis(2-Chloroethyl)ether  
Concen: 79.707 ng  
RT: 7.295 min Scan# 716  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

Tgt Ion: 93 Resp: 217240  
Ion Ratio Lower Upper  
93 100  
63 89.6 70.0 110.0  
95 31.9 13.7 53.7





#12

1,3-Dichlorobenzene

Concen: 79.873 ng

RT: 7.760 min Scan# 795

Delta R.T. 0.001 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

Instrument :

BNA\_G

ClientSampleId :

SSTDICC080

Tgt Ion:146 Resp: 235120

Ion Ratio Lower Upper

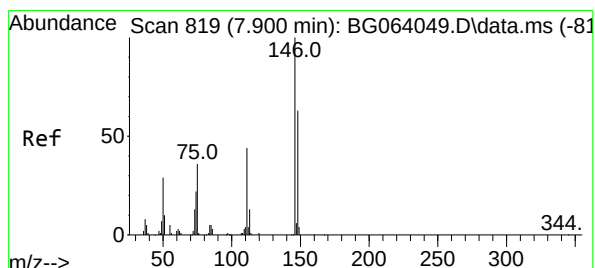
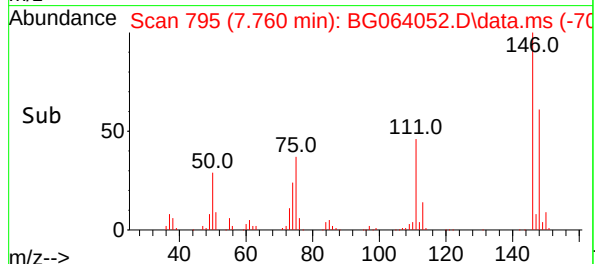
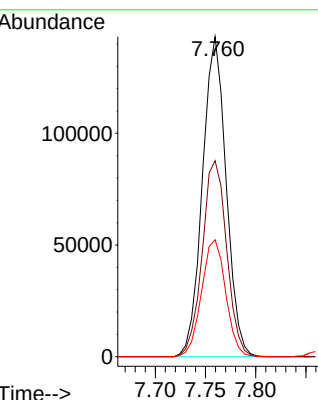
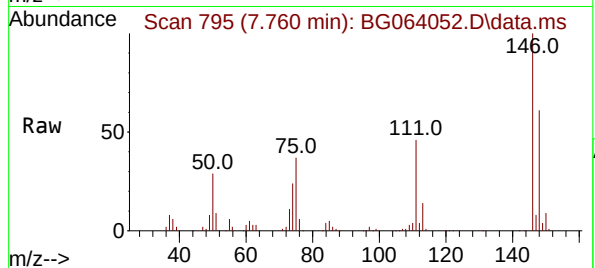
146 100

148 61.3 52.6 78.8

75 36.5 28.1 42.1

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#13

1,4-Dichlorobenzene

Concen: 79.149 ng

RT: 7.901 min Scan# 819

Delta R.T. 0.001 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

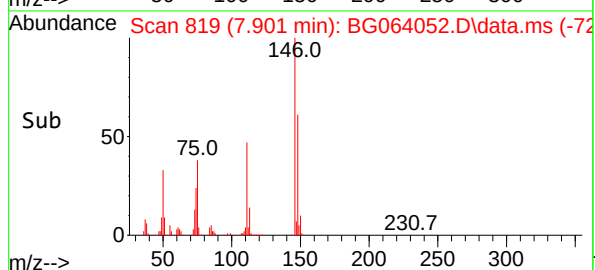
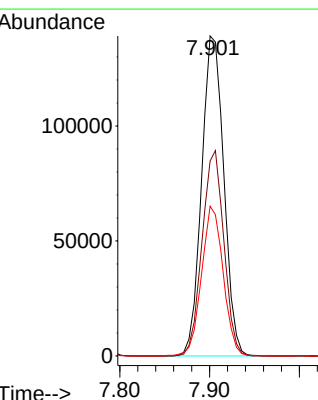
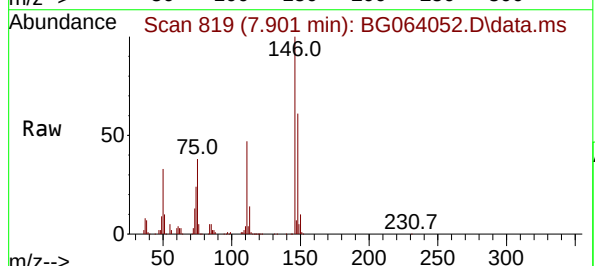
Tgt Ion:146 Resp: 238817

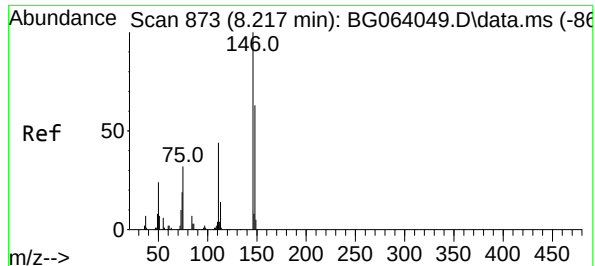
Ion Ratio Lower Upper

146 100

148 60.9 50.6 75.8

111 46.8 35.1 52.7





#14

1,2-Dichlorobenzene

Concen: 80.201 ng

RT: 8.224 min Scan# 81

Delta R.T. 0.006 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

Instrument :

BNA\_G

ClientSampleId :

SSTDICC080

Tgt Ion:146 Resp: 23334

Ion Ratio Lower Upper

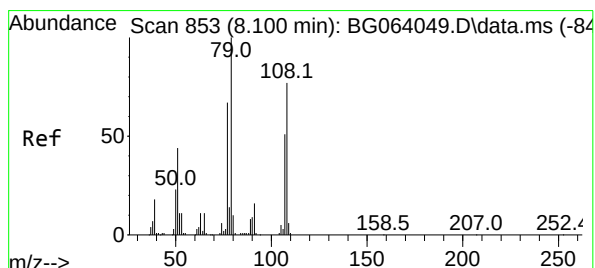
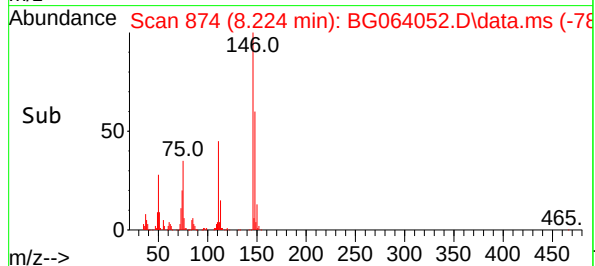
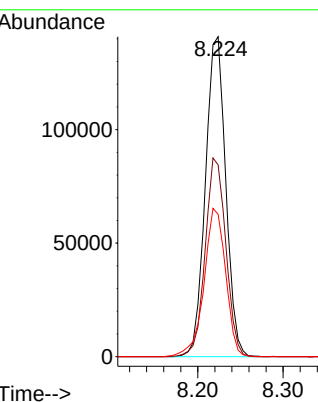
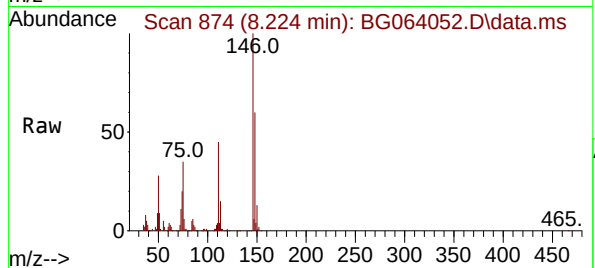
146 100

148 60.0 50.2 75.2

111 44.5 36.4 54.6

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#15

Benzyl Alcohol

Concen: 86.581 ng

RT: 8.106 min Scan# 854

Delta R.T. 0.006 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

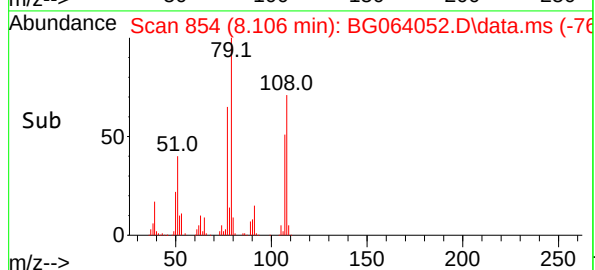
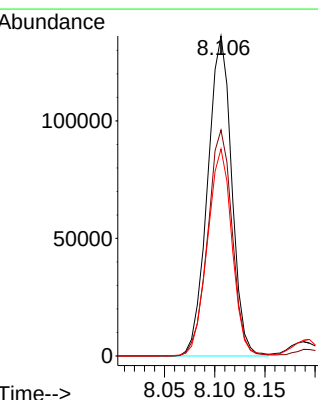
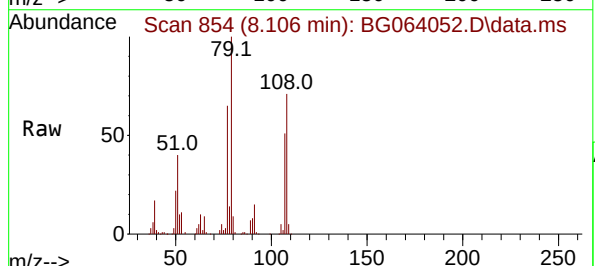
Tgt Ion: 79 Resp: 227176

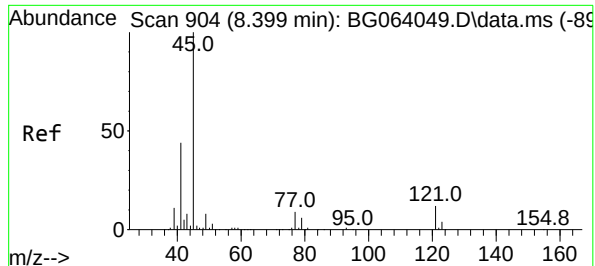
Ion Ratio Lower Upper

79 100

108 70.6 61.7 92.5

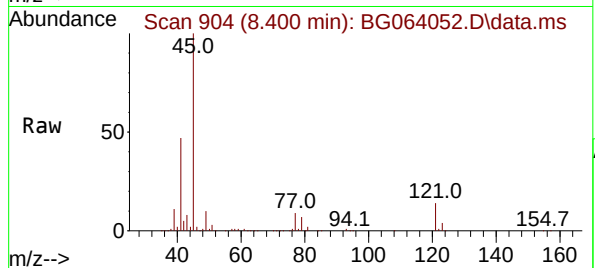
77 64.7 53.9 80.9





#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 81.950 ng  
RT: 8.400 min Scan# 904  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

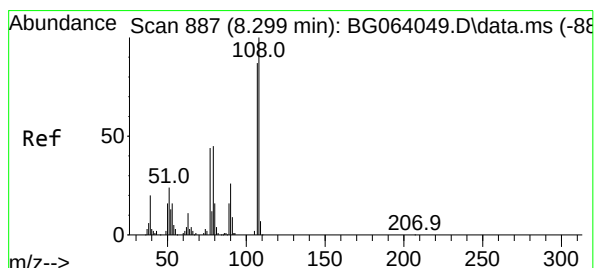
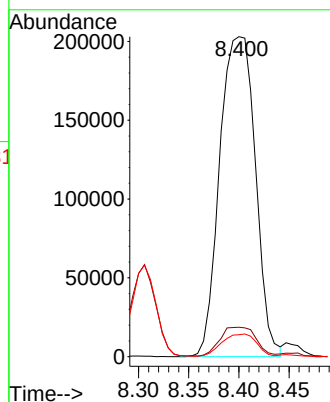
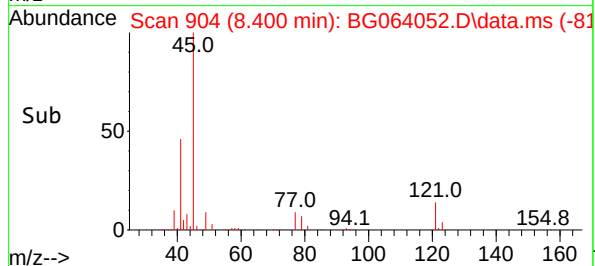
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion: 45 Resp: 502220  
Ion Ratio Lower Upper  
45 100  
77 9.2 0.0 29.0  
79 6.9 0.0 26.6

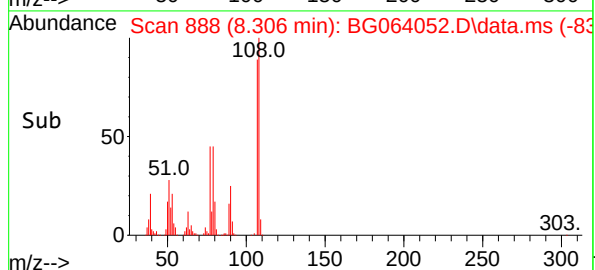
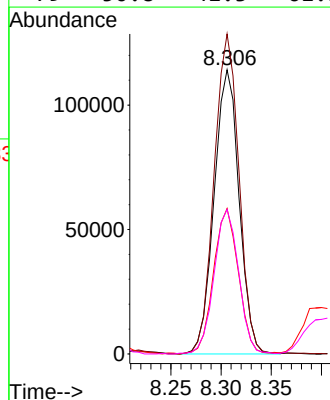
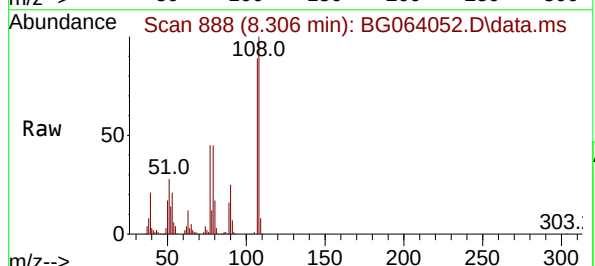
Manual Integrations  
APPROVED

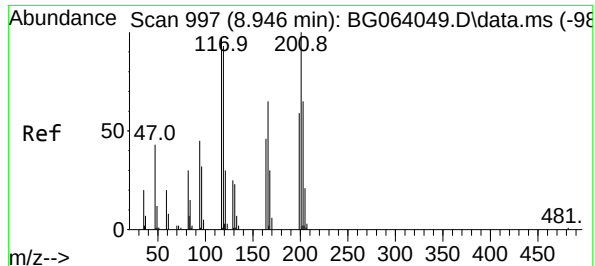
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#17  
2-Methylphenol  
Concen: 85.886 ng  
RT: 8.306 min Scan# 888  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

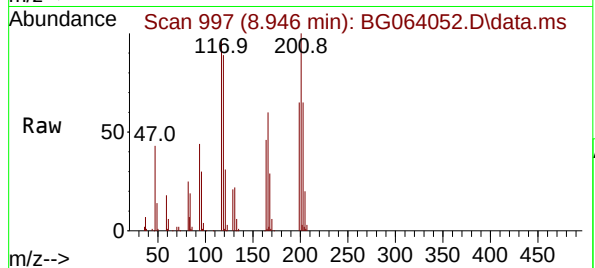
Tgt Ion:107 Resp: 198161  
Ion Ratio Lower Upper  
107 100  
108 112.6 92.5 138.7  
77 51.2 40.5 60.7  
79 50.8 41.3 61.9





#18  
Hexachloroethane  
Concen: 85.647 ng  
RT: 8.946 min Scan# 997  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

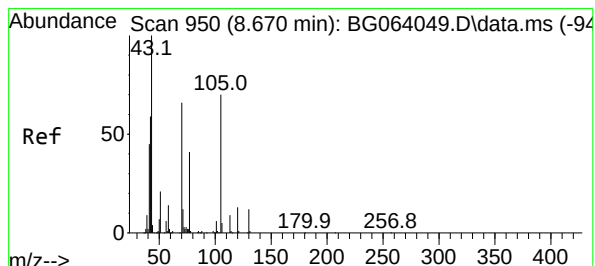
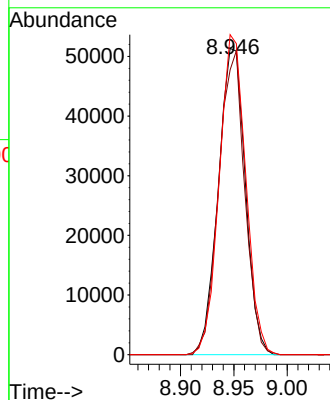
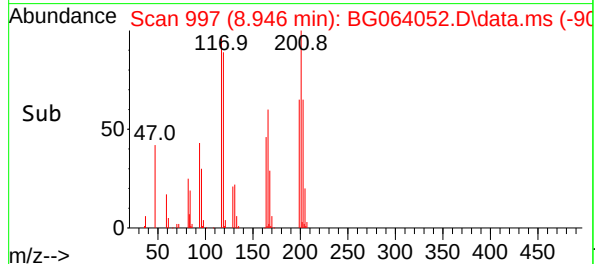
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion: 117 Resp: 90410  
Ion Ratio Lower Upper  
117 100  
119 93.0 76.2 114.2  
201 104.5 81.5 122.3

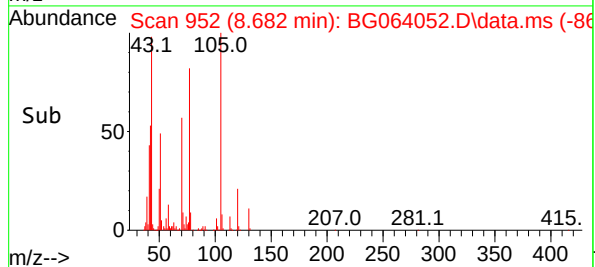
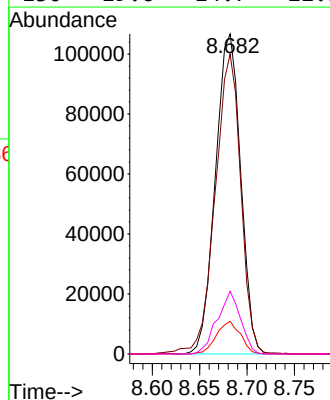
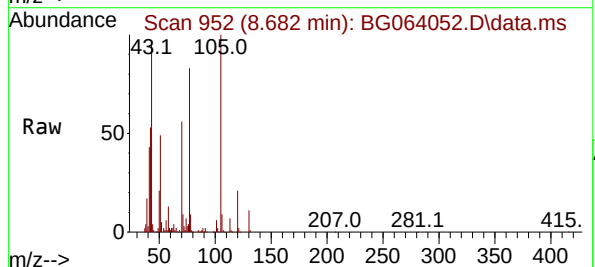
Manual Integrations  
APPROVED

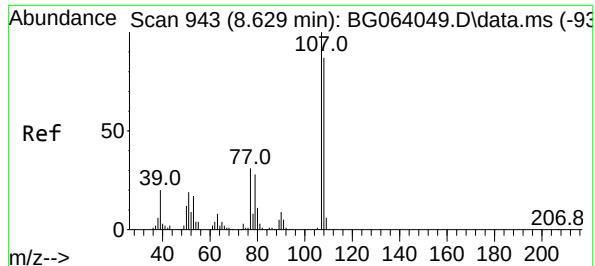
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#19  
n-Nitroso-di-n-propylamine  
Concen: 82.978 ng  
RT: 8.682 min Scan# 952  
Delta R.T. 0.012 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

Tgt Ion: 70 Resp: 197732  
Ion Ratio Lower Upper  
70 100  
42 93.7 72.1 108.1  
101 10.2 7.2 10.8  
130 19.6 14.7 22.1





#20

3+4-Methylphenols

Concen: 84.861 ng

RT: 8.641 min Scan# 94

Delta R.T. 0.012 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

Instrument :

BNA\_G

ClientSampleId :

SSTDICC080

Tgt Ion:107 Resp: 26955

Ion Ratio Lower Upper

107 100

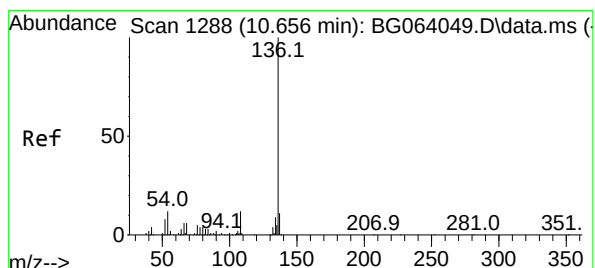
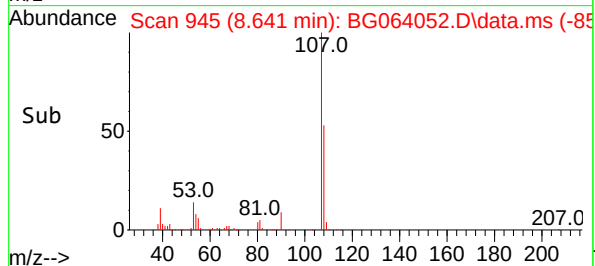
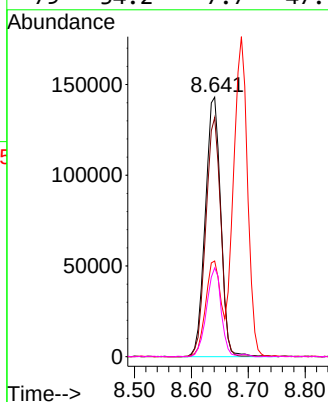
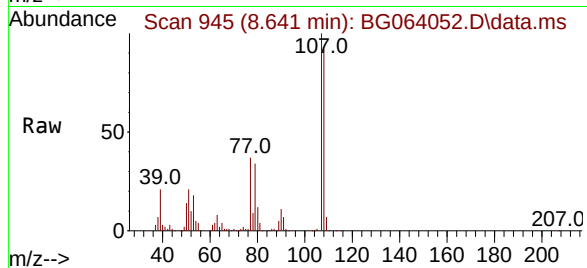
108 92.1 67.0 107.0

77 36.9 11.2 51.2

79 34.2 7.7 47.7

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.656 min Scan# 1288

Delta R.T. 0.000 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

Tgt Ion:136 Resp: 174562

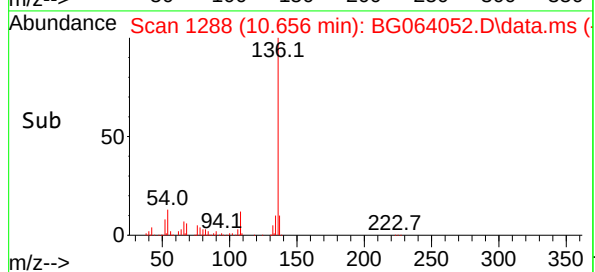
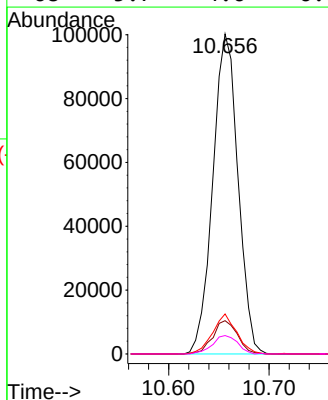
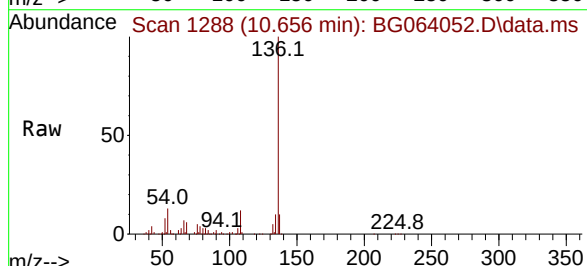
Ion Ratio Lower Upper

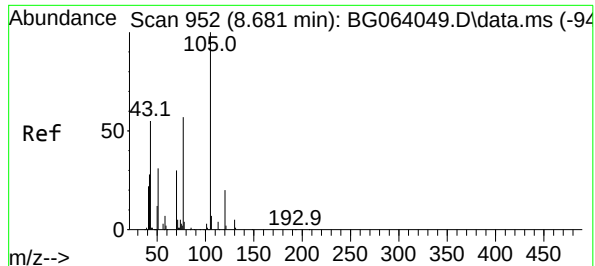
136 100

137 10.4 8.5 12.7

54 12.5 9.9 14.9

68 5.7 4.6 6.8





#22

Acetophenone

Concen: 79.207 ng

RT: 8.688 min Scan# 91

Delta R.T. 0.006 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

Instrument :

BNA\_G

ClientSampleId :

SSTDICC080

Tgt Ion:105 Resp: 37909

Ion Ratio Lower Upper

105 100

71 6.1 4.2 6.4

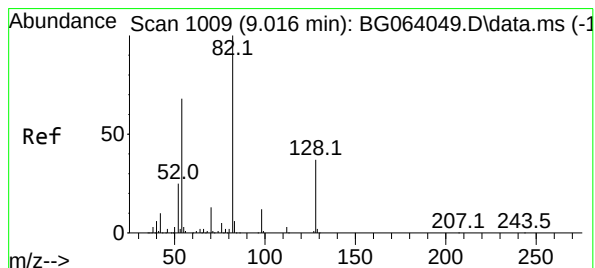
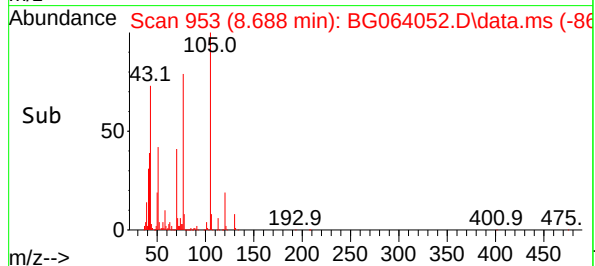
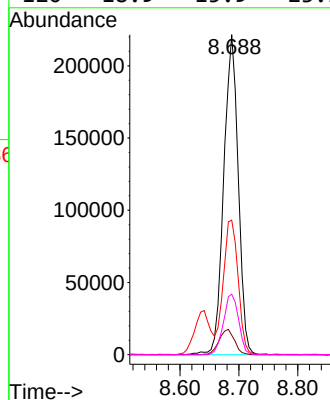
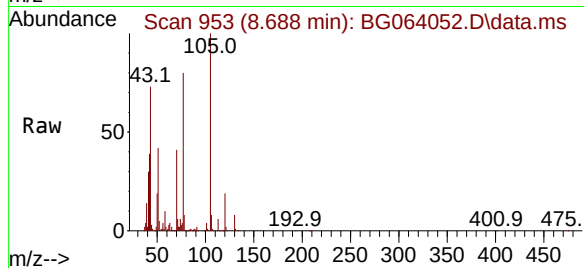
51 42.1 33.3 49.9

120 18.9 15.9 23.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025



#23

Nitrobenzene-d5

Concen: 180.687 ng

RT: 9.029 min Scan# 1011

Delta R.T. 0.012 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

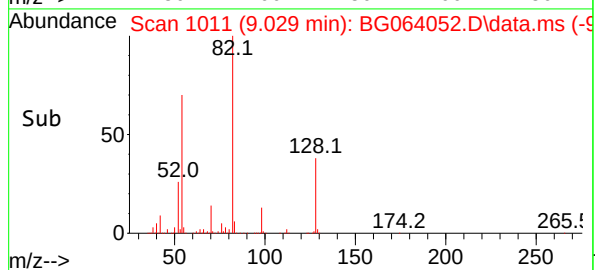
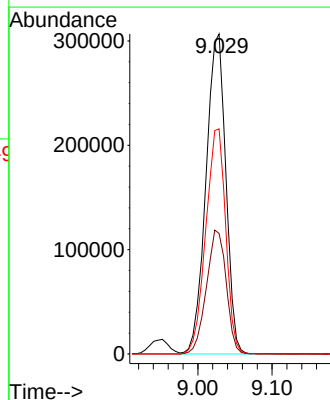
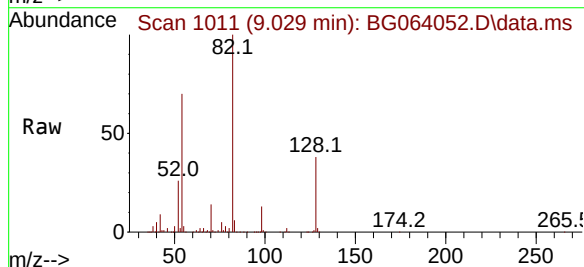
Tgt Ion: 82 Resp: 570757

Ion Ratio Lower Upper

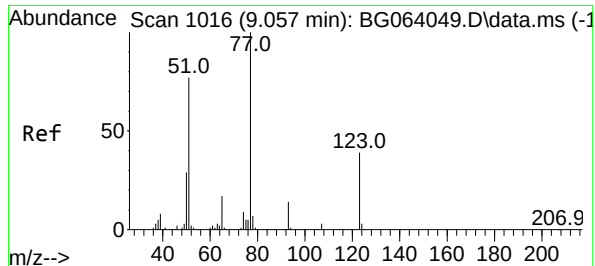
82 100

128 37.7 30.0 45.0

54 70.4 54.7 82.1







#24

Nitrobenzene

Concen: 87.518 ng

RT: 9.064 min Scan# 1107

Delta R.T. 0.006 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

Instrument :

BNA\_G

ClientSampleId :

SSTDICC080

Tgt Ion: 77 Resp: 28570

Ion Ratio Lower Upper

77 100

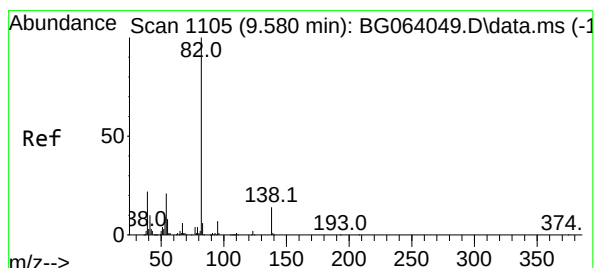
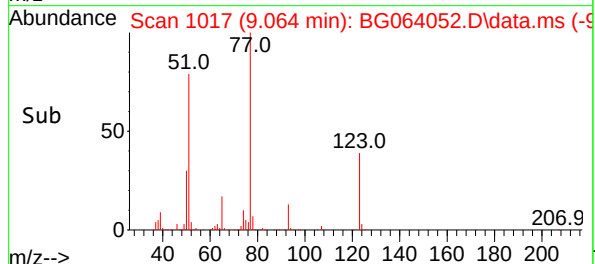
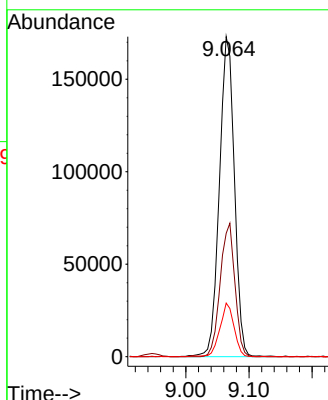
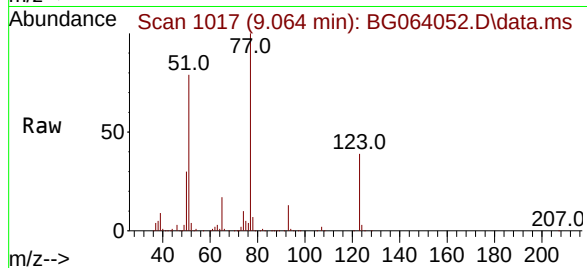
123 38.5 31.4 47.2

65 16.8 13.4 20.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025



#25

Isophorone

Concen: 80.266 ng

RT: 9.593 min Scan# 1107

Delta R.T. 0.012 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

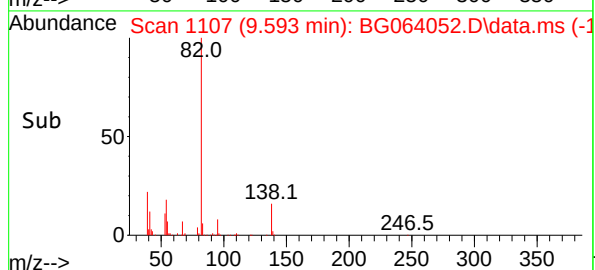
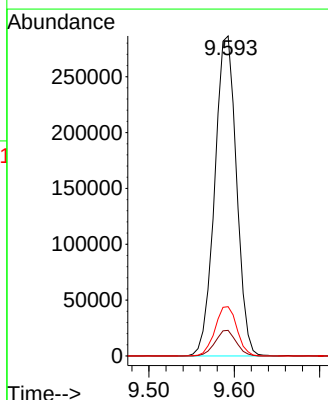
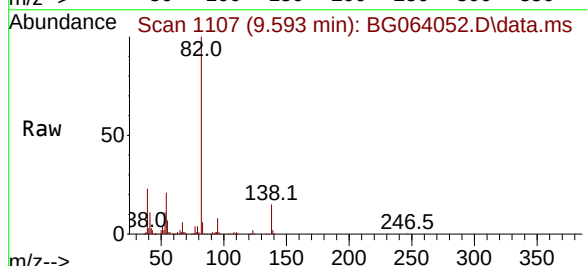
Tgt Ion: 82 Resp: 507481

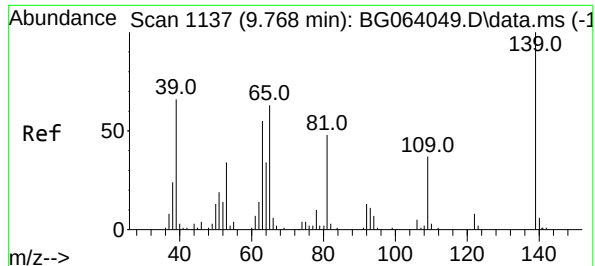
Ion Ratio Lower Upper

82 100

95 8.0 5.8 8.8

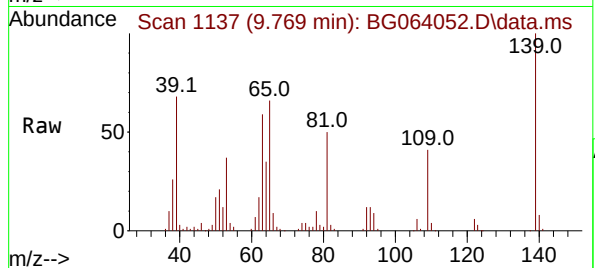
138 15.4 10.9 16.3





#26  
2-Nitrophenol  
Concen: 79.399 ng  
RT: 9.769 min Scan# 1137  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

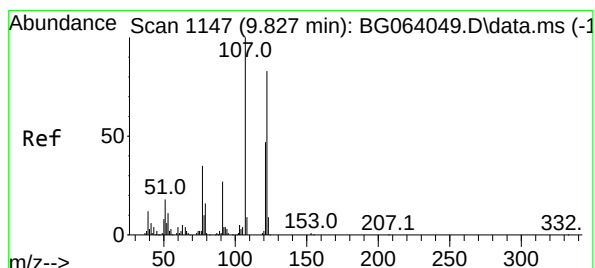
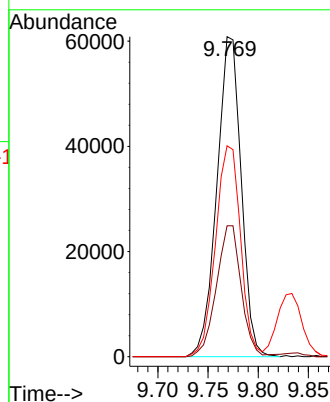
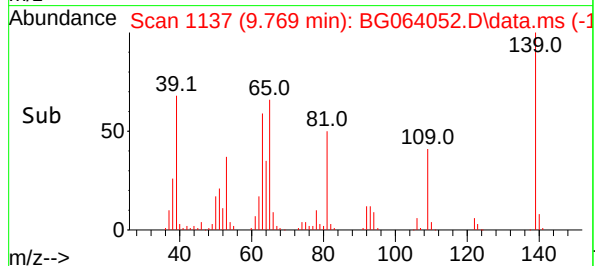
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:139 Resp: 102389  
Ion Ratio Lower Upper  
139 100  
109 40.9 29.9 44.9  
65 65.9 50.6 76.0

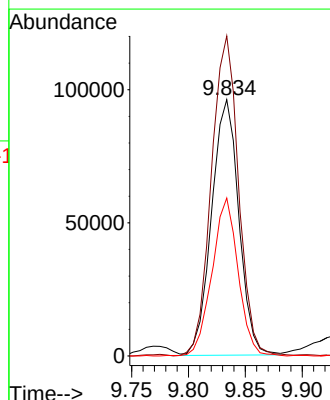
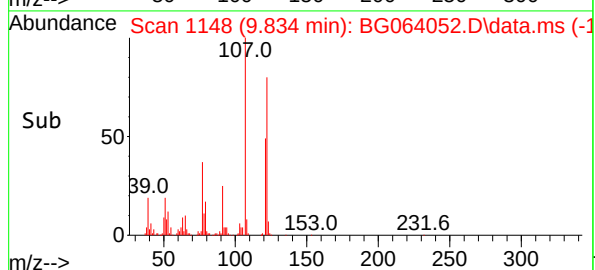
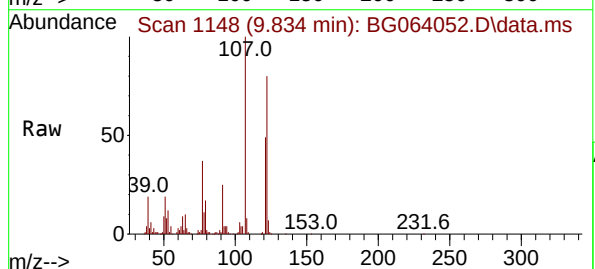
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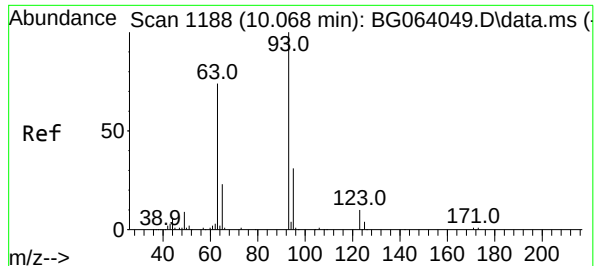
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#27  
2,4-Dimethylphenol  
Concen: 84.413 ng  
RT: 9.834 min Scan# 1148  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

Tgt Ion:122 Resp: 159995  
Ion Ratio Lower Upper  
122 100  
107 124.9 95.4 143.0  
121 61.6 44.9 67.3





#28

bis(2-Chloroethoxy)methane

Concen: 81.082 ng

RT: 10.074 min Scan# 1188

Delta R.T. 0.006 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

Instrument :

BNA\_G

ClientSampleId :

SSTDICC080

Tgt Ion: 93 Resp: 31080

Ion Ratio Lower Upper

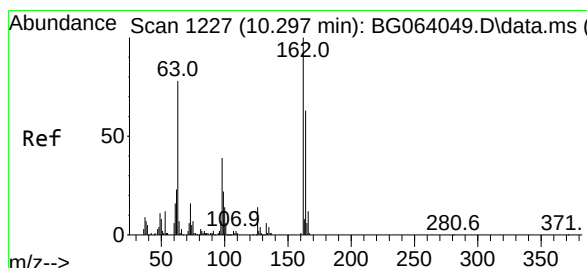
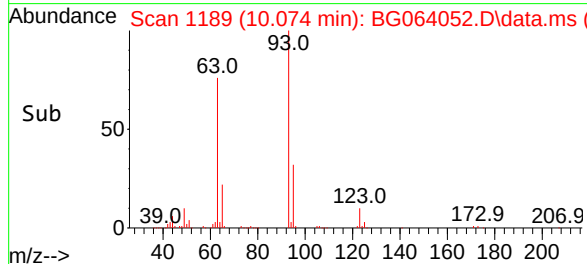
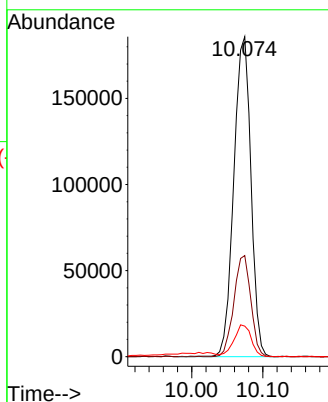
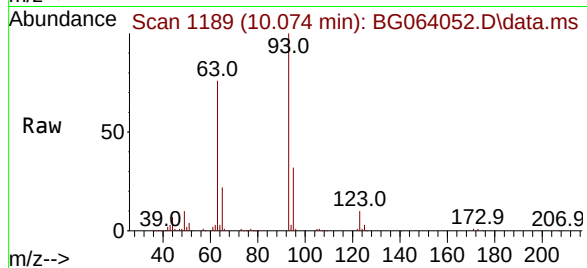
93 100

95 31.6 25.0 37.4

123 9.5 7.6 11.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#29

2,4-Dichlorophenol

Concen: 87.086 ng

RT: 10.304 min Scan# 1228

Delta R.T. 0.006 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

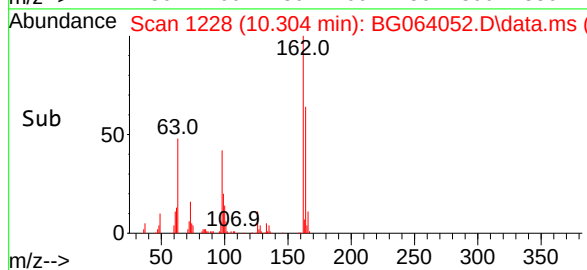
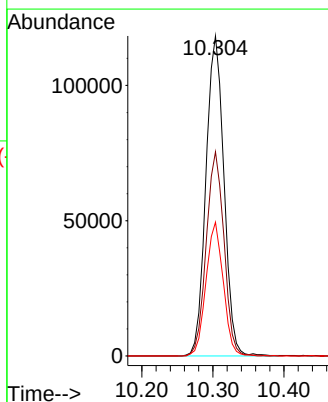
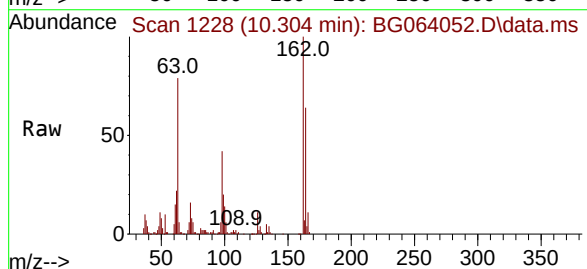
Tgt Ion:162 Resp: 208425

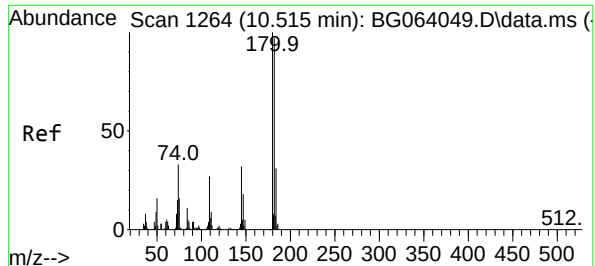
Ion Ratio Lower Upper

162 100

164 63.8 42.8 82.8

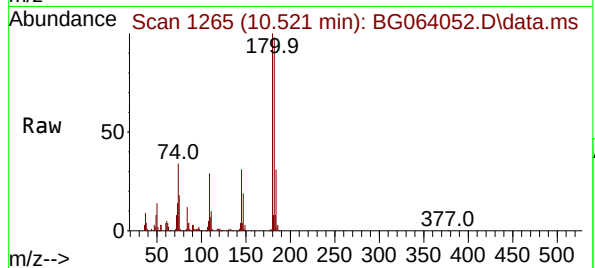
98 41.8 19.1 59.1





#30  
1,2,4-Trichlorobenzene  
Concen: 80.151 ng  
RT: 10.521 min Scan# 1265  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

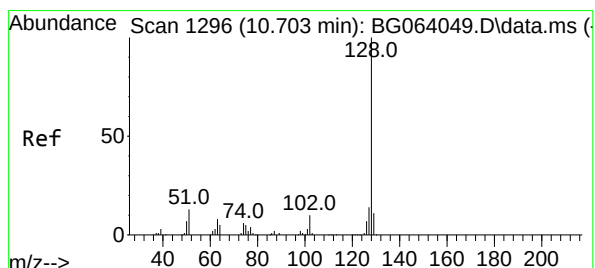
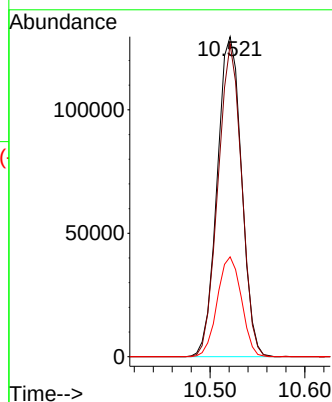
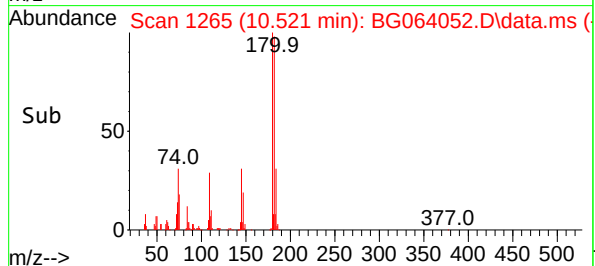
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:180 Resp: 231572  
Ion Ratio Lower Upper  
180 100  
182 97.7 77.3 115.9  
145 31.2 25.2 37.8

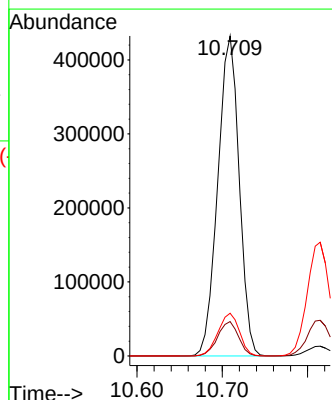
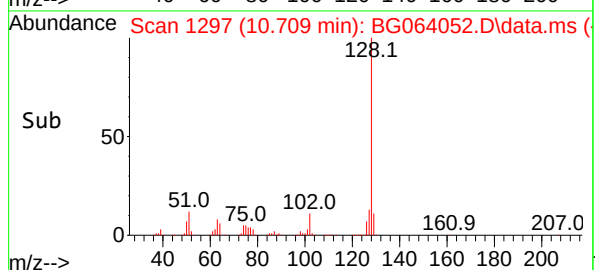
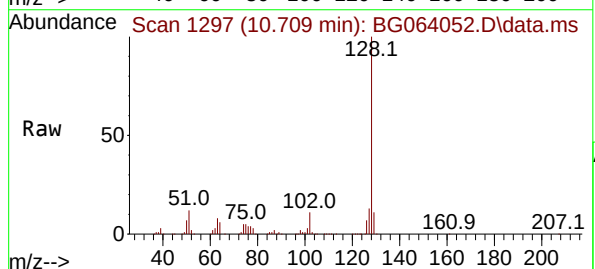
Manual Integrations  
APPROVED

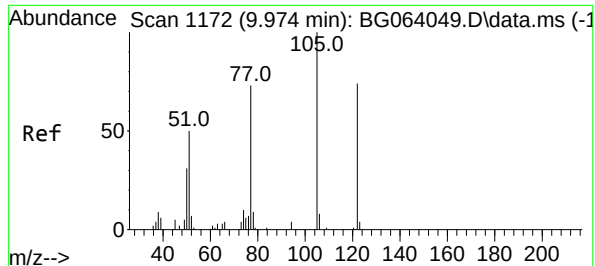
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#31  
Naphthalene  
Concen: 79.925 ng  
RT: 10.709 min Scan# 1297  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

Tgt Ion:128 Resp: 752327  
Ion Ratio Lower Upper  
128 100  
129 10.8 8.4 12.6  
127 13.3 11.1 16.7





#32

Benzoic acid

Concen: 81.016 ng m

RT: 10.022 min Scan# 1172

Delta R.T. 0.048 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

Instrument :

BNA\_G

ClientSampleId :

SSTDICC080

Tgt Ion:122 Resp: 153530

Ion Ratio Lower Upper

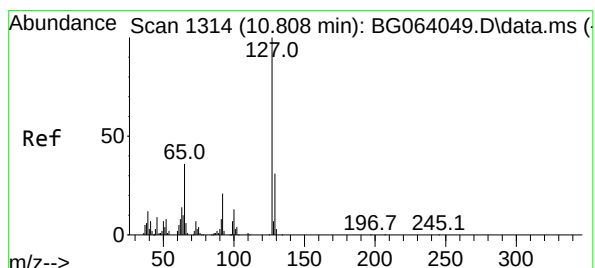
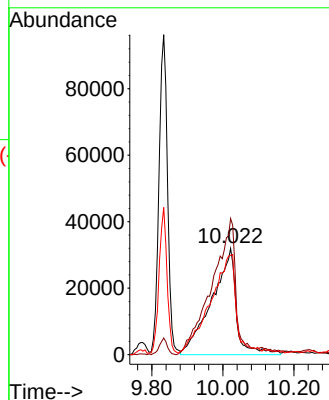
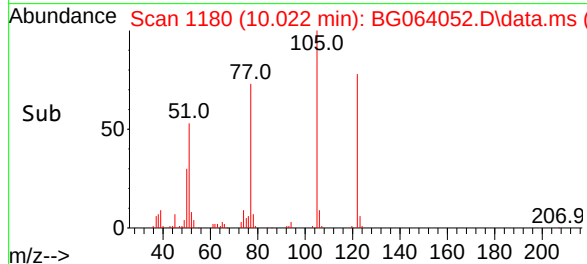
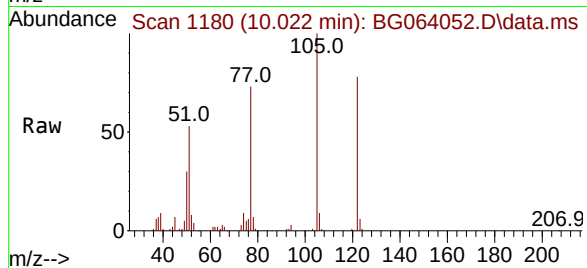
122 100

105 128.1 115.0 155.0

77 93.5 80.9 120.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#33

4-Chloroaniline

Concen: 81.948 ng

RT: 10.815 min Scan# 1315

Delta R.T. 0.006 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

Tgt Ion:127 Resp: 281930

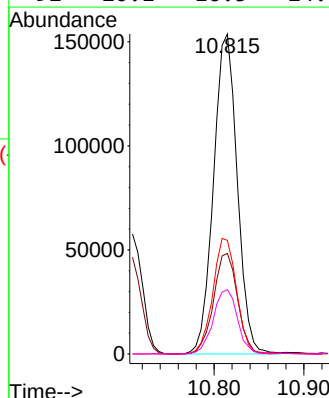
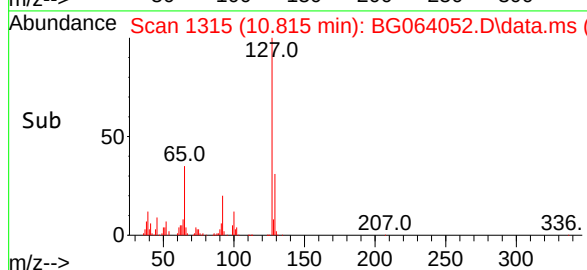
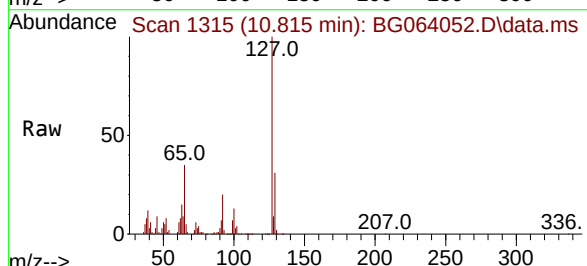
Ion Ratio Lower Upper

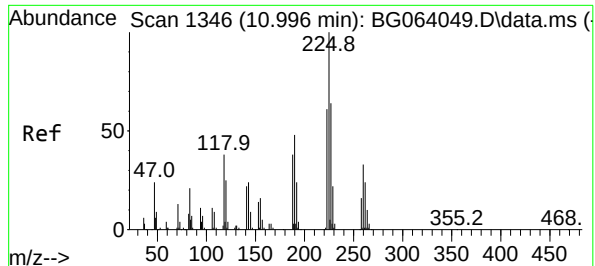
127 100

129 31.4 25.0 37.4

65 35.5 28.5 42.7

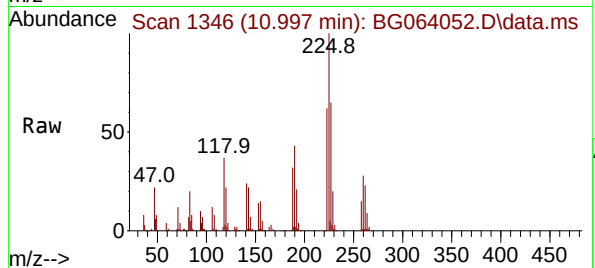
92 20.1 16.5 24.7





#34  
Hexachlorobutadiene  
Concen: 80.341 ng  
RT: 10.997 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

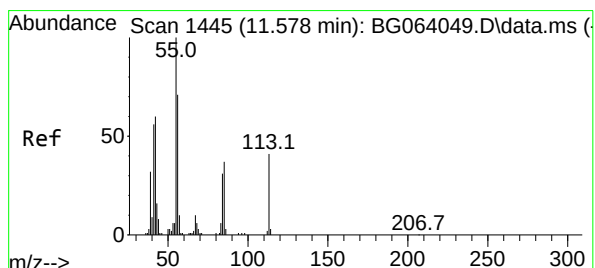
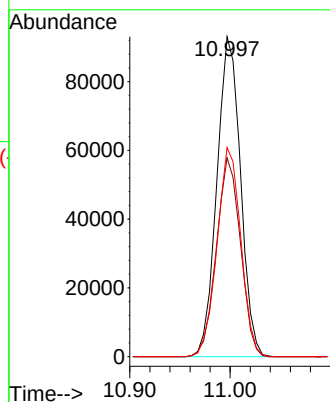
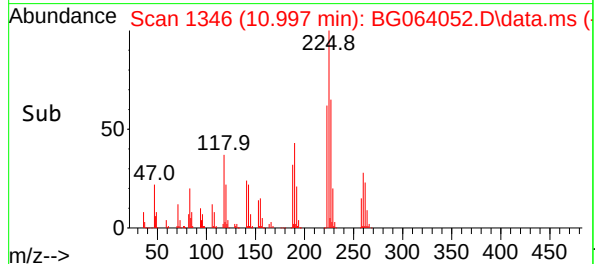
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:225 Resp: 152140  
Ion Ratio Lower Upper  
225 100  
223 62.1 48.5 72.7  
227 65.4 51.0 76.6

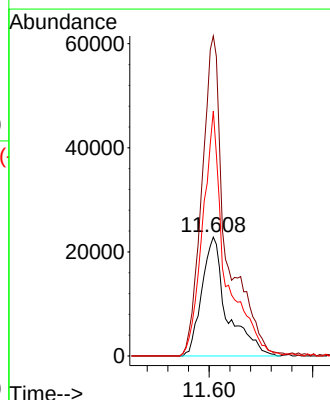
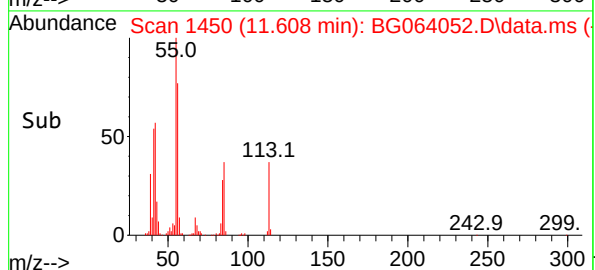
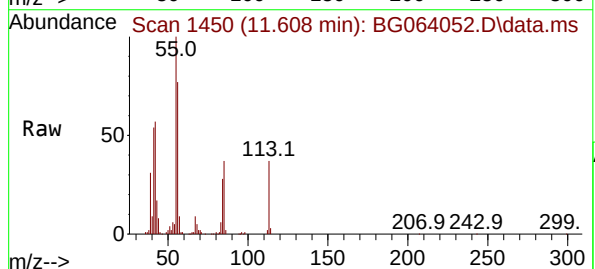
Manual Integrations  
APPROVED

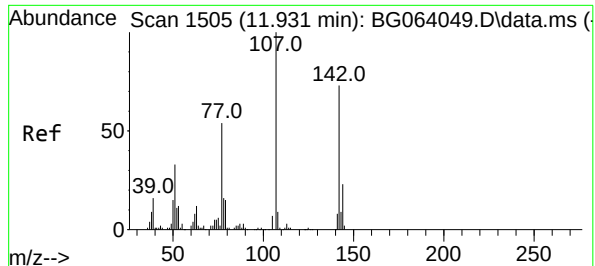
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#35  
Caprolactam  
Concen: 84.477 ng  
RT: 11.608 min Scan# 1450  
Delta R.T. 0.030 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

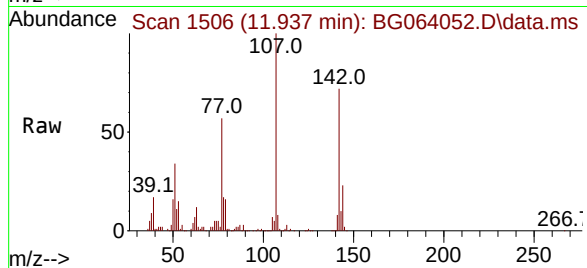
Tgt Ion:113 Resp: 77479  
Ion Ratio Lower Upper  
113 100  
55 269.1 225.2 265.2#  
56 206.0 153.4 193.4#





#36  
4-Chloro-3-methylphenol  
Concen: 83.772 ng  
RT: 11.937 min Scan# 1506  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

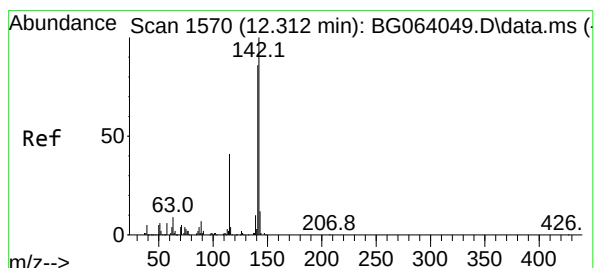
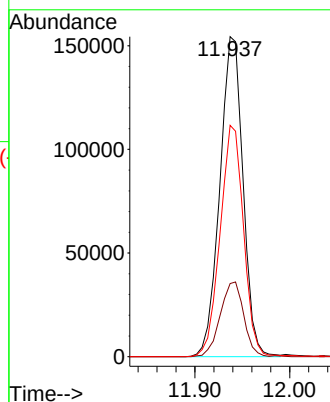
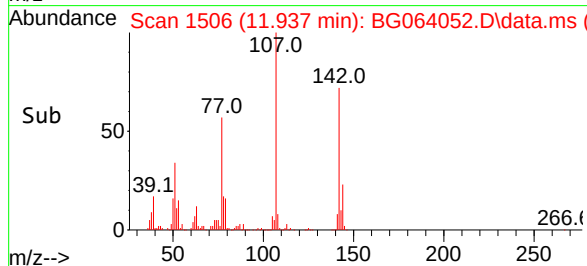
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:107 Resp: 262810  
Ion Ratio Lower Upper  
107 100  
144 22.9 18.6 28.0  
142 72.3 58.0 87.0

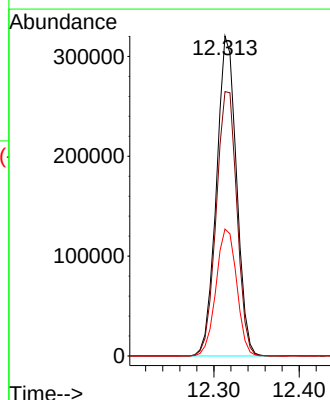
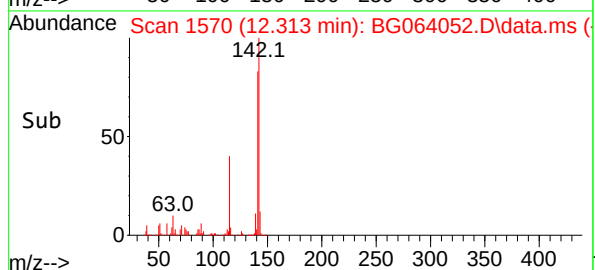
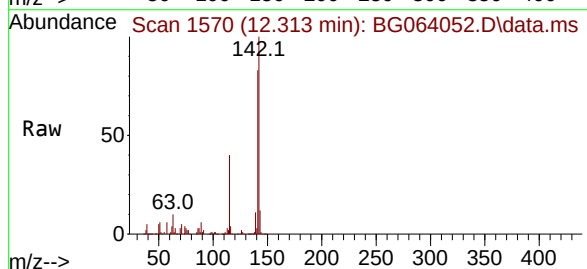
Manual Integrations  
APPROVED

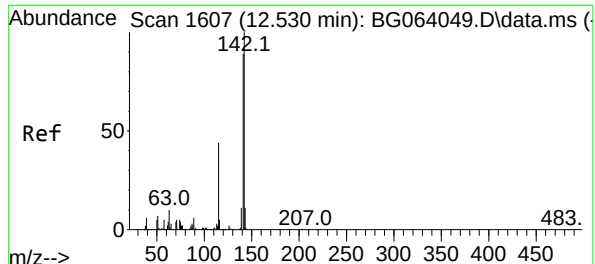
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#37  
2-Methylnaphthalene  
Concen: 78.886 ng  
RT: 12.313 min Scan# 1570  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

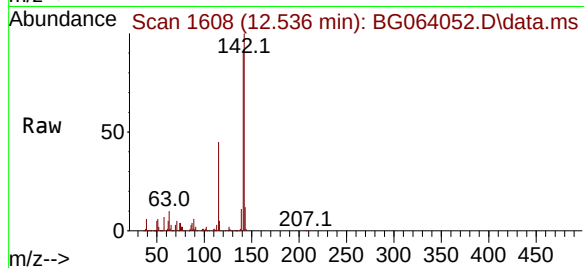
Tgt Ion:142 Resp: 524206  
Ion Ratio Lower Upper  
142 100  
141 82.6 68.6 103.0  
115 39.7 32.8 49.2





#38  
1-Methylnaphthalene  
Concen: 78.566 ng  
RT: 12.536 min Scan# 1608  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

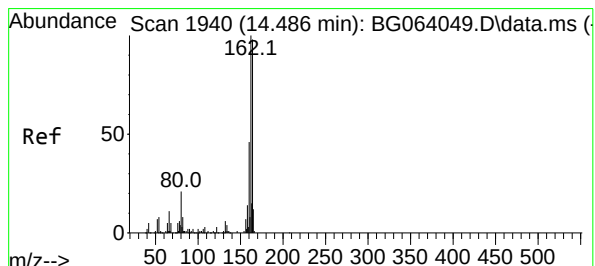
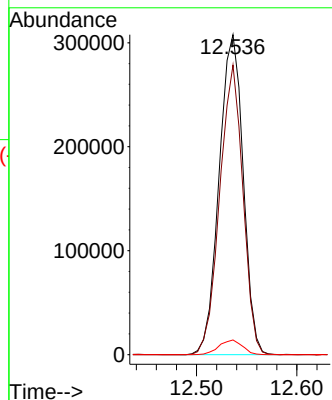
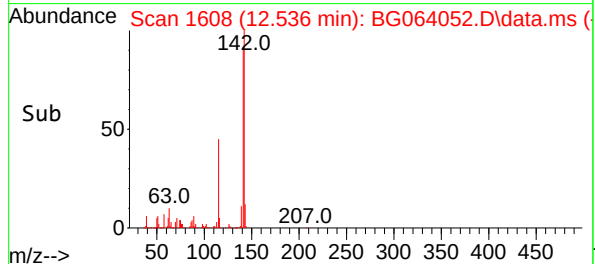
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:142 Resp: 51148  
Ion Ratio Lower Upper  
142 100  
141 90.5 71.2 106.8  
116 4.6 3.6 5.4

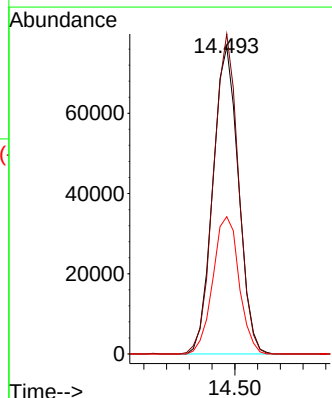
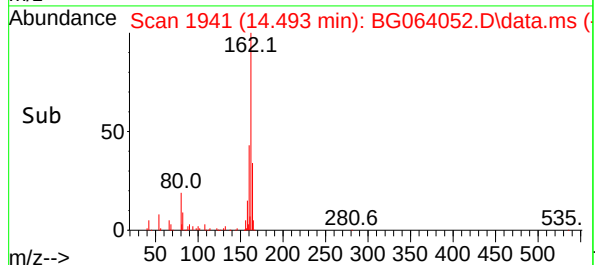
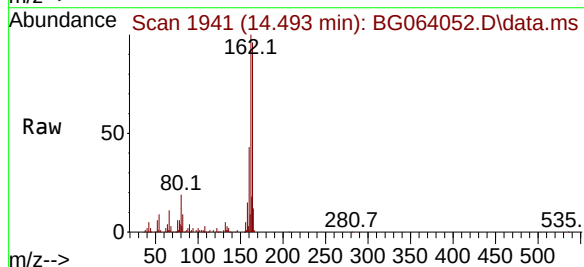
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

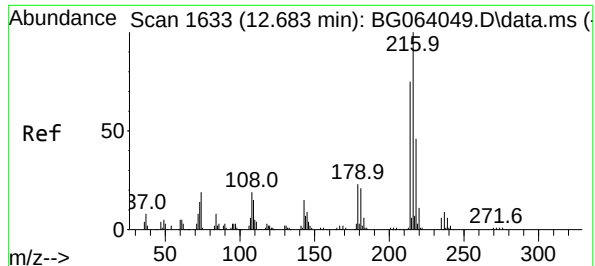


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.493 min Scan# 1941  
Delta R.T. 0.007 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

Tgt Ion:164 Resp: 119753  
Ion Ratio Lower Upper  
164 100  
162 104.2 81.4 122.0  
160 44.7 37.0 55.6

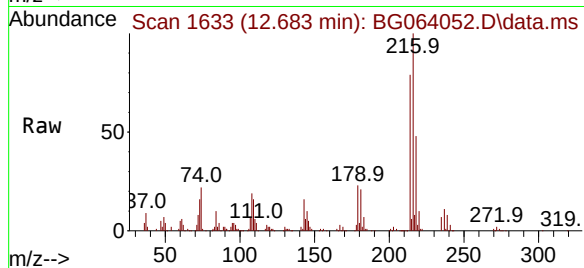






#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 79.289 ng  
RT: 12.683 min Scan# 1633  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

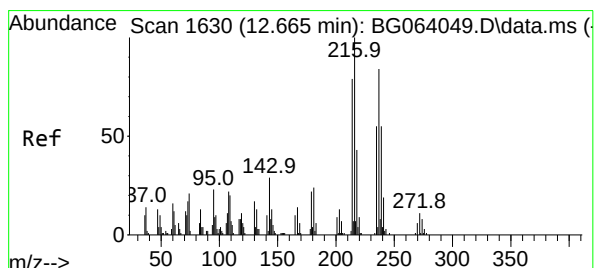
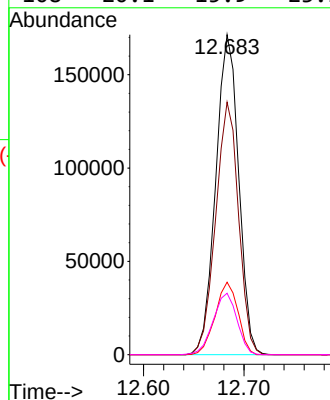
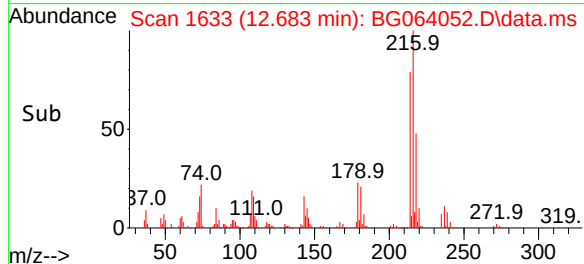
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



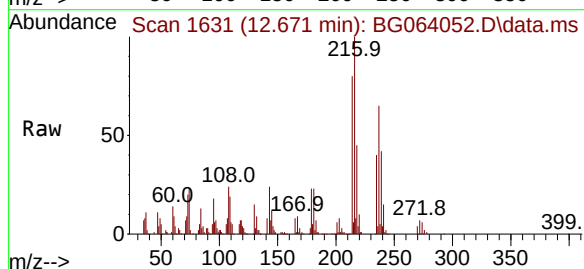
Tgt Ion:216 Resp: 271079  
Ion Ratio Lower Upper  
216 100  
214 78.7 61.7 92.5  
179 22.6 17.9 26.9  
108 20.1 15.9 23.9

Manual Integrations  
APPROVED

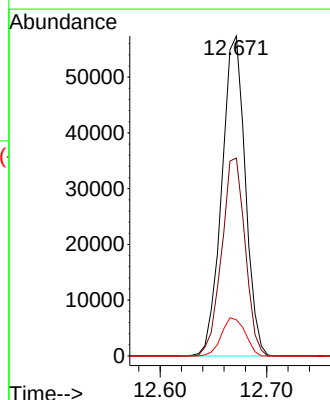
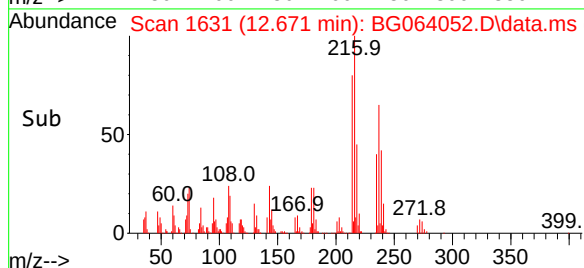
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

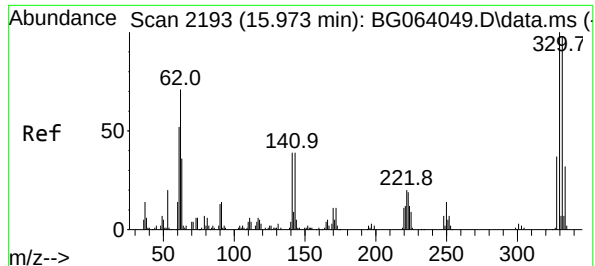


#41  
Hexachlorocyclopentadiene  
Concen: 91.141 ng  
RT: 12.671 min Scan# 1631  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44



Tgt Ion:237 Resp: 87700  
Ion Ratio Lower Upper  
237 100  
235 61.8 46.0 86.0  
272 11.3 0.0 32.8





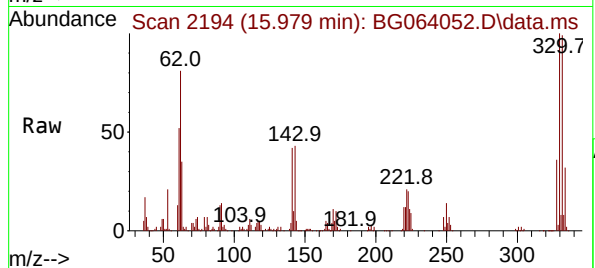
#42  
2,4,6-Tribromophenol  
Concen: 173.228 ng  
RT: 15.979 min Scan# 2194  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

Instrument :

BNA\_G

ClientSampleId :

SSTDICC080

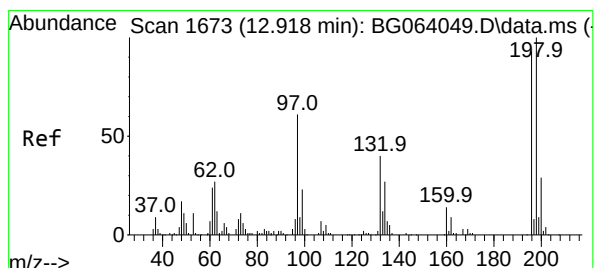
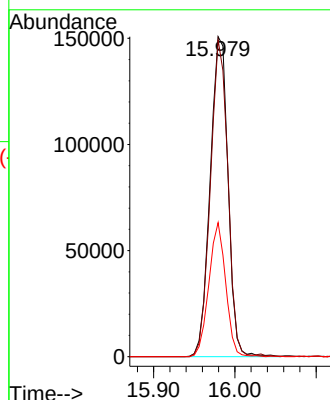
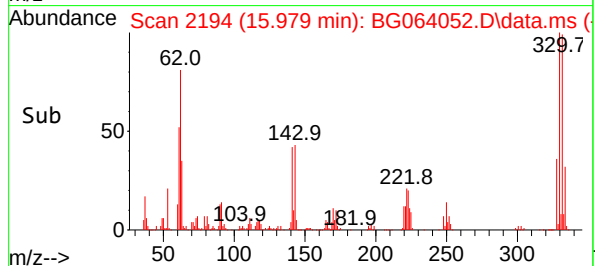


Tgt Ion:330 Resp: 230590  
Ion Ratio Lower Upper  
330 100  
332 96.2 76.7 115.1  
141 39.4 29.7 44.5

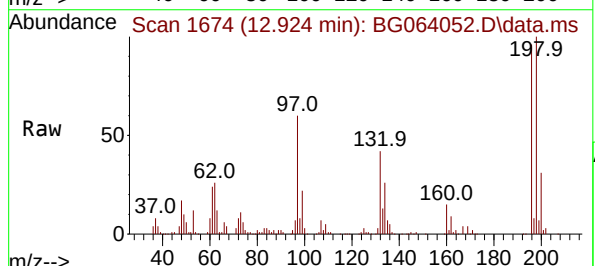
Manual Integrations

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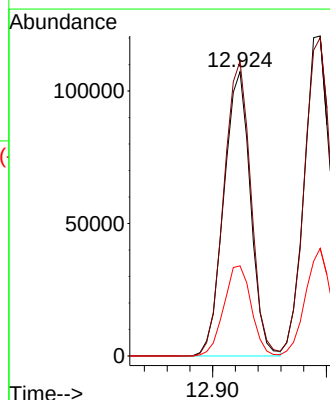
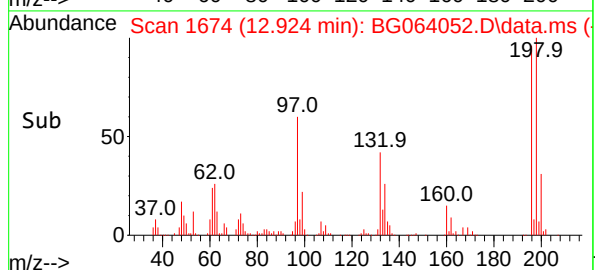
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

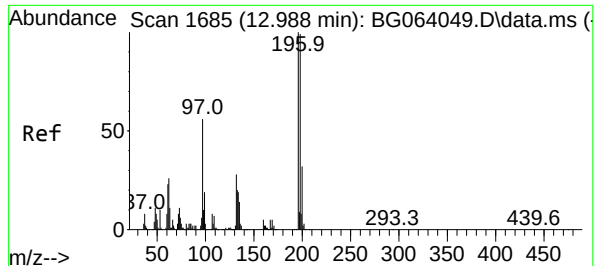


#43  
2,4,6-Trichlorophenol  
Concen: 86.966 ng  
RT: 12.924 min Scan# 1674  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44



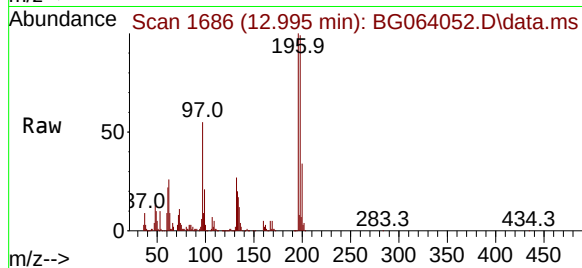
Tgt Ion:196 Resp: 175233  
Ion Ratio Lower Upper  
196 100  
198 103.7 85.6 128.4  
200 31.7 24.6 37.0





#44  
2,4,5-Trichlorophenol  
Concen: 88.360 ng  
RT: 12.995 min Scan# 1  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

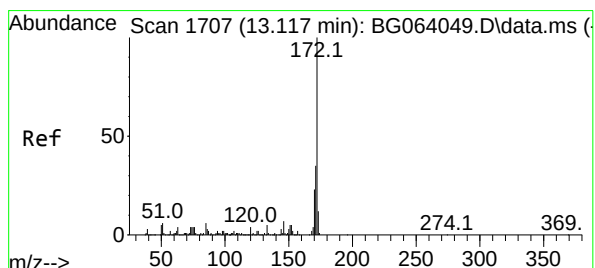
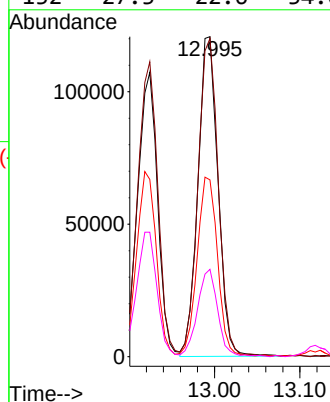
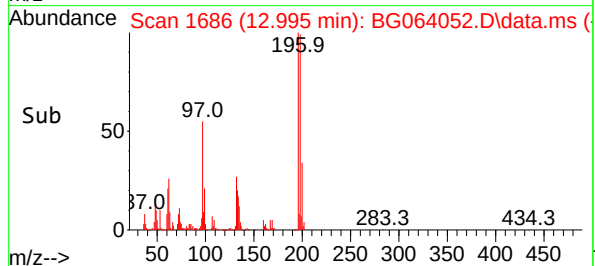
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:196 Resp: 19783  
Ion Ratio Lower Upper  
196 100  
198 99.5 79.5 119.3  
97 55.3 45.2 67.8  
132 27.3 22.6 34.0

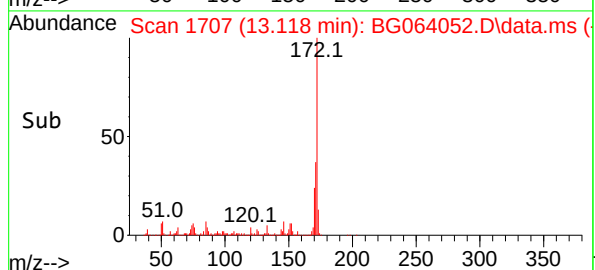
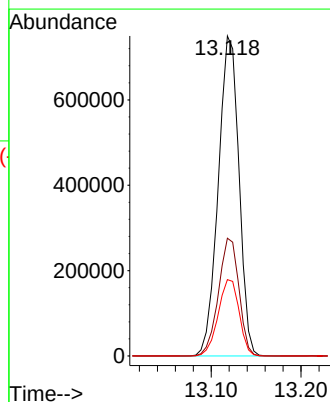
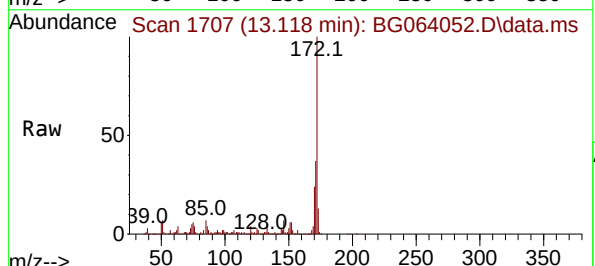
Manual Integrations  
APPROVED

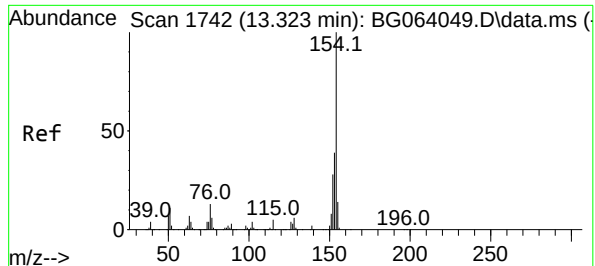
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#45  
2-Fluorobiphenyl  
Concen: 151.908 ng  
RT: 13.118 min Scan# 1707  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

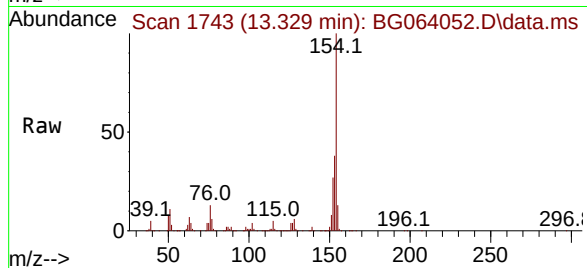
Tgt Ion:172 Resp: 1198476  
Ion Ratio Lower Upper  
172 100  
171 36.8 28.0 42.0  
170 23.9 18.7 28.1





#46  
1,1'-Biphenyl  
Concen: 78.106 ng  
RT: 13.329 min Scan# 1742  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

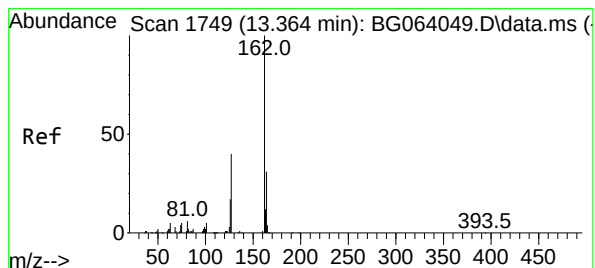
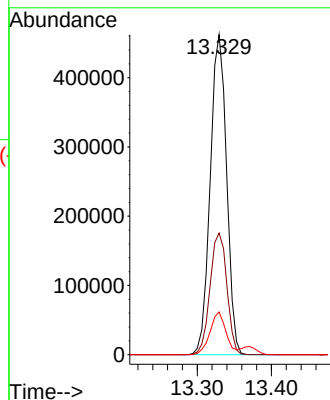
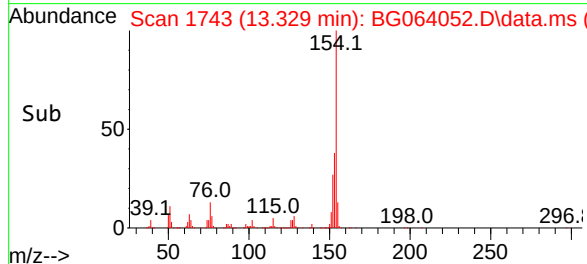
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



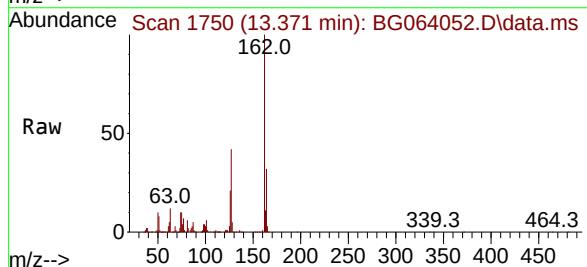
Tgt Ion:154 Resp: 706650  
Ion Ratio Lower Upper  
154 100  
153 38.0 19.5 59.5  
76 13.3 0.0 33.5

Manual Integrations  
APPROVED

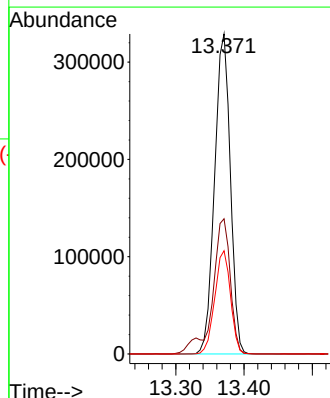
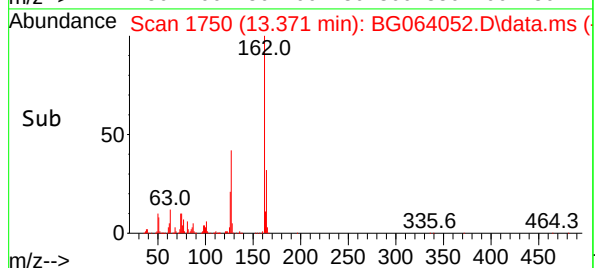
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

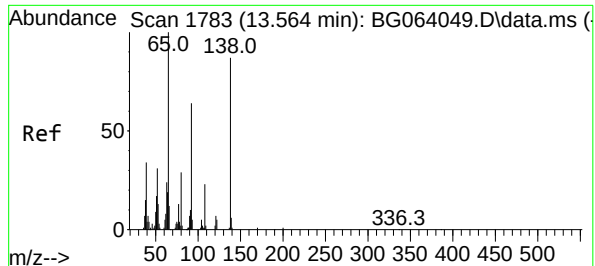


#47  
2-Chloronaphthalene  
Concen: 80.099 ng  
RT: 13.371 min Scan# 1750  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44



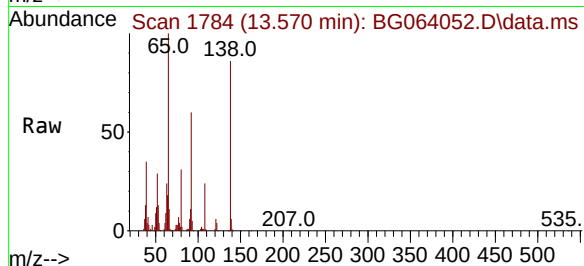
Tgt Ion:162 Resp: 528541  
Ion Ratio Lower Upper  
162 100  
127 42.2 35.0 52.4  
164 32.3 25.0 37.6





#48  
2-Nitroaniline  
Concen: 79.407 ng  
RT: 13.570 min Scan# 1784  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

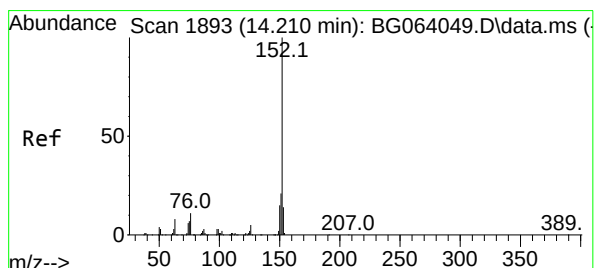
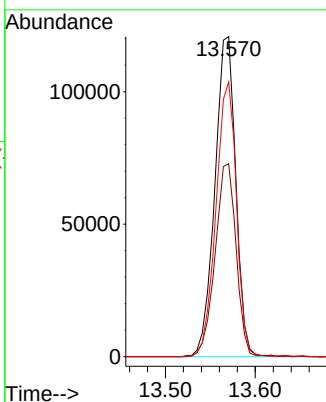
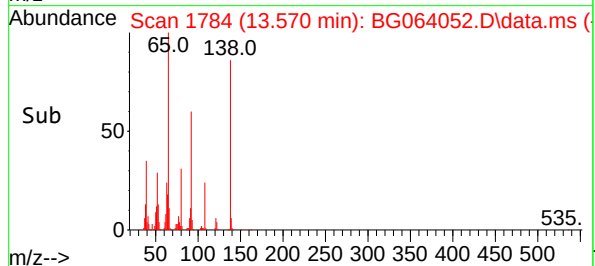
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



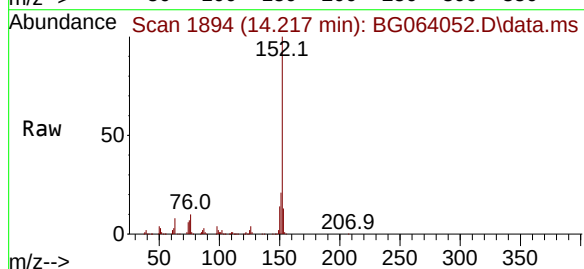
Tgt Ion: 65 Resp: 19536  
Ion Ratio Lower Upper  
65 100  
92 60.3 51.2 76.8  
138 85.9 69.4 104.2

Manual Integrations  
APPROVED

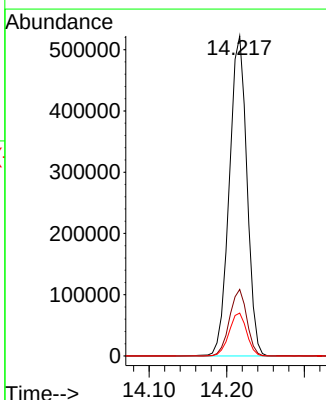
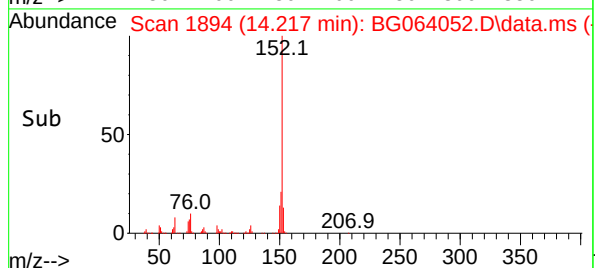
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

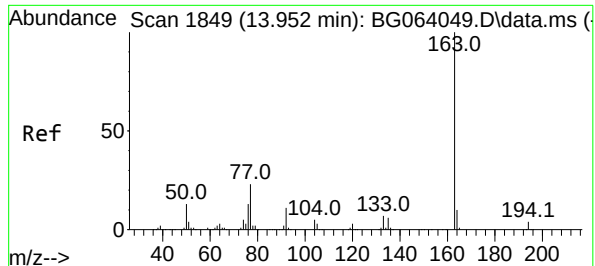


#49  
Acenaphthylene  
Concen: 78.787 ng  
RT: 14.217 min Scan# 1894  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44



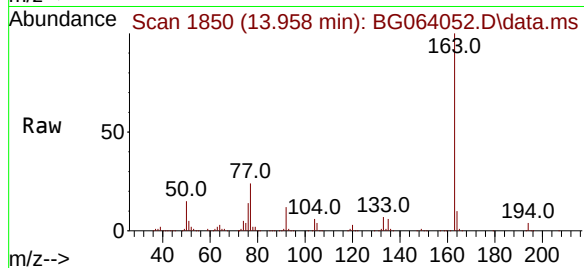
Tgt Ion:152 Resp: 822307  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.4 24.6  
153 13.4 10.9 16.3





#50  
Dimethylphthalate  
Concen: 78.689 ng  
RT: 13.958 min Scan# 1849  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

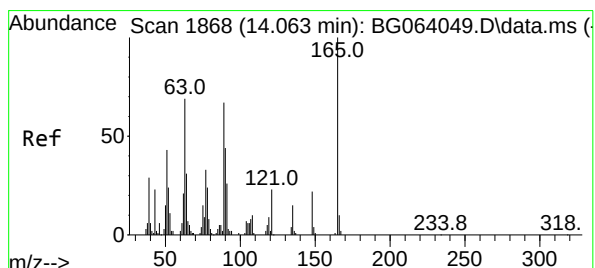
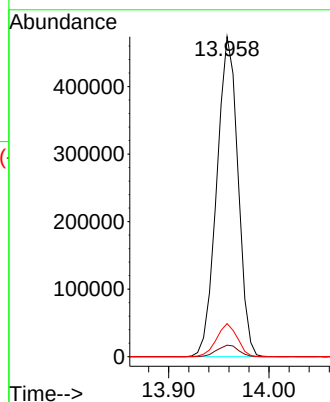
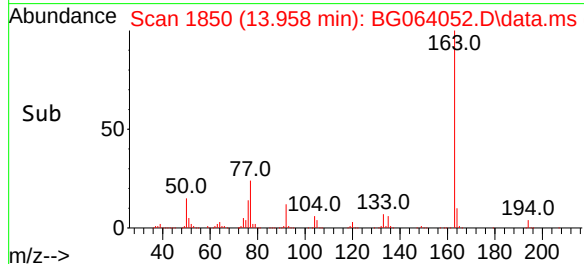
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:163 Resp: 695598  
Ion Ratio Lower Upper  
163 100  
194 3.6 2.8 4.2  
164 10.4 8.2 12.2

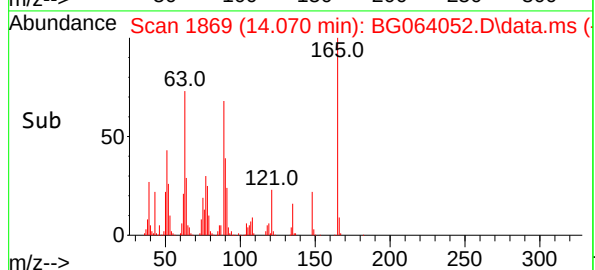
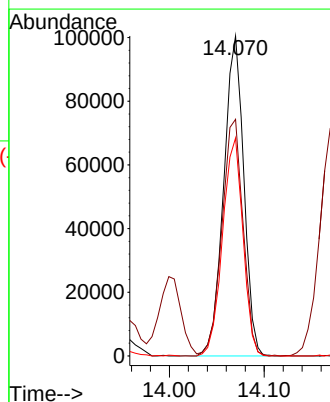
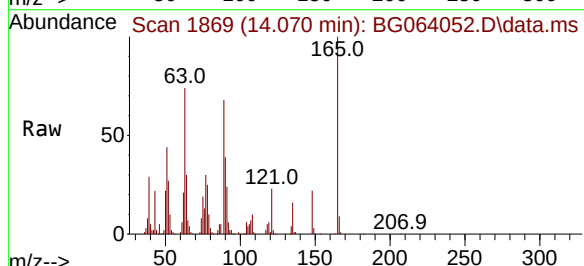
Manual Integrations  
APPROVED

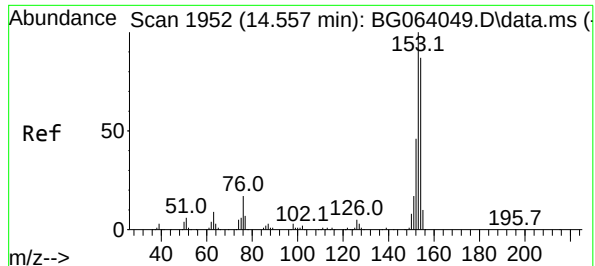
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#51  
2,6-Dinitrotoluene  
Concen: 79.965 ng  
RT: 14.070 min Scan# 1869  
Delta R.T. 0.007 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

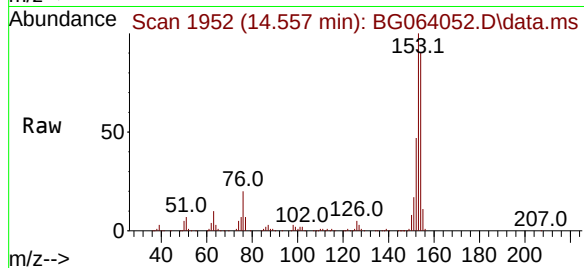
Tgt Ion:165 Resp: 147719  
Ion Ratio Lower Upper  
165 100  
63 74.0 56.7 85.1  
89 68.1 53.7 80.5





#52  
Acenaphthene  
Concen: 76.999 ng  
RT: 14.557 min Scan# 1952  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

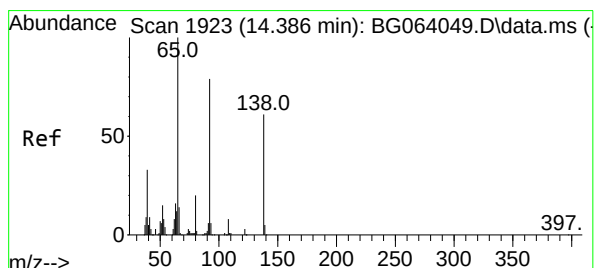
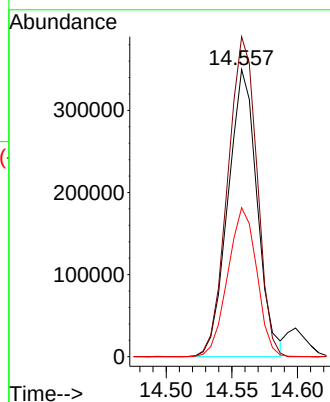
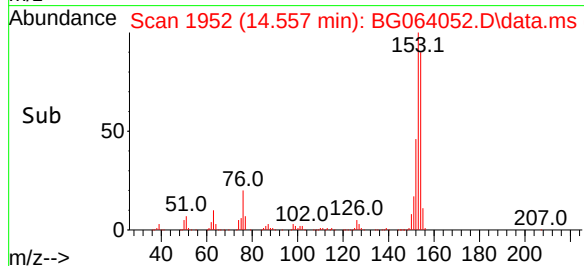
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



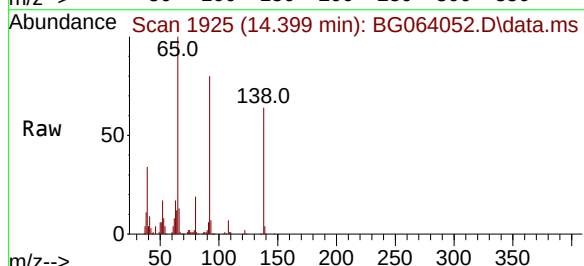
Tgt Ion:154 Resp: 540444  
Ion Ratio Lower Upper  
154 100  
153 111.4 91.6 137.4  
152 51.9 42.5 63.7

Manual Integrations  
APPROVED

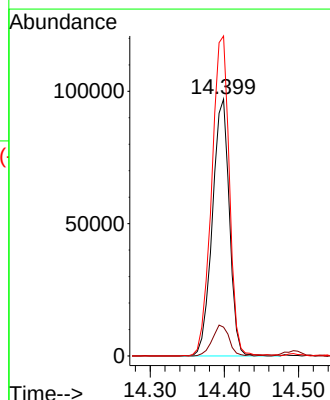
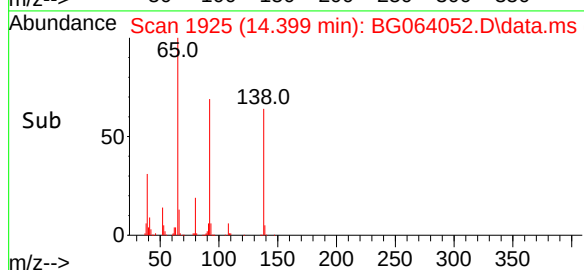
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

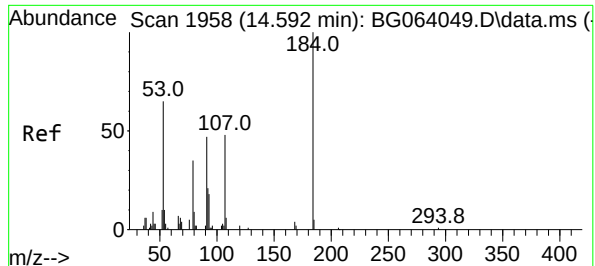


#53  
3-Nitroaniline  
Concen: 90.561 ng  
RT: 14.399 min Scan# 1925  
Delta R.T. 0.012 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44



Tgt Ion:138 Resp: 154723  
Ion Ratio Lower Upper  
138 100  
108 11.2 10.1 15.1  
92 124.6 104.1 156.1





#54  
2,4-Dinitrophenol  
Concen: 82.400 ng  
RT: 14.599 min Scan# 1959  
Delta R.T. 0.007 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

Instrument :

BNA\_G

ClientSampleId :

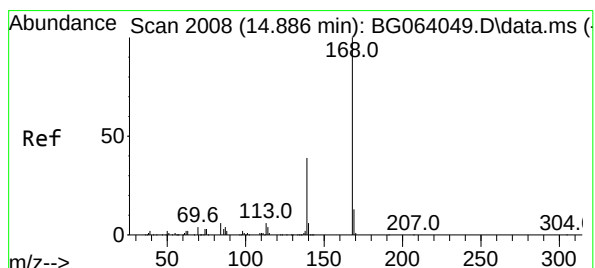
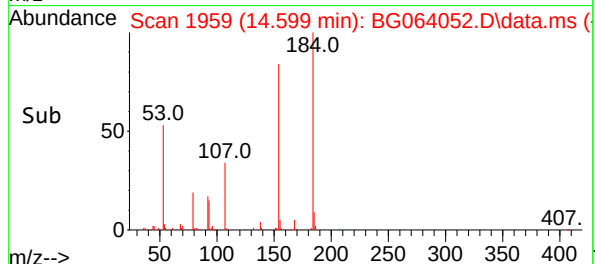
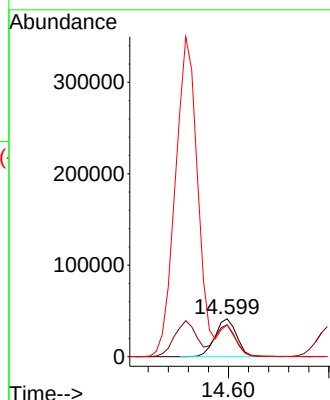
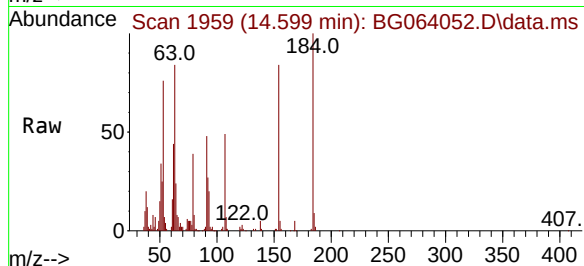
SSTDICC080

Tgt Ion:184 Resp: 61800  
Ion Ratio Lower Upper  
184 100  
63 84.0 57.5 86.3  
154 83.9 52.3 78.5

Manual Integrations

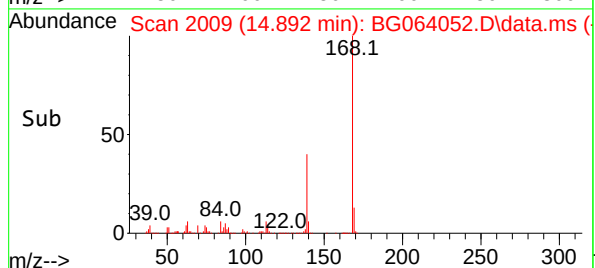
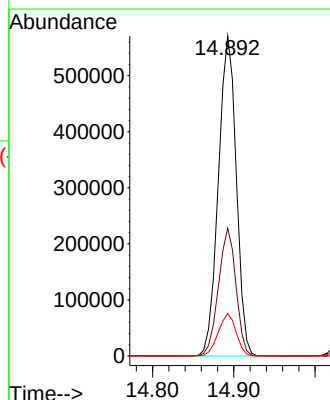
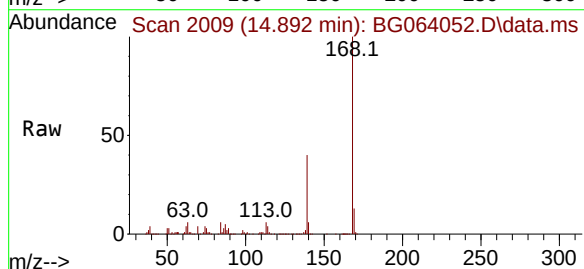
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

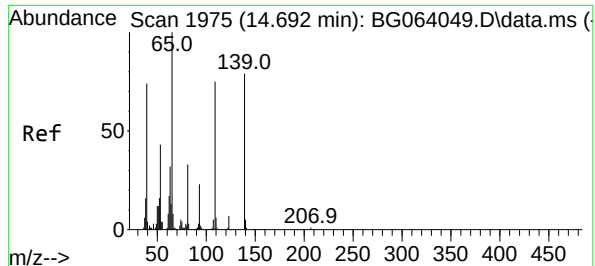


#55  
Dibenzofuran  
Concen: 77.066 ng  
RT: 14.892 min Scan# 2009  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

Tgt Ion:168 Resp: 874479  
Ion Ratio Lower Upper  
168 100  
139 40.0 31.1 46.7  
169 13.2 10.5 15.7

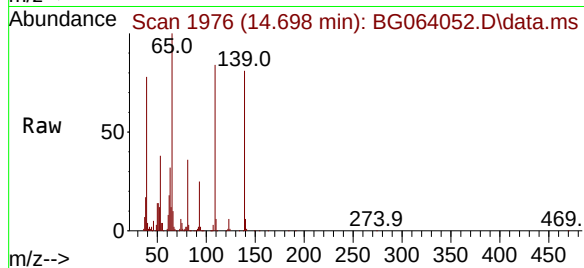






#56  
4-Nitrophenol  
Concen: 88.621 ng  
RT: 14.698 min Scan# 1975  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

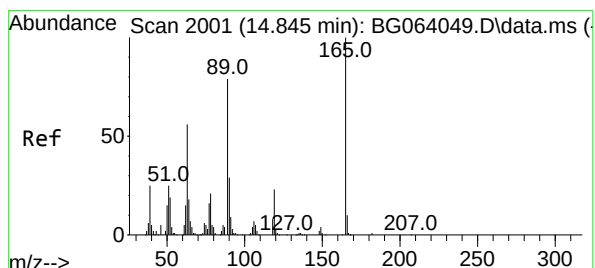
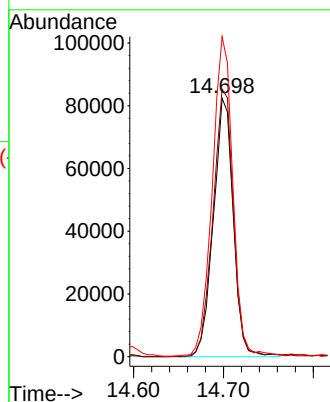
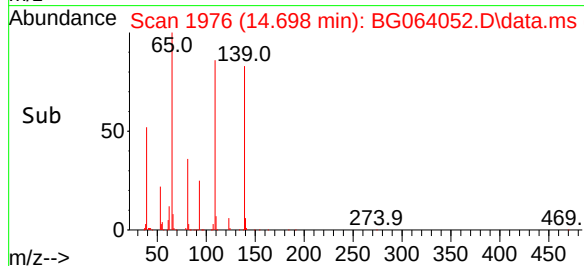
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:139 Resp: 12698  
Ion Ratio Lower Upper  
139 100  
109 103.5 74.9 114.9  
65 123.8 106.8 146.8

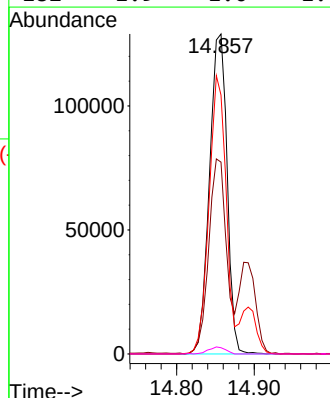
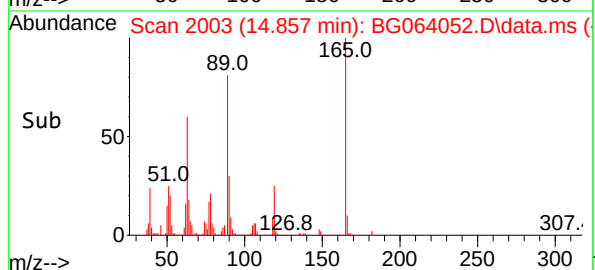
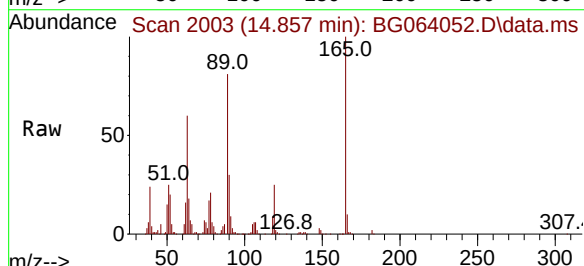
Manual Integrations  
APPROVED

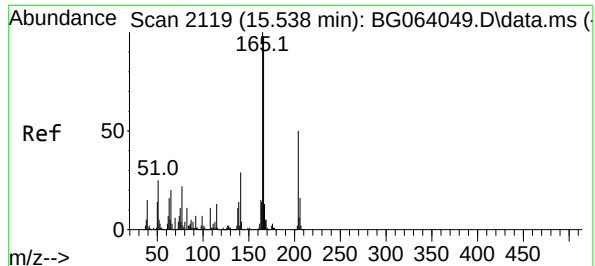
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#57  
2,4-Dinitrotoluene  
Concen: 79.564 ng  
RT: 14.857 min Scan# 2003  
Delta R.T. 0.012 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

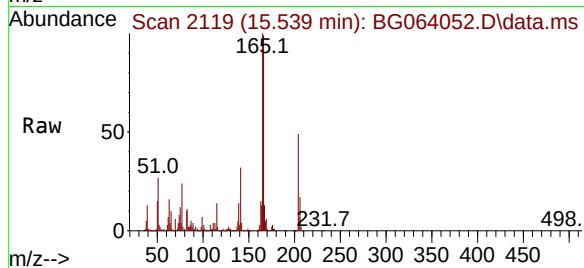
Tgt Ion:165 Resp: 203301  
Ion Ratio Lower Upper  
165 100  
63 60.0 45.0 67.6  
89 80.9 63.1 94.7  
182 1.9 1.0 1.4#





#58  
Fluorene  
Concen: 75.593 ng  
RT: 15.539 min Scan# 2119  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

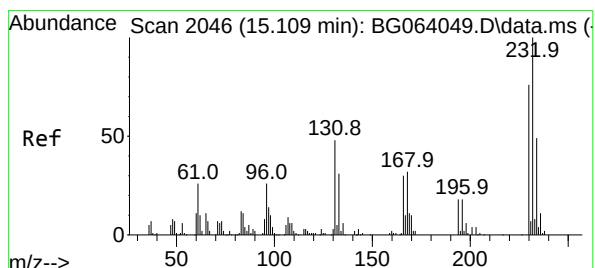
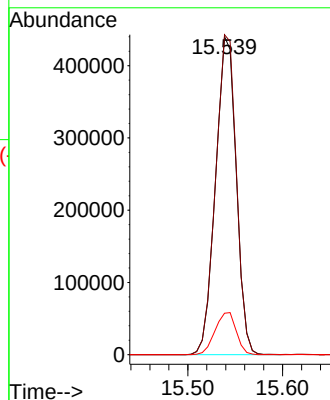
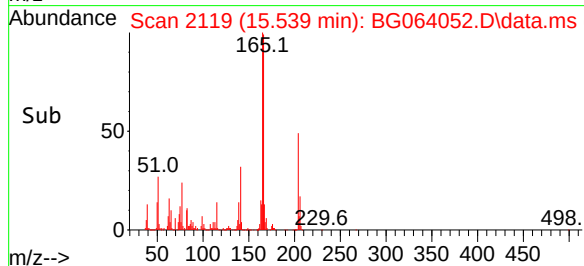
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



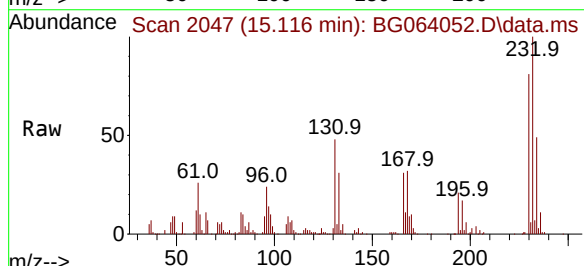
Tgt Ion:166 Resp: 668072  
Ion Ratio Lower Upper  
166 100  
165 100.6 81.8 122.8  
167 13.0 10.8 16.2

Manual Integrations  
APPROVED

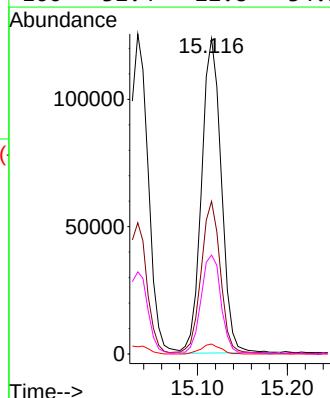
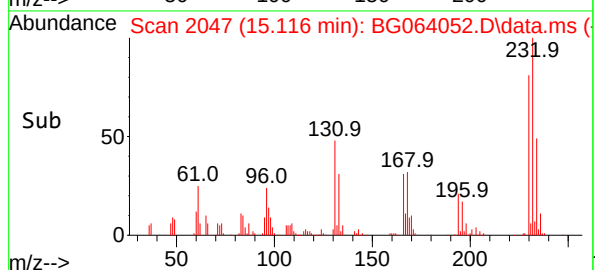
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

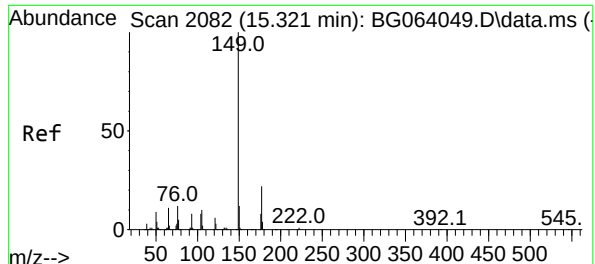


#59  
2,3,4,6-Tetrachlorophenol  
Concen: 86.273 ng  
RT: 15.116 min Scan# 2047  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44



Tgt Ion:232 Resp: 188307  
Ion Ratio Lower Upper  
232 100  
131 47.8 36.3 54.5  
130 3.1 1.9 2.9#  
166 32.4 22.8 34.2





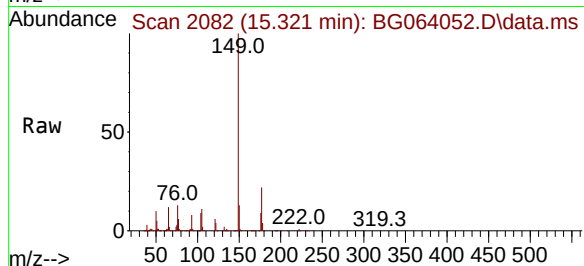
#60  
Diethylphthalate  
Concen: 79.055 ng  
RT: 15.321 min Scan# 2082  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

Instrument :

BNA\_G

ClientSampleId :

SSTDICC080

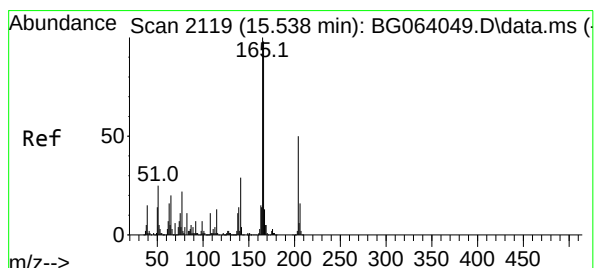
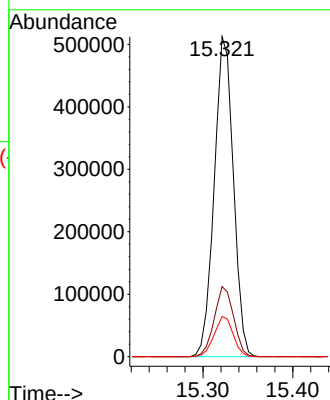
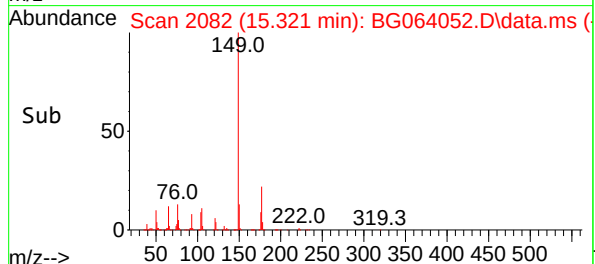


Tgt Ion:149 Resp: 758650  
Ion Ratio Lower Upper  
149 100  
177 21.9 17.4 26.2  
150 12.6 9.4 14.2

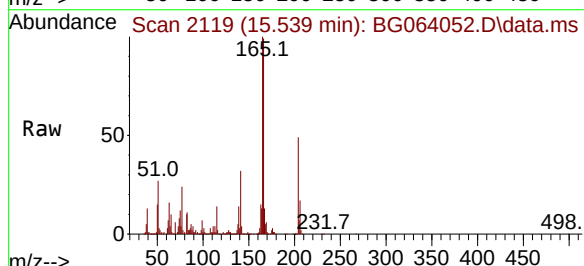
Manual Integrations

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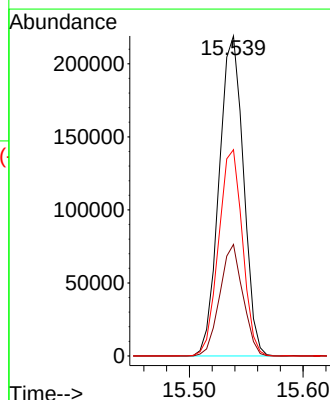
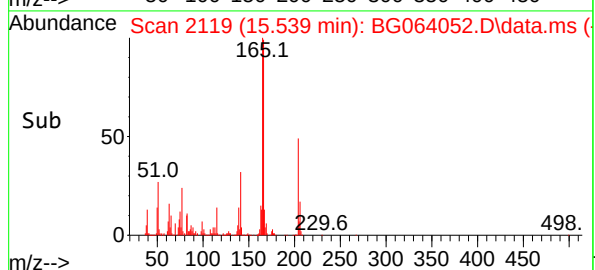
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

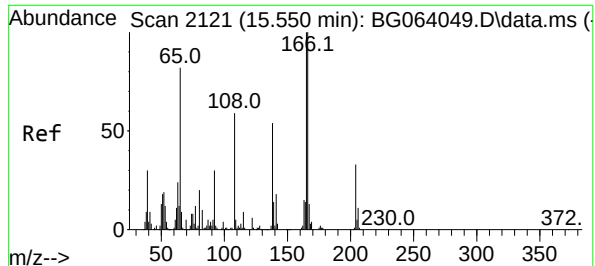


#61  
4-Chlorophenyl-phenylether  
Concen: 74.261 ng  
RT: 15.539 min Scan# 2119  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44



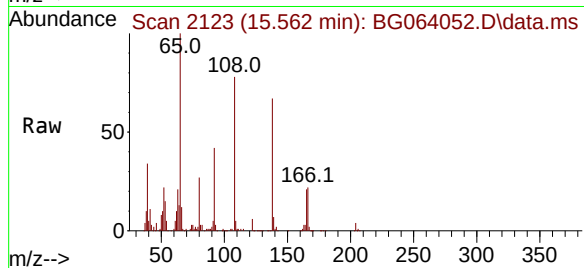
Tgt Ion:204 Resp: 326141  
Ion Ratio Lower Upper  
204 100  
206 34.8 25.5 38.3  
141 64.4 45.4 68.0





#62  
4-Nitroaniline  
Concen: 86.459 ng  
RT: 15.562 min Scan# 2123  
Delta R.T. 0.012 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

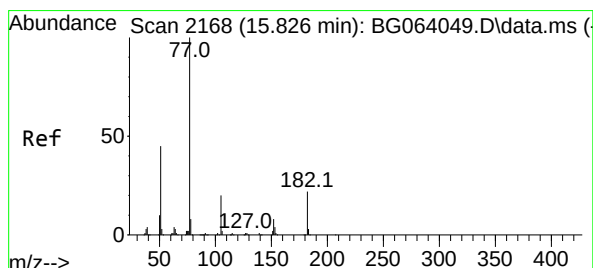
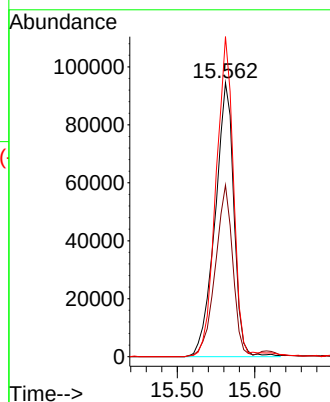
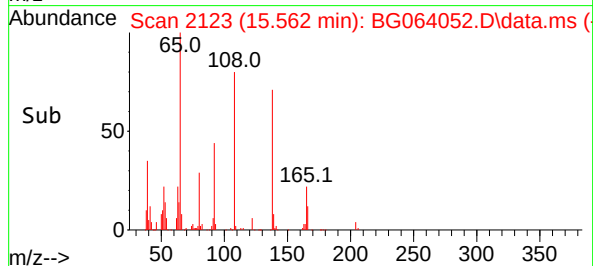
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:138 Resp: 159478  
Ion Ratio Lower Upper  
138 100  
92 62.6 36.1 76.1  
108 116.8 87.9 127.9

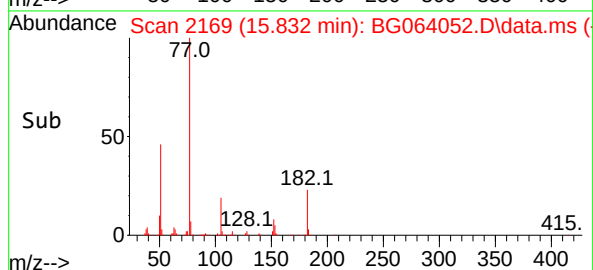
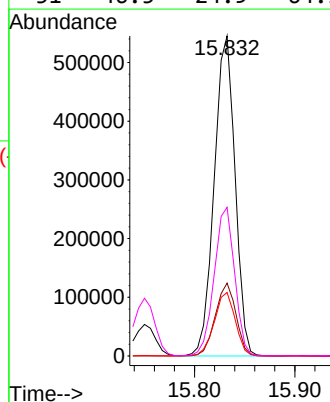
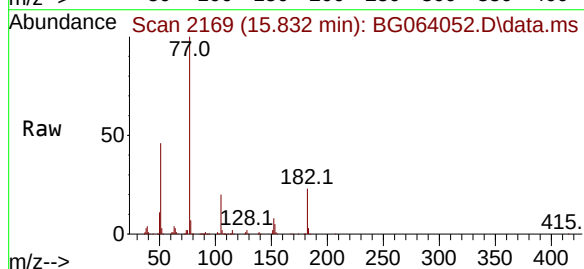
Manual Integrations  
APPROVED

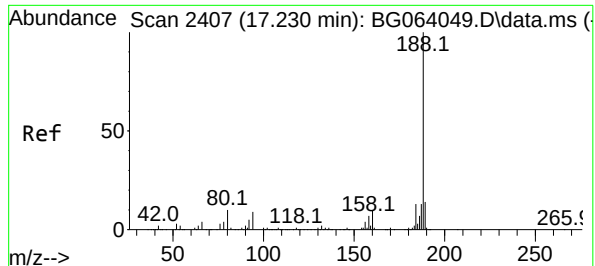
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#63  
Azobenzene  
Concen: 76.893 ng  
RT: 15.832 min Scan# 2169  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

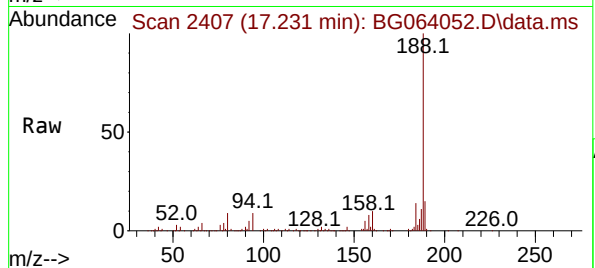
Tgt Ion: 77 Resp: 787412  
Ion Ratio Lower Upper  
77 100  
182 22.8 2.4 42.4  
105 19.9 0.0 40.0  
51 46.5 24.9 64.9





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.231 min Scan# 2407  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

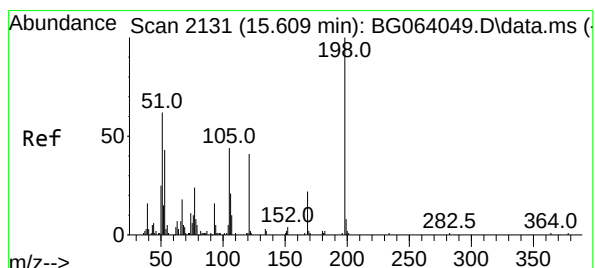
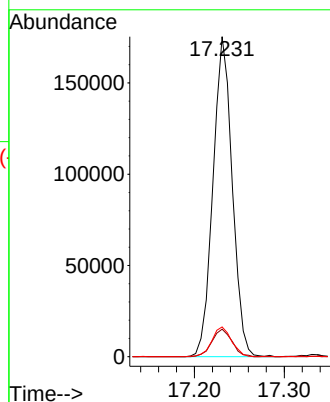
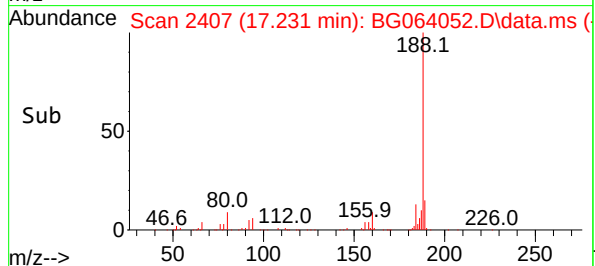
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:188 Resp: 26135  
Ion Ratio Lower Upper  
188 100  
94 8.6 6.9 10.3  
80 9.3 8.1 12.1

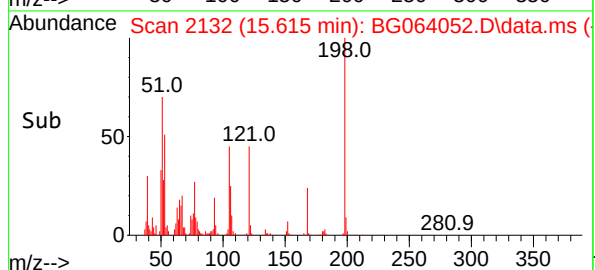
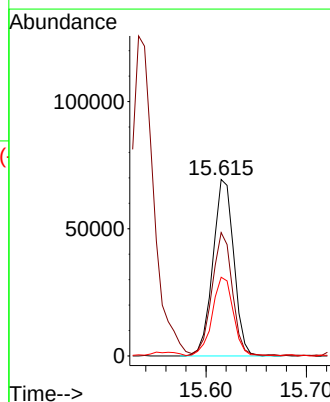
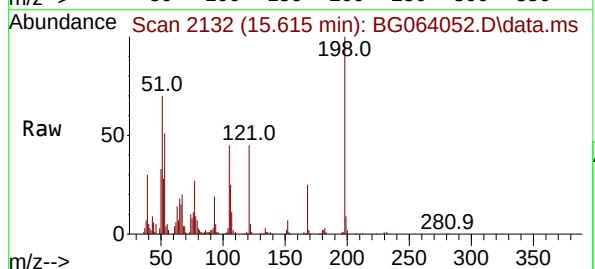
Manual Integrations  
APPROVED

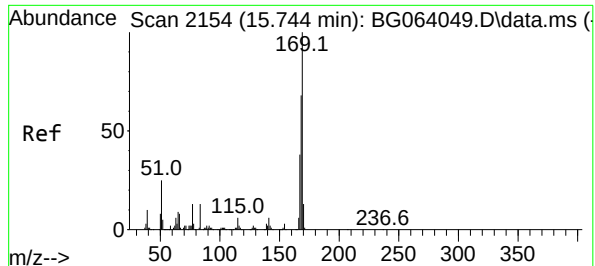
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#65  
4,6-Dinitro-2-methylphenol  
Concen: 81.905 ng  
RT: 15.615 min Scan# 2132  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

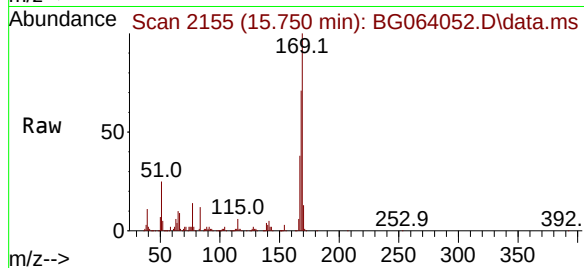
Tgt Ion:198 Resp: 100338  
Ion Ratio Lower Upper  
198 100  
51 69.9 45.6 85.6  
105 44.6 25.3 65.3





#66  
n-Nitrosodiphenylamine  
Concen: 79.884 ng  
RT: 15.750 min Scan# 2154  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

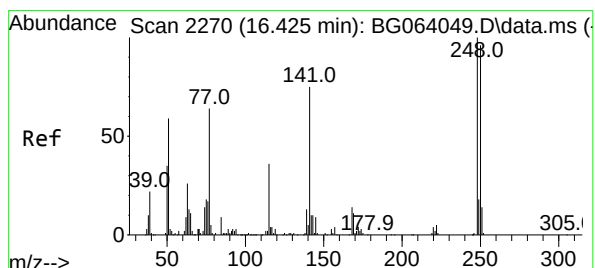
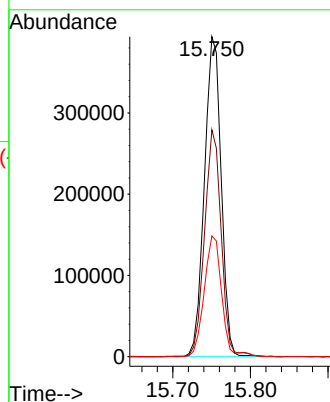
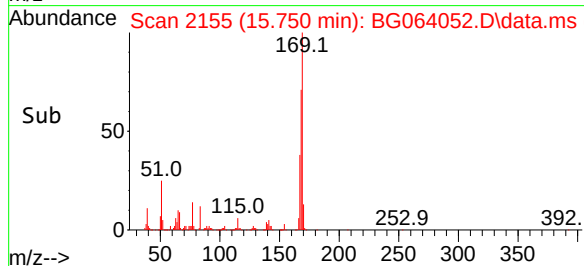
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:169 Resp: 590970  
Ion Ratio Lower Upper  
169 100  
168 70.9 54.1 81.1  
167 37.7 30.3 45.5

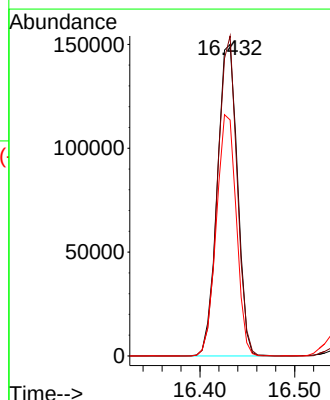
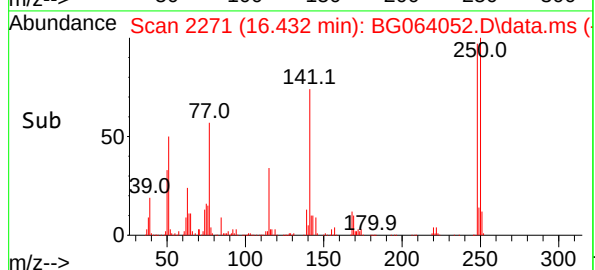
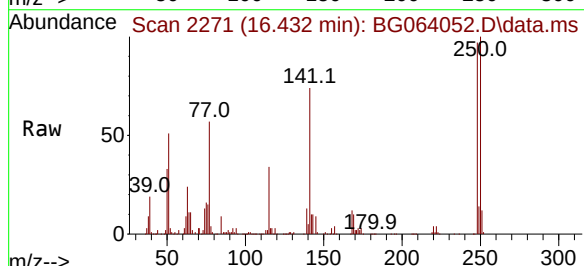
Manual Integrations  
APPROVED

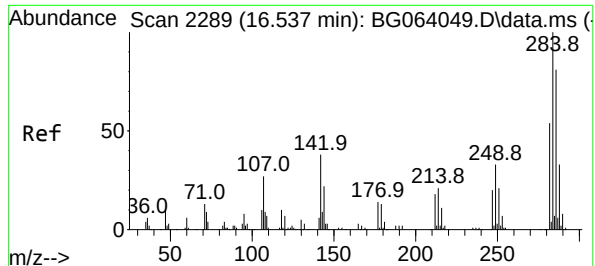
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#67  
4-Bromophenyl-phenylether  
Concen: 83.033 ng  
RT: 16.432 min Scan# 2271  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

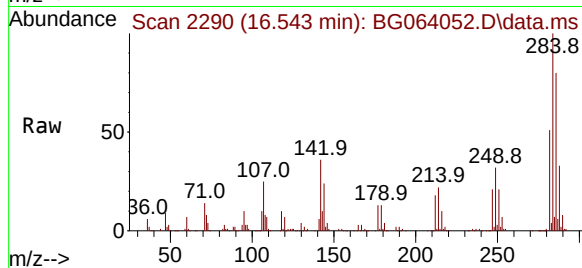
Tgt Ion:248 Resp: 222258  
Ion Ratio Lower Upper  
248 100  
250 102.7 77.1 115.7  
141 75.8 59.8 89.8





#68  
Hexachlorobenzene  
Concen: 80.390 ng  
RT: 16.543 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

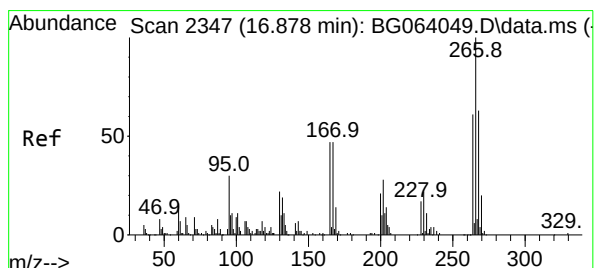
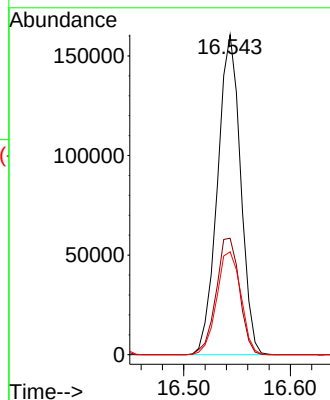
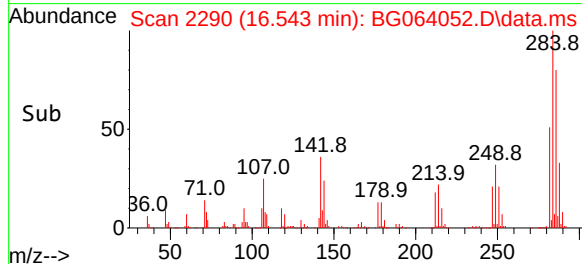
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



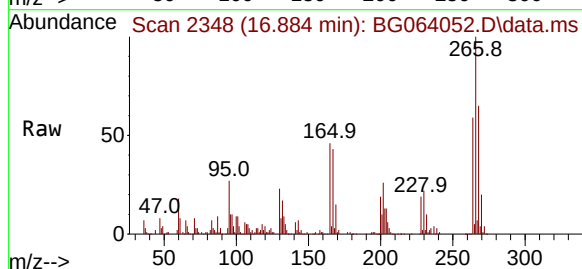
Tgt Ion:284 Resp: 24090  
Ion Ratio Lower Upper  
284 100  
142 36.4 30.6 45.8  
249 32.1 26.6 39.8

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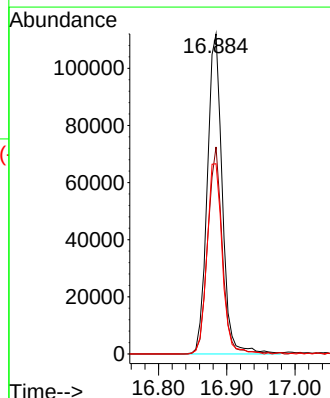
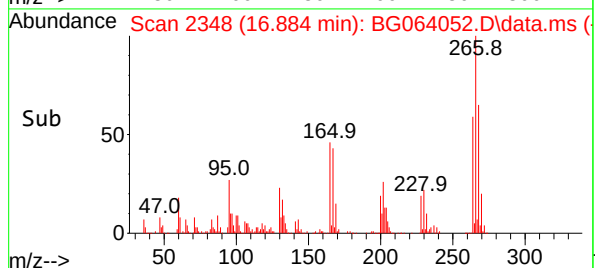
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

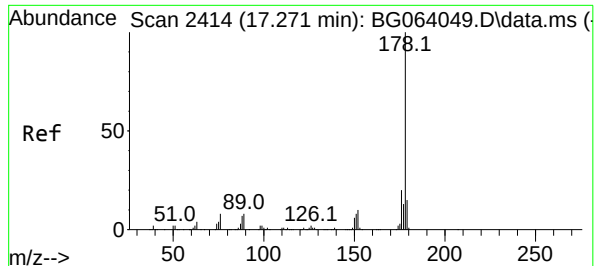


#70  
Pentachlorophenol  
Concen: 91.819 ng  
RT: 16.884 min Scan# 2348  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44



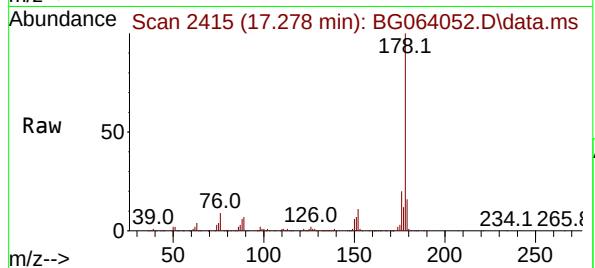
Tgt Ion:266 Resp: 170842  
Ion Ratio Lower Upper  
266 100  
268 64.7 50.2 75.4  
264 59.4 48.9 73.3





#71  
Phenanthrene  
Concen: 78.492 ng  
RT: 17.278 min Scan# 2414  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

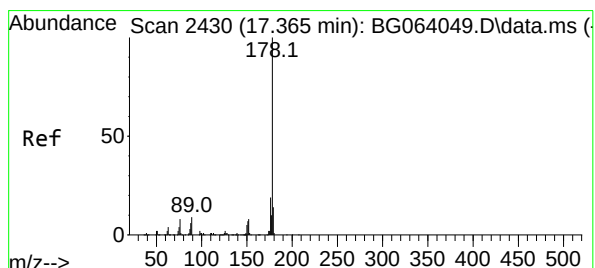
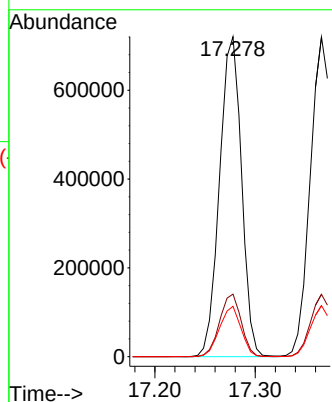
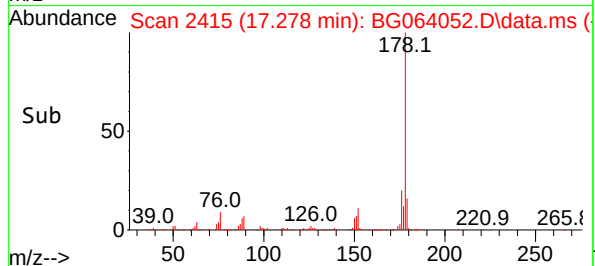
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:178 Resp: 109418  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.9 23.9  
179 15.8 12.2 18.2

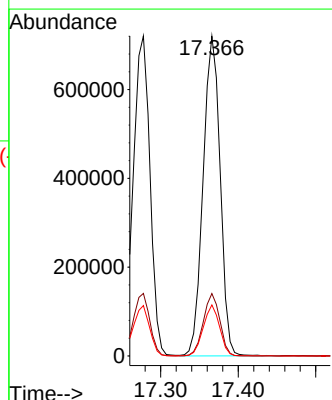
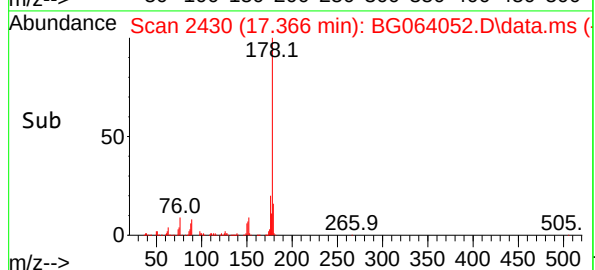
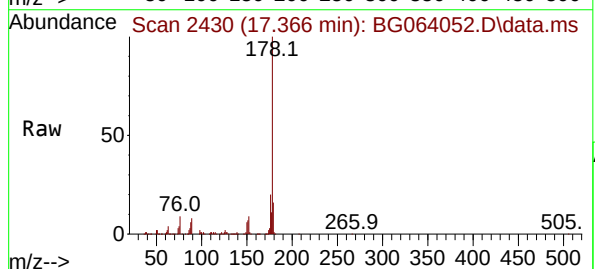
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

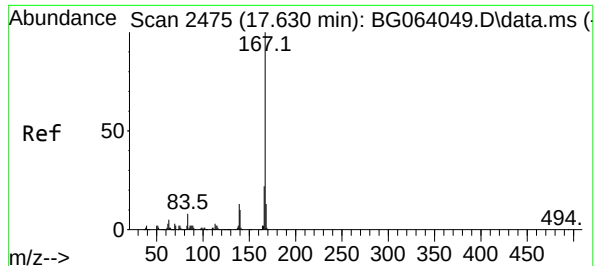


#72  
Anthracene  
Concen: 79.297 ng  
RT: 17.366 min Scan# 2430  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

Tgt Ion:178 Resp: 1099164  
Ion Ratio Lower Upper  
178 100  
176 19.5 14.8 22.2  
179 16.0 11.5 17.3

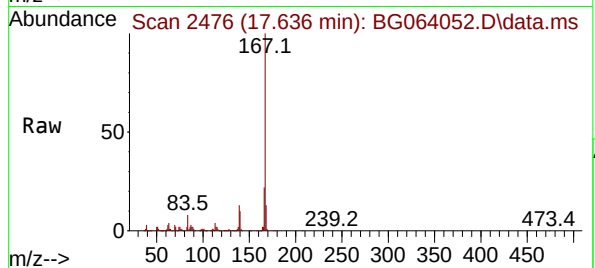






#73  
 Carbazole  
 Concen: 77.234 ng  
 RT: 17.636 min Scan# 2475  
 Delta R.T. 0.006 min  
 Lab File: BG064052.D  
 Acq: 5 Mar 2025 13:44

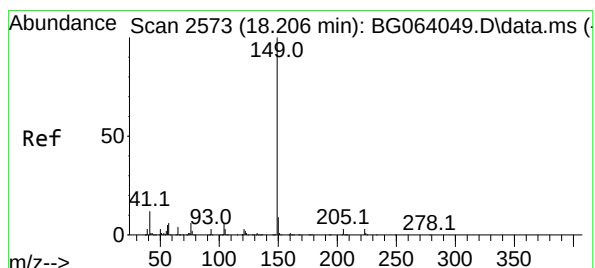
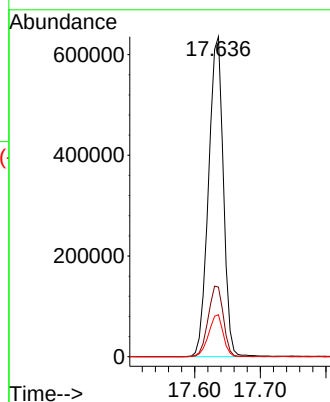
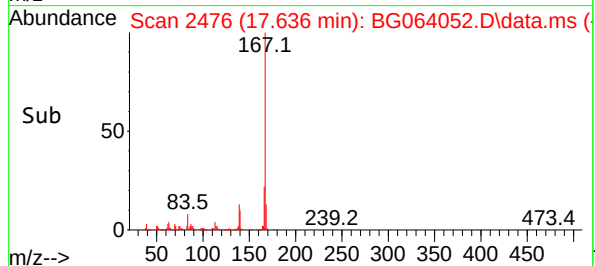
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTDICC080



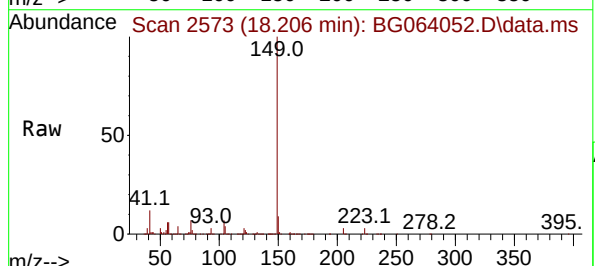
Tgt Ion:167 Resp: 999549  
 Ion Ratio Lower Upper  
 167 100  
 166 21.8 18.0 27.0  
 139 13.1 10.6 15.8

Manual Integrations  
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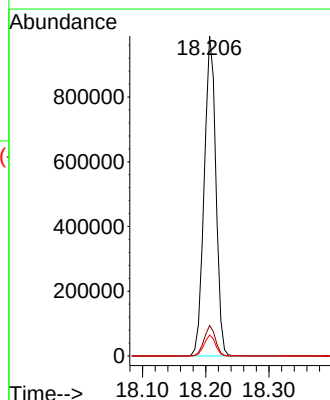
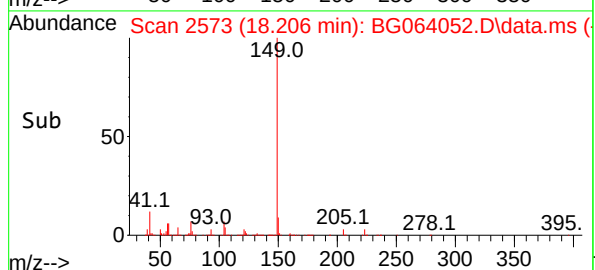
Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025

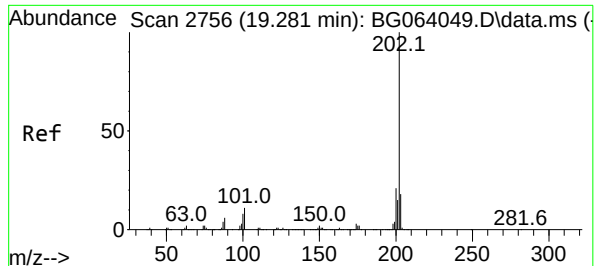


#74  
 Di-n-butylphthalate  
 Concen: 82.920 ng  
 RT: 18.206 min Scan# 2573  
 Delta R.T. 0.001 min  
 Lab File: BG064052.D  
 Acq: 5 Mar 2025 13:44



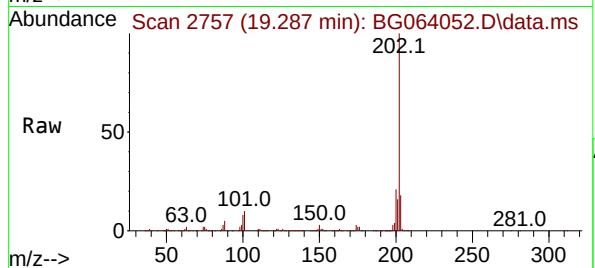
Tgt Ion:149 Resp: 1263186  
 Ion Ratio Lower Upper  
 149 100  
 150 9.5 7.4 11.0  
 104 6.5 5.0 7.6





#75  
Fluoranthene  
Concen: 75.929 ng  
RT: 19.287 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

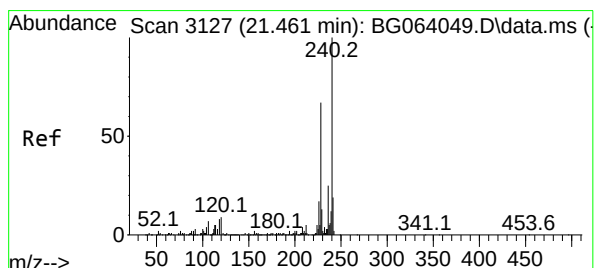
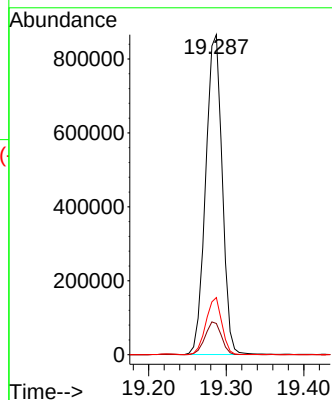
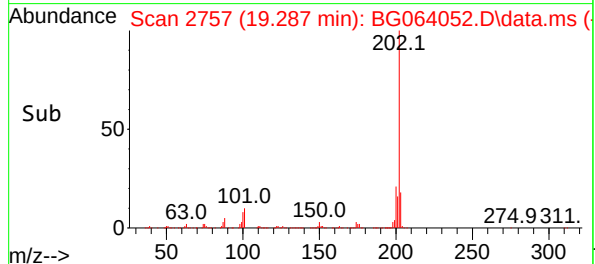
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:202 Resp: 1276040  
Ion Ratio Lower Upper  
202 100  
101 9.8 0.0 30.5  
203 17.9 0.0 38.3

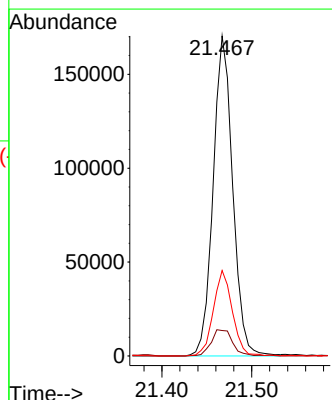
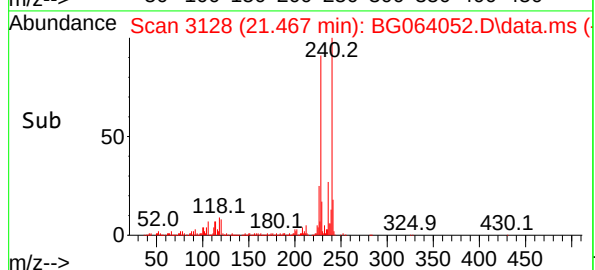
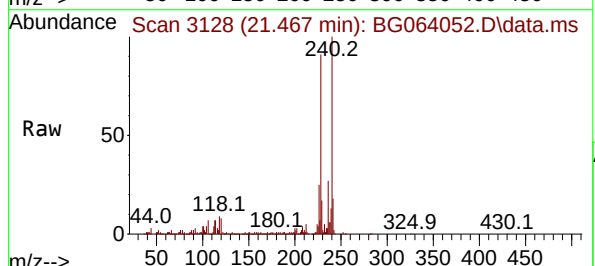
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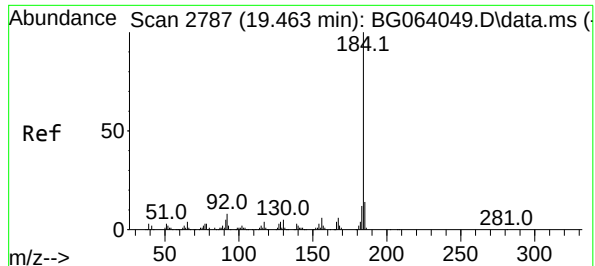
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.467 min Scan# 3128  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

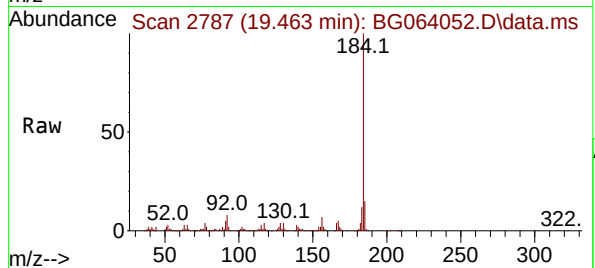
Tgt Ion:240 Resp: 257789  
Ion Ratio Lower Upper  
240 100  
120 8.0 7.2 10.8  
236 26.7 20.2 30.2





#77  
Benzidine  
Concen: 77.211 ng  
RT: 19.463 min Scan# 2787  
Delta R.T. 0.000 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

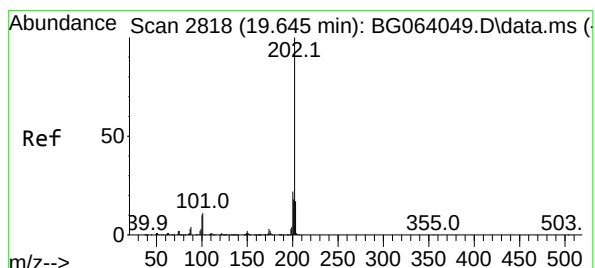
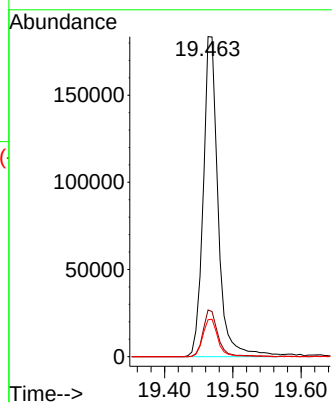
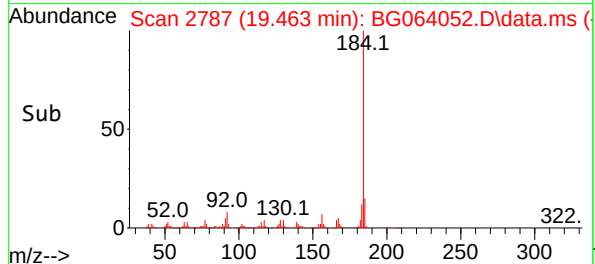
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:184 Resp: 27941  
Ion Ratio Lower Upper  
184 100  
185 14.6 11.3 16.9  
183 11.6 9.5 14.3

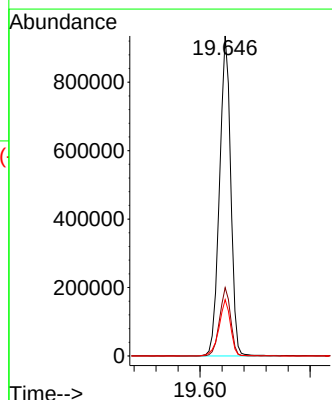
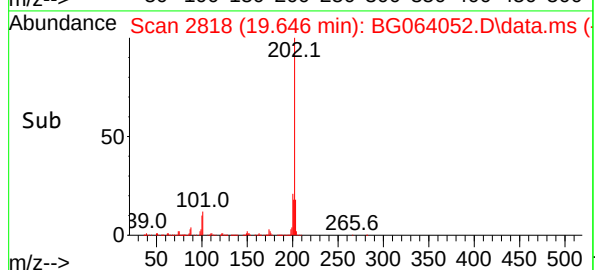
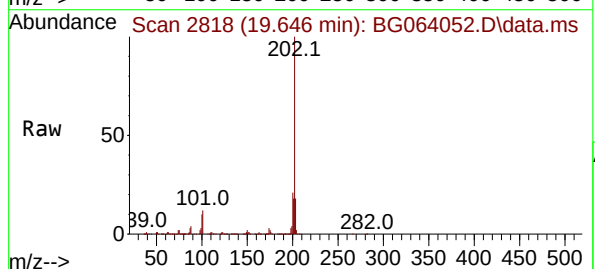
Manual Integrations  
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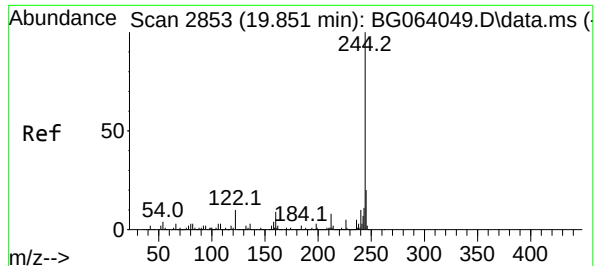
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#78  
Pyrene  
Concen: 79.539 ng  
RT: 19.646 min Scan# 2818  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

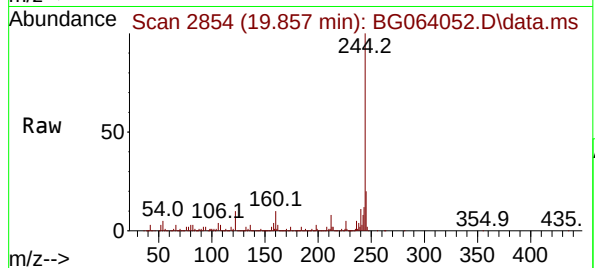
Tgt Ion:202 Resp: 1321748  
Ion Ratio Lower Upper  
202 100  
200 21.3 17.3 25.9  
203 17.6 13.6 20.4





#79  
Terphenyl-d14  
Concen: 150.030 ng  
RT: 19.857 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

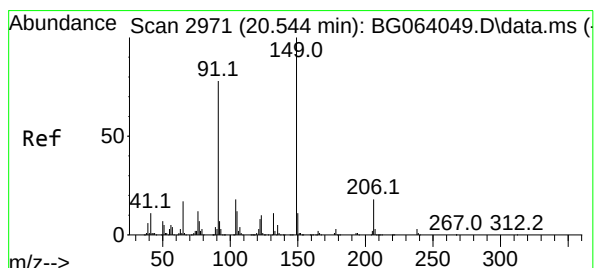
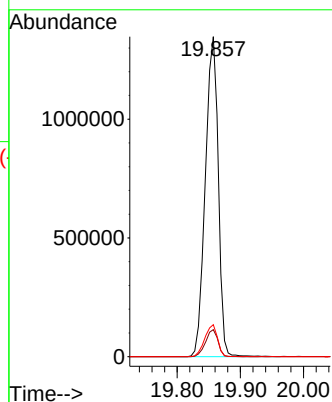
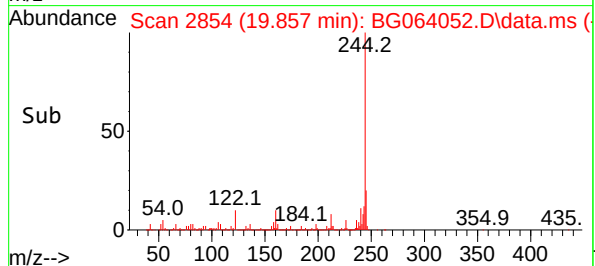
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



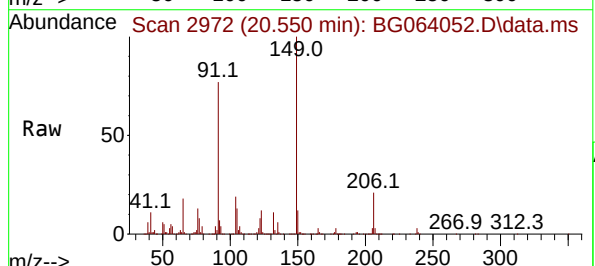
Tgt Ion:244 Resp: 191276  
Ion Ratio Lower Upper  
244 100  
212 8.5 6.2 9.4  
122 10.0 8.0 12.0

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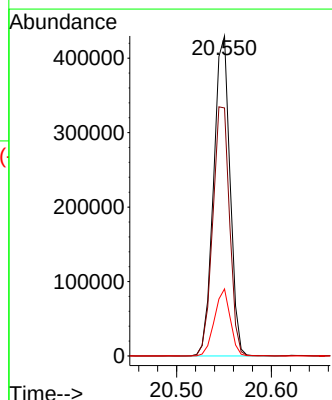
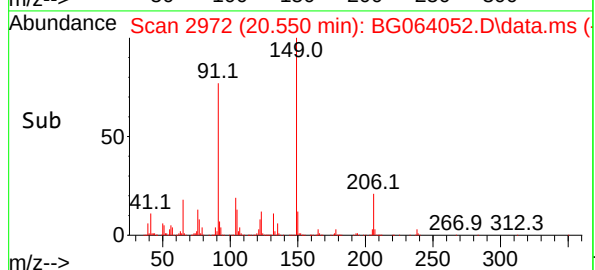
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

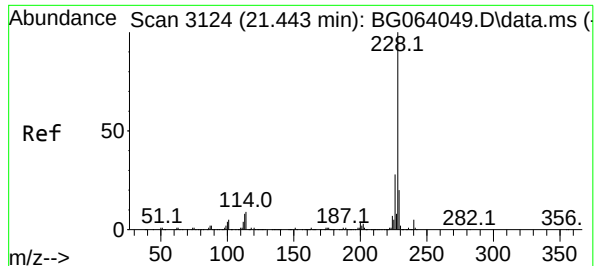


#80  
Butylbenzylphthalate  
Concen: 80.379 ng  
RT: 20.550 min Scan# 2972  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44



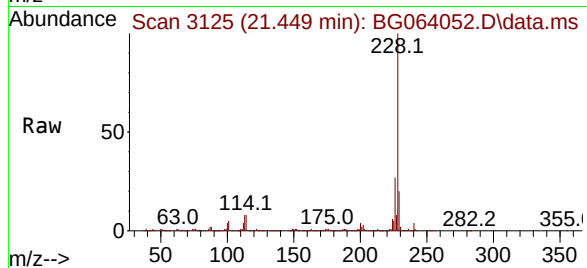
Tgt Ion:149 Resp: 517770  
Ion Ratio Lower Upper  
149 100  
91 77.5 62.0 93.0  
206 21.0 14.6 21.8





#81  
Benzo(a)anthracene  
Concen: 80.289 ng  
RT: 21.449 min Scan# 3124  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

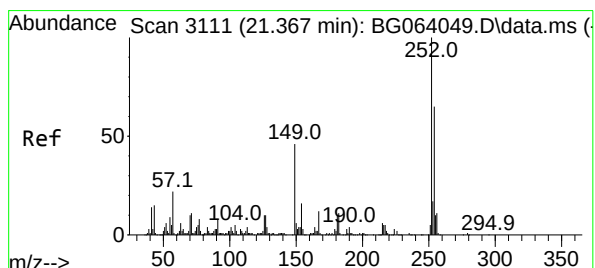
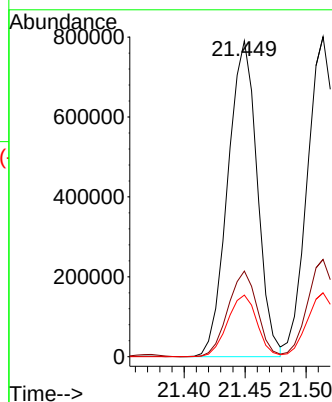
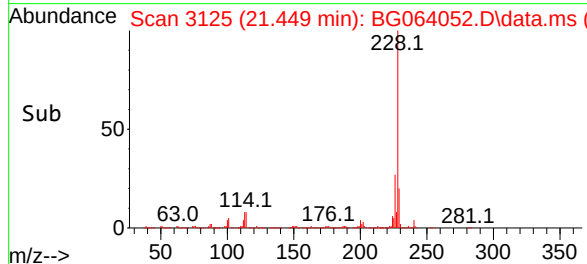
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:228 Resp: 1325828  
Ion Ratio Lower Upper  
228 100  
226 27.1 22.2 33.2  
229 19.5 16.4 24.6

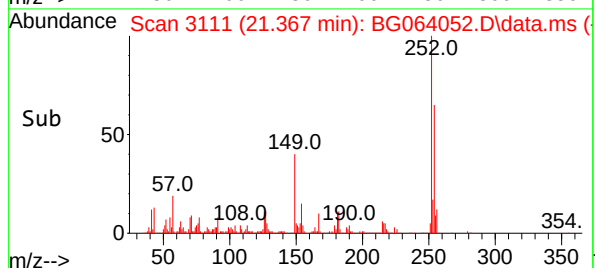
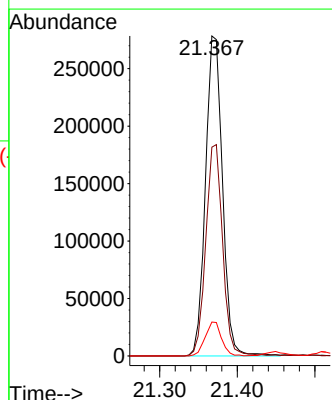
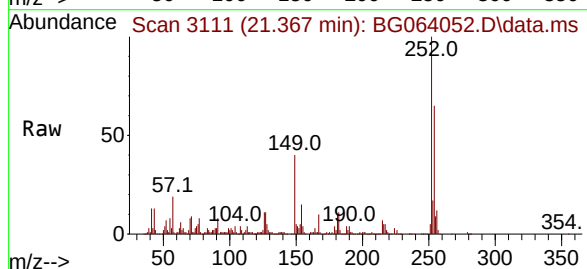
Manual Integrations  
APPROVED

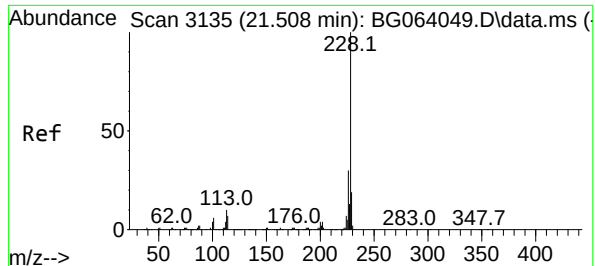
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#82  
3,3'-Dichlorobenzidine  
Concen: 79.269 ng  
RT: 21.367 min Scan# 3111  
Delta R.T. 0.001 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

Tgt Ion:252 Resp: 423636  
Ion Ratio Lower Upper  
252 100  
254 65.3 52.1 78.1  
126 10.6 7.8 11.8





#83

Chrysene

Concen: 78.391 ng

RT: 21.514 min Scan# 3135

Delta R.T. 0.006 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

Instrument :

BNA\_G

ClientSampleId :

SSTDICC080

Tgt Ion:228 Resp: 1291089

Ion Ratio Lower Upper

228 100

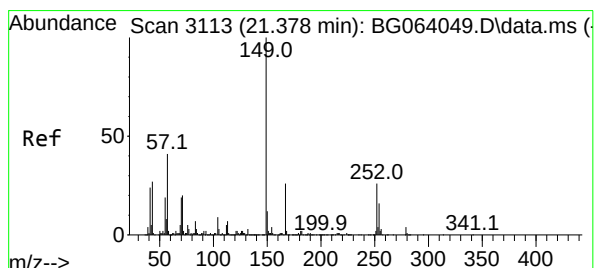
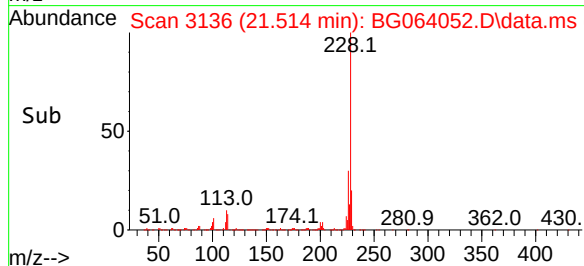
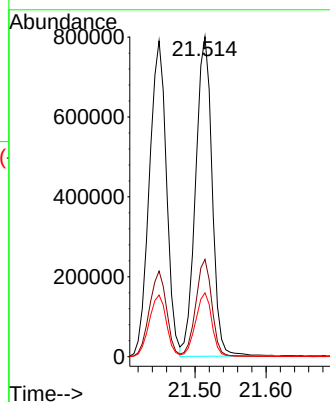
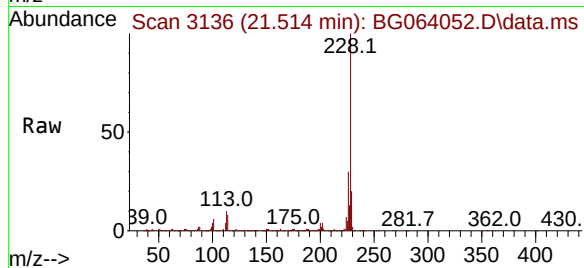
226 30.4 23.9 35.9

229 19.9 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 90.273 ng

RT: 21.385 min Scan# 3114

Delta R.T. 0.006 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

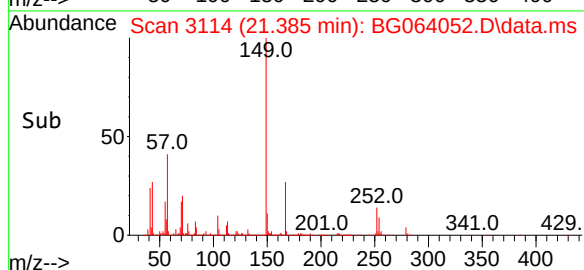
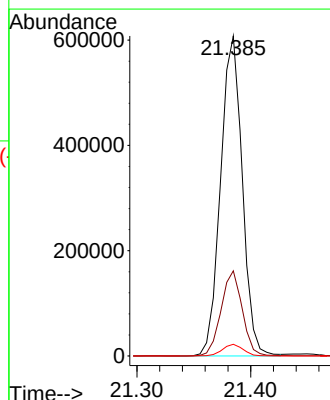
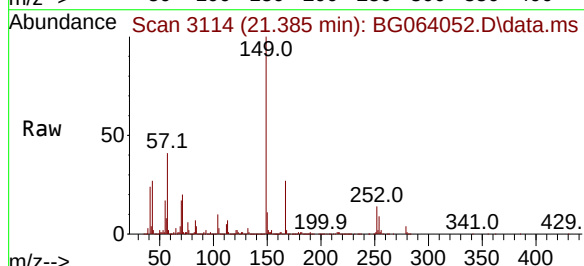
Tgt Ion:149 Resp: 806194

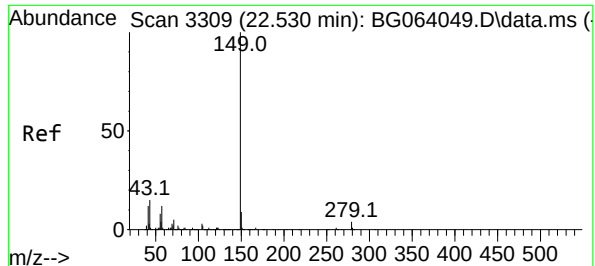
Ion Ratio Lower Upper

149 100

167 26.6 21.0 31.6

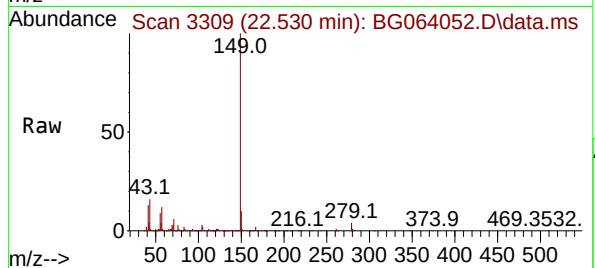
279 3.6 2.8 4.2





#85  
Di-n-octyl phthalate  
Concen: 89.556 ng  
RT: 22.530 min Scan# 3309  
Delta R.T. 0.000 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

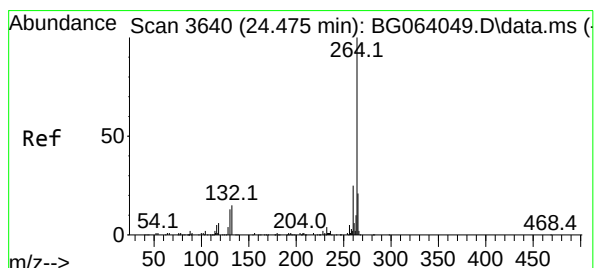
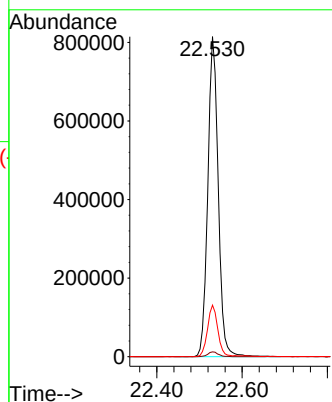
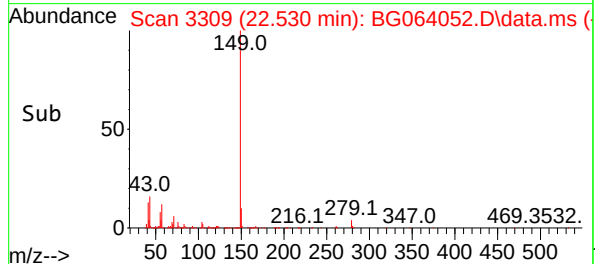
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



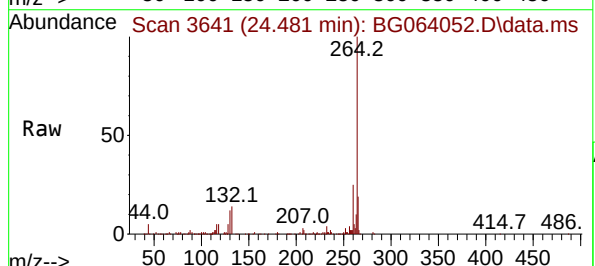
Tgt Ion:149 Resp: 137951  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.2 1.8  
43 16.1 12.6 19.0

Manual Integrations  
APPROVED

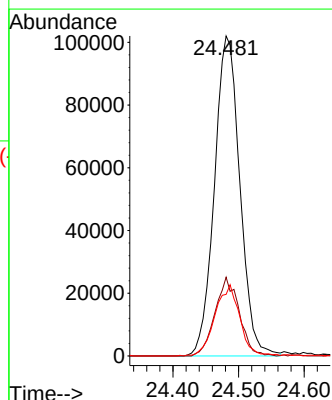
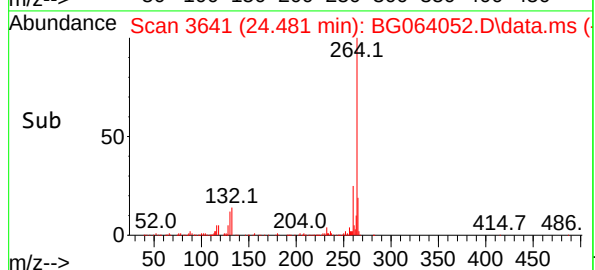
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

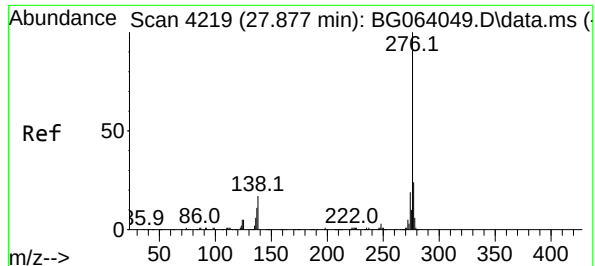


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.481 min Scan# 3641  
Delta R.T. 0.006 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44



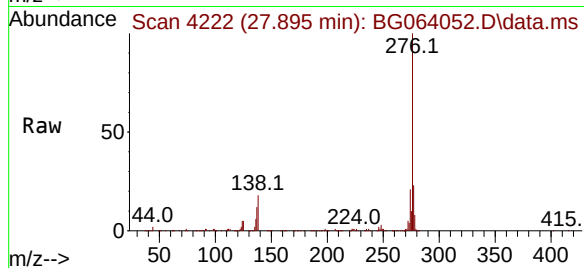
Tgt Ion:264 Resp: 274554  
Ion Ratio Lower Upper  
264 100  
260 24.6 19.6 29.4  
265 19.2 16.6 25.0





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 83.318 ng  
RT: 27.895 min Scan# 41  
Delta R.T. 0.018 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

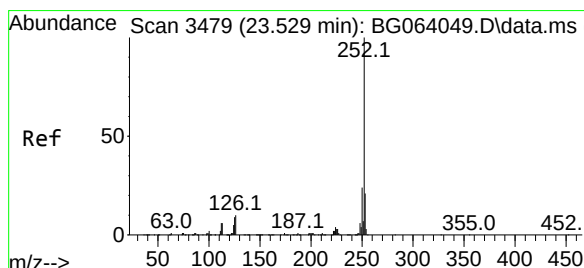
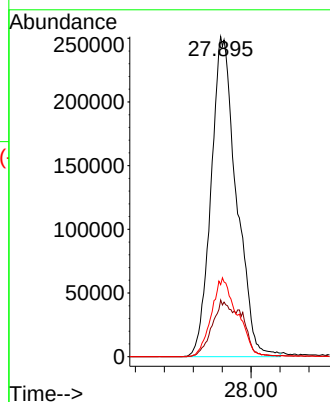
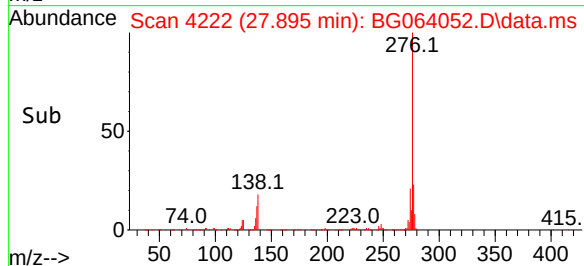
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



Tgt Ion:276 Resp: 1530540  
Ion Ratio Lower Upper  
276 100  
138 14.6 12.1 18.1  
277 25.2 20.0 30.0

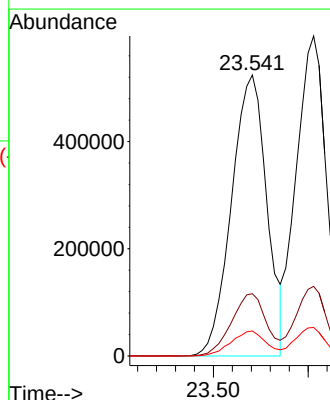
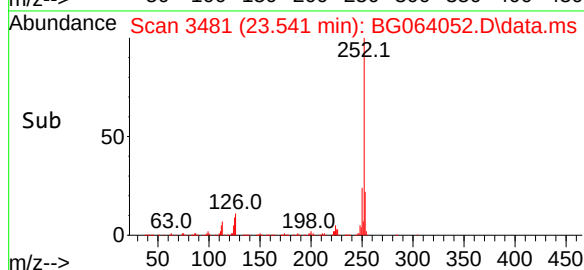
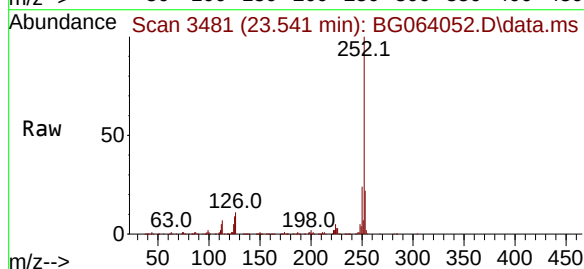
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

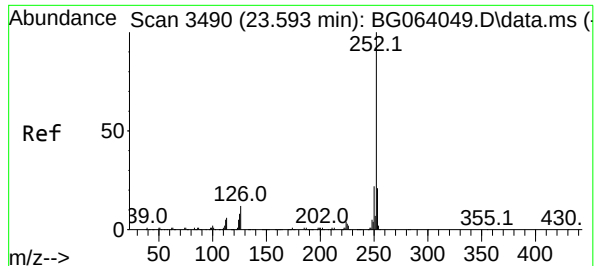


#88  
Benzo(b)fluoranthene  
Concen: 81.758 ng  
RT: 23.541 min Scan# 3481  
Delta R.T. 0.012 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

Tgt Ion:252 Resp: 1356996  
Ion Ratio Lower Upper  
252 100  
253 22.1 17.0 25.4  
125 8.9 7.4 11.2







#89

Benzo(k)fluoranthene

Concen: 80.120 ng

RT: 23.606 min Scan# 3490

Delta R.T. 0.012 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

Instrument :

BNA\_G

ClientSampleId :

SSTDICC080

Tgt Ion:252 Resp: 133408

Ion Ratio Lower Upper

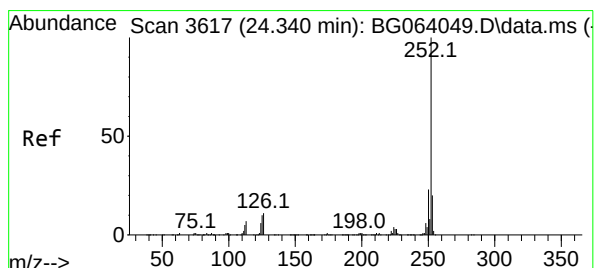
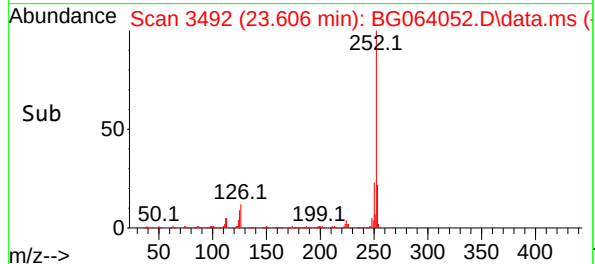
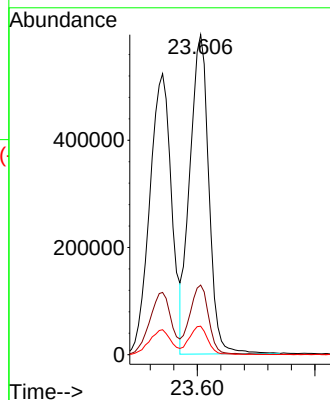
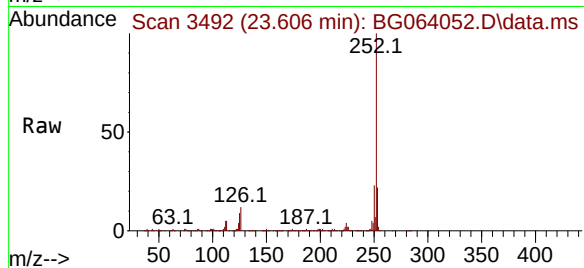
252 100

253 21.8 16.8 25.2

125 8.9 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#90

Benzo(a)pyrene

Concen: 81.191 ng

RT: 24.346 min Scan# 3618

Delta R.T. 0.006 min

Lab File: BG064052.D

Acq: 5 Mar 2025 13:44

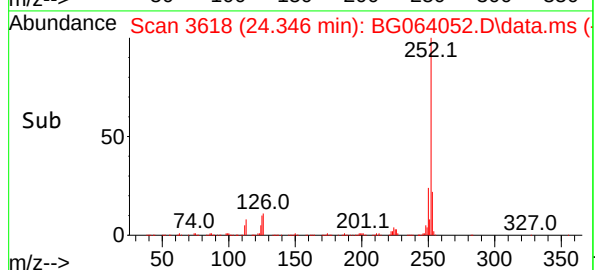
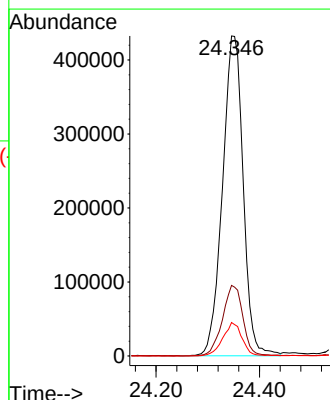
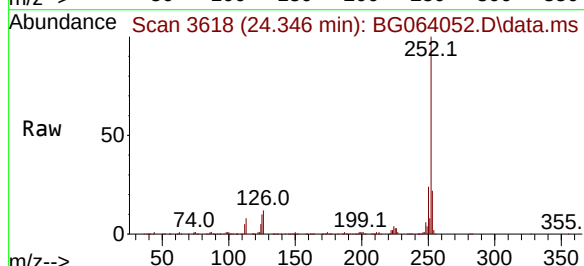
Tgt Ion:252 Resp: 1200152

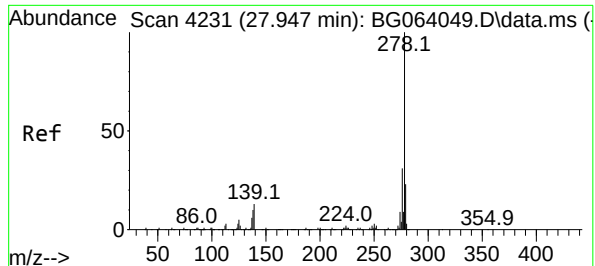
Ion Ratio Lower Upper

252 100

253 22.1 16.2 24.2

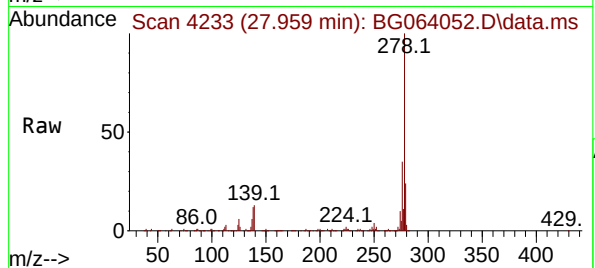
125 10.5 7.8 11.6





#91  
Dibenzo(a,h)anthracene  
Concen: 83.647 ng  
RT: 27.959 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44

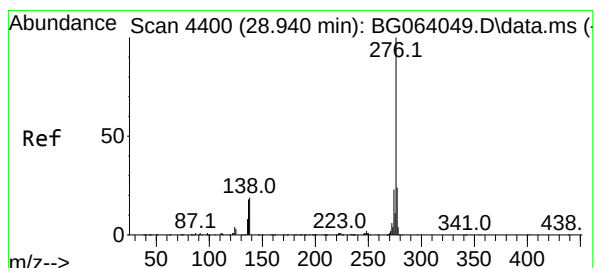
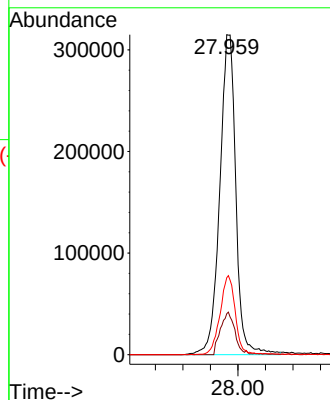
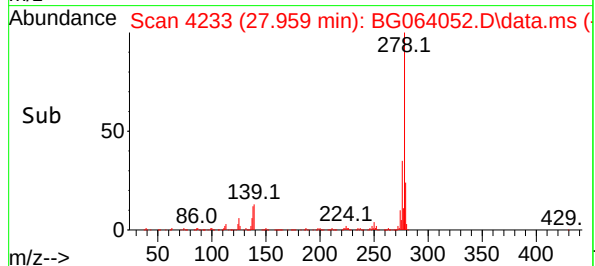
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDICC080



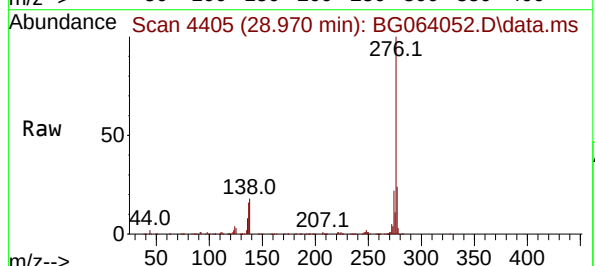
Tgt Ion:278 Resp: 127388  
Ion Ratio Lower Upper  
278 100  
139 12.8 10.2 15.2  
279 24.1 18.1 27.1

Manual Integrations  
APPROVED

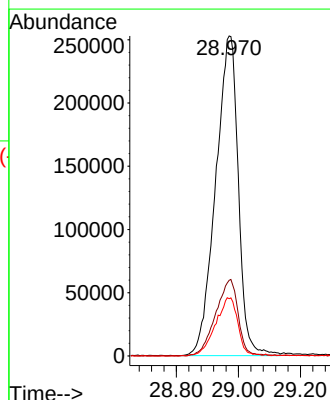
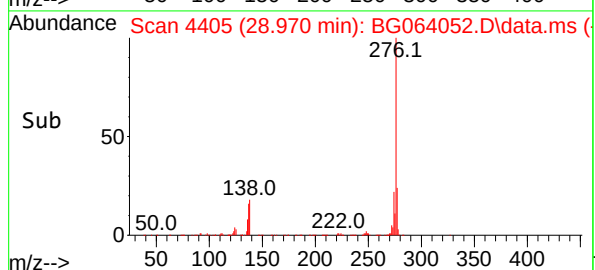
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#92  
Benzo(g,h,i)perylene  
Concen: 82.048 ng  
RT: 28.970 min Scan# 4405  
Delta R.T. 0.030 min  
Lab File: BG064052.D  
Acq: 5 Mar 2025 13:44



Tgt Ion:276 Resp: 1282909  
Ion Ratio Lower Upper  
276 100  
277 23.7 19.5 29.3  
138 17.9 15.4 23.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064053.D  
 Acq On : 5 Mar 2025 15:10  
 Operator : RC/JU  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

ICVBG030525

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025

Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:42:26 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 15:39:19 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.861  | 152  | 35090    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.652 | 136  | 145084   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.489 | 164  | 93726    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.227 | 188  | 217148   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.463 | 240  | 246166   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 24.483 | 264  | 261789   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.446  | 112  | 177138   | 78.823 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.021  | 99   | 230804   | 75.496 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.013  | 82   | 221265   | 84.279 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.975 | 330  | 94089    | 90.311 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.114 | 172  | 495129   | 80.186 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.853 | 244  | 940889   | 77.284 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.378  | 88   | 40961    | 40.218 | ng    | 97       |
| 3) Pyridine                   | 3.760  | 79   | 98907    | 39.931 | ng    | 98       |
| 4) n-Nitrosodimethylamine     | 3.678  | 42   | 70753    | 39.980 | ng    | 94       |
| 6) Aniline                    | 7.186  | 93   | 112627   | 37.544 | ng    | 97       |
| 8) 2-Chlorophenol             | 7.426  | 128  | 92723    | 38.417 | ng    | 97       |
| 9) Benzaldehyde               | 6.997  | 77   | 67720m   | 38.087 | ng    |          |
| 10) Phenol                    | 7.050  | 94   | 121465   | 38.806 | ng    | 98       |
| 11) bis(2-Chloroethyl)ether   | 7.285  | 93   | 90358    | 36.822 | ng    | 97       |
| 12) 1,3-Dichlorobenzene       | 7.750  | 146  | 97739    | 36.876 | ng    | 98       |
| 13) 1,4-Dichlorobenzene       | 7.896  | 146  | 99638    | 36.676 | ng    | 98       |
| 14) 1,2-Dichlorobenzene       | 8.214  | 146  | 96129    | 36.695 | ng    | 97       |
| 15) Benzyl Alcohol            | 8.096  | 79   | 89828    | 38.023 | ng    | 95       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.390  | 45   | 201622   | 36.540 | ng    | 99       |
| 17) 2-Methylphenol            | 8.296  | 107  | 78276    | 37.680 | ng    | 97       |
| 18) Hexachloroethane          | 8.942  | 117  | 37454    | 39.404 | ng    | 97       |
| 19) n-Nitroso-di-n-propyla... | 8.666  | 70   | 76484    | 35.648 | ng    | 98       |
| 20) 3+4-Methylphenols         | 8.619  | 107  | 106291   | 37.166 | ng    | 95       |
| 22) Acetophenone              | 8.678  | 105  | 156271   | 39.285 | ng    | # 99     |
| 24) Nitrobenzene              | 9.054  | 77   | 114521   | 42.208 | ng    | 98       |
| 25) Isophorone                | 9.577  | 82   | 198754   | 37.823 | ng    | 97       |
| 26) 2-Nitrophenol             | 9.765  | 139  | 36978    | 40.946 | ng    | 92       |
| 27) 2,4-Dimethylphenol        | 9.824  | 122  | 63231    | 40.139 | ng    | 97       |
| 28) bis(2-Chloroethoxy)met... | 10.064 | 93   | 123038   | 38.620 | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 10.294 | 162  | 81863    | 41.154 | ng    | 93       |
| 30) 1,2,4-Trichlorobenzene    | 10.517 | 180  | 93175    | 38.802 | ng    | 93       |
| 31) Naphthalene               | 10.699 | 128  | 308258   | 39.402 | ng    | 98       |
| 32) Benzoic acid              | 9.953  | 122  | 51607m   | 37.906 | ng    |          |
| 33) 4-Chloroaniline           | 10.805 | 127  | 114228   | 39.949 | ng    | 98       |
| 34) Hexachlorobutadiene       | 10.993 | 225  | 62517    | 39.720 | ng    | 99       |
| 35) Caprolactam               | 11.563 | 113  | 32080    | 42.084 | ng    | # 85     |
| 36) 4-Chloro-3-methylphenol   | 11.927 | 107  | 103382   | 39.649 | ng    | 96       |
| 37) 2-Methylnaphthalene       | 12.309 | 142  | 212431   | 38.463 | ng    | 97       |
| 38) 1-Methylnaphthalene       | 12.532 | 142  | 209530   | 38.724 | ng    | 94       |
| 40) 1,2,4,5-Tetrachloroben... | 12.679 | 216  | 106041   | 39.630 | ng    | 95       |
| 41) Hexachlorocyclopentadiene | 12.667 | 237  | 33041    | 43.873 | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 12.914 | 196  | 66496    | 42.165 | ng    | 99       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064053.D  
 Acq On : 5 Mar 2025 15:10  
 Operator : RC/JU  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

ICVBG030525

## Manual Integrations

## APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025

Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:42:26 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 15:39:19 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.985 | 196  | 74580    | 42.561 | ng    | 95       |
| 46) 1,1'-Biphenyl             | 13.325 | 154  | 284632   | 40.196 | ng    | 98       |
| 47) 2-Chloronaphthalene       | 13.361 | 162  | 208172   | 40.309 | ng    | 97       |
| 48) 2-Nitroaniline            | 13.560 | 65   | 68823    | 41.405 | ng    | 98       |
| 49) Acenaphthylene            | 14.207 | 152  | 331135   | 40.537 | ng    | 100      |
| 50) Dimethylphthalate         | 13.948 | 163  | 274751   | 39.712 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 14.060 | 165  | 56243    | 40.625 | ng    | 99       |
| 52) Acenaphthene              | 14.553 | 154  | 221628m  | 40.428 | ng    |          |
| 53) 3-Nitroaniline            | 14.389 | 138  | 60229    | 45.042 | ng    | 97       |
| 54) 2,4-Dinitrophenol         | 14.589 | 184  | 21627    | 41.197 | ng    | 86       |
| 55) Dibenzofuran              | 14.888 | 168  | 355364   | 40.014 | ng    | 99       |
| 56) 4-Nitrophenol             | 14.688 | 139  | 53310    | 47.537 | ng    | 96       |
| 57) 2,4-Dinitrotoluene        | 14.847 | 165  | 80269    | 41.944 | ng    | # 97     |
| 58) Fluorene                  | 15.535 | 166  | 279465   | 40.403 | ng    | 96       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.111 | 232  | 73574    | 43.068 | ng    | 96       |
| 60) Diethylphthalate          | 15.317 | 149  | 309434   | 41.198 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.535 | 204  | 135318   | 39.367 | ng    | 95       |
| 62) 4-Nitroaniline            | 15.546 | 138  | 65797    | 45.576 | ng    | 91       |
| 63) Azobenzene                | 15.822 | 77   | 321688   | 40.137 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 15.611 | 198  | 35775    | 39.817 | ng    | 95       |
| 66) n-Nitrosodiphenylamine    | 15.746 | 169  | 241241   | 39.248 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.428 | 248  | 88452    | 39.772 | ng    | 97       |
| 68) Hexachlorobenzene         | 16.539 | 284  | 96136    | 38.611 | ng    | 97       |
| 69) Atrazine                  | 16.692 | 200  | 69821    | 38.607 | ng    | 95       |
| 70) Pentachlorophenol         | 16.880 | 266  | 66504    | 43.019 | ng    | 97       |
| 71) Phenanthrene              | 17.274 | 178  | 463029   | 39.978 | ng    | 97       |
| 72) Anthracene                | 17.362 | 178  | 463897   | 40.280 | ng    | 99       |
| 73) Carbazole                 | 17.626 | 167  | 449805   | 41.831 | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.208 | 149  | 565797   | 44.702 | ng    | 99       |
| 75) Fluoranthene              | 19.283 | 202  | 588493   | 42.146 | ng    | 97       |
| 77) Benzidine                 | 19.465 | 184  | 127428   | 37.383 | ng    | 98       |
| 78) Pyrene                    | 19.641 | 202  | 608668   | 38.357 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.546 | 149  | 238653   | 40.680 | ng    | 96       |
| 81) Benzo(a)anthracene        | 21.445 | 228  | 624403   | 39.598 | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.369 | 252  | 209761   | 41.103 | ng    | 99       |
| 83) Chrysene                  | 21.504 | 228  | 611410   | 38.876 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.381 | 149  | 379928   | 44.551 | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.532 | 149  | 627920   | 42.688 | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 27.885 | 276  | 699194   | 39.918 | ng    | 100      |
| 88) Benzo(b)fluoranthene      | 23.531 | 252  | 615644   | 38.901 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.596 | 252  | 620446   | 39.079 | ng    | 98       |
| 90) Benzo(a)pyrene            | 24.342 | 252  | 546383   | 38.765 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 27.949 | 278  | 583198   | 40.162 | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 28.936 | 276  | 592494   | 39.740 | ng    | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

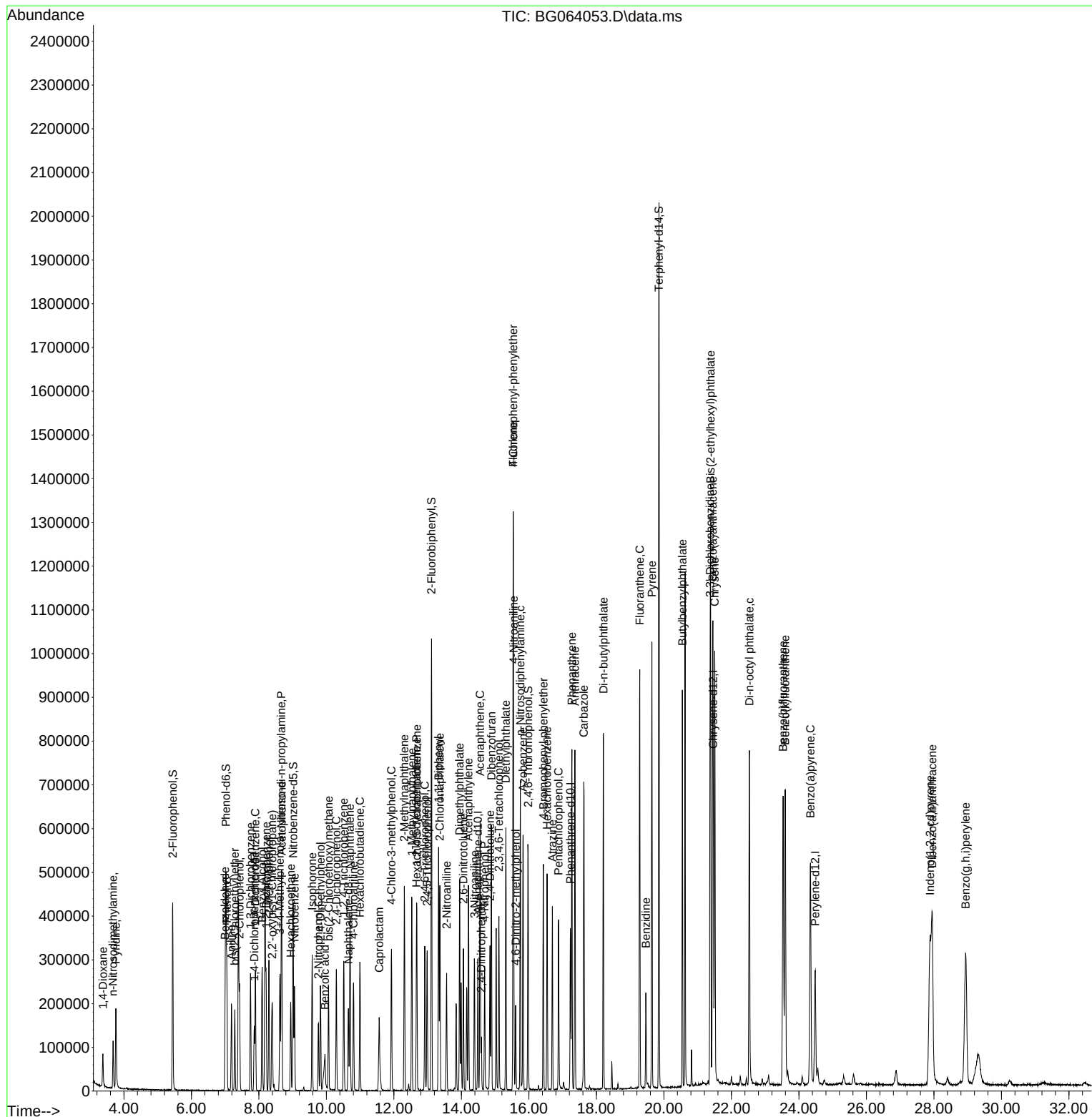
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064053.D  
 Acq On : 5 Mar 2025 15:10  
 Operator : RC/JU  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

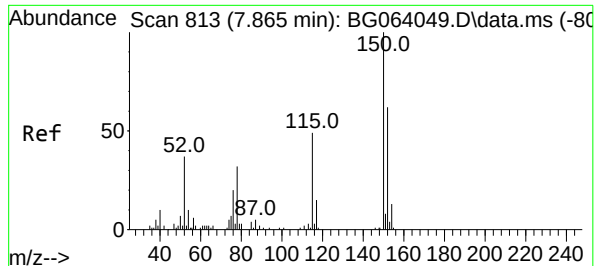
Instrument :  
 BNA\_G  
 ClientSampleId :  
 ICVBG030525

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025

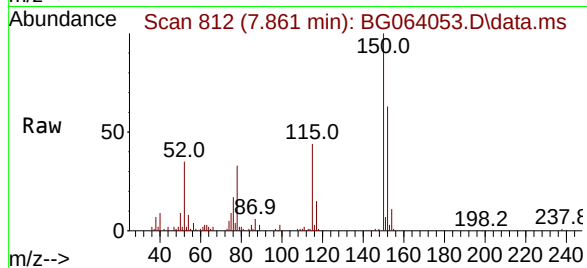
Quant Time: Mar 05 15:42:26 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.861 min Scan# 813  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

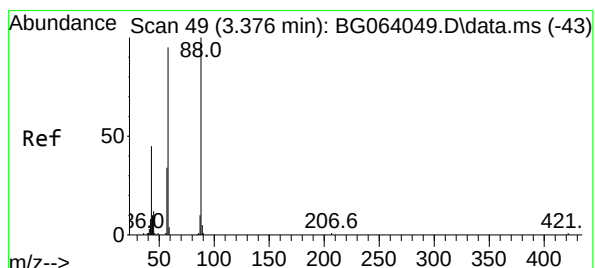
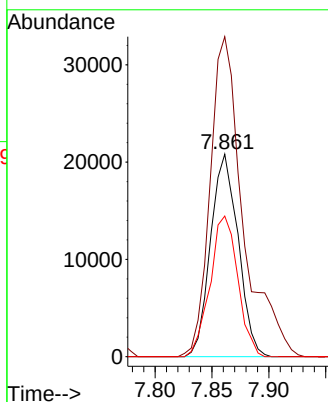
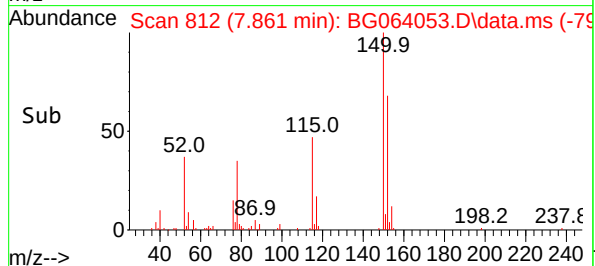
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:152 Resp: 35090  
Ion Ratio Lower Upper  
152 100  
150 158.0 129.2 193.8  
115 69.5 63.0 94.6

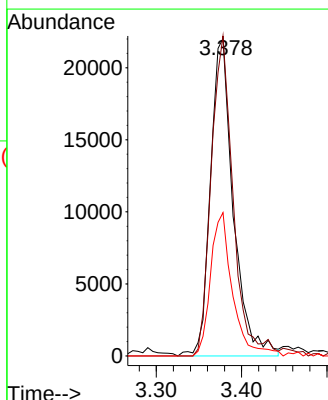
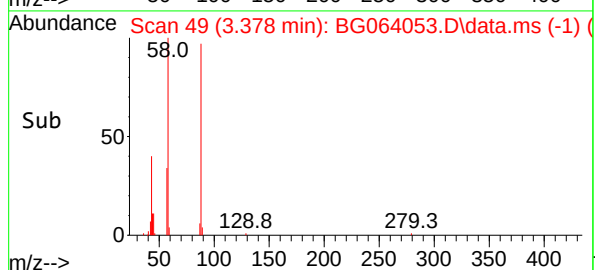
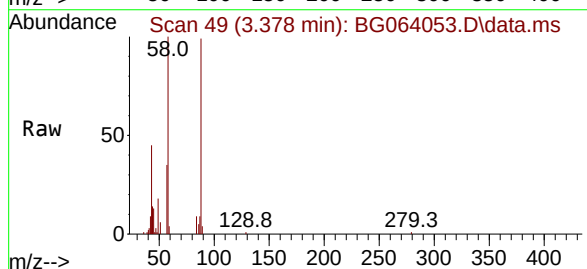
Manual Integrations  
APPROVED

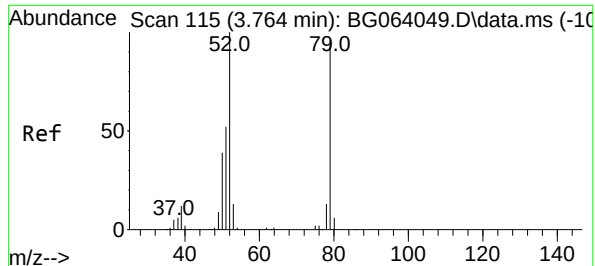
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#2  
1,4-Dioxane  
Concen: 40.218 ng  
RT: 3.378 min Scan# 49  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

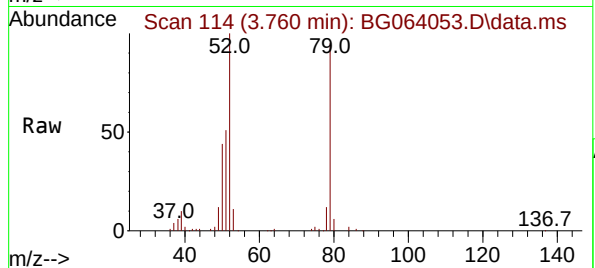
Tgt Ion: 88 Resp: 40961  
Ion Ratio Lower Upper  
88 100  
58 96.9 74.6 111.8  
43 43.3 35.5 53.3





#3  
Pyridine  
Concen: 39.931 ng  
RT: 3.760 min Scan# 115  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

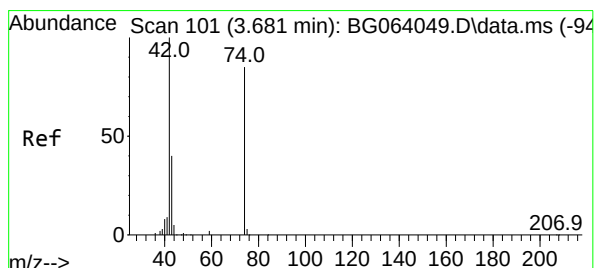
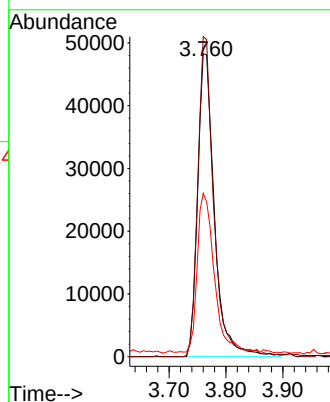
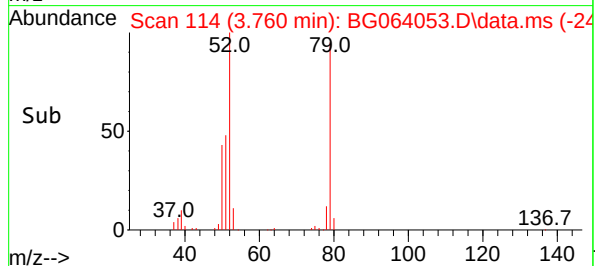
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion: 79 Resp: 9890  
Ion Ratio Lower Upper  
79 100  
52 105.6 83.0 124.6  
51 54.0 44.3 66.5

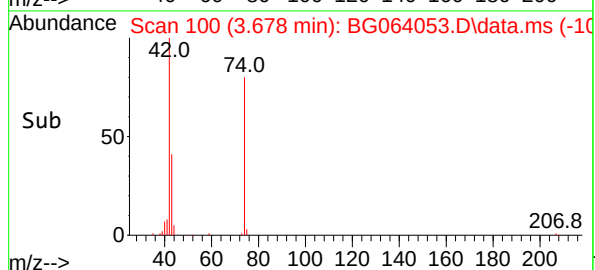
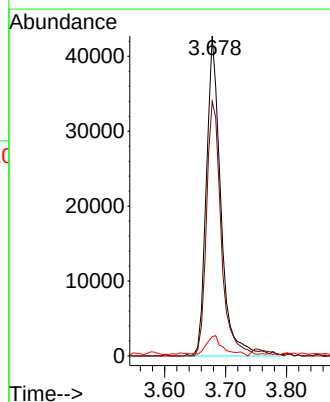
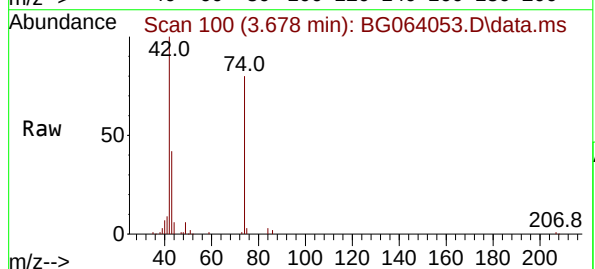
Manual Integrations  
APPROVED

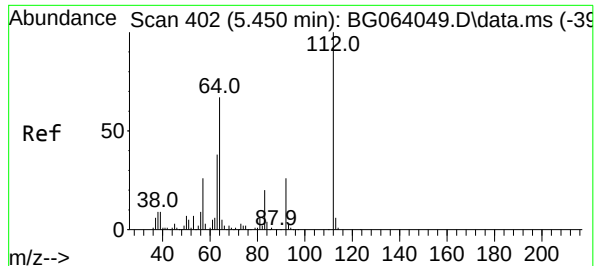
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#4  
n-Nitrosodimethylamine  
Concen: 39.980 ng  
RT: 3.678 min Scan# 100  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

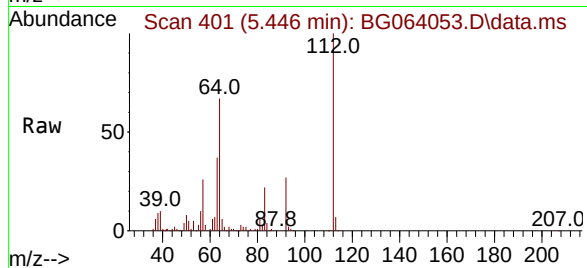
Tgt Ion: 42 Resp: 70753  
Ion Ratio Lower Upper  
42 100  
74 79.5 68.0 102.0  
44 6.0 4.9 7.3





#5  
2-Fluorophenol  
Concen: 78.823 ng  
RT: 5.446 min Scan# 402  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

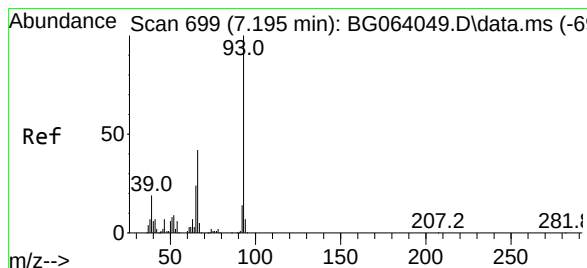
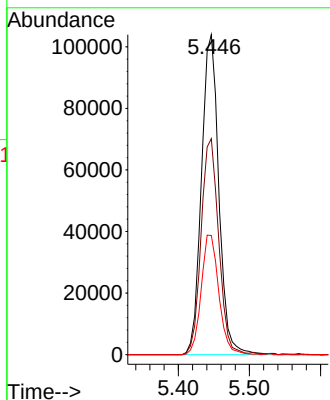
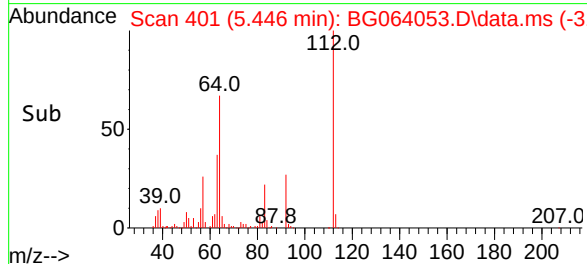
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion: 112 Resp: 177138  
Ion Ratio Lower Upper  
112 100  
64 67.5 53.7 80.5  
63 37.2 30.2 45.4

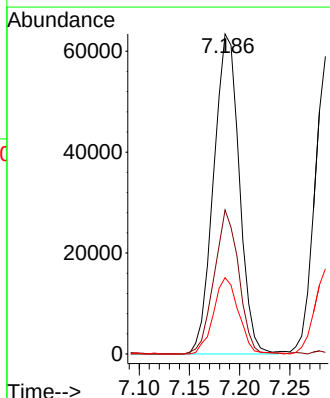
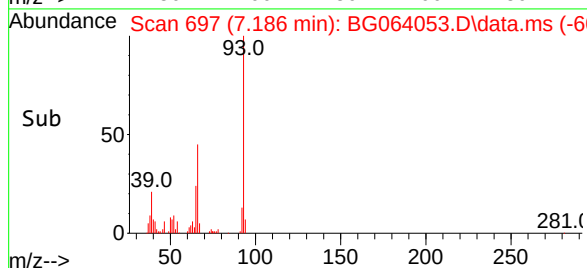
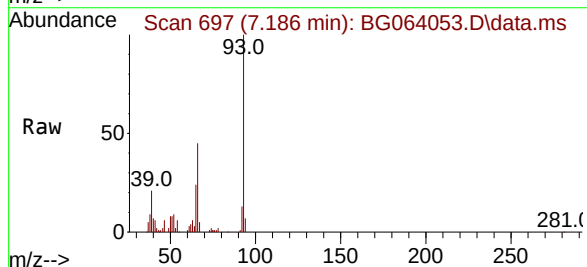
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

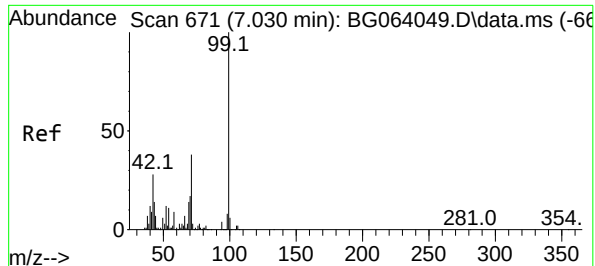


#6  
Aniline  
Concen: 37.544 ng  
RT: 7.186 min Scan# 697  
Delta R.T. -0.009 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

Tgt Ion: 93 Resp: 112627  
Ion Ratio Lower Upper  
93 100  
66 45.0 33.7 50.5  
65 23.8 19.1 28.7

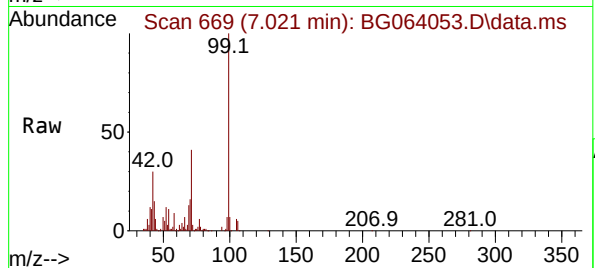






#7  
Phenol-d6  
Concen: 75.496 ng  
RT: 7.021 min Scan# 671  
Delta R.T. -0.009 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

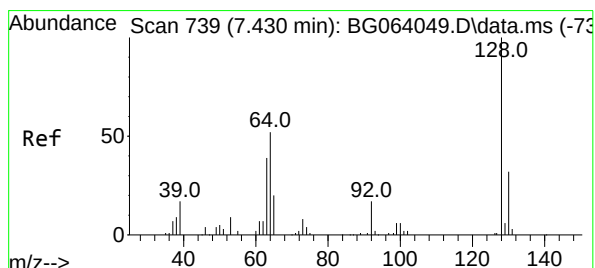
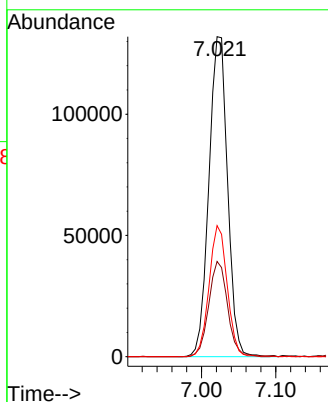
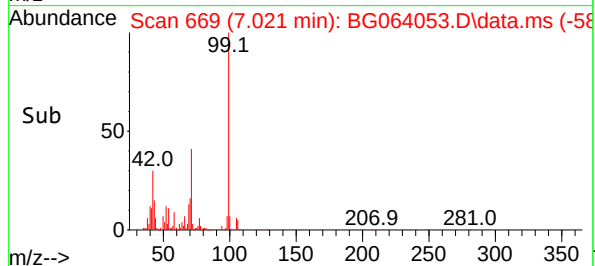
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion: 99 Resp: 230804  
Ion Ratio Lower Upper  
99 100  
42 29.8 22.7 34.1  
71 41.0 30.6 46.0

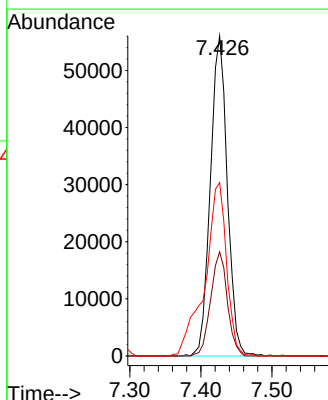
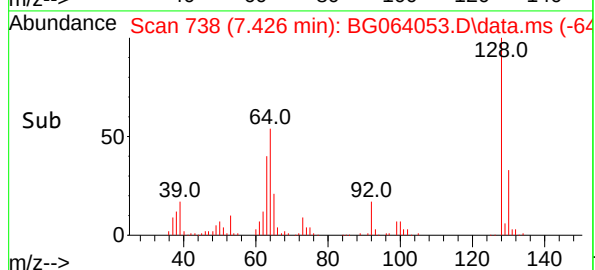
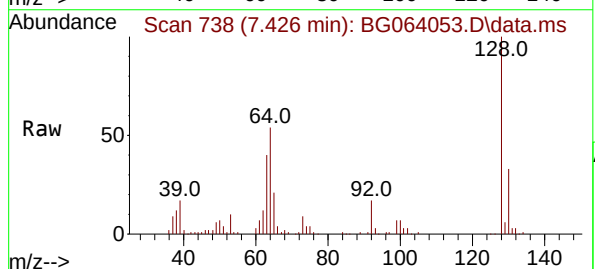
Manual Integrations  
APPROVED

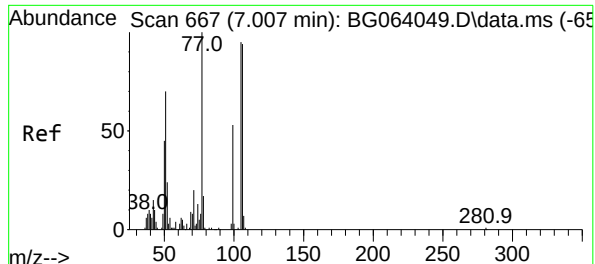
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#8  
2-Chlorophenol  
Concen: 38.417 ng  
RT: 7.426 min Scan# 738  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

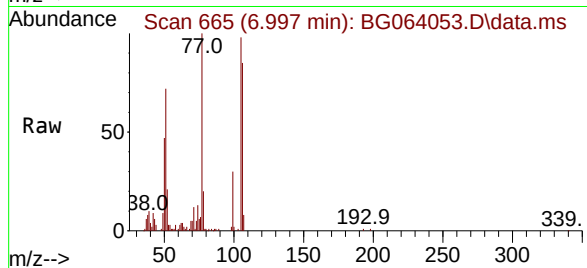
Tgt Ion:128 Resp: 92723  
Ion Ratio Lower Upper  
128 100  
130 32.6 12.3 52.3  
64 54.2 37.0 77.0





#9  
Benzaldehyde  
Concen: 38.087 ng m  
RT: 6.997 min Scan# 665  
Delta R.T. -0.010 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

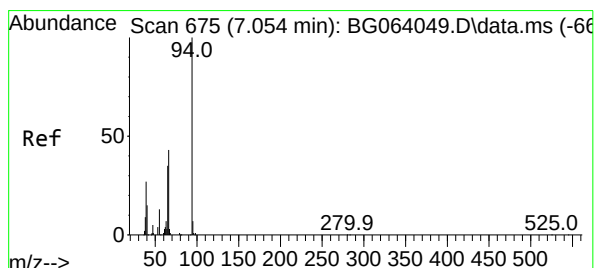
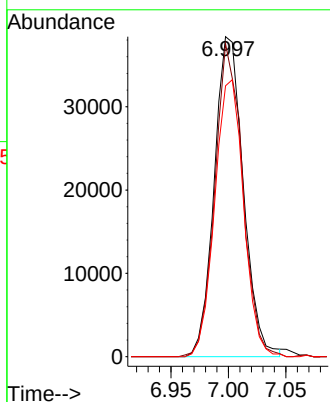
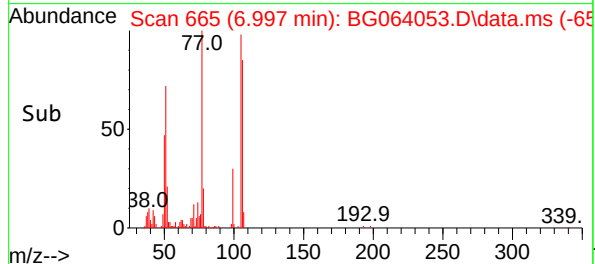
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion: 77 Resp: 67720  
Ion Ratio Lower Upper  
77 100  
105 97.8 75.5 115.5  
106 84.6 74.2 114.2

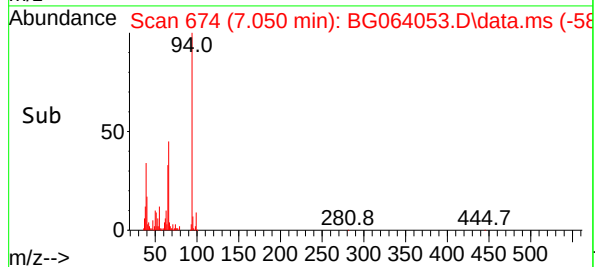
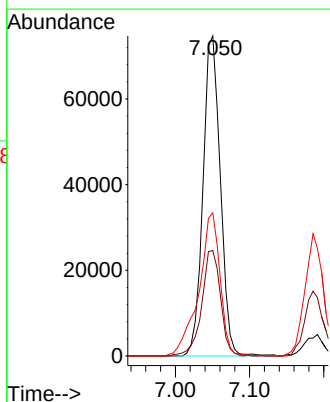
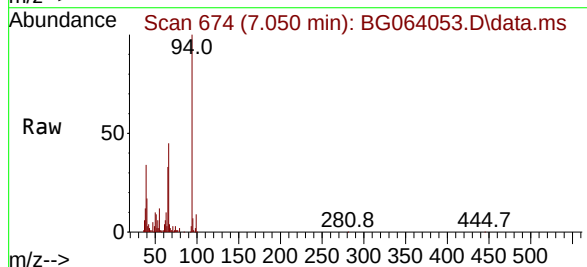
Manual Integrations  
APPROVED

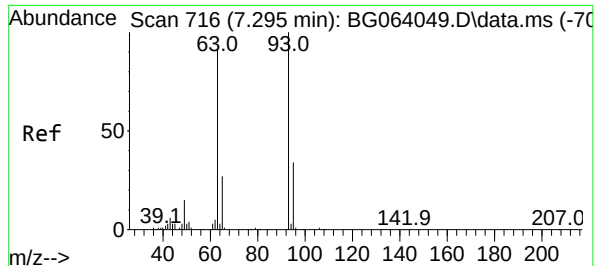
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#10  
Phenol  
Concen: 38.806 ng  
RT: 7.050 min Scan# 674  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

Tgt Ion: 94 Resp: 121465  
Ion Ratio Lower Upper  
94 100  
65 33.0 15.2 55.2  
66 44.7 25.1 65.1





#11

bis(2-Chloroethyl)ether

Concen: 36.822 ng

RT: 7.285 min Scan# 716

Delta R.T. -0.009 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

Instrument :

BNA\_G

ClientSampleId :

ICVBG030525

Tgt Ion: 93 Resp: 90358

Ion Ratio Lower Upper

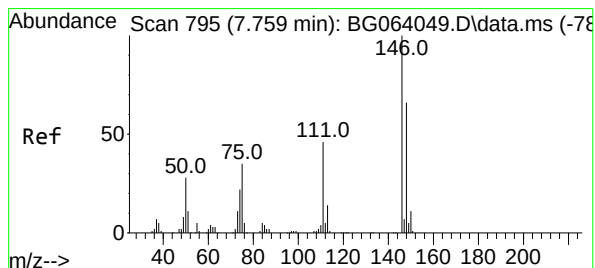
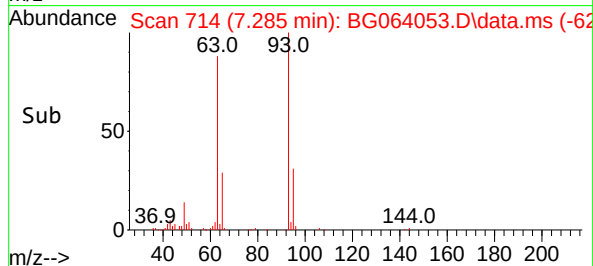
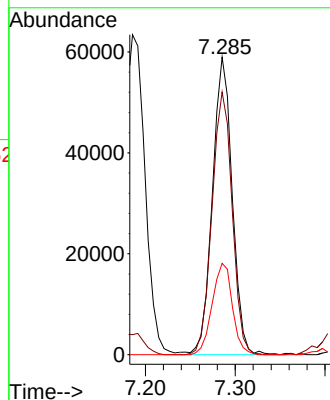
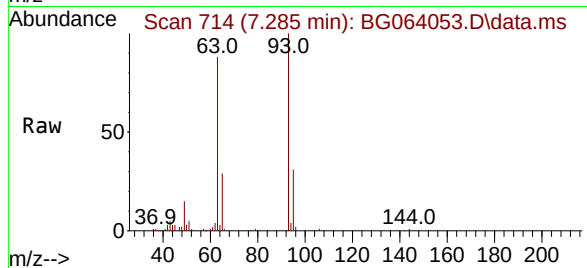
93 100

63 88.3 70.0 110.0

95 30.7 13.7 53.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#12

1,3-Dichlorobenzene

Concen: 36.876 ng

RT: 7.750 min Scan# 793

Delta R.T. -0.009 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

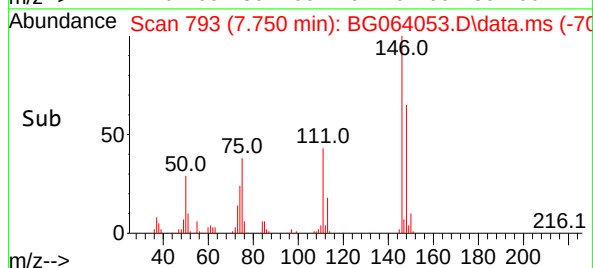
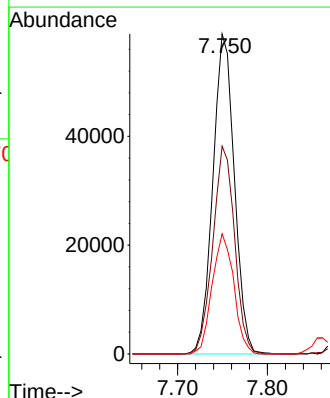
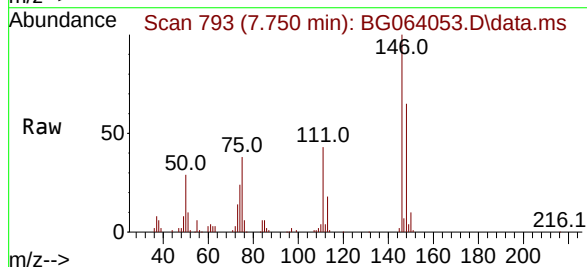
Tgt Ion:146 Resp: 97739

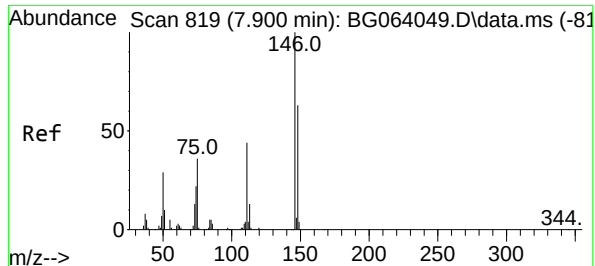
Ion Ratio Lower Upper

146 100

148 64.9 52.6 78.8

75 37.6 28.1 42.1





#13

1,4-Dichlorobenzene

Concen: 36.676 ng

RT: 7.896 min Scan# 81

Delta R.T. -0.004 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

Instrument :

BNA\_G

ClientSampleId :

ICVBG030525

Tgt Ion:146 Resp: 99638

Ion Ratio Lower Upper

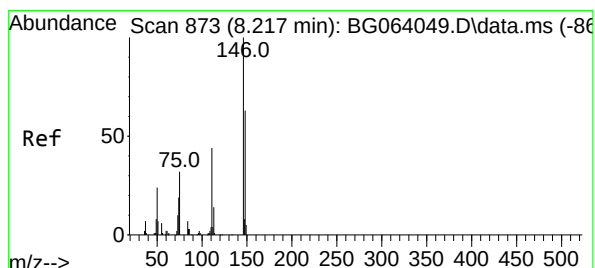
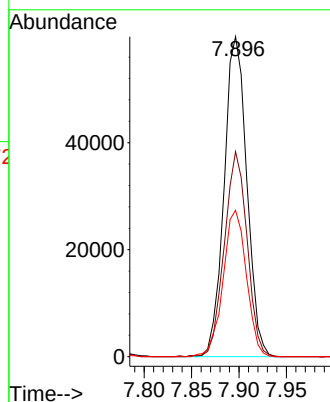
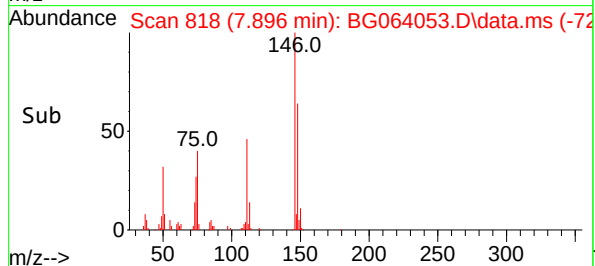
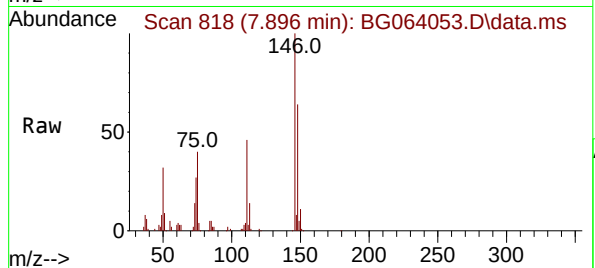
146 100

148 64.1 50.6 75.8

111 45.8 35.1 52.7

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#14

1,2-Dichlorobenzene

Concen: 36.695 ng

RT: 8.214 min Scan# 872

Delta R.T. -0.004 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

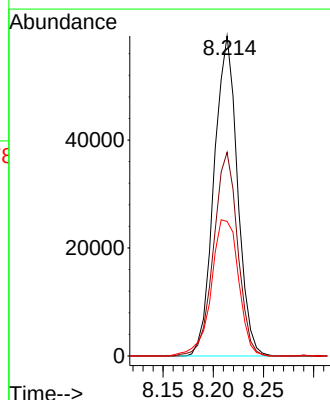
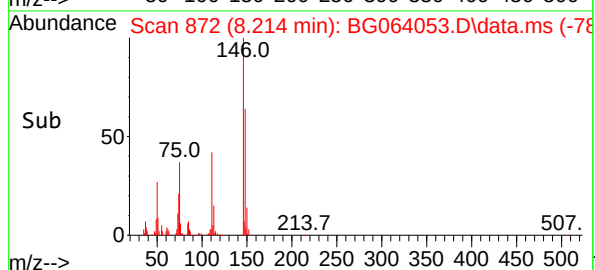
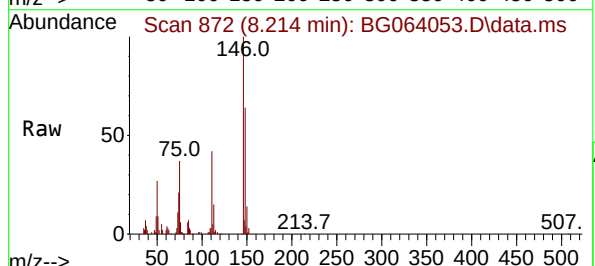
Tgt Ion:146 Resp: 96129

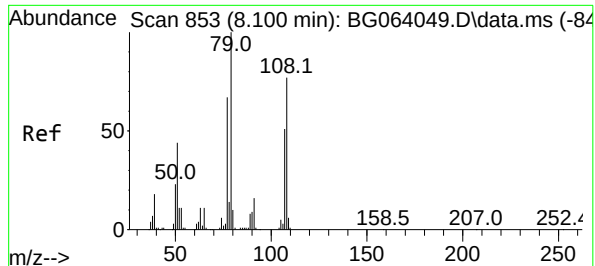
Ion Ratio Lower Upper

146 100

148 63.6 50.2 75.2

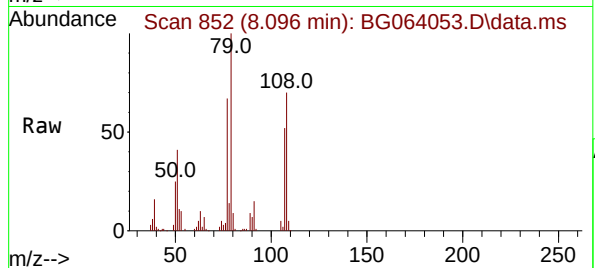
111 42.1 36.4 54.6





#15  
Benzyl Alcohol  
Concen: 38.023 ng  
RT: 8.096 min Scan# 80  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

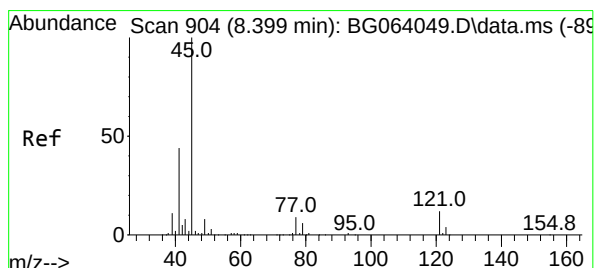
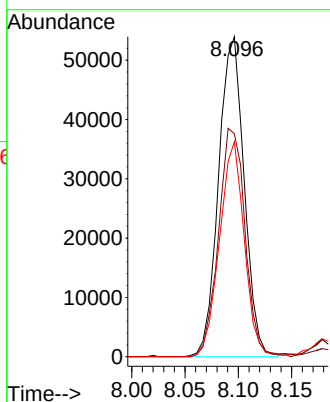
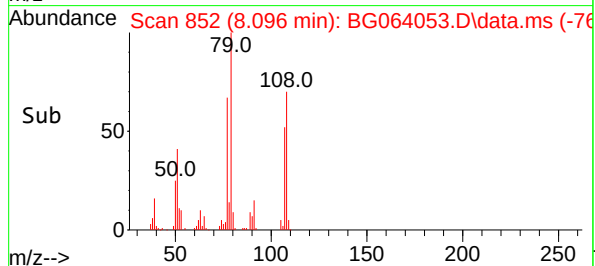
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



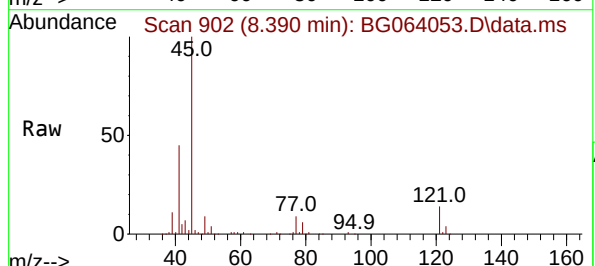
Tgt Ion: 79 Resp: 89828  
Ion Ratio Lower Upper  
79 100  
108 69.7 61.7 92.5  
77 67.2 53.9 80.9

Manual Integrations  
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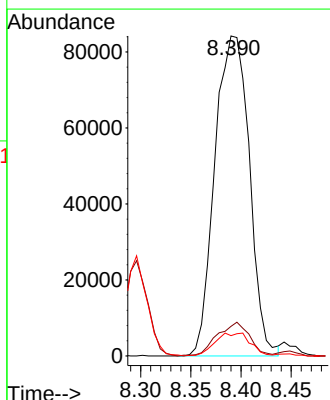
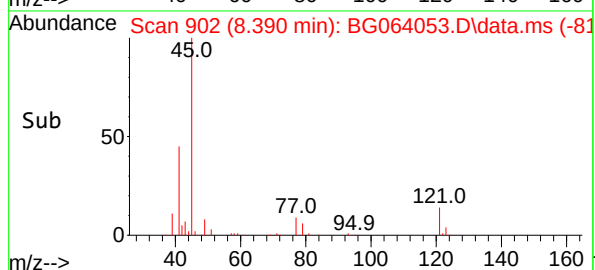
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

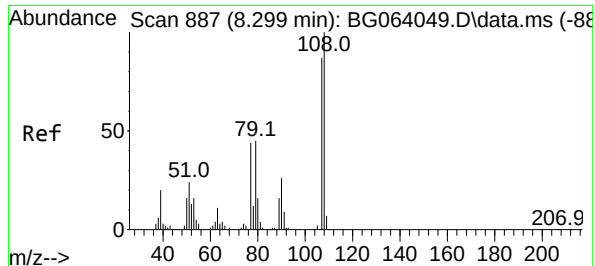


#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 36.540 ng  
RT: 8.390 min Scan# 902  
Delta R.T. -0.009 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10



Tgt Ion: 45 Resp: 201622  
Ion Ratio Lower Upper  
45 100  
77 9.3 0.0 29.0  
79 6.4 0.0 26.6





#17

2-Methylphenol

Concen: 37.680 ng

RT: 8.296 min Scan# 887

Delta R.T. -0.004 min

Lab File: BG064053.D

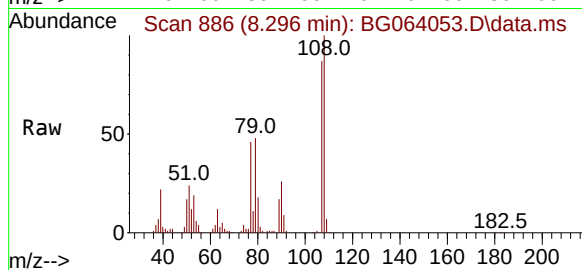
Acq: 5 Mar 2025 15:10

Instrument :

BNA\_G

ClientSampleId :

ICVBG030525

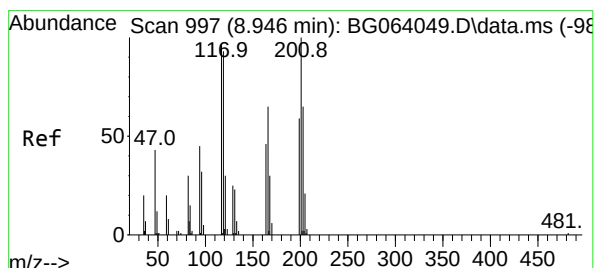
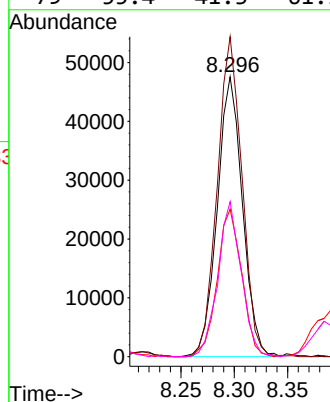
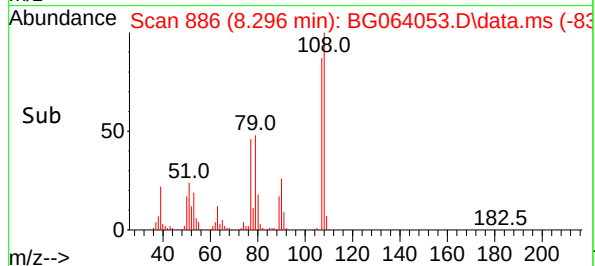


|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 78270 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 114.3 | 92.5  | 138.7 |
| 77       | 52.7  | 40.5  | 60.7  |
| 79       | 55.4  | 41.3  | 61.9  |

## Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#18

Hexachloroethane

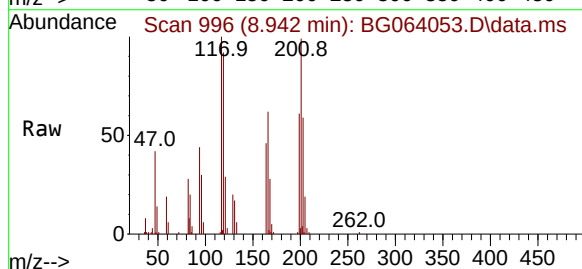
Concen: 39.404 ng

RT: 8.942 min Scan# 996

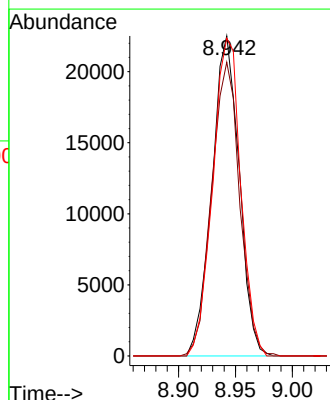
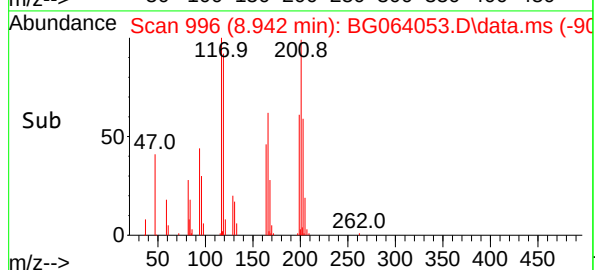
Delta R.T. -0.004 min

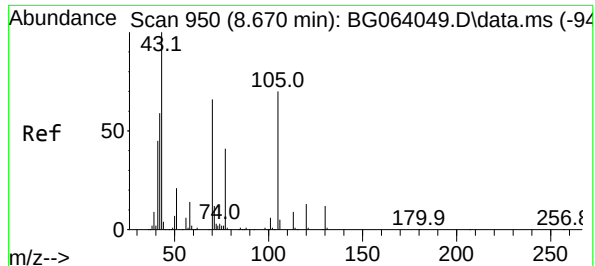
Lab File: BG064053.D

Acq: 5 Mar 2025 15:10



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 37454 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 91.8  | 76.2  | 114.2 |
| 201      | 99.3  | 81.5  | 122.3 |





#19

n-Nitroso-di-n-propylamine

Concen: 35.648 ng

RT: 8.666 min Scan# 94

Delta R.T. -0.004 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

Instrument :

BNA\_G

ClientSampleId :

ICVBG030525

Tgt Ion: 70 Resp: 76484

Ion Ratio Lower Upper

70 100

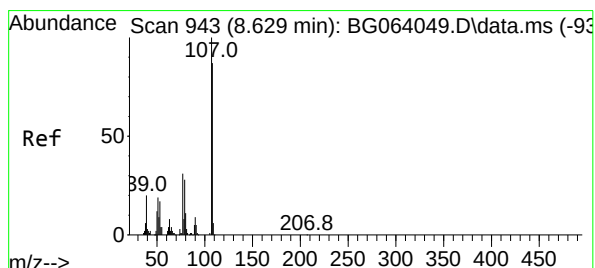
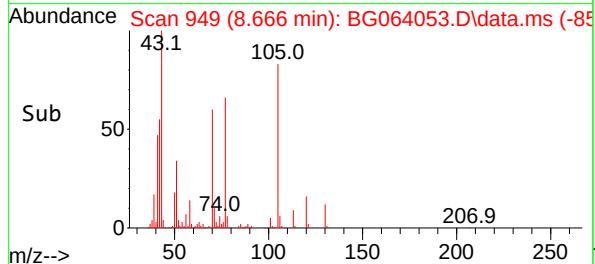
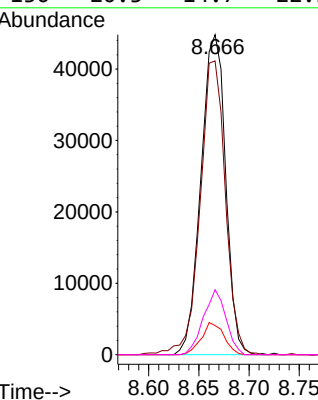
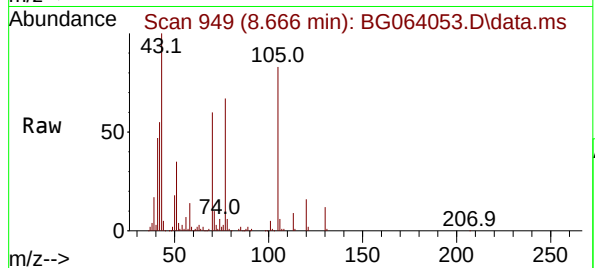
42 91.8 72.1 108.1

101 9.1 7.2 10.8

130 20.3 14.7 22.1

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#20

3+4-Methylphenols

Concen: 37.166 ng

RT: 8.619 min Scan# 941

Delta R.T. -0.009 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

Tgt Ion:107 Resp: 106291

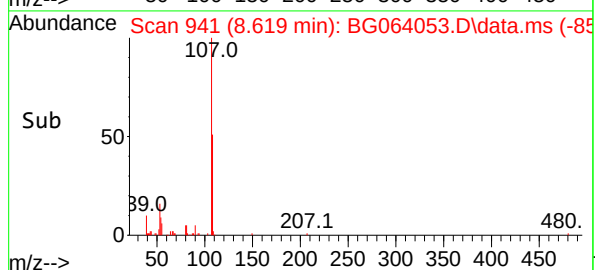
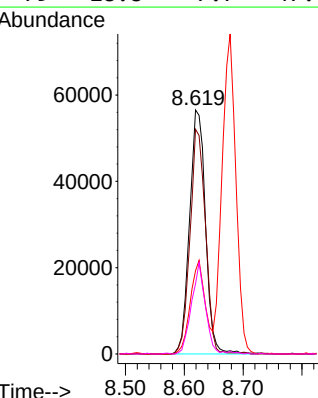
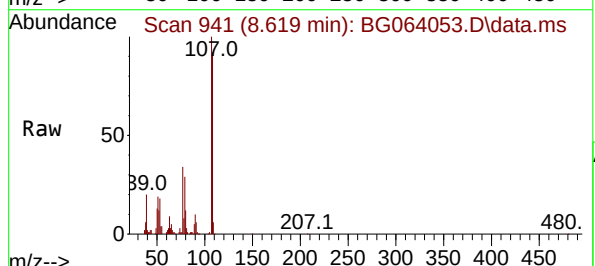
Ion Ratio Lower Upper

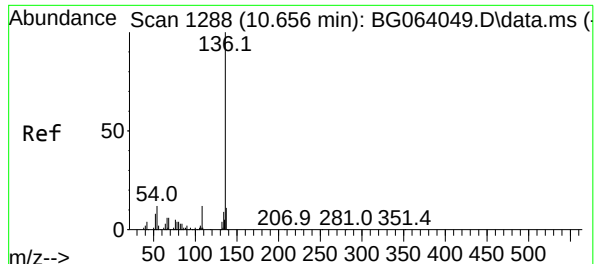
107 100

108 92.1 67.0 107.0

77 34.2 11.2 51.2

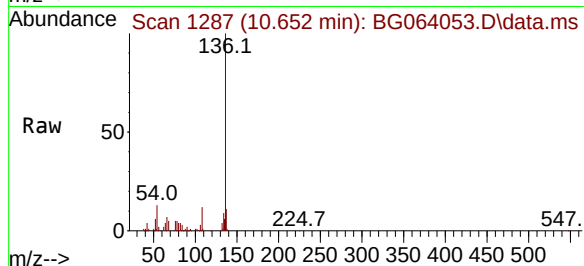
79 28.8 7.7 47.7





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.652 min Scan# 11  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

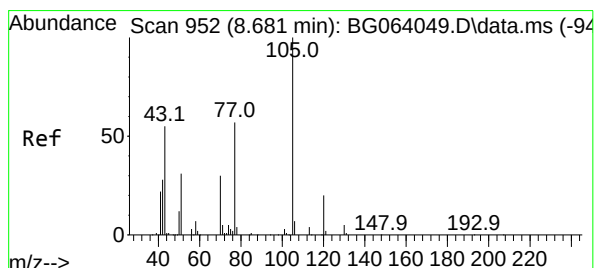
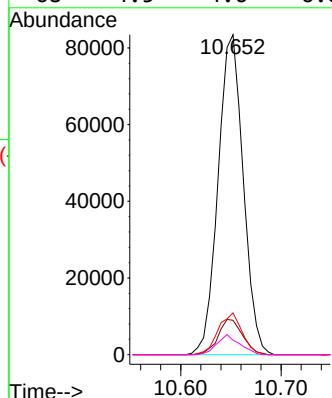
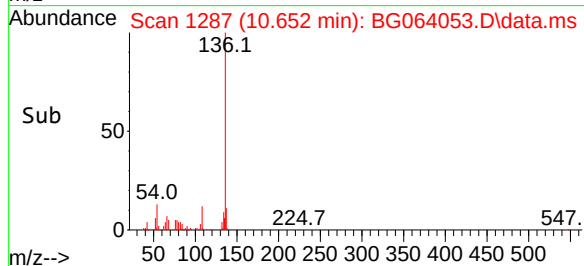
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:136 Resp: 145084  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.5 12.7  
54 13.0 9.9 14.9  
68 4.5 4.6 6.8#

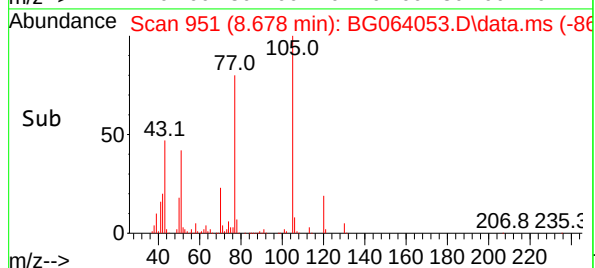
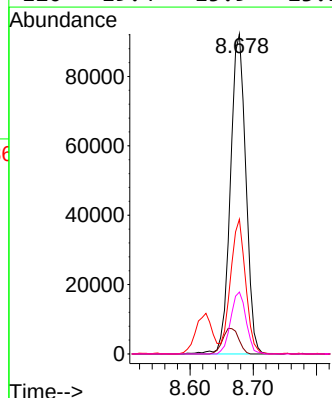
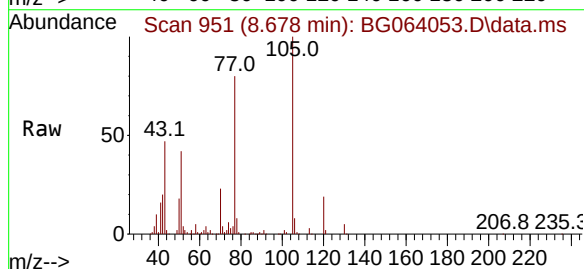
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Supervised By :mohammad ahmed 03/07/2025

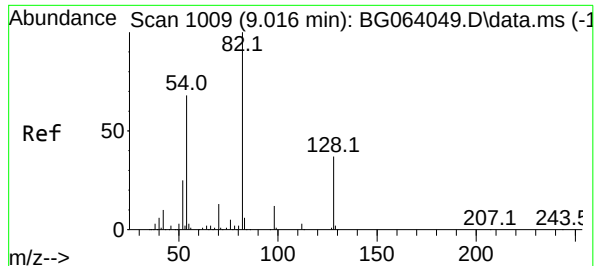


#22  
Acetophenone  
Concen: 39.285 ng  
RT: 8.678 min Scan# 951  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

Tgt Ion:105 Resp: 156271  
Ion Ratio Lower Upper  
105 100  
71 4.2 4.2 6.4#  
51 42.1 33.3 49.9  
120 19.4 15.9 23.9







#23

Nitrobenzene-d5

Concen: 84.279 ng

RT: 9.013 min Scan# 1008

Delta R.T. -0.004 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

Instrument :

BNA\_G

ClientSampleId :

ICVBG030525

Tgt Ion: 82 Resp: 22126

Ion Ratio Lower Upper

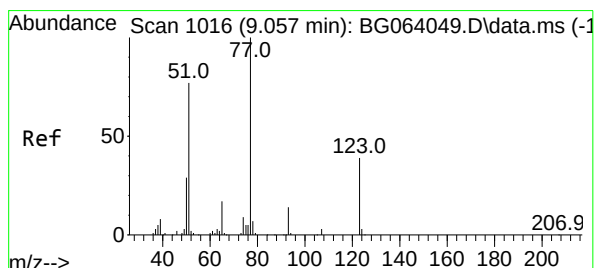
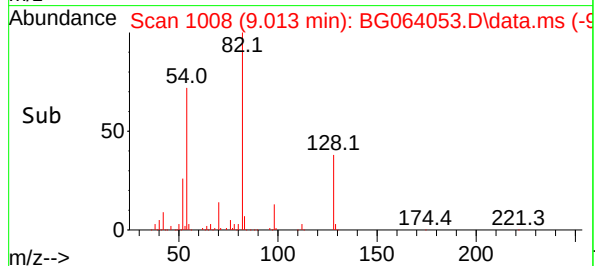
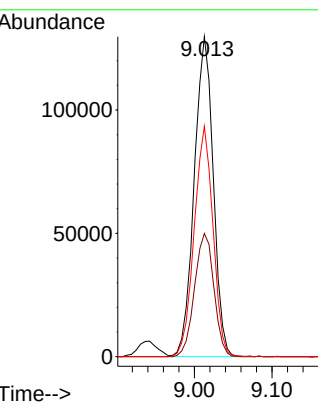
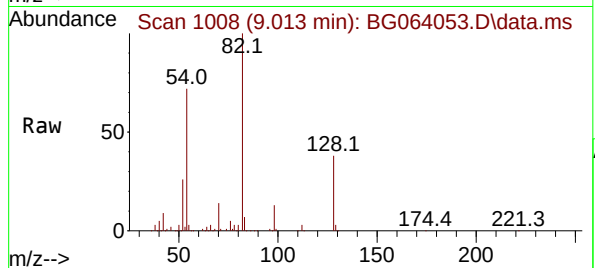
82 100

128 38.5 30.0 45.0

54 72.0 54.7 82.1

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#24

Nitrobenzene

Concen: 42.208 ng

RT: 9.054 min Scan# 1015

Delta R.T. -0.004 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

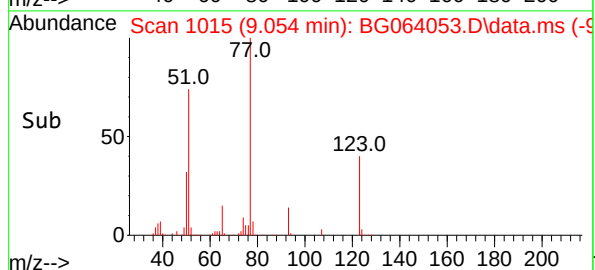
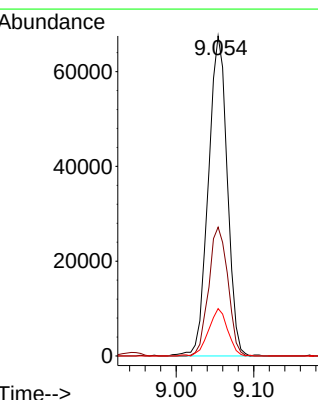
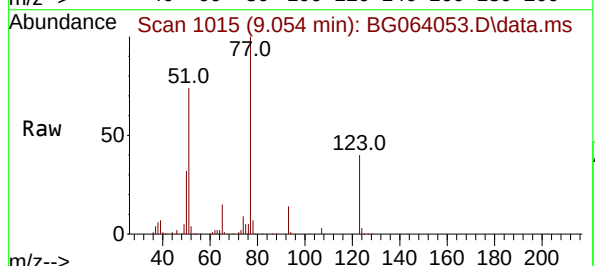
Tgt Ion: 77 Resp: 114521

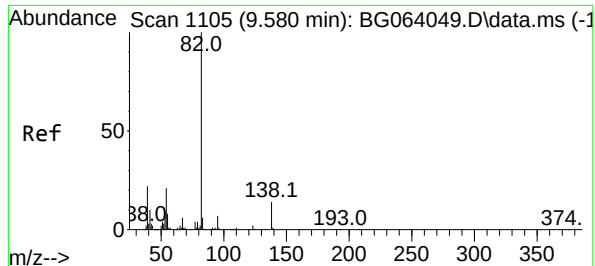
Ion Ratio Lower Upper

77 100

123 40.3 31.4 47.2

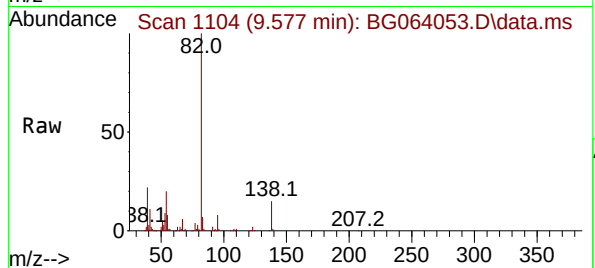
65 14.8 13.4 20.0





#25  
Isophorone  
Concen: 37.823 ng  
RT: 9.577 min Scan# 1105  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

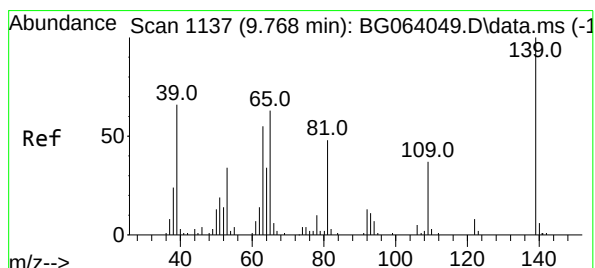
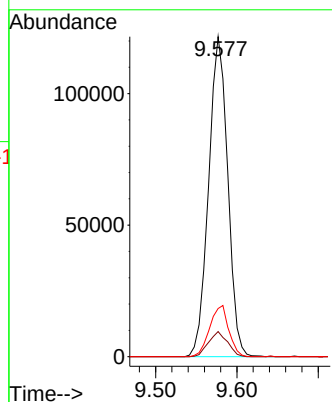
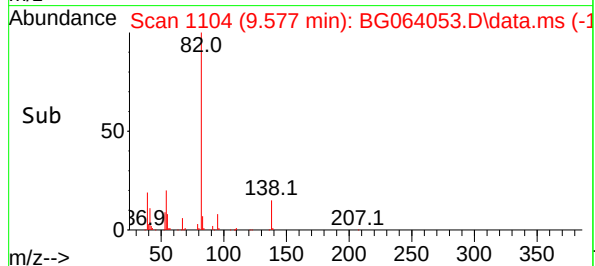
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion: 82 Resp: 198754  
Ion Ratio Lower Upper  
82 100  
95 7.9 5.8 8.8  
138 15.1 10.9 16.3

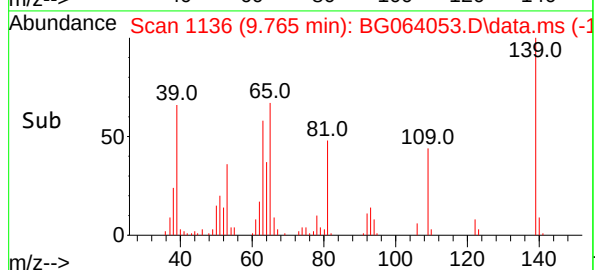
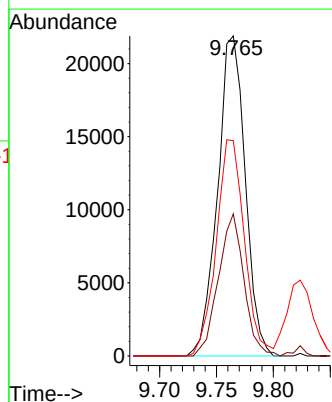
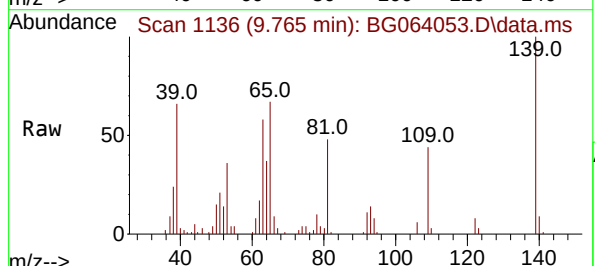
Manual Integrations  
APPROVED

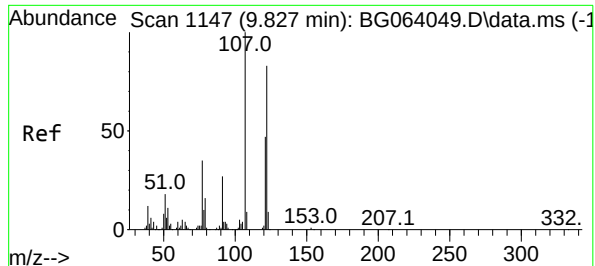
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#26  
2-Nitrophenol  
Concen: 40.946 ng  
RT: 9.765 min Scan# 1136  
Delta R.T. -0.003 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

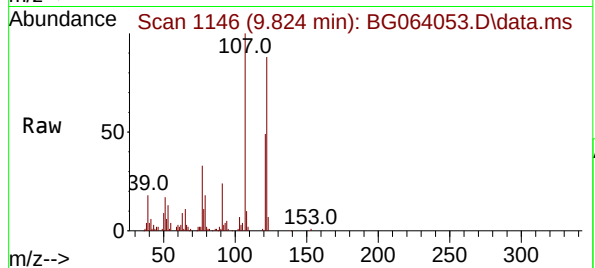
Tgt Ion:139 Resp: 36978  
Ion Ratio Lower Upper  
139 100  
109 44.4 29.9 44.9  
65 67.3 50.6 76.0





#27  
2,4-Dimethylphenol  
Concen: 40.139 ng  
RT: 9.824 min Scan# 1146  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

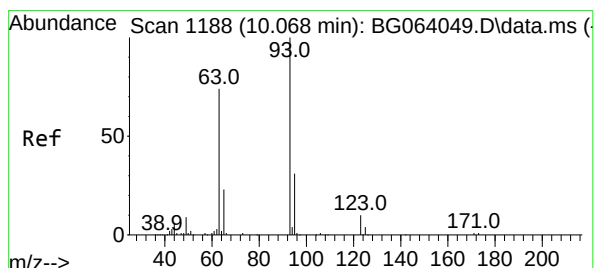
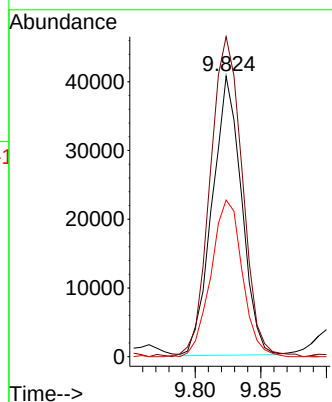
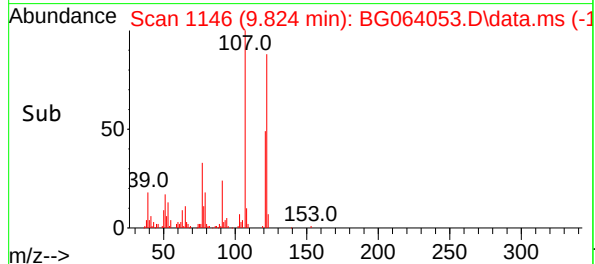
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:122 Resp: 6323  
Ion Ratio Lower Upper  
122 100  
107 114.1 95.4 143.0  
121 55.8 44.9 67.3

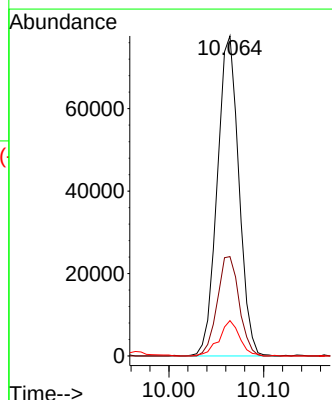
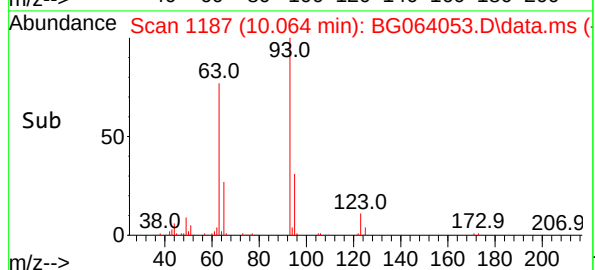
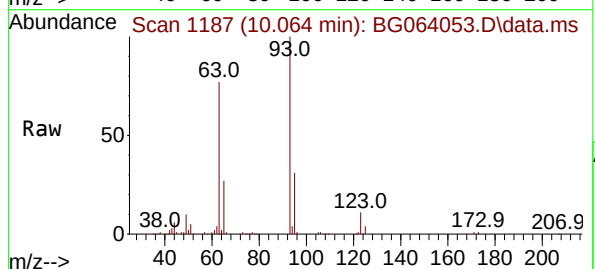
Manual Integrations  
APPROVED

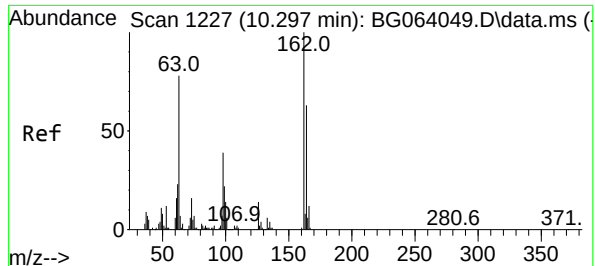
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#28  
bis(2-Chloroethoxy)methane  
Concen: 38.620 ng  
RT: 10.064 min Scan# 1187  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

Tgt Ion: 93 Resp: 123038  
Ion Ratio Lower Upper  
93 100  
95 31.1 25.0 37.4  
123 11.1 7.6 11.4





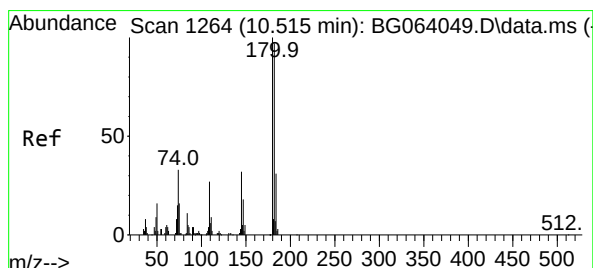
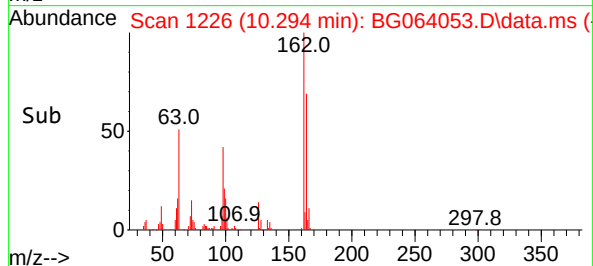
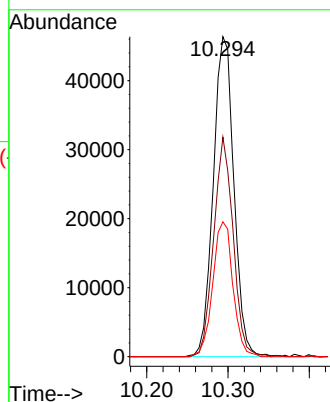
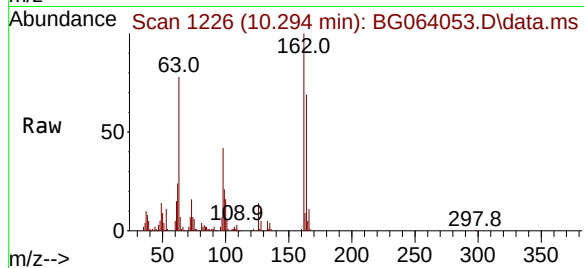
#29  
2,4-Dichlorophenol  
Concen: 41.154 ng  
RT: 10.294 min Scan# 1226  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525

Tgt Ion:162 Resp: 8186  
Ion Ratio Lower Upper  
162 100  
164 68.6 42.8 82.8  
98 42.1 19.1 59.1

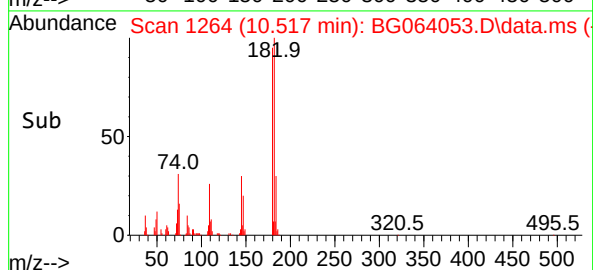
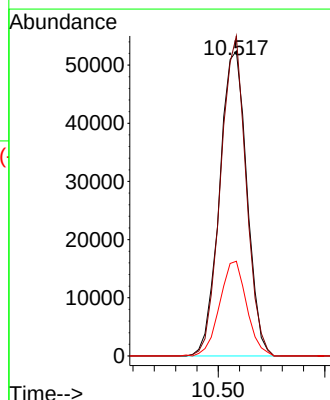
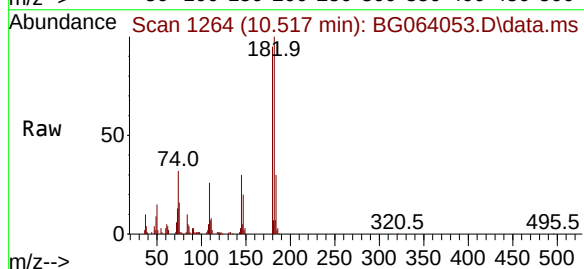
Manual Integrations  
APPROVED

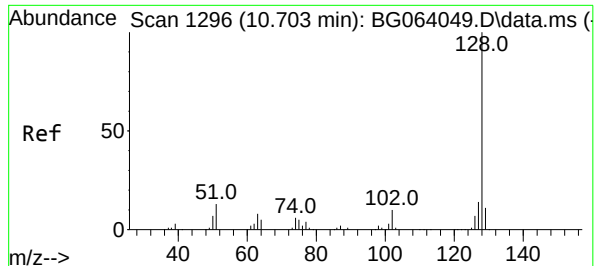
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#30  
1,2,4-Trichlorobenzene  
Concen: 38.802 ng  
RT: 10.517 min Scan# 1264  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

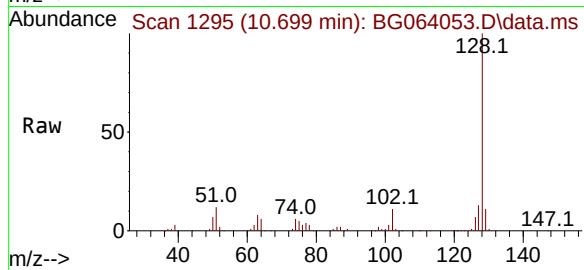
Tgt Ion:180 Resp: 93175  
Ion Ratio Lower Upper  
180 100  
182 104.9 77.3 115.9  
145 31.1 25.2 37.8





#31  
Naphthalene  
Concen: 39.402 ng  
RT: 10.699 min Scan# 1168  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

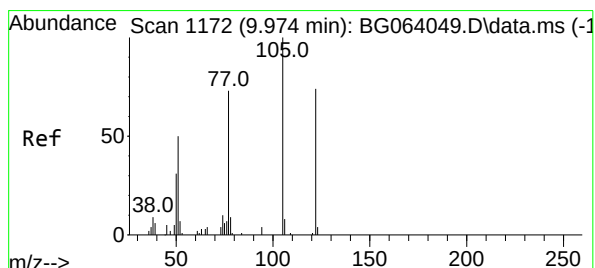
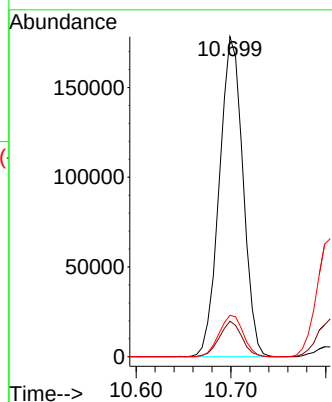
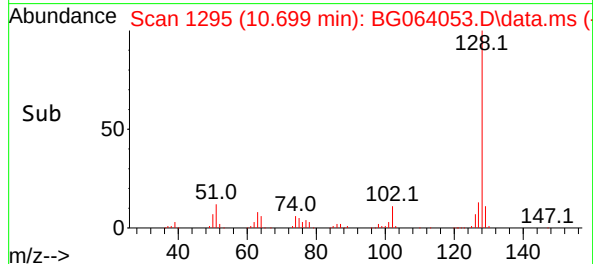
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:128 Resp: 30825  
Ion Ratio Lower Upper  
128 100  
129 11.1 8.4 12.6  
127 12.9 11.1 16.7

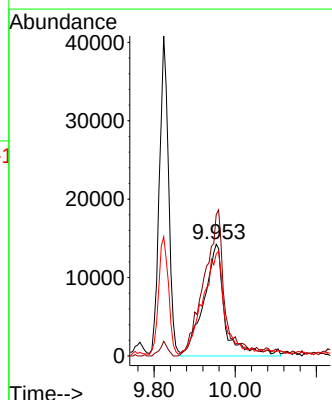
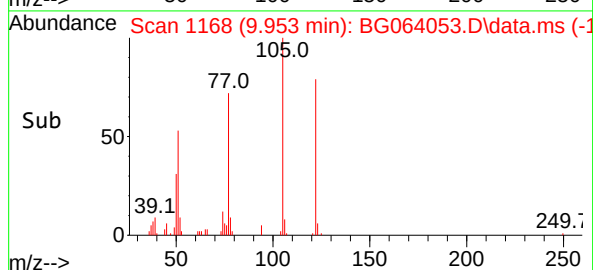
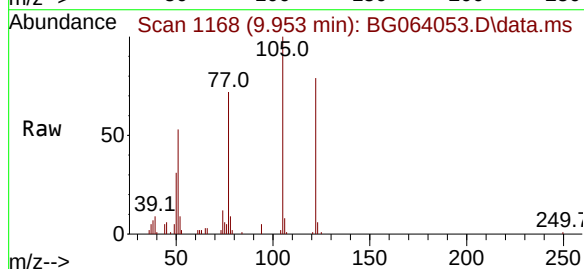
Manual Integrations  
APPROVED

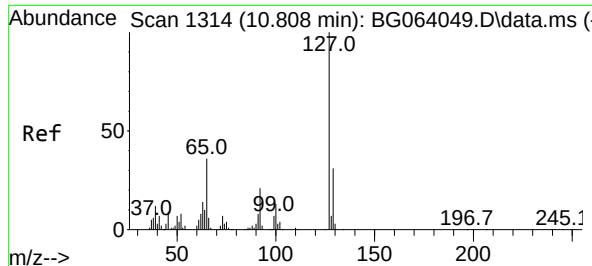
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#32  
Benzoic acid  
Concen: 37.906 ng m  
RT: 9.953 min Scan# 1168  
Delta R.T. -0.021 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

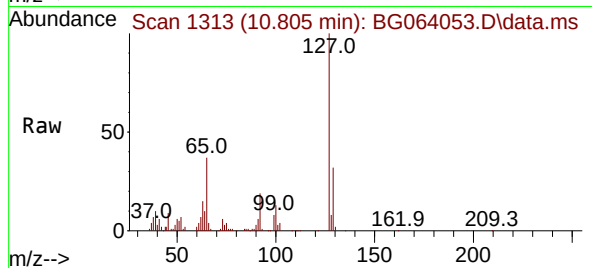
Tgt Ion:122 Resp: 51607  
Ion Ratio Lower Upper  
122 100  
105 126.5 115.0 155.0  
77 91.3 80.9 120.9





#33  
4-Chloroaniline  
Concen: 39.949 ng  
RT: 10.805 min Scan# 114228  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

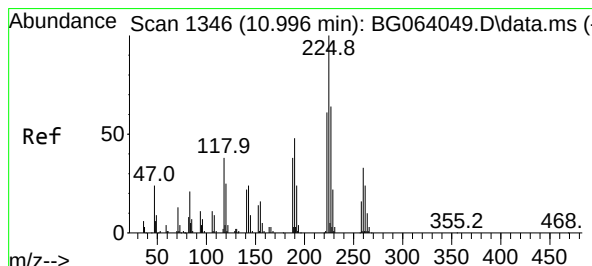
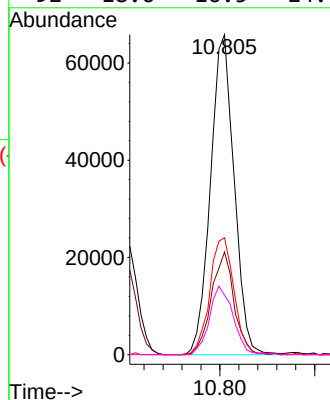
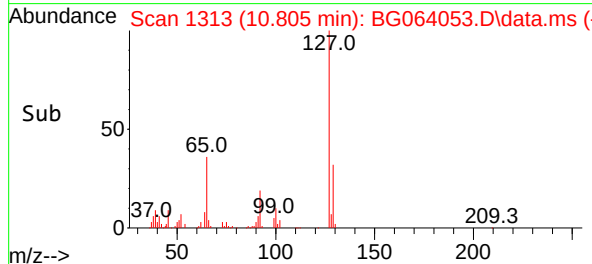
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 32.1  | 25.0  | 37.4  |
| 65      | 36.5  | 28.5  | 42.7  |
| 92      | 18.6  | 16.5  | 24.7  |

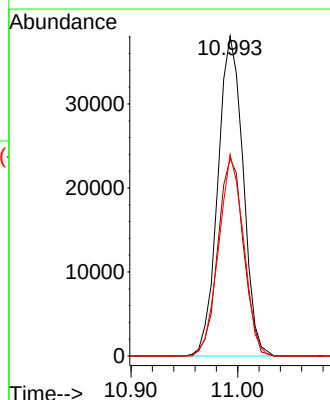
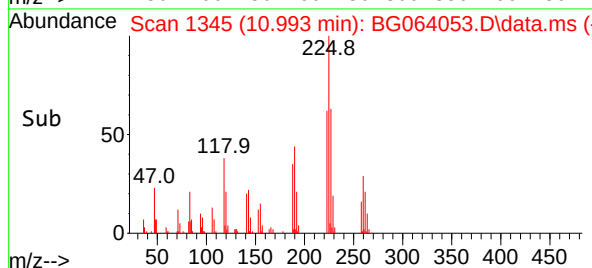
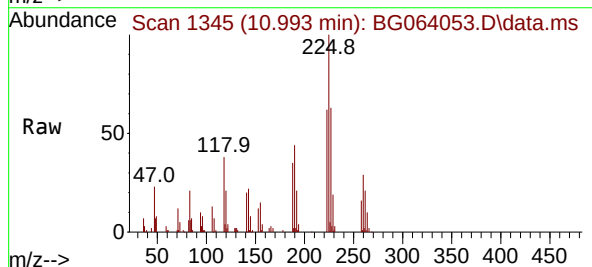
Manual Integrations  
APPROVED

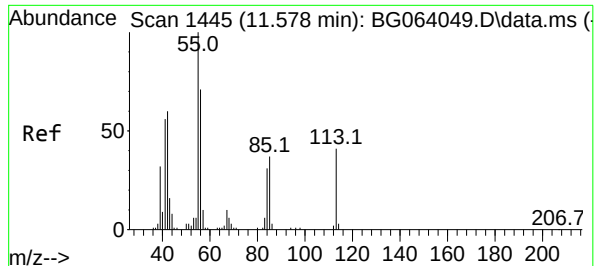
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#34  
Hexachlorobutadiene  
Concen: 39.720 ng  
RT: 10.993 min Scan# 1345  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

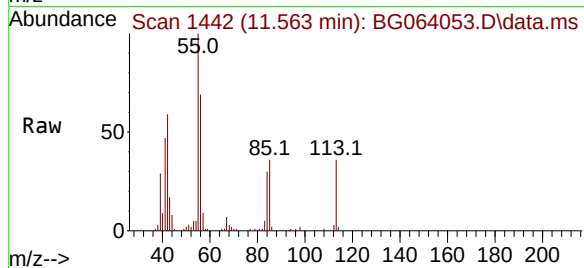
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 61.7  | 48.5  | 72.7  |
| 227     | 63.0  | 51.0  | 76.6  |





#35  
Caprolactam  
Concen: 42.084 ng  
RT: 11.563 min Scan# 1445  
Delta R.T. -0.015 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

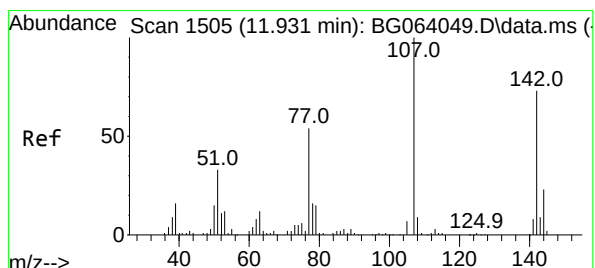
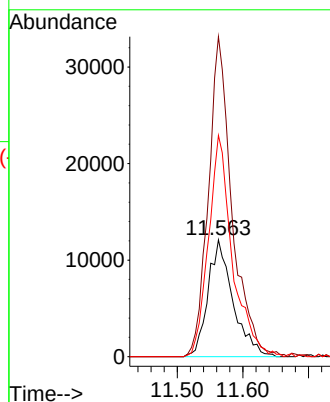
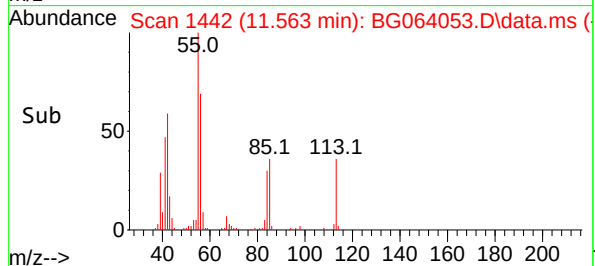
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



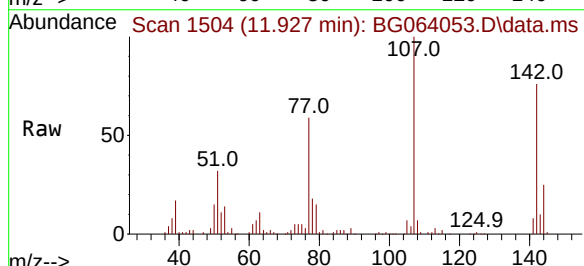
Tgt Ion:113 Resp: 32080  
Ion Ratio Lower Upper  
113 100  
55 274.0 225.2 265.2  
56 189.5 153.4 193.4

Manual Integrations  
APPROVED

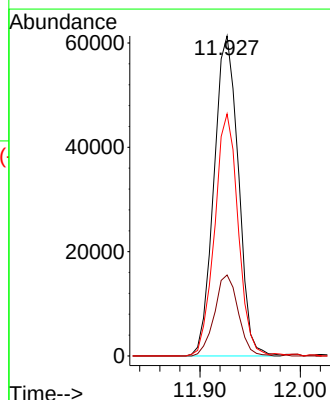
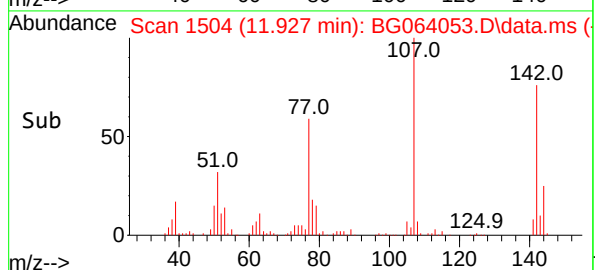
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

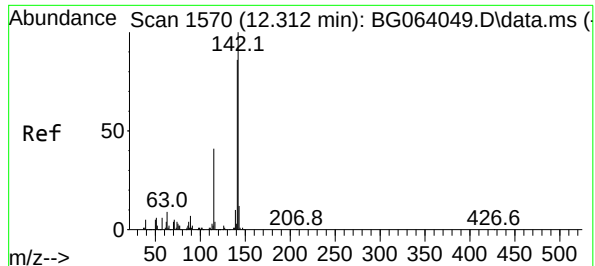


#36  
4-Chloro-3-methylphenol  
Concen: 39.649 ng  
RT: 11.927 min Scan# 1504  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10



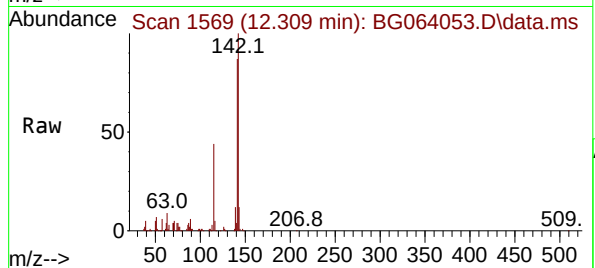
Tgt Ion:107 Resp: 103382  
Ion Ratio Lower Upper  
107 100  
144 25.3 18.6 28.0  
142 75.7 58.0 87.0





#37  
2-Methylnaphthalene  
Concen: 38.463 ng  
RT: 12.309 min Scan# 1569  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

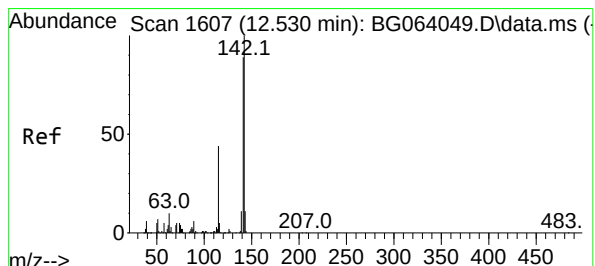
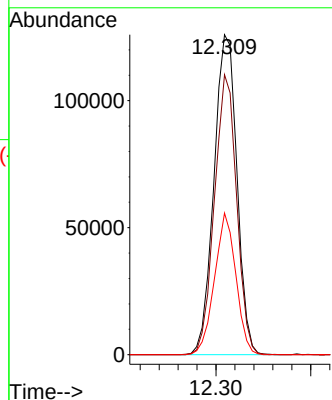
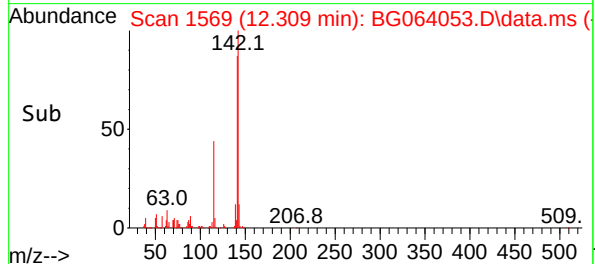
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:142 Resp: 21243  
Ion Ratio Lower Upper  
142 100  
141 87.5 68.6 103.0  
115 44.2 32.8 49.2

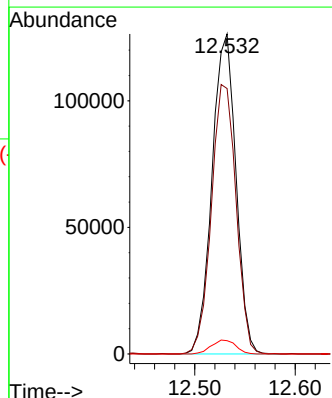
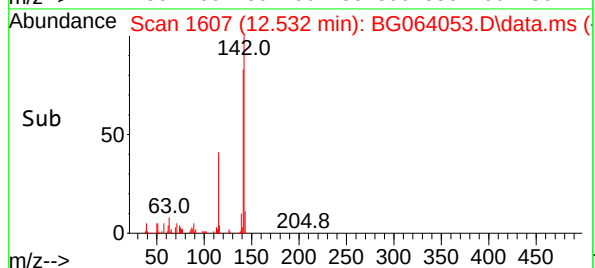
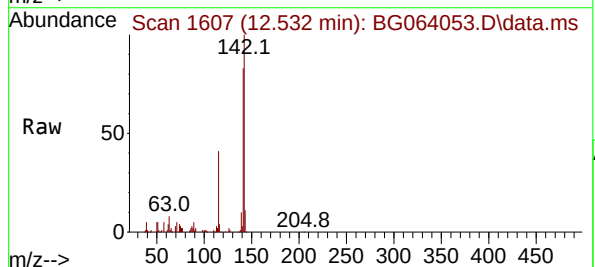
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

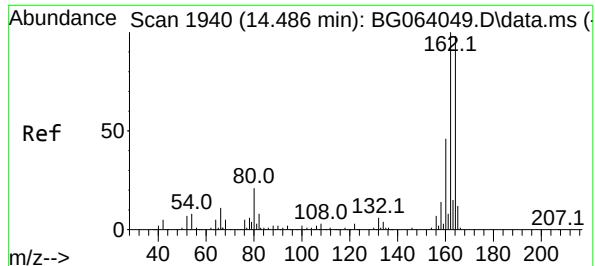


#38  
1-Methylnaphthalene  
Concen: 38.724 ng  
RT: 12.532 min Scan# 1607  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

Tgt Ion:142 Resp: 209530  
Ion Ratio Lower Upper  
142 100  
141 83.0 71.2 106.8  
116 4.1 3.6 5.4







#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.489 min Scan# 1940

Delta R.T. 0.003 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

Instrument :

BNA\_G

ClientSampleId :

ICVBG030525

Tgt Ion:164 Resp: 93720

Ion Ratio Lower Upper

164 100

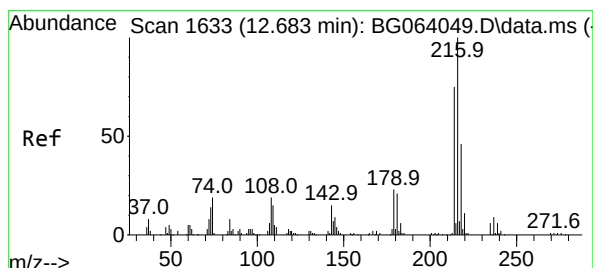
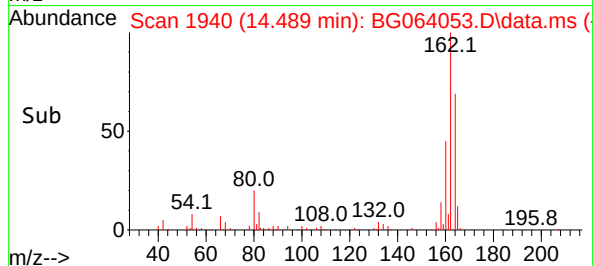
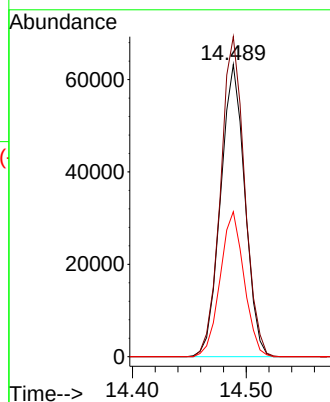
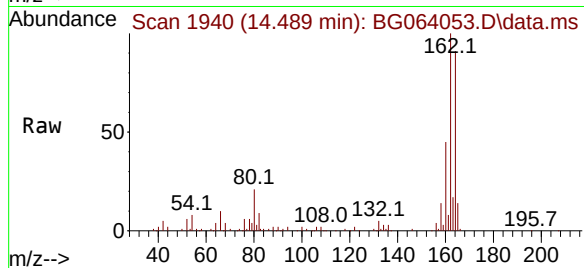
162 109.5 81.4 122.0

160 49.6 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
 Supervised By :mohammad ahmed 03/07/2025



#40

1,2,4,5-Tetrachlorobenzene

Concen: 39.630 ng

RT: 12.679 min Scan# 1632

Delta R.T. -0.004 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

Tgt Ion:216 Resp: 106041

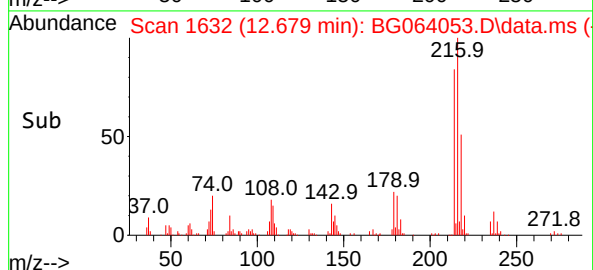
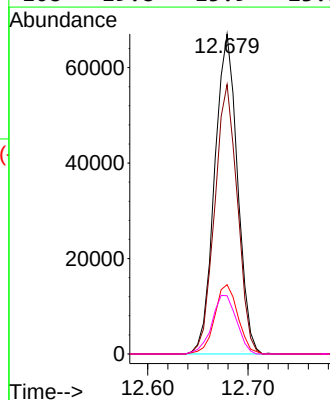
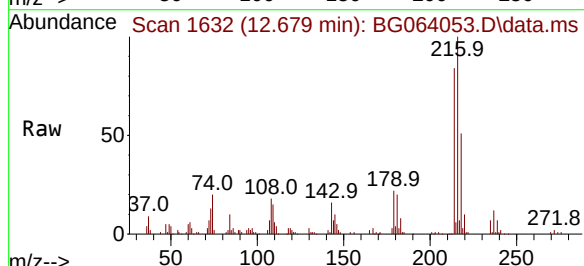
Ion Ratio Lower Upper

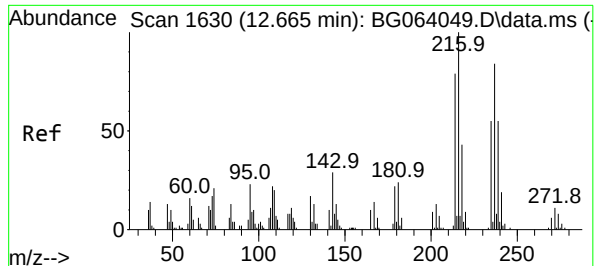
216 100

214 83.5 61.7 92.5

179 22.0 17.9 26.9

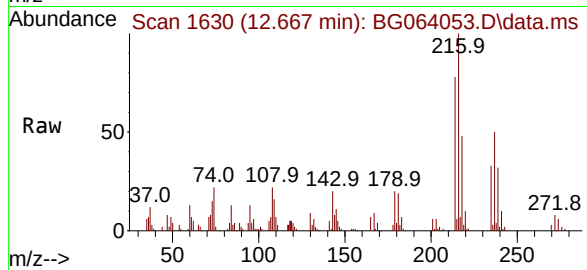
108 19.8 15.9 23.9





#41  
Hexachlorocyclopentadiene  
Concen: 43.873 ng  
RT: 12.667 min Scan# 1630  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

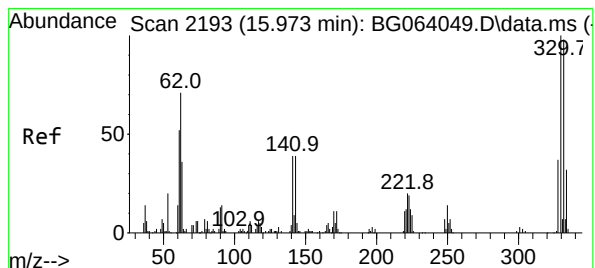
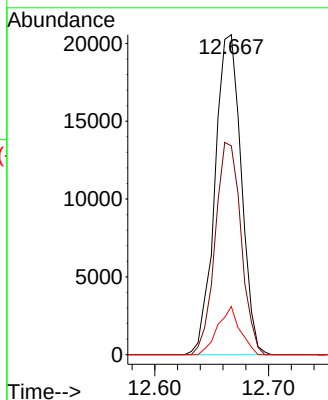
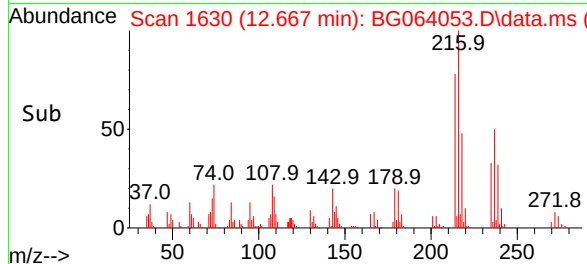
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



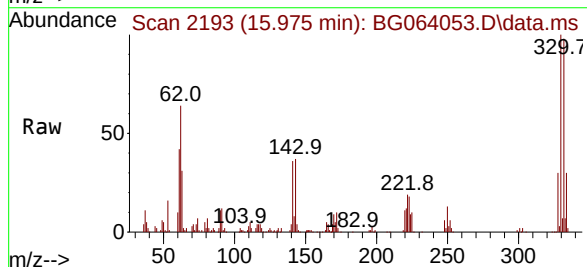
Tgt Ion:237 Resp: 3304  
Ion Ratio Lower Upper  
237 100  
235 65.3 46.0 86.0  
272 15.0 0.0 32.8

Manual Integrations  
APPROVED

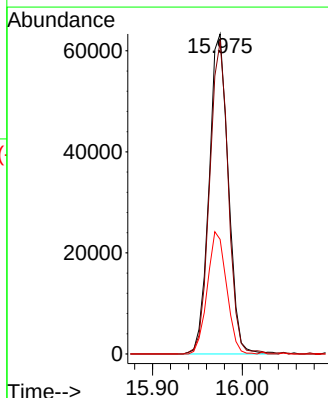
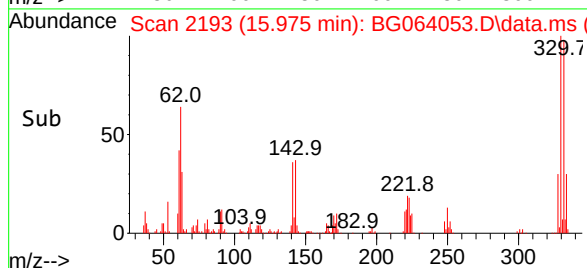
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

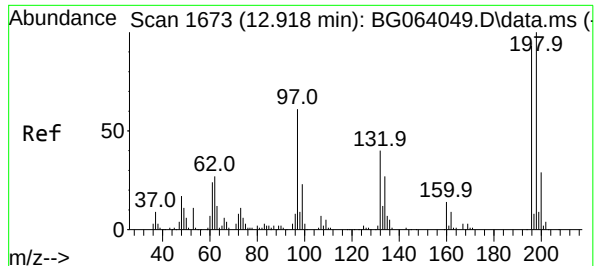


#42  
2,4,6-Tribromophenol  
Concen: 90.311 ng  
RT: 15.975 min Scan# 2193  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10



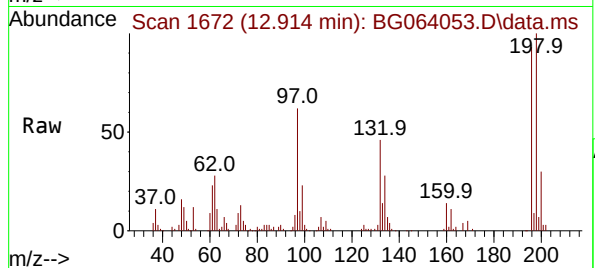
Tgt Ion:330 Resp: 94089  
Ion Ratio Lower Upper  
330 100  
332 94.7 76.7 115.1  
141 38.2 29.7 44.5





#43  
2,4,6-Trichlorophenol  
Concen: 42.165 ng  
RT: 12.914 min Scan# 1673  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

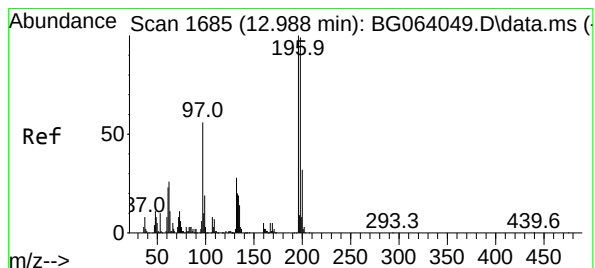
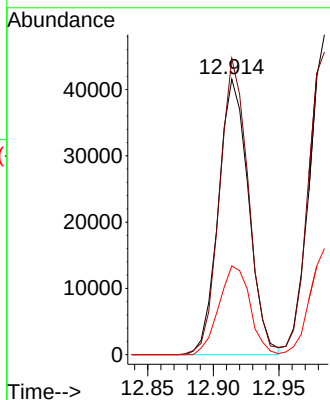
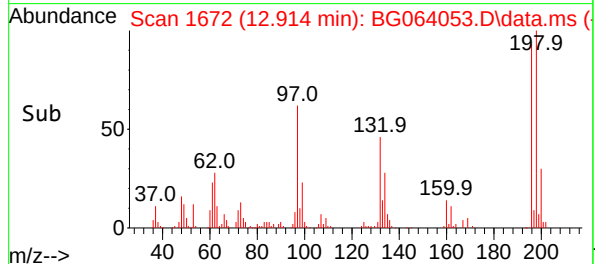
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:196 Resp: 66490  
Ion Ratio Lower Upper  
196 100  
198 107.5 85.6 128.4  
200 32.2 24.6 37.0

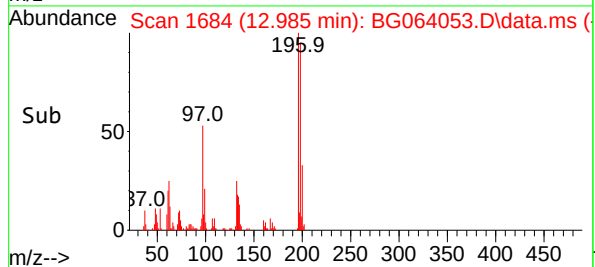
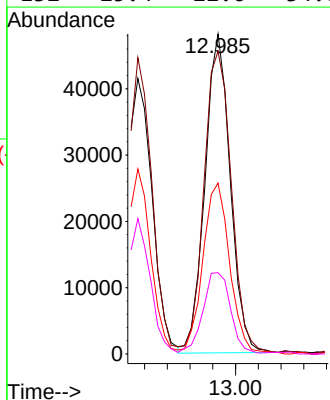
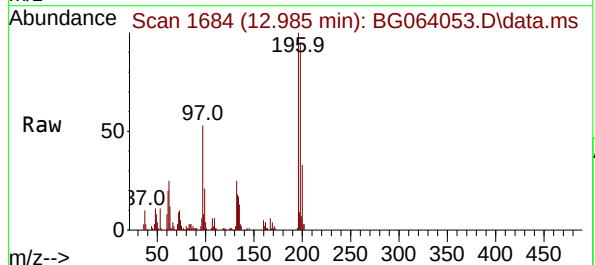
Manual Integrations  
APPROVED

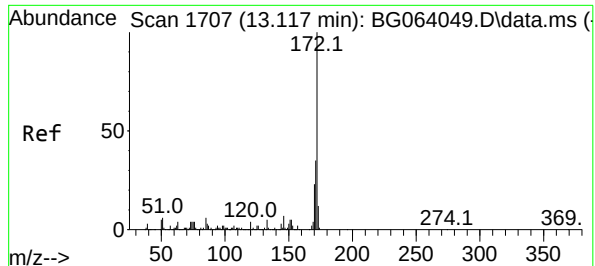
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#44  
2,4,5-Trichlorophenol  
Concen: 42.561 ng  
RT: 12.985 min Scan# 1684  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

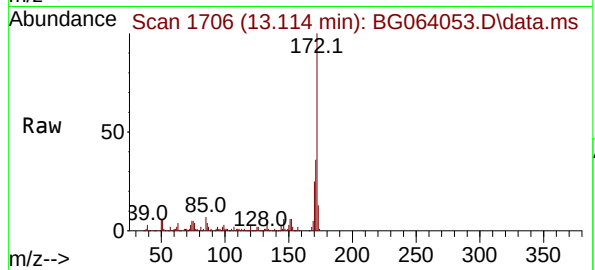
Tgt Ion:196 Resp: 74580  
Ion Ratio Lower Upper  
196 100  
198 94.6 79.5 119.3  
97 53.4 45.2 67.8  
132 25.4 22.6 34.0





#45  
2-Fluorobiphenyl  
Concen: 80.186 ng  
RT: 13.114 min Scan# 1706  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

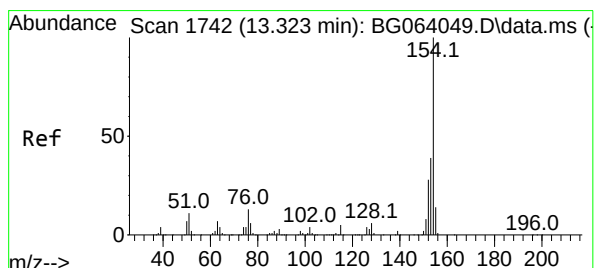
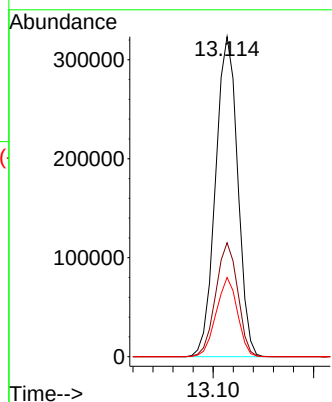
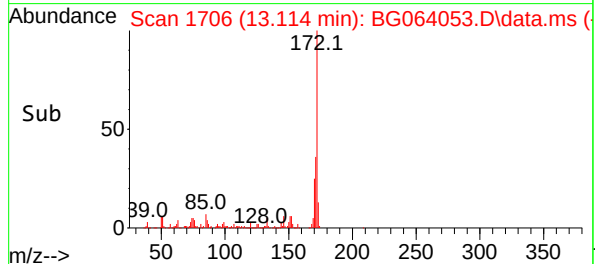
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:172 Resp: 495129  
Ion Ratio Lower Upper  
172 100  
171 35.6 28.0 42.0  
170 24.7 18.7 28.1

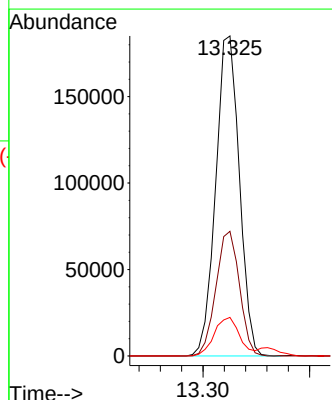
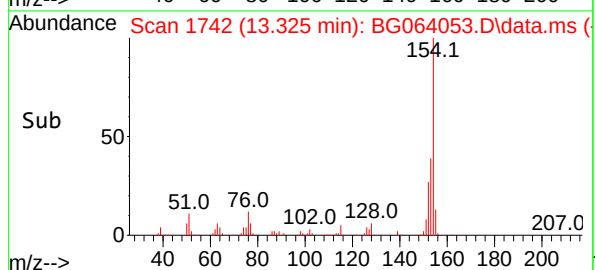
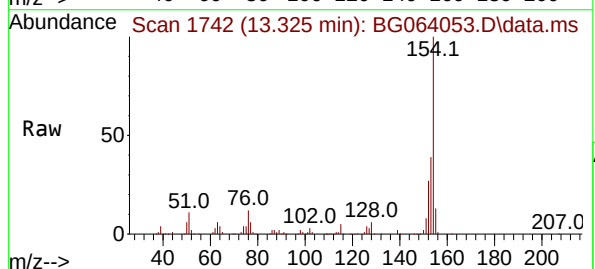
Manual Integrations  
APPROVED

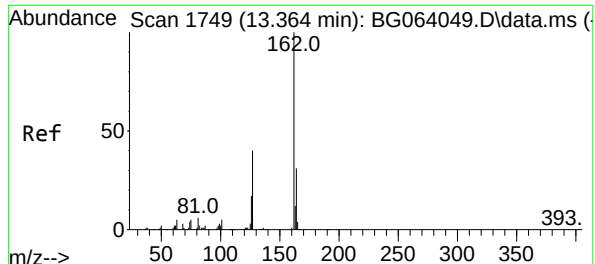
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#46  
1,1'-Biphenyl  
Concen: 40.196 ng  
RT: 13.325 min Scan# 1742  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

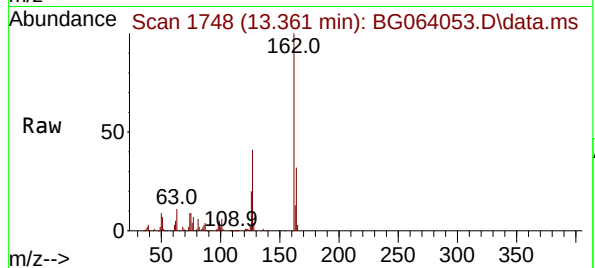
Tgt Ion:154 Resp: 284632  
Ion Ratio Lower Upper  
154 100  
153 38.9 19.5 59.5  
76 12.0 0.0 33.5





#47  
2-Chloronaphthalene  
Concen: 40.309 ng  
RT: 13.361 min Scan# 1748  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

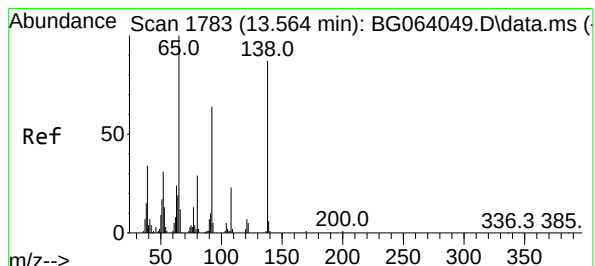
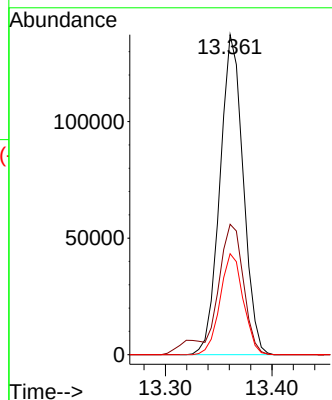
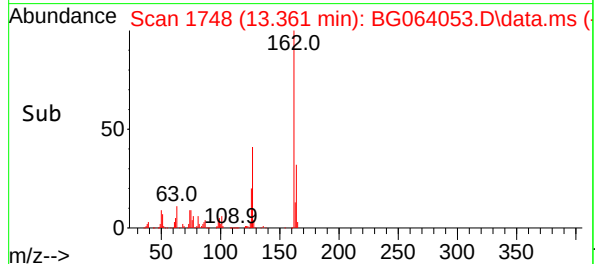
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:162 Resp: 208172  
Ion Ratio Lower Upper  
162 100  
127 40.8 35.0 52.4  
164 31.6 25.0 37.6

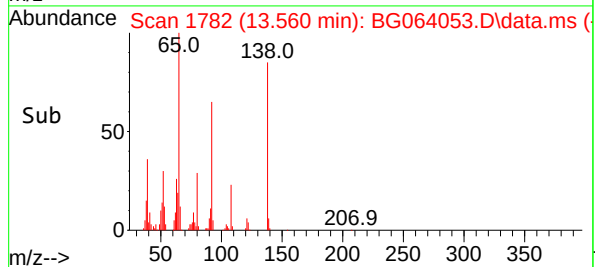
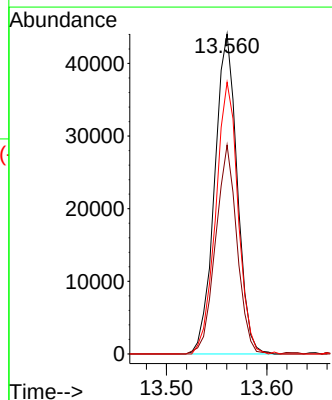
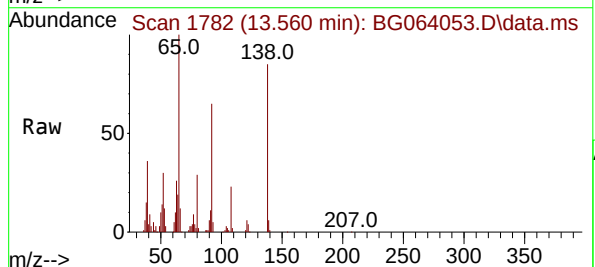
Manual Integrations  
APPROVED

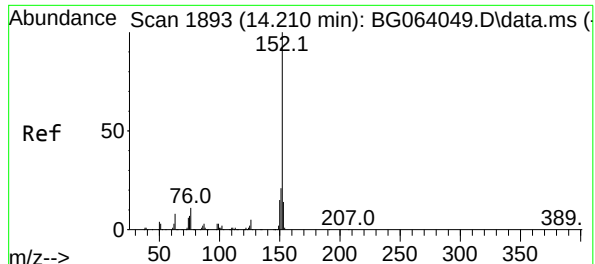
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#48  
2-Nitroaniline  
Concen: 41.405 ng  
RT: 13.560 min Scan# 1782  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

Tgt Ion: 65 Resp: 68823  
Ion Ratio Lower Upper  
65 100  
92 65.3 51.2 76.8  
138 84.9 69.4 104.2





#49

Acenaphthylene

Concen: 40.537 ng

RT: 14.207 min Scan# 1892

Delta R.T. -0.004 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

Instrument :

BNA\_G

ClientSampleId :

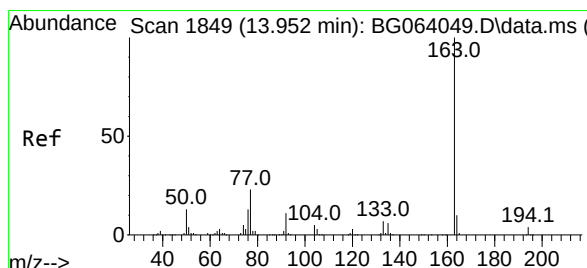
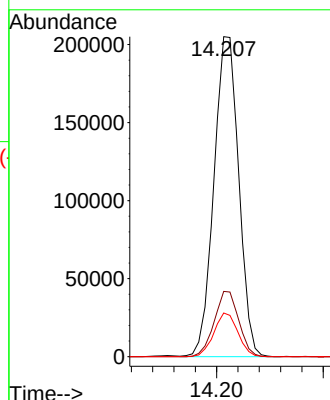
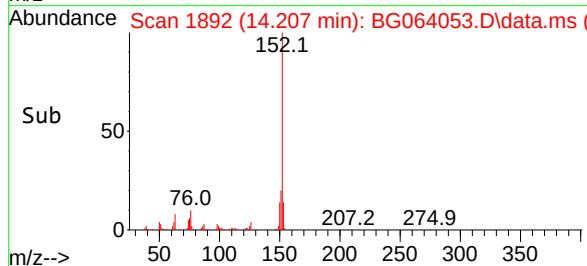
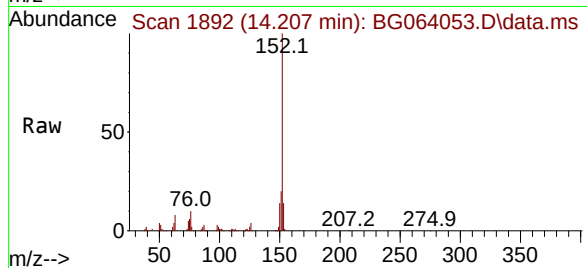
ICVBG030525

Tgt Ion:152 Resp: 331135  
Ion Ratio Lower Upper  
152 100  
151 20.4 16.4 24.6  
153 13.6 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#50

Dimethylphthalate

Concen: 39.712 ng

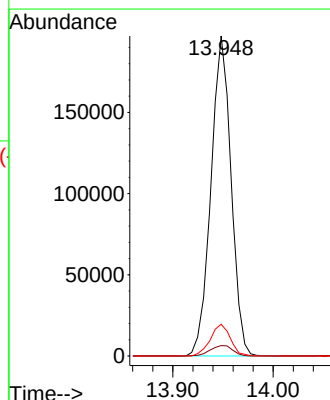
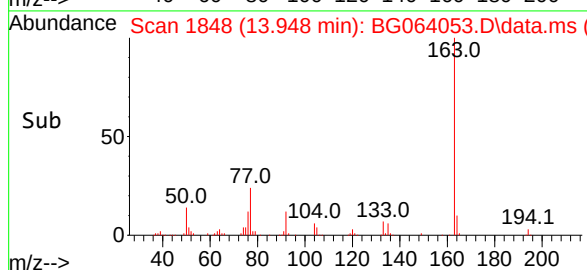
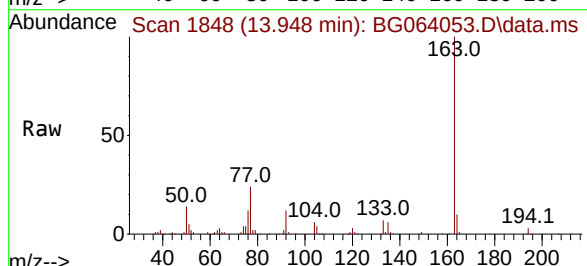
RT: 13.948 min Scan# 1848

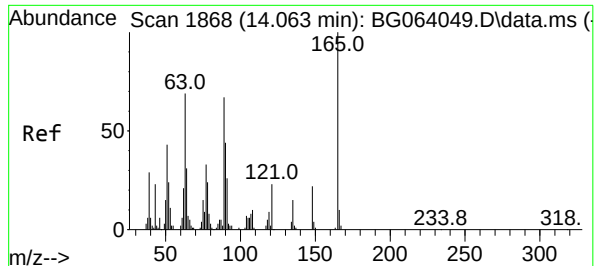
Delta R.T. -0.004 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

Tgt Ion:163 Resp: 274751  
Ion Ratio Lower Upper  
163 100  
194 3.2 2.8 4.2  
164 9.9 8.2 12.2





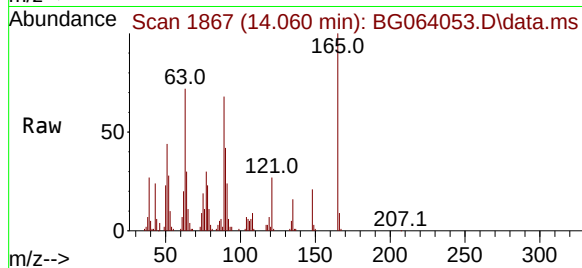
#51  
2,6-Dinitrotoluene  
Concen: 40.625 ng  
RT: 14.060 min Scan# 1868  
Delta R.T. -0.003 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

Instrument :

BNA\_G

ClientSampleId :

ICVBG030525

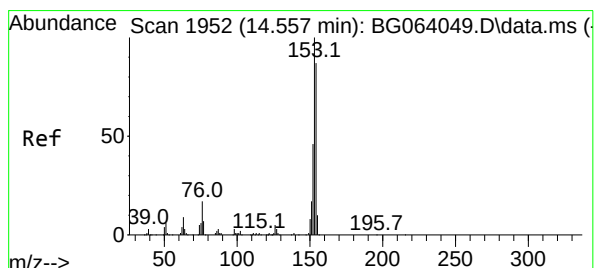
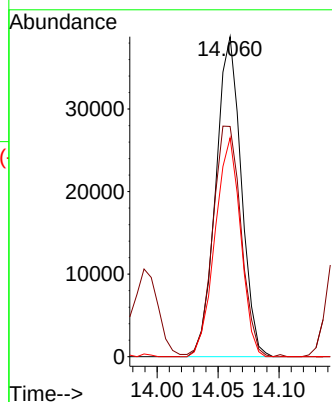
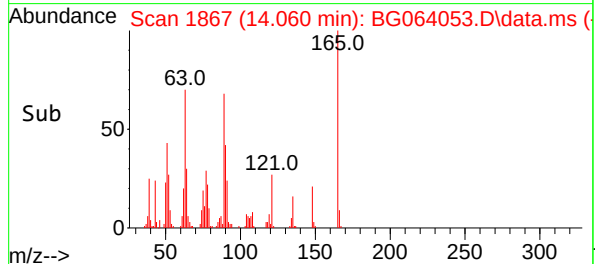


Tgt Ion:165 Resp: 5624  
Ion Ratio Lower Upper  
165 100  
63 72.0 56.7 85.1  
89 68.4 53.7 80.5

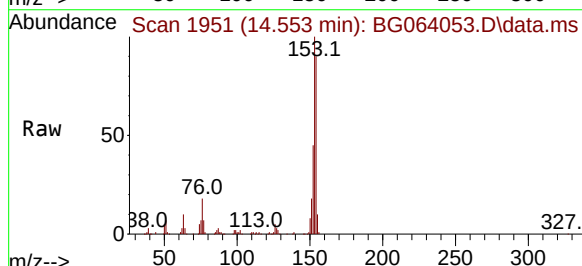
Manual Integrations

APPROVED

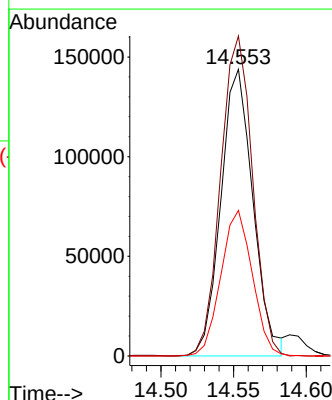
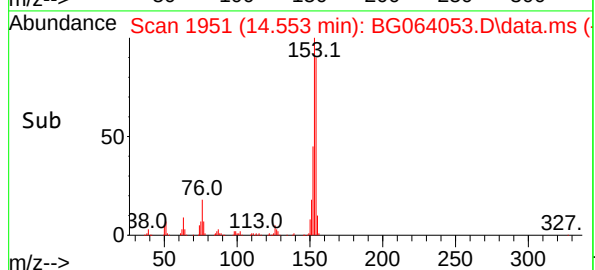
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

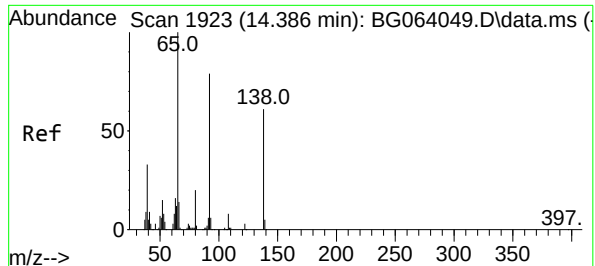


#52  
Acenaphthene  
Concen: 40.428 ng m  
RT: 14.553 min Scan# 1951  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10



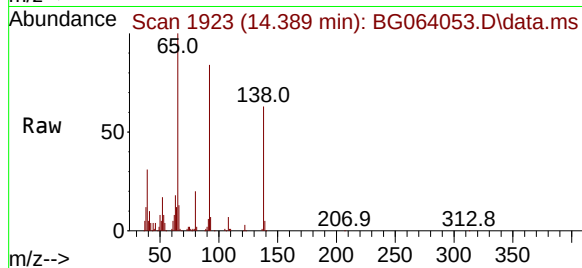
Tgt Ion:154 Resp: 221628  
Ion Ratio Lower Upper  
154 100  
153 111.6 91.6 137.4  
152 50.8 42.5 63.7





#53  
3-Nitroaniline  
Concen: 45.042 ng  
RT: 14.389 min Scan# 1923  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

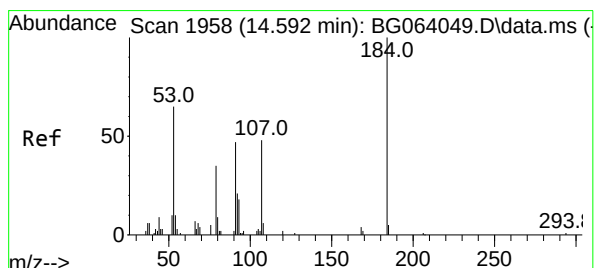
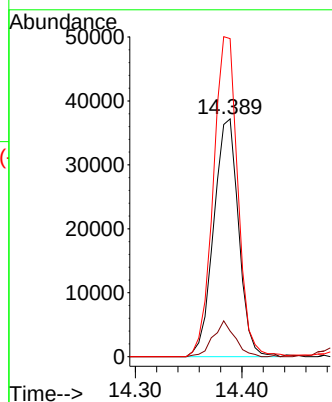
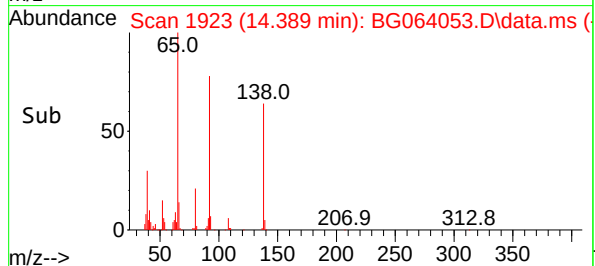
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



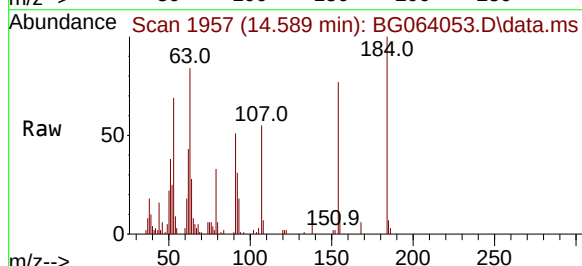
Tgt Ion:138 Resp: 60229  
Ion Ratio Lower Upper  
138 100  
108 10.8 10.1 15.1  
92 133.7 104.1 156.1

Manual Integrations  
APPROVED

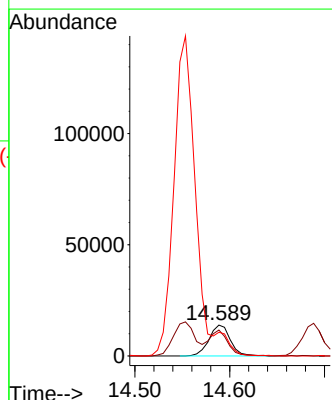
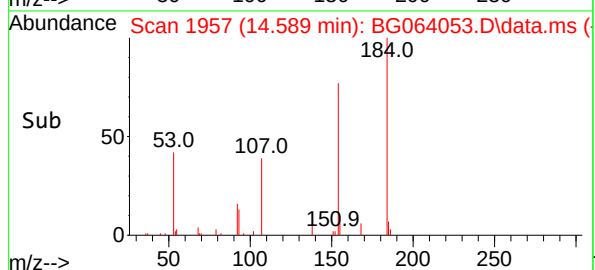
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



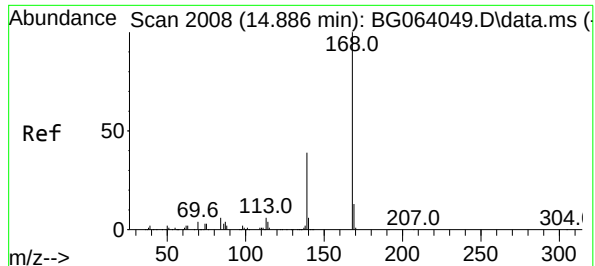
#54  
2,4-Dinitrophenol  
Concen: 41.197 ng  
RT: 14.589 min Scan# 1957  
Delta R.T. -0.003 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10



Tgt Ion:184 Resp: 21627  
Ion Ratio Lower Upper  
184 100  
63 84.0 57.5 86.3  
154 76.8 52.3 78.5

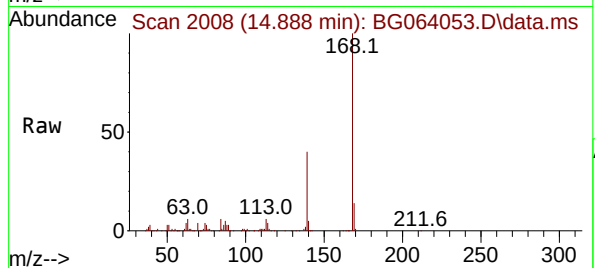






#55  
Dibenzofuran  
Concen: 40.014 ng  
RT: 14.888 min Scan# 2008  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

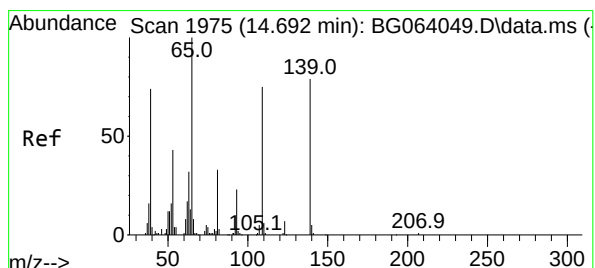
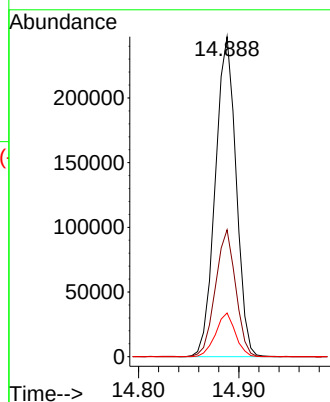
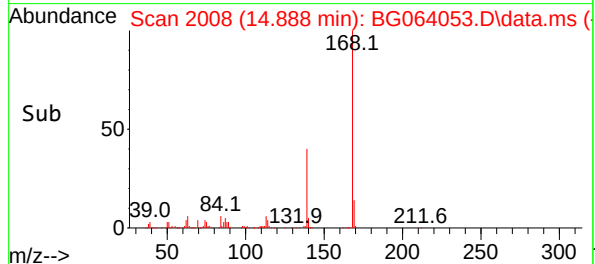
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:168 Resp: 355364  
Ion Ratio Lower Upper  
168 100  
139 39.6 31.1 46.7  
169 13.7 10.5 15.7

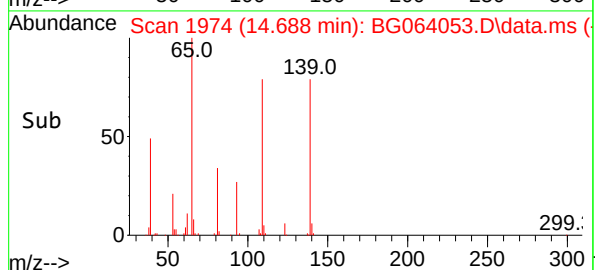
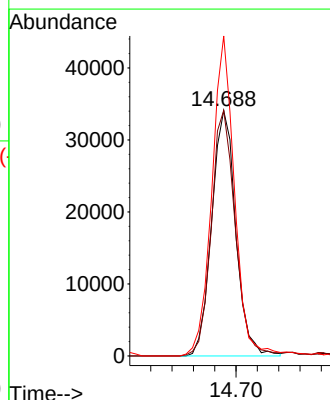
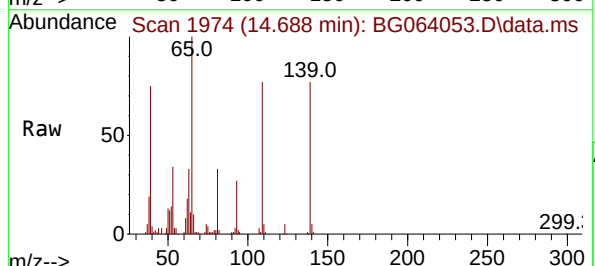
Manual Integrations  
APPROVED

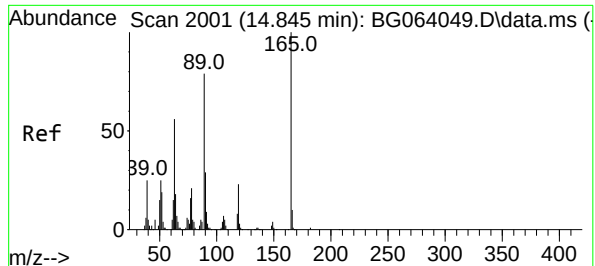
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#56  
4-Nitrophenol  
Concen: 47.537 ng  
RT: 14.688 min Scan# 1974  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

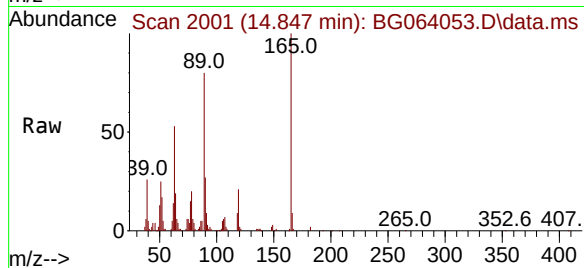
Tgt Ion:139 Resp: 53310  
Ion Ratio Lower Upper  
139 100  
109 100.1 74.9 114.9  
65 130.4 106.8 146.8





#57  
2,4-Dinitrotoluene  
Concen: 41.944 ng  
RT: 14.847 min Scan# 2001  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

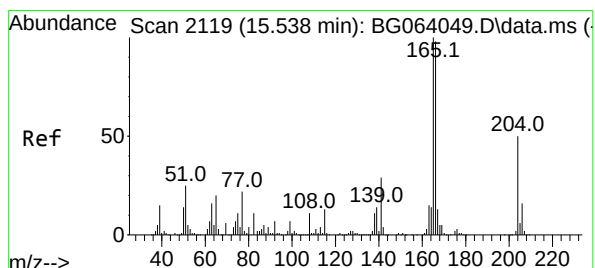
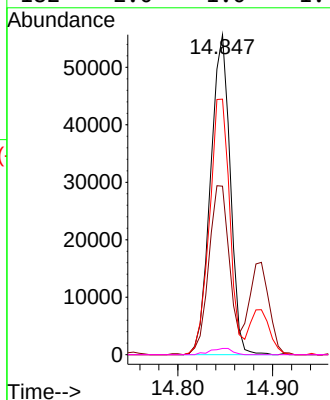
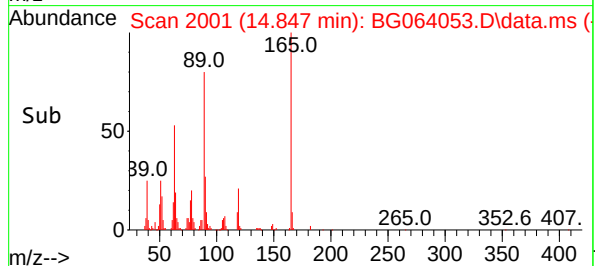
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:165 Resp: 80269  
Ion Ratio Lower Upper  
165 100  
63 52.7 45.0 67.6  
89 79.8 63.1 94.7  
182 2.0 1.0 1.4#

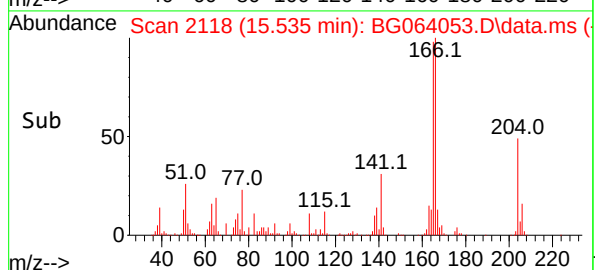
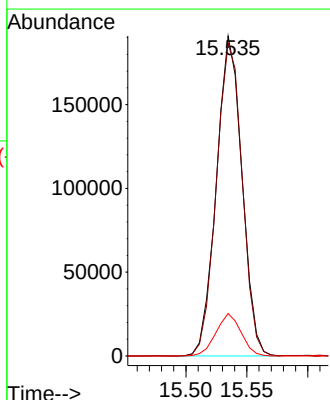
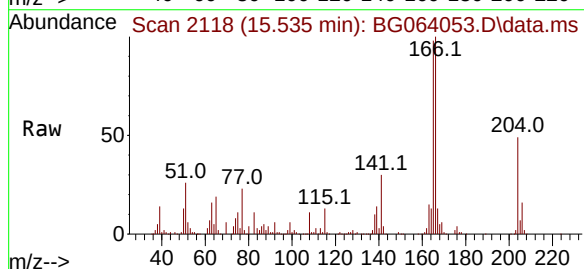
Manual Integrations  
APPROVED

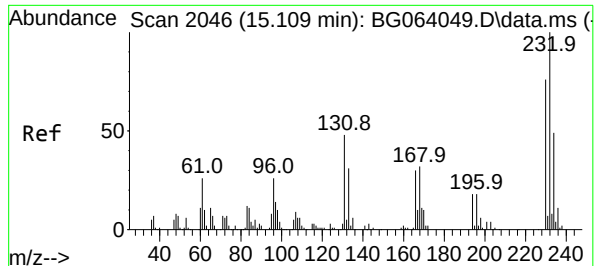
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#58  
Fluorene  
Concen: 40.403 ng  
RT: 15.535 min Scan# 2118  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

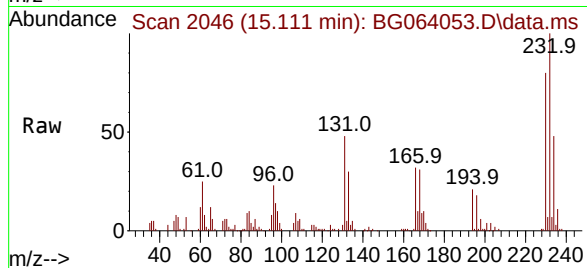
Tgt Ion:166 Resp: 279465  
Ion Ratio Lower Upper  
166 100  
165 97.8 81.8 122.8  
167 13.3 10.8 16.2





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 43.068 ng  
RT: 15.111 min Scan# 2046  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

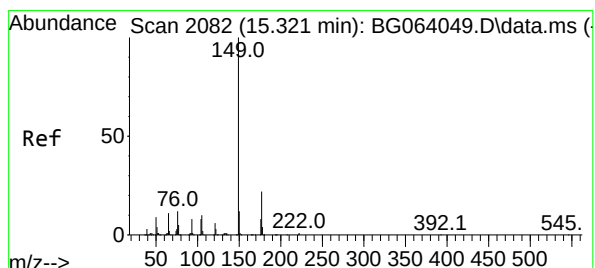
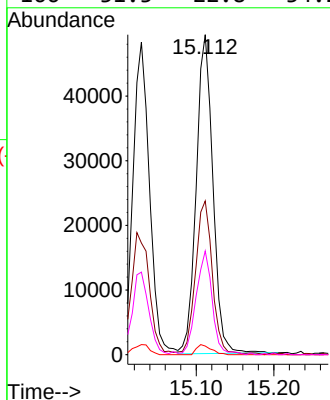
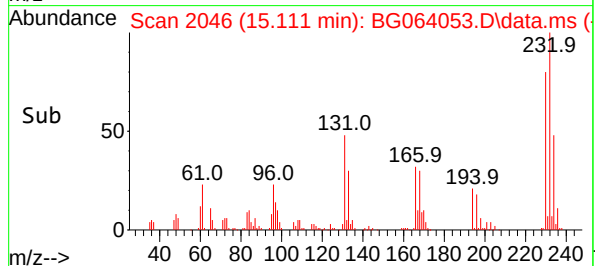
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:232 Resp: 73574  
Ion Ratio Lower Upper  
232 100  
131 47.7 36.3 54.5  
130 2.8 1.9 2.9  
166 31.3 22.8 34.2

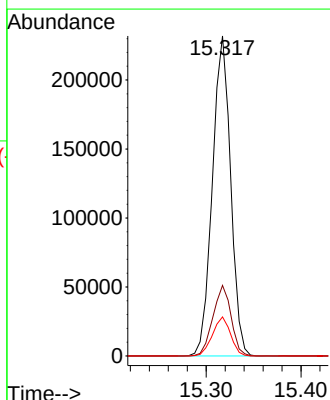
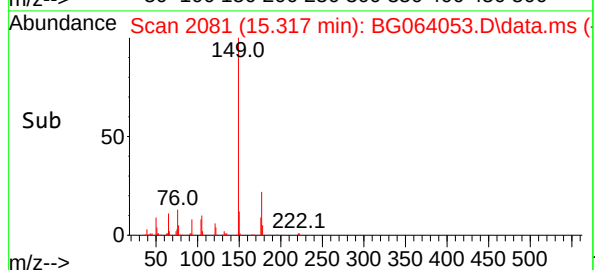
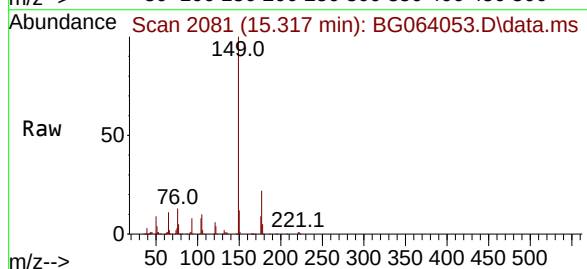
Manual Integrations  
APPROVED

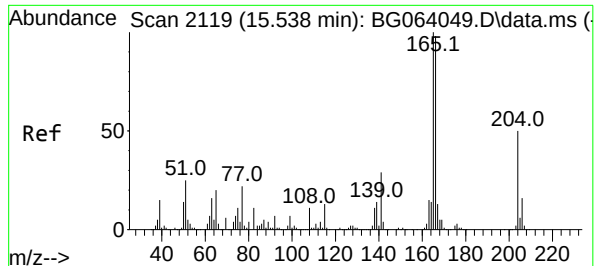
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#60  
Diethylphthalate  
Concen: 41.198 ng  
RT: 15.317 min Scan# 2081  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

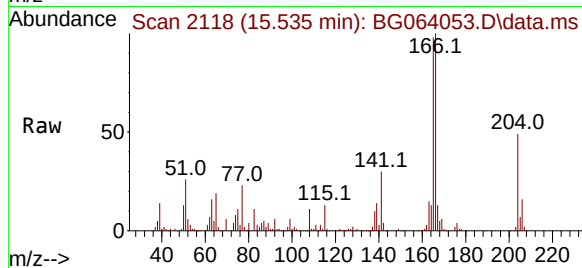
Tgt Ion:149 Resp: 309434  
Ion Ratio Lower Upper  
149 100  
177 22.0 17.4 26.2  
150 12.2 9.4 14.2





#61  
4-Chlorophenyl-phenylether  
Concen: 39.367 ng  
RT: 15.535 min Scan# 2118  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

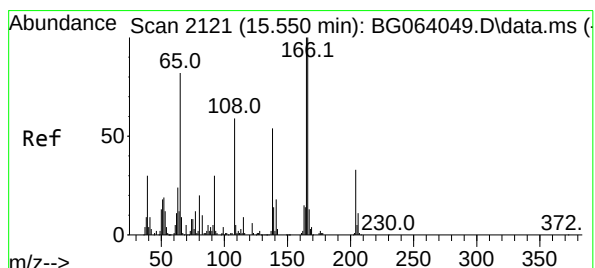
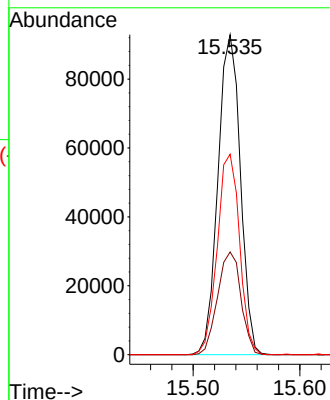
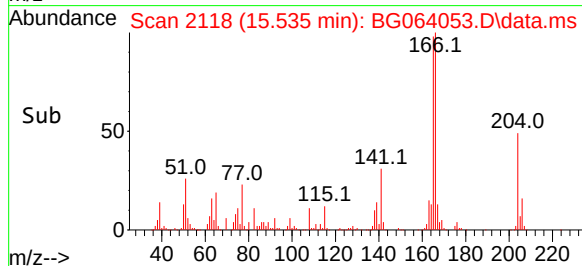
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



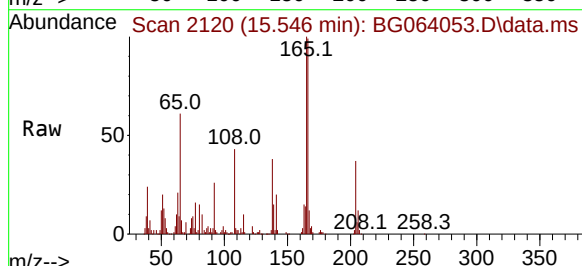
Tgt Ion:204 Resp: 135318  
Ion Ratio Lower Upper  
204 100  
206 32.1 25.5 38.3  
141 62.7 45.4 68.0

Manual Integrations  
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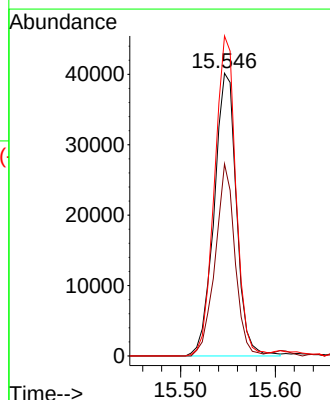
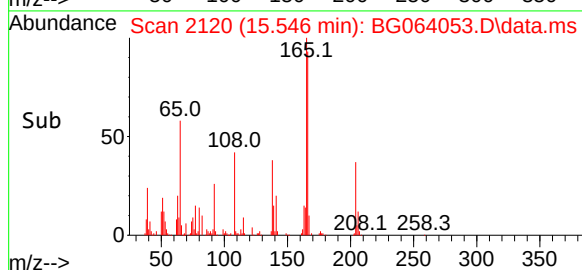
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

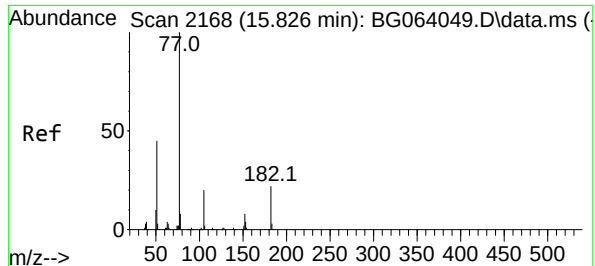


#62  
4-Nitroaniline  
Concen: 45.576 ng  
RT: 15.546 min Scan# 2120  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10



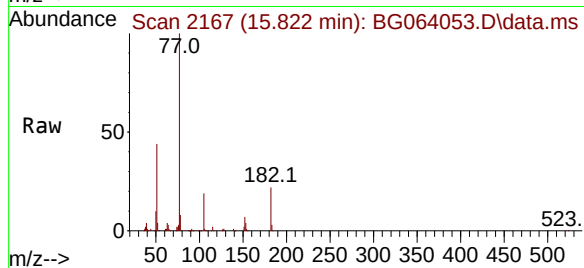
Tgt Ion:138 Resp: 65797  
Ion Ratio Lower Upper  
138 100  
92 67.9 36.1 76.1  
108 113.2 87.9 127.9





#63  
Azobenzene  
Concen: 40.137 ng  
RT: 15.822 min Scan# 2168  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

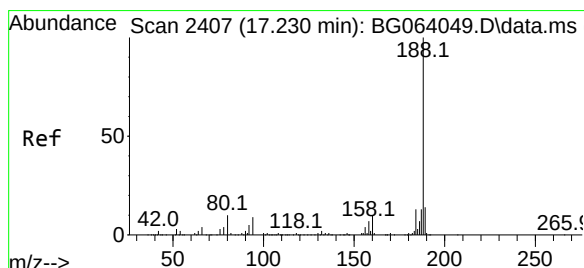
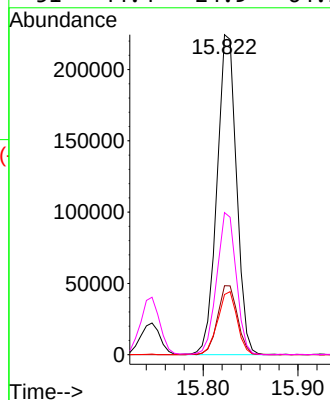
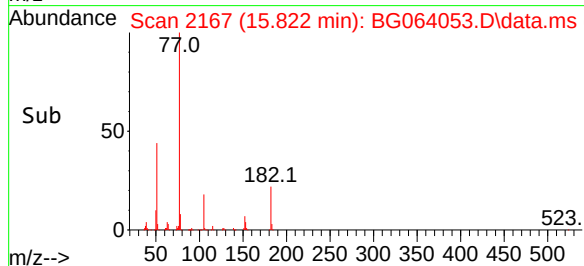
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



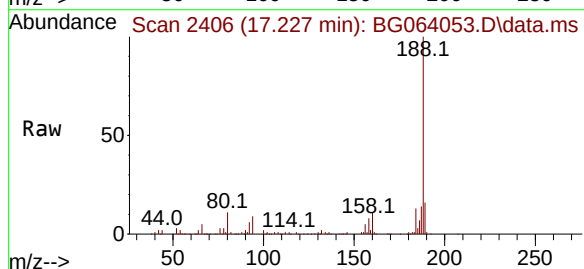
Tgt Ion: 77 Resp: 32168  
Ion Ratio Lower Upper  
77 100  
182 21.5 2.4 42.4  
105 18.8 0.0 40.0  
51 44.4 24.9 64.9

Manual Integrations  
APPROVED

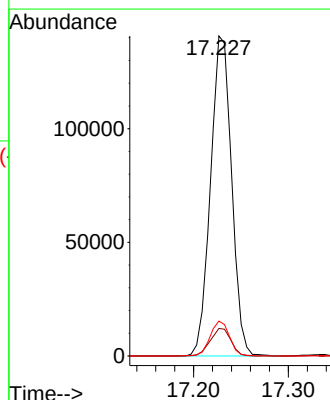
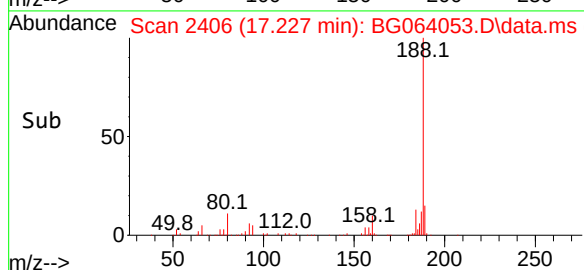
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

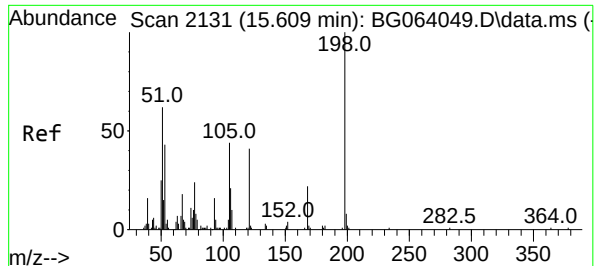


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.227 min Scan# 2406  
Delta R.T. -0.003 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10



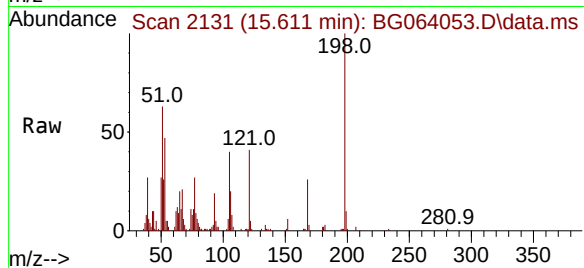
Tgt Ion:188 Resp: 217148  
Ion Ratio Lower Upper  
188 100  
94 8.6 6.9 10.3  
80 10.9 8.1 12.1





#65  
4,6-Dinitro-2-methylphenol  
Concen: 39.817 ng  
RT: 15.611 min Scan# 2131  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

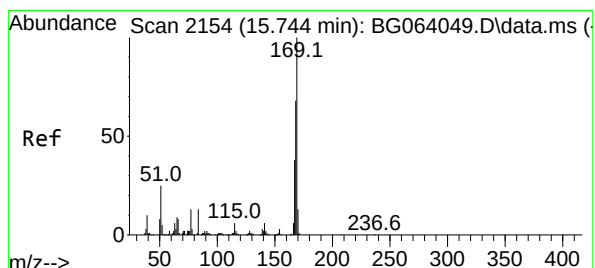
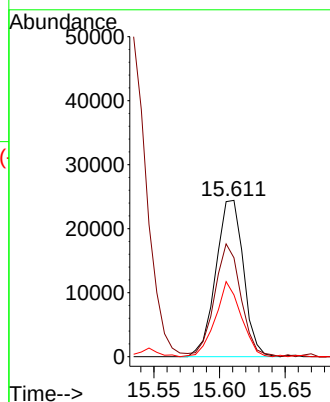
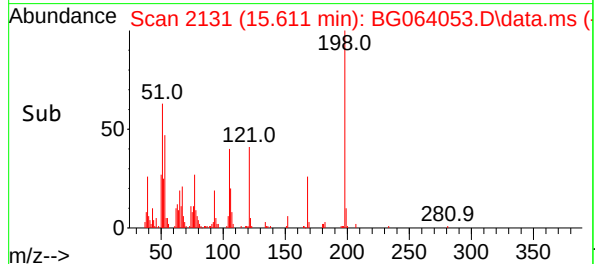
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:198 Resp: 3577  
Ion Ratio Lower Upper  
198 100  
51 63.3 45.6 85.6  
105 39.5 25.3 65.3

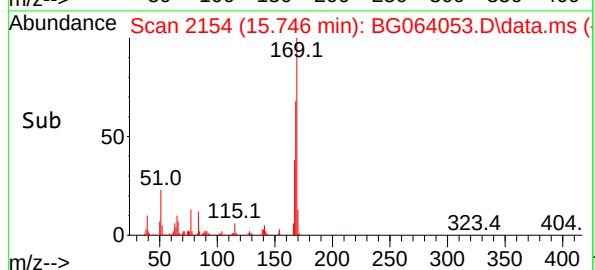
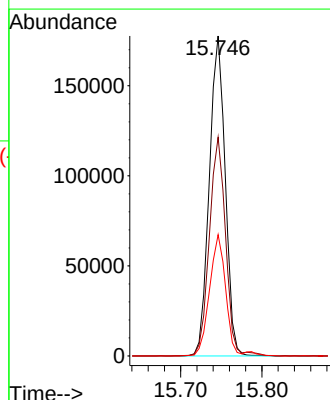
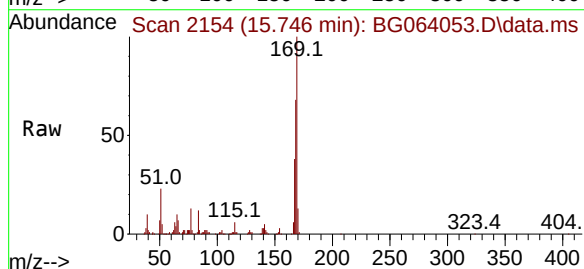
Manual Integrations  
APPROVED

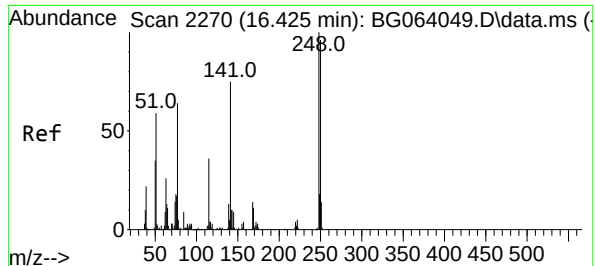
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#66  
n-Nitrosodiphenylamine  
Concen: 39.248 ng  
RT: 15.746 min Scan# 2154  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

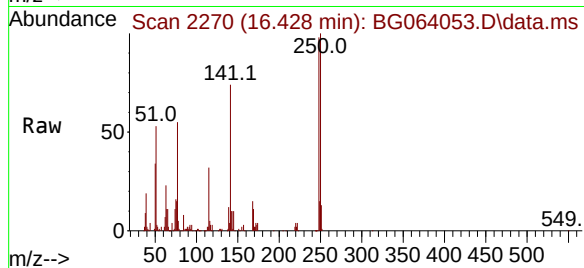
Tgt Ion:169 Resp: 241241  
Ion Ratio Lower Upper  
169 100  
168 68.4 54.1 81.1  
167 37.9 30.3 45.5





#67  
4-Bromophenyl-phenylether  
Concen: 39.772 ng  
RT: 16.428 min Scan# 2270  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

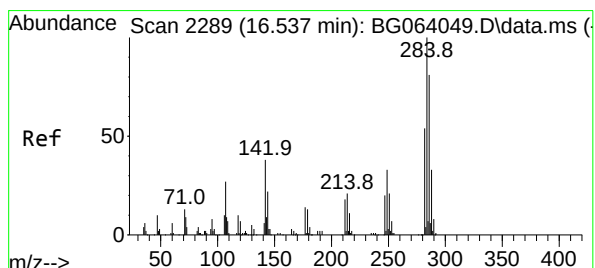
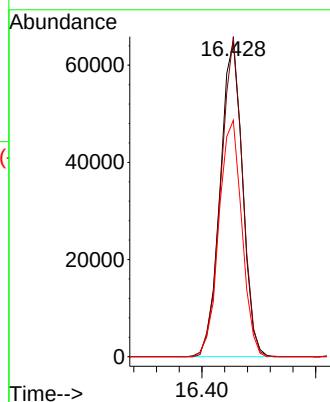
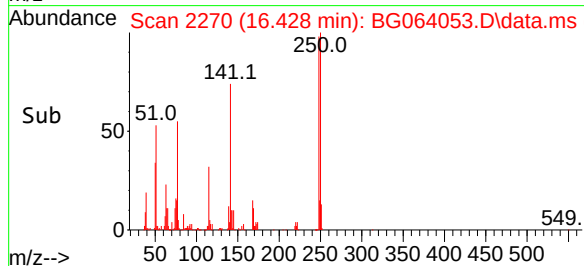
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:248 Resp: 88452  
Ion Ratio Lower Upper  
248 100  
250 101.6 77.1 115.7  
141 75.0 59.8 89.8

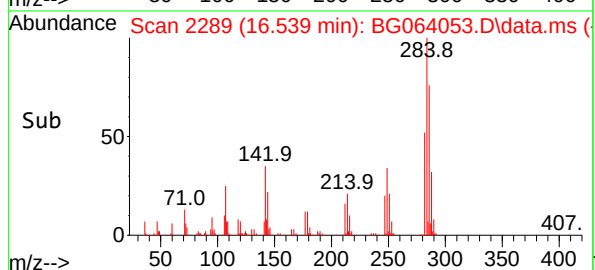
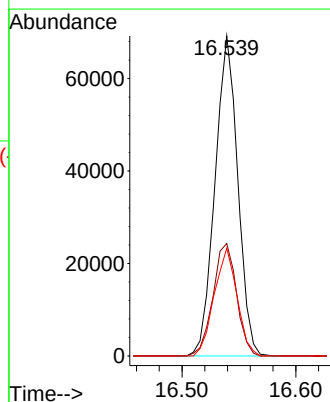
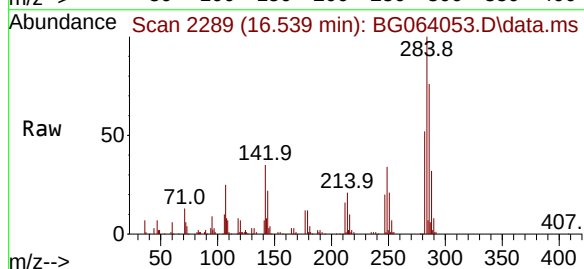
Manual Integrations  
APPROVED

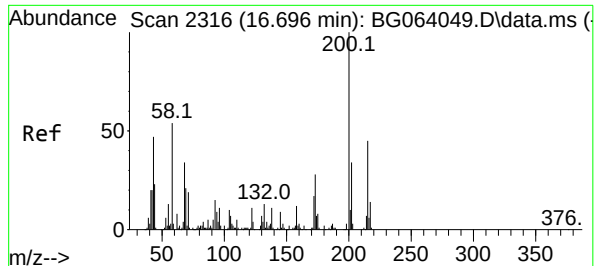
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#68  
Hexachlorobenzene  
Concen: 38.611 ng  
RT: 16.539 min Scan# 2289  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

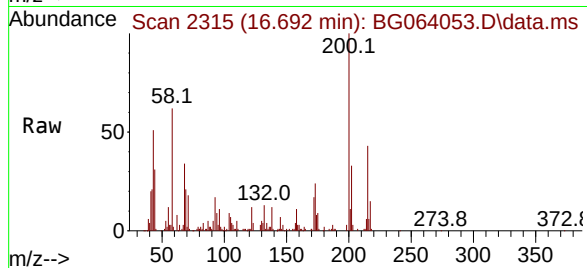
Tgt Ion:284 Resp: 96136  
Ion Ratio Lower Upper  
284 100  
142 35.2 30.6 45.8  
249 33.7 26.6 39.8





#69  
Atrazine  
Concen: 38.607 ng  
RT: 16.692 min Scan# 21  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

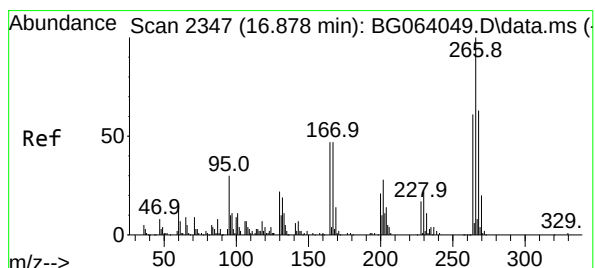
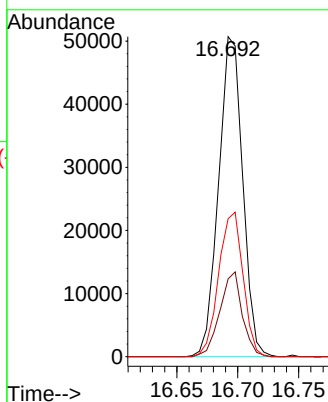
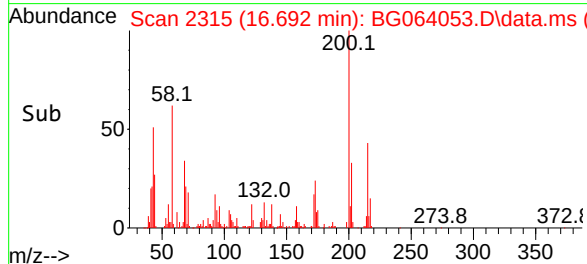
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:200 Resp: 6982  
Ion Ratio Lower Upper  
200 100  
173 24.3 8.2 48.2  
215 43.1 25.5 65.5

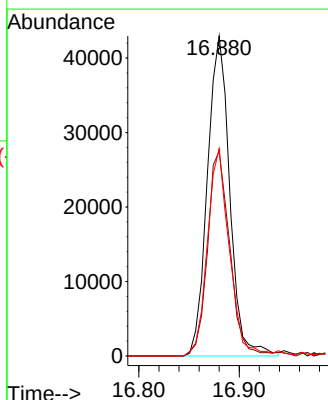
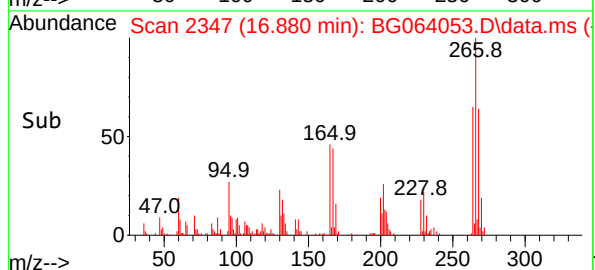
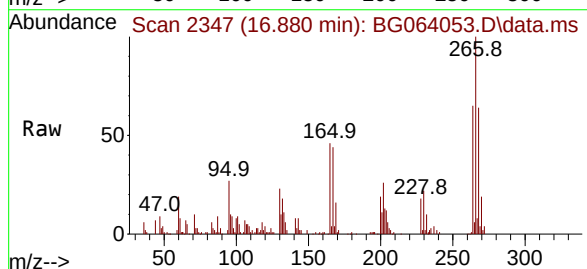
Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

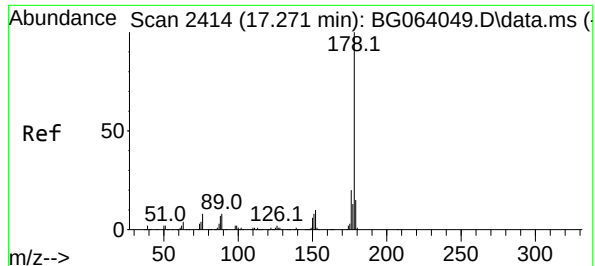


#70  
Pentachlorophenol  
Concen: 43.019 ng  
RT: 16.880 min Scan# 2347  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

Tgt Ion:266 Resp: 66504  
Ion Ratio Lower Upper  
266 100  
268 64.0 50.2 75.4  
264 64.8 48.9 73.3

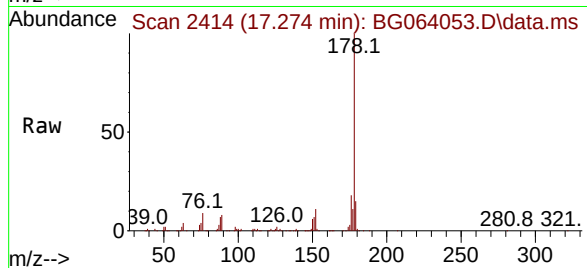






#71  
Phenanthrene  
Concen: 39.978 ng  
RT: 17.274 min Scan# 2414  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

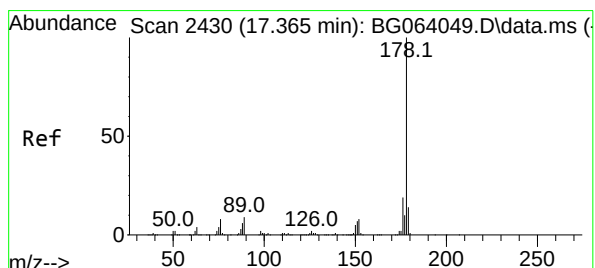
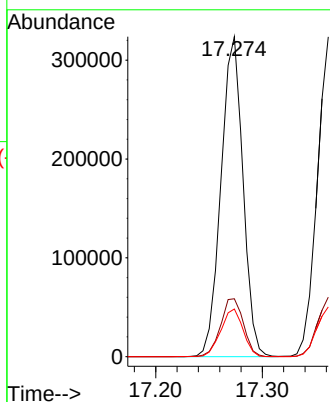
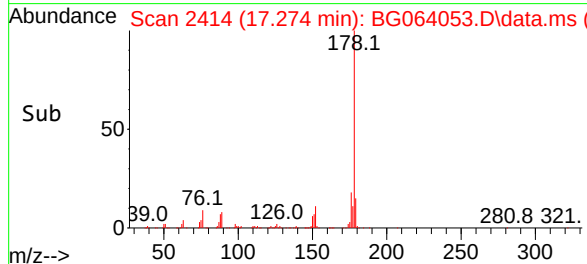
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:178 Resp: 463029  
Ion Ratio Lower Upper  
178 100  
176 18.1 15.9 23.9  
179 14.9 12.2 18.2

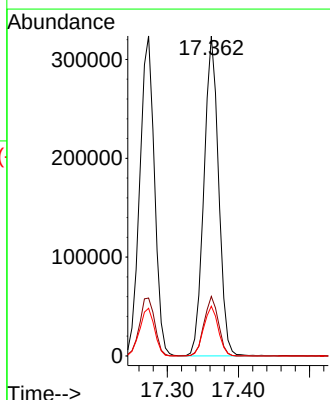
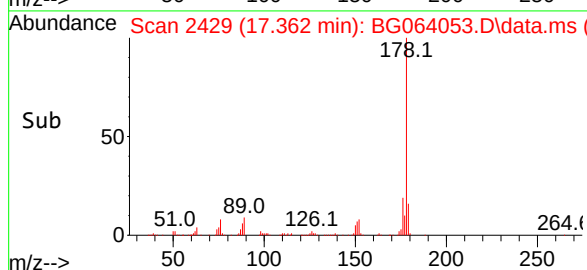
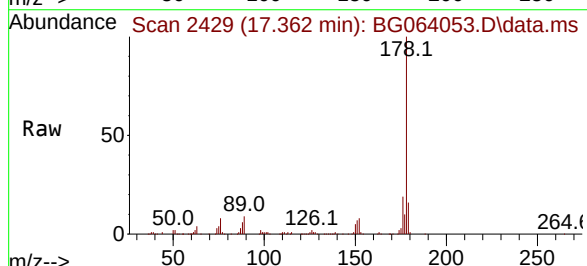
Manual Integrations  
APPROVED

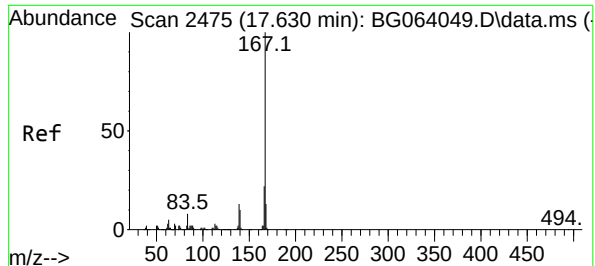
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#72  
Anthracene  
Concen: 40.280 ng  
RT: 17.362 min Scan# 2429  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

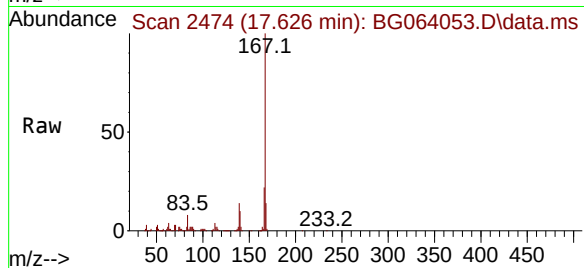
Tgt Ion:178 Resp: 463897  
Ion Ratio Lower Upper  
178 100  
176 18.6 14.8 22.2  
179 15.6 11.5 17.3





#73  
Carbazole  
Concen: 41.831 ng  
RT: 17.626 min Scan# 2475  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

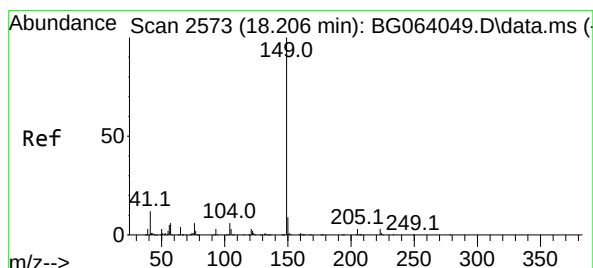
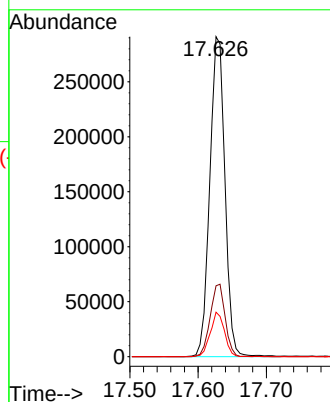
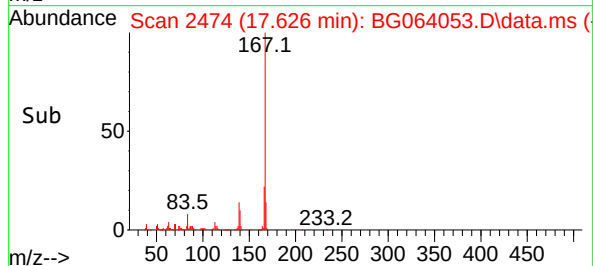
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:167 Resp: 449809  
Ion Ratio Lower Upper  
167 100  
166 22.2 18.0 27.0  
139 13.9 10.6 15.8

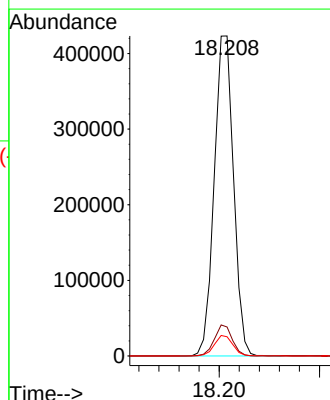
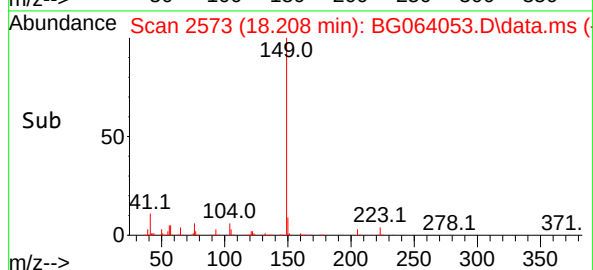
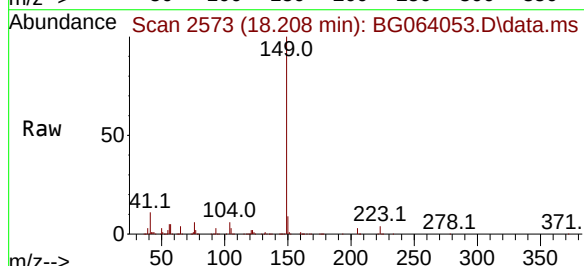
Manual Integrations  
APPROVED

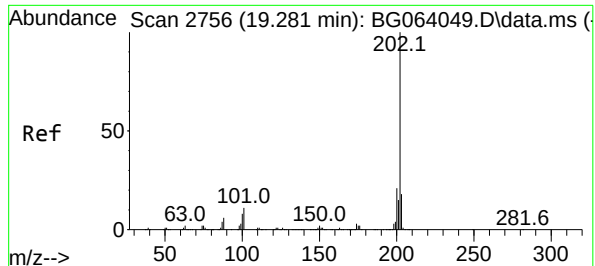
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#74  
Di-n-butylphthalate  
Concen: 44.702 ng  
RT: 18.208 min Scan# 2573  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

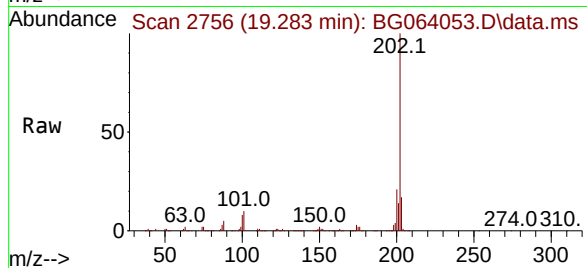
Tgt Ion:149 Resp: 565797  
Ion Ratio Lower Upper  
149 100  
150 9.0 7.4 11.0  
104 6.0 5.0 7.6





#75  
Fluoranthene  
Concen: 42.146 ng  
RT: 19.283 min Scan# 2756  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

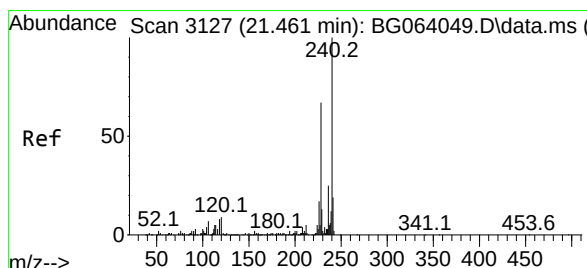
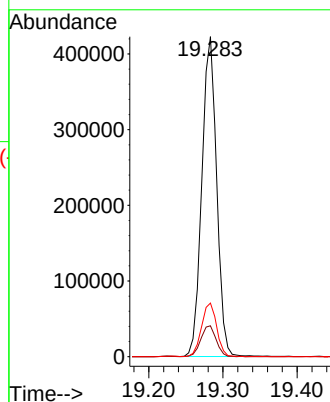
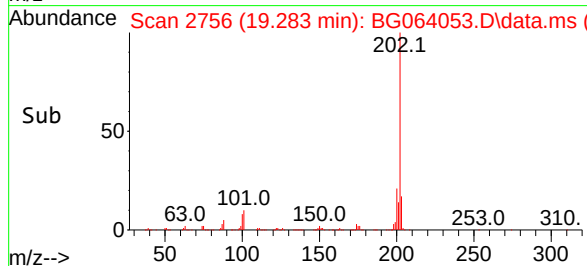
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



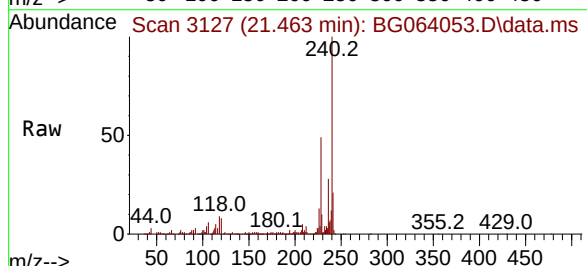
Tgt Ion:202 Resp: 58849  
Ion Ratio Lower Upper  
202 100  
101 9.6 0.0 30.5  
203 16.8 0.0 38.3

Manual Integrations  
APPROVED

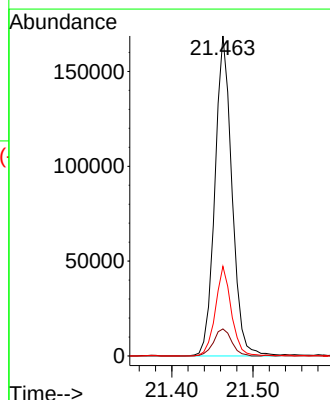
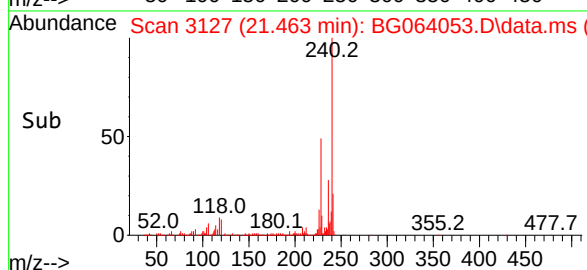
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

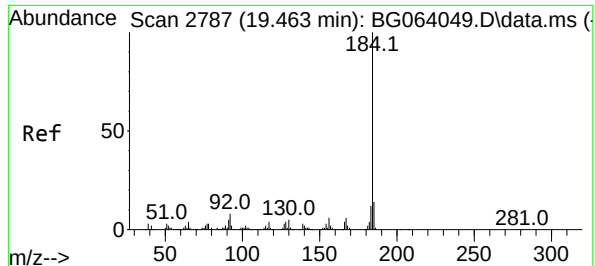


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.463 min Scan# 3127  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10



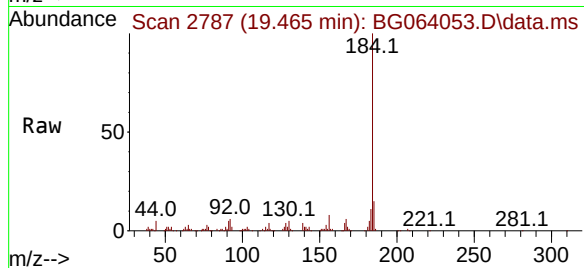
Tgt Ion:240 Resp: 246166  
Ion Ratio Lower Upper  
240 100  
120 8.5 7.2 10.8  
236 28.0 20.2 30.2





#77  
Benzidine  
Concen: 37.383 ng  
RT: 19.465 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

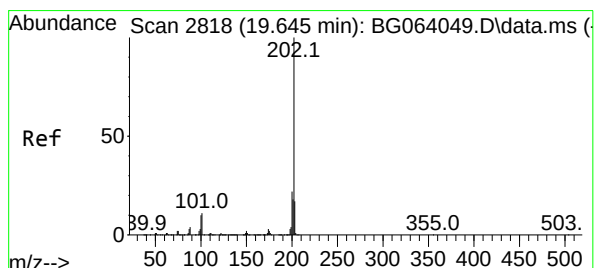
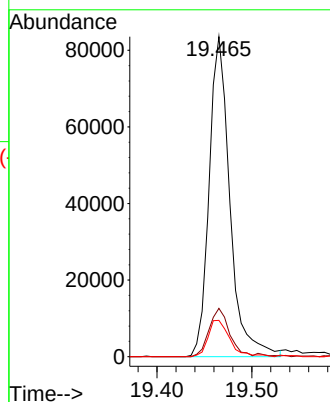
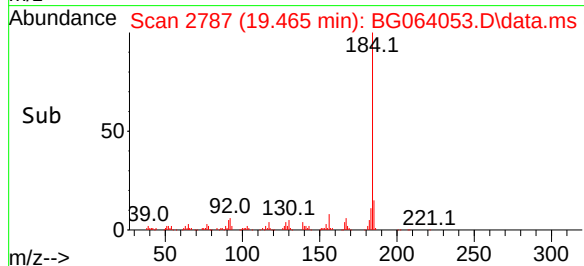
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:184 Resp: 127428  
Ion Ratio Lower Upper  
184 100  
185 15.1 11.3 16.9  
183 11.3 9.5 14.3

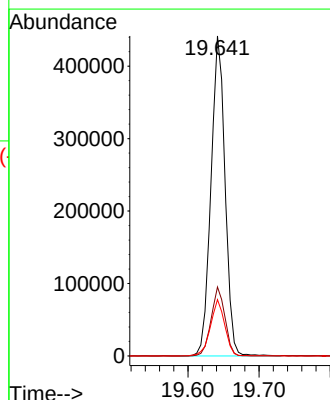
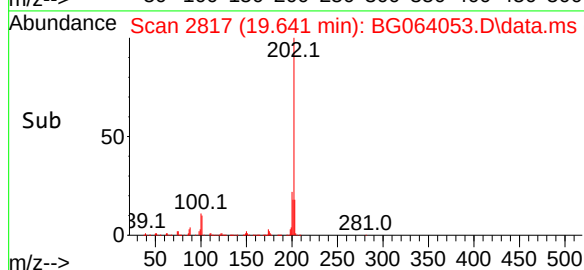
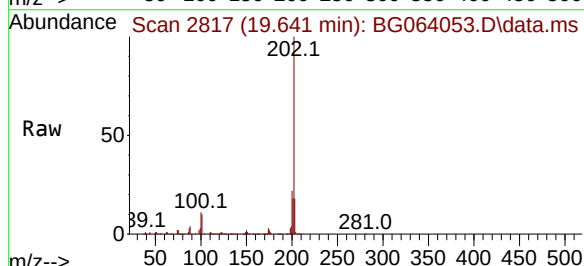
Manual Integrations  
APPROVED

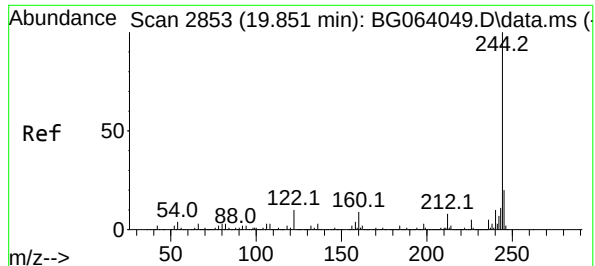
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#78  
Pyrene  
Concen: 38.357 ng  
RT: 19.641 min Scan# 2817  
Delta R.T. -0.004 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

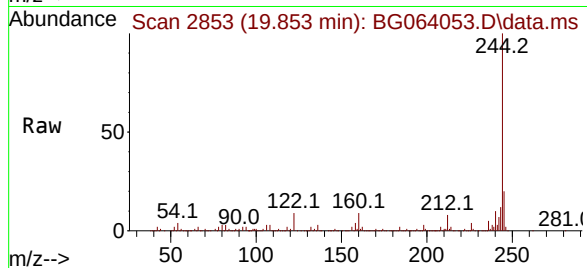
Tgt Ion:202 Resp: 608668  
Ion Ratio Lower Upper  
202 100  
200 21.5 17.3 25.9  
203 17.6 13.6 20.4





#79  
Terphenyl-d14  
Concen: 77.284 ng  
RT: 19.853 min Scan# 2853  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

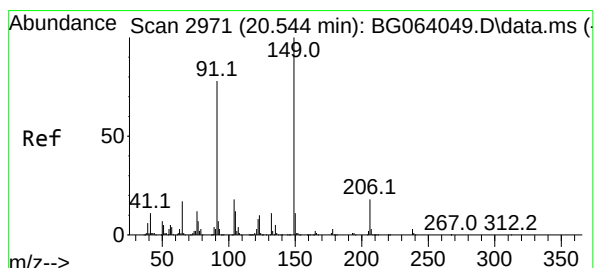
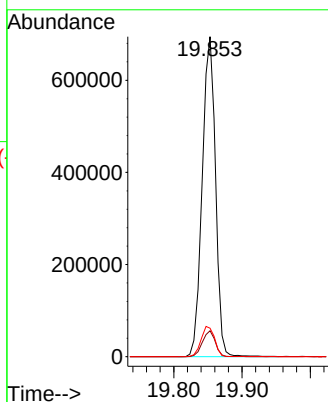
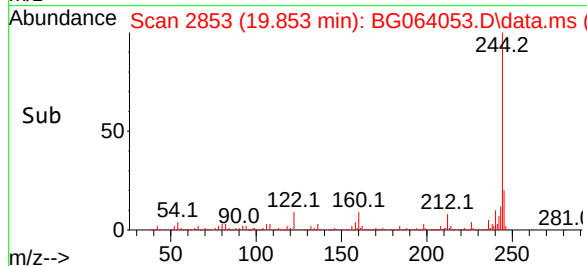
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



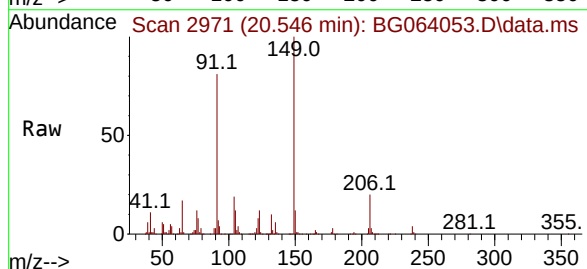
Tgt Ion:244 Resp: 940889  
Ion Ratio Lower Upper  
244 100  
212 8.1 6.2 9.4  
122 8.9 8.0 12.0

Manual Integrations  
APPROVED

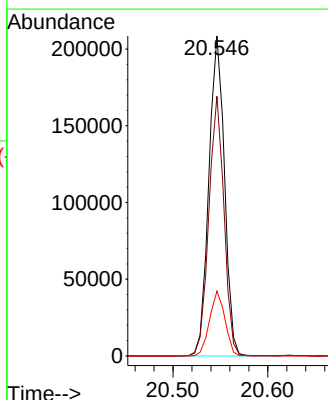
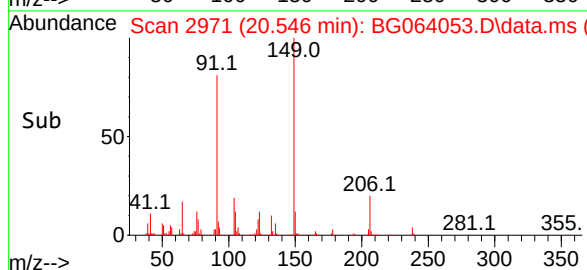
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

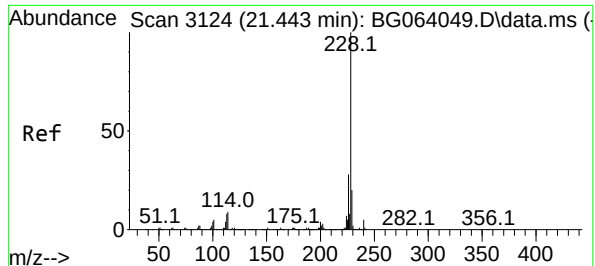


#80  
Butylbenzylphthalate  
Concen: 40.680 ng  
RT: 20.546 min Scan# 2971  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10



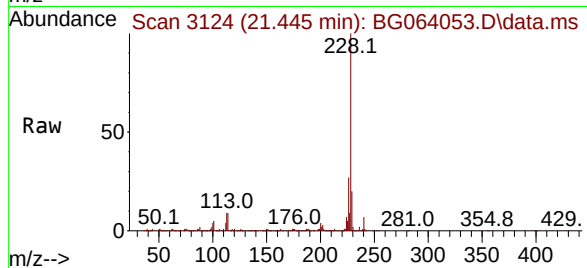
Tgt Ion:149 Resp: 238653  
Ion Ratio Lower Upper  
149 100  
91 81.2 62.0 93.0  
206 20.2 14.6 21.8





#81  
Benzo(a)anthracene  
Concen: 39.598 ng  
RT: 21.445 min Scan# 3124  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

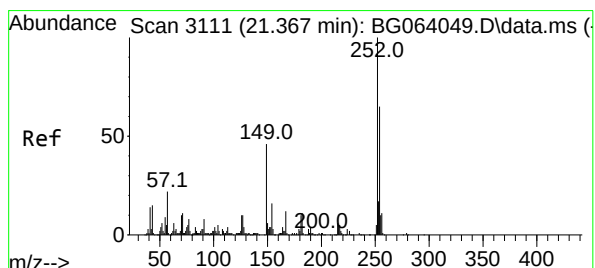
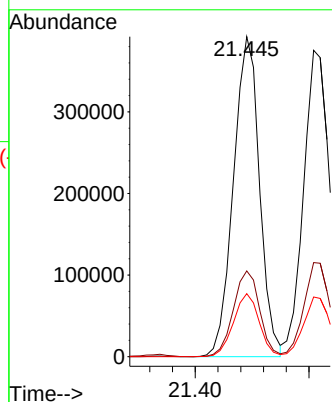
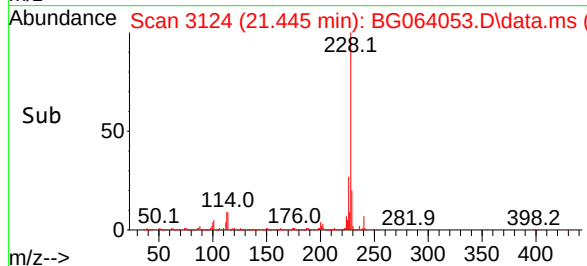
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:228 Resp: 62440  
Ion Ratio Lower Upper  
228 100  
226 26.8 22.2 33.2  
229 19.7 16.4 24.6

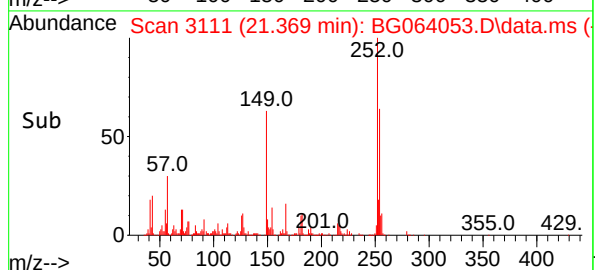
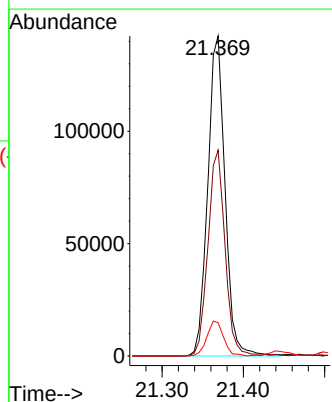
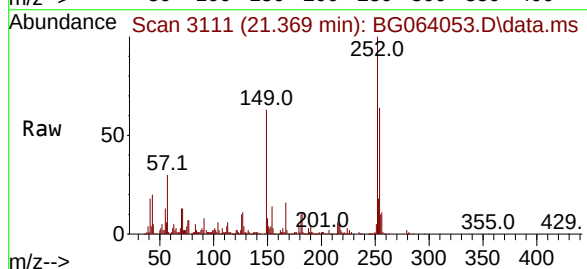
Manual Integrations  
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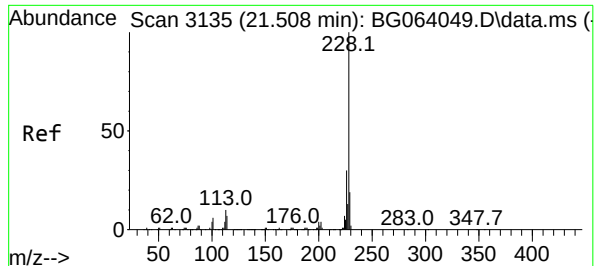
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#82  
3,3'-Dichlorobenzidine  
Concen: 41.103 ng  
RT: 21.369 min Scan# 3111  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

Tgt Ion:252 Resp: 209761  
Ion Ratio Lower Upper  
252 100  
254 64.3 52.1 78.1  
126 10.4 7.8 11.8





#83

Chrysene

Concen: 38.876 ng

RT: 21.504 min Scan# 3135

Delta R.T. -0.004 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

Instrument :

BNA\_G

ClientSampleId :

ICVBG030525

Tgt Ion:228 Resp: 611410

Ion Ratio Lower Upper

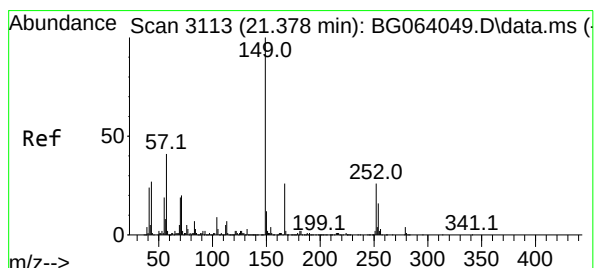
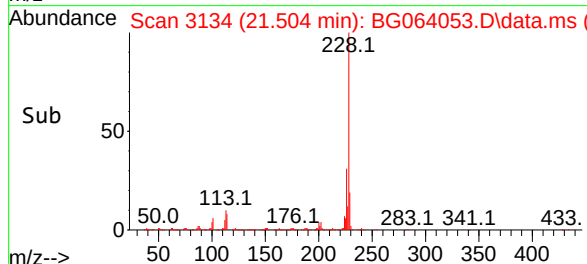
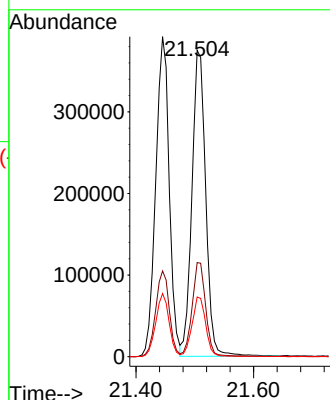
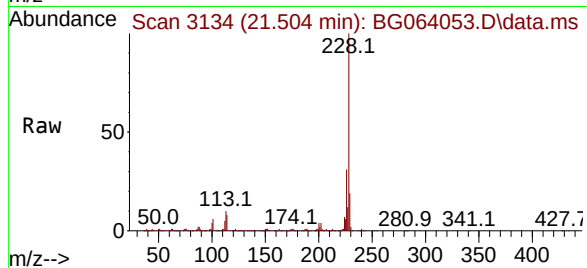
228 100

226 30.7 23.9 35.9

229 19.5 15.3 22.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

#84

Bis(2-ethylhexyl)phthalate

Concen: 44.551 ng

RT: 21.381 min Scan# 3113

Delta R.T. 0.002 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

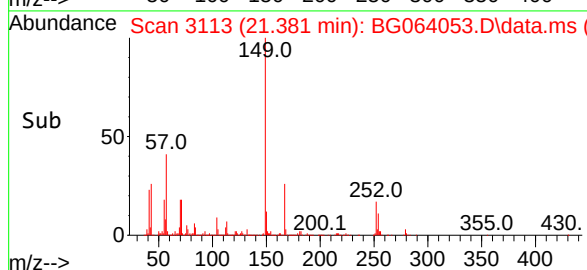
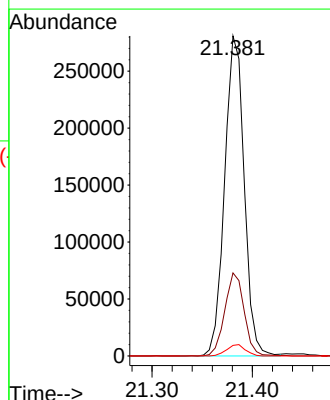
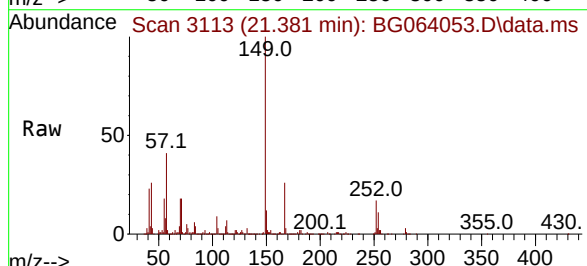
Tgt Ion:149 Resp: 379928

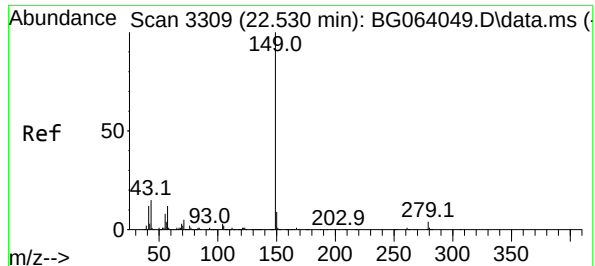
Ion Ratio Lower Upper

149 100

167 26.0 21.0 31.6

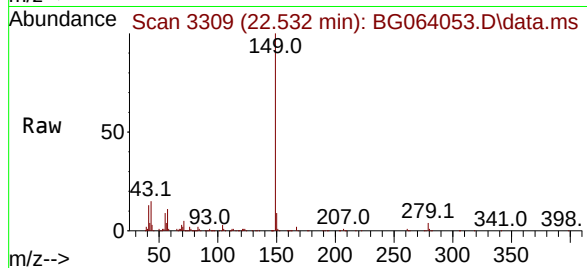
279 3.3 2.8 4.2





#85  
Di-n-octyl phthalate  
Concen: 42.688 ng  
RT: 22.532 min Scan# 3309  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

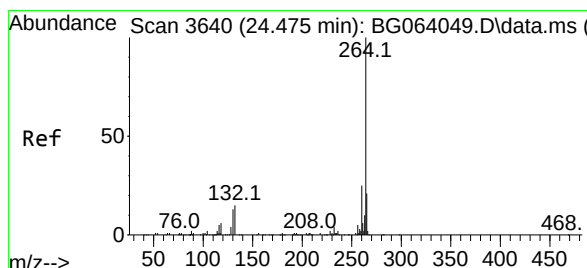
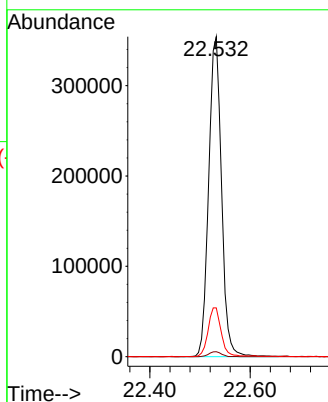
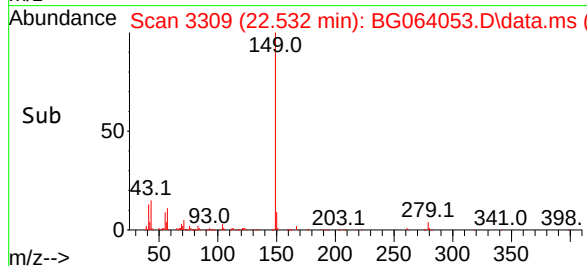
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:149 Resp: 627920  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.2 1.8  
43 15.6 12.6 19.0

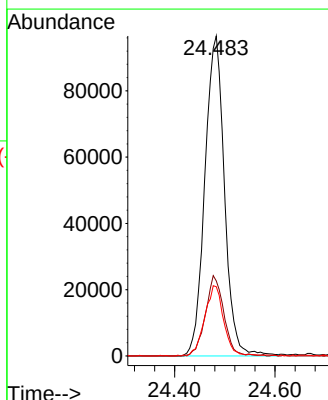
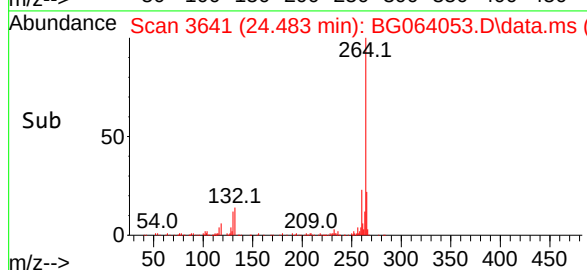
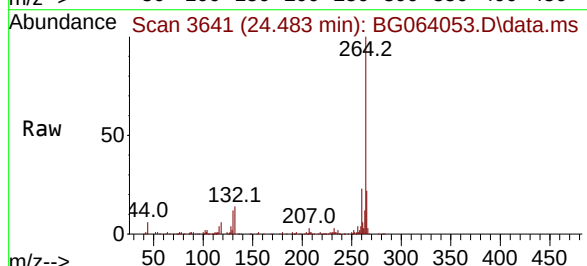
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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025

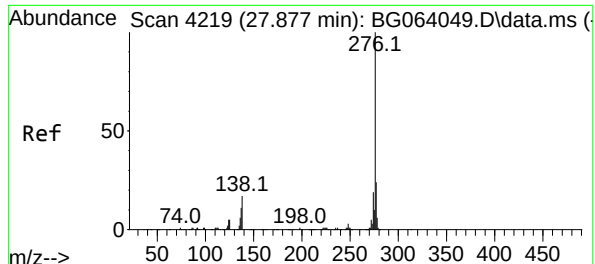


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.483 min Scan# 3641  
Delta R.T. 0.008 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

Tgt Ion:264 Resp: 261789  
Ion Ratio Lower Upper  
264 100  
260 23.5 19.6 29.4  
265 21.7 16.6 25.0







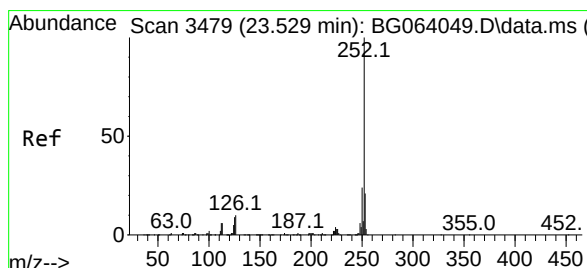
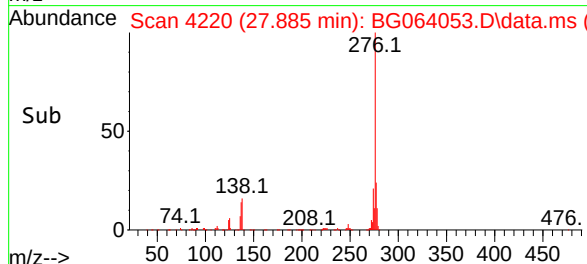
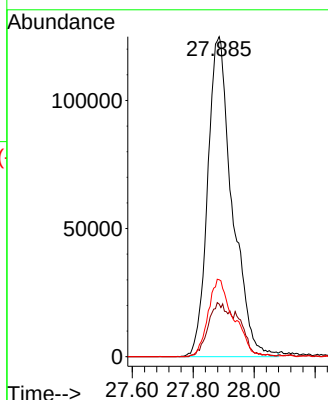
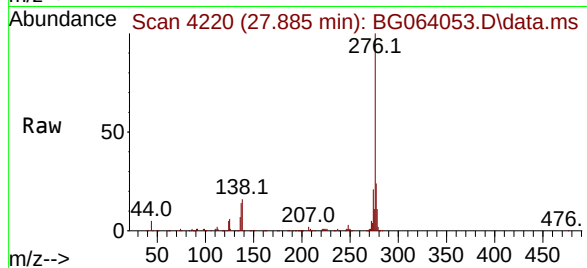
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 39.918 ng  
RT: 27.885 min Scan# 4219  
Delta R.T. 0.008 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525

Tgt Ion:276 Resp: 699194  
Ion Ratio Lower Upper  
276 100  
138 15.1 12.1 18.1  
277 25.0 20.0 30.0

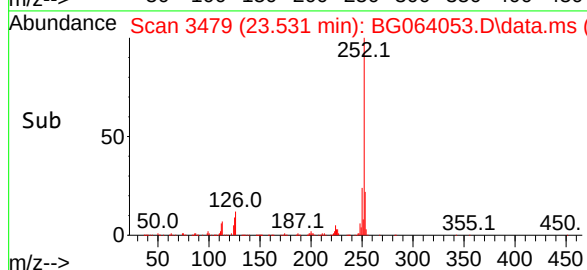
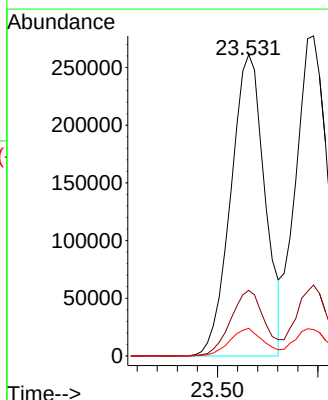
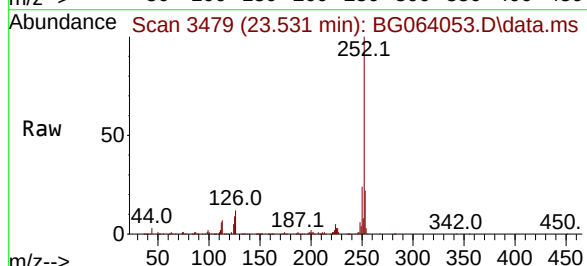
Manual Integrations  
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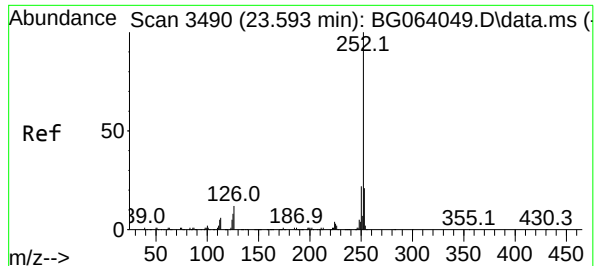
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#88  
Benzo(b)fluoranthene  
Concen: 38.901 ng  
RT: 23.531 min Scan# 3479  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

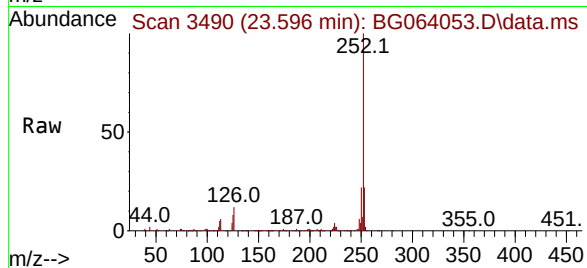
Tgt Ion:252 Resp: 615644  
Ion Ratio Lower Upper  
252 100  
253 21.8 17.0 25.4  
125 9.2 7.4 11.2





#89  
Benzo(k)fluoranthene  
Concen: 39.079 ng  
RT: 23.596 min Scan# 3490  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

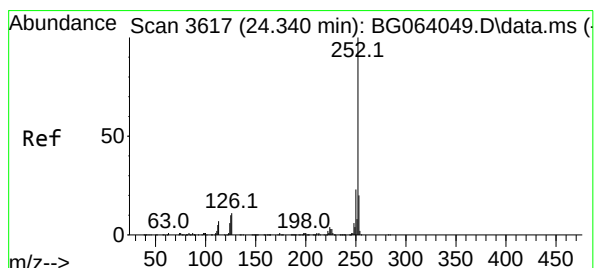
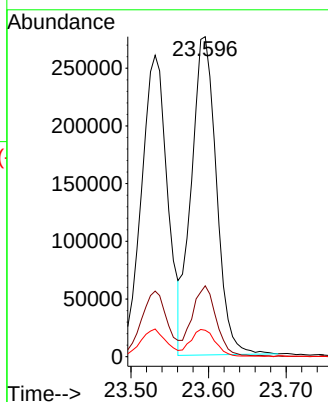
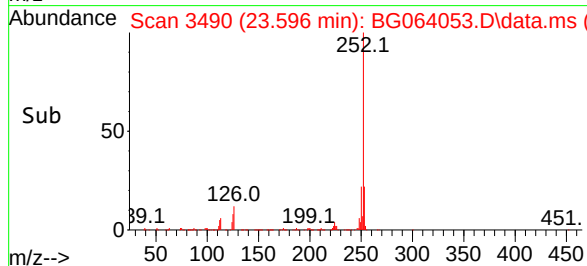
Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525



Tgt Ion:252 Resp: 620440  
Ion Ratio Lower Upper  
252 100  
253 22.1 16.8 25.2  
125 8.2 6.9 10.3

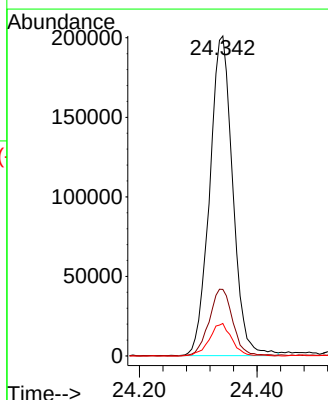
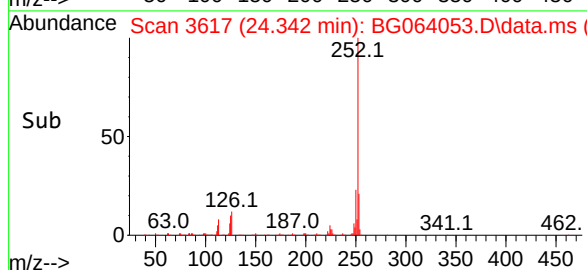
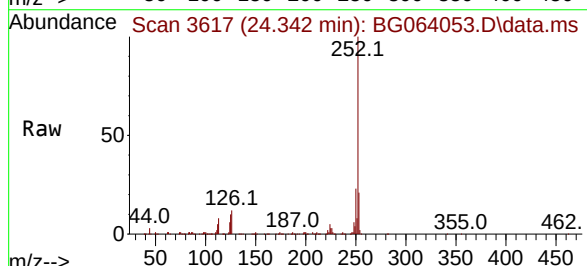
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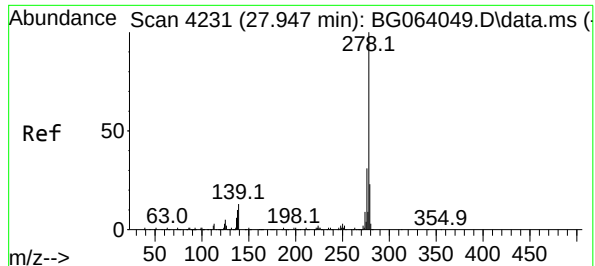
Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#90  
Benzo(a)pyrene  
Concen: 38.765 ng  
RT: 24.342 min Scan# 3617  
Delta R.T. 0.002 min  
Lab File: BG064053.D  
Acq: 5 Mar 2025 15:10

Tgt Ion:252 Resp: 546383  
Ion Ratio Lower Upper  
252 100  
253 20.8 16.2 24.2  
125 10.1 7.8 11.6





#91

Dibenzo(a,h)anthracene

Concen: 40.162 ng

RT: 27.949 min Scan# 4399

Delta R.T. 0.002 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

Instrument :

BNA\_G

ClientSampleId :

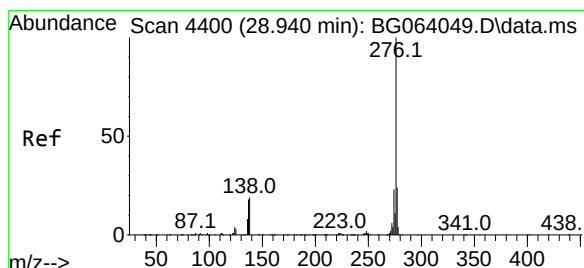
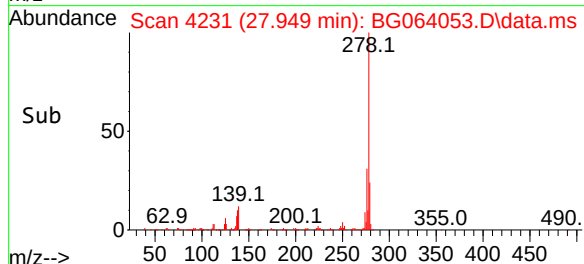
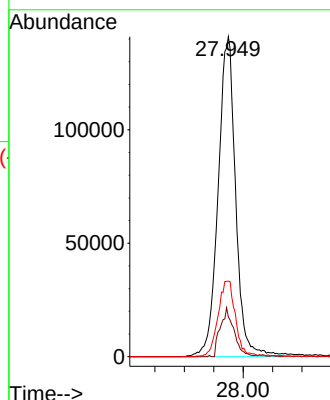
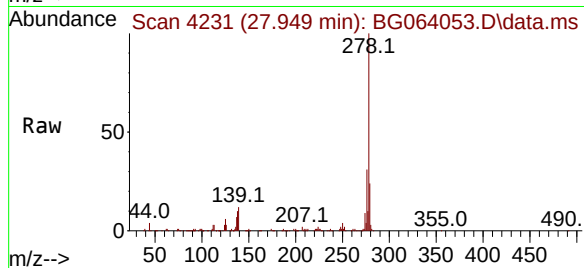
ICVBG030525

| Tgt Ion:  | 278   | Resp: | 583198 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 12.5  | 10.2  | 15.2   |
| 279       | 23.6  | 18.1  | 27.1   |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/06/2025  
Supervised By :mohammad ahmed 03/07/2025



#92

Benzo(g,h,i)perylene

Concen: 39.740 ng

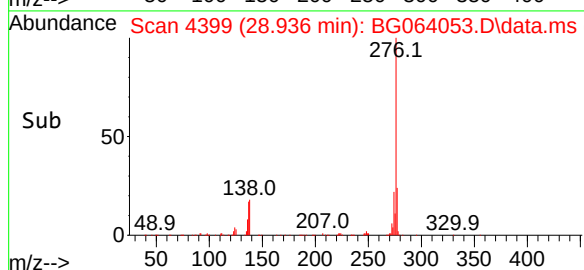
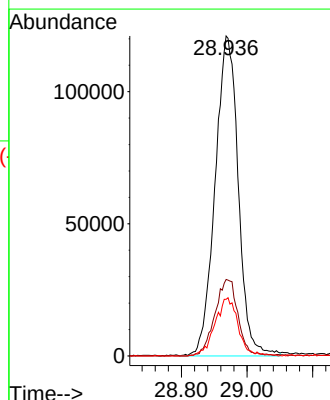
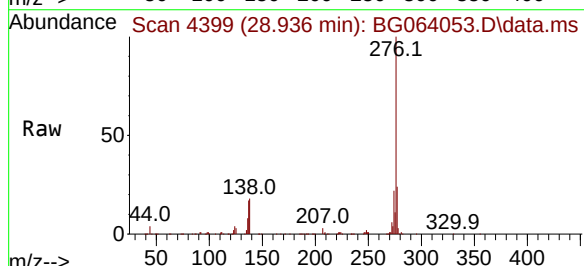
RT: 28.936 min Scan# 4399

Delta R.T. -0.004 min

Lab File: BG064053.D

Acq: 5 Mar 2025 15:10

| Tgt Ion:  | 276   | Resp: | 592494 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 23.9  | 19.5  | 29.3   |
| 138       | 17.7  | 15.4  | 23.0   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064053.D  
 Acq On : 5 Mar 2025 15:10  
 Operator : RC/JU  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 ICVBG030525

Quant Time: Mar 05 15:42:26 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.580 | 0.584 | -0.7  | 97    | 0.00     |
| 3    | Pyridine                    | 1.412 | 1.409 | 0.2   | 87    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 1.009 | 1.008 | 0.1   | 92    | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.281 | 1.262 | 1.5   | 91    | 0.00     |
| 6    | Aniline                     | 1.710 | 1.605 | 6.1   | 86    | 0.00     |
| 7 S  | Phenol-d6                   | 1.742 | 1.644 | 5.6   | 86    | 0.00     |
| 8    | 2-Chlorophenol              | 1.376 | 1.321 | 4.0   | 89    | 0.00     |
| 9    | Benzaldehyde                | 1.013 | 0.965 | 4.7   | 93    | 0.00     |
| 10 C | Phenol                      | 1.784 | 1.731 | 3.0   | 89    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.399 | 1.288 | 7.9   | 88    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.511 | 1.393 | 7.8   | 88    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.548 | 1.420 | 8.3   | 87    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.493 | 1.370 | 8.2   | 88    | 0.00     |
| 15   | Benzyl Alcohol              | 1.346 | 1.280 | 4.9   | 87    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 3.145 | 2.873 | 8.6   | 85    | 0.00     |
| 17   | 2-Methylphenol              | 1.184 | 1.115 | 5.8   | 85    | 0.00     |
| 18   | Hexachloroethane            | 0.542 | 0.534 | 1.5   | 90    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.223 | 1.090 | 10.9  | 80    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.630 | 1.515 | 7.1   | 86    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 22   | Acetophenone                | 0.548 | 0.539 | 1.6   | 83    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.362 | 0.381 | -5.2  | 86    | 0.00     |
| 24   | Nitrobenzene                | 0.374 | 0.395 | -5.6  | 86    | 0.00     |
| 25   | Isophorone                  | 0.724 | 0.685 | 5.4   | 80    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.112 | 0.127 | -13.4 | 91    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.217 | 0.218 | -0.5  | 83    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.439 | 0.424 | 3.4   | 83    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.274 | 0.282 | -2.9  | 86    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.331 | 0.321 | 3.0   | 84    | 0.00     |
| 31   | Naphthalene                 | 1.078 | 1.062 | 1.5   | 86    | 0.00     |
| 32   | Benzoic acid                | 0.170 | 0.178 | -4.7  | 90    | -0.02    |
| 33   | 4-Chloroaniline             | 0.394 | 0.394 | 0.0   | 82    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.217 | 0.215 | 0.9   | 86    | 0.00     |
| 35   | Caprolactam                 | 0.105 | 0.111 | -5.7  | 87    | -0.02    |
| 36 C | 4-Chloro-3-methylphenol     | 0.359 | 0.356 | 0.8   | 83    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.761 | 0.732 | 3.8   | 84    | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.746 | 0.722 | 3.2   | 83    | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.571 | 0.566 | 0.9   | 80    | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.161 | 0.176 | -9.3  | 83    | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 0.222 | 0.251 | -13.1 | 86    | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.337 | 0.355 | -5.3  | 82    | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.374 | 0.398 | -6.4  | 81    | 0.00     |
| 45 S | 2-Fluorobiphenyl            | 1.318 | 1.321 | -0.2  | 80    | 0.00     |
| 46   | 1,1'-Biphenyl               | 1.511 | 1.518 | -0.5  | 82    | 0.00     |
| 47   | 2-Chloronaphthalene         | 1.102 | 1.111 | -0.8  | 81    | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064053.D  
 Acq On : 5 Mar 2025 15:10  
 Operator : RC/JU  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 ICVBG030525

Quant Time: Mar 05 15:42:26 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|----------------------------|-------|-------|-------|-------|----------|
| 48   | 2-Nitroaniline             | 0.318 | 0.367 | -15.4 | 87    | 0.00     |
| 49   | Acenaphthylene             | 1.743 | 1.767 | -1.4  | 82    | 0.00     |
| 50   | Dimethylphthalate          | 1.476 | 1.466 | 0.7   | 80    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.261 | 0.300 | -14.9 | 85    | 0.00     |
| 52 C | Acenaphthene               | 1.170 | 1.182 | -1.0  | 82    | 0.00     |
| 53   | 3-Nitroaniline             | 0.285 | 0.321 | -12.6 | 84    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 0.102 | 0.115 | -12.7 | 95    | 0.00     |
| 55   | Dibenzofuran               | 1.895 | 1.896 | -0.1  | 81    | 0.00     |
| 56 P | 4-Nitrophenol              | 0.239 | 0.284 | -18.8 | 91    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 0.357 | 0.428 | -19.9 | 88    | 0.00     |
| 58   | Fluorene                   | 1.476 | 1.491 | -1.0  | 83    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.365 | 0.392 | -7.4  | 82    | 0.00     |
| 60   | Diethylphthalate           | 1.603 | 1.651 | -3.0  | 82    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.733 | 0.722 | 1.5   | 81    | 0.00     |
| 62   | 4-Nitroaniline             | 0.308 | 0.351 | -14.0 | 84    | 0.00     |
| 63   | Azobenzene                 | 1.710 | 1.716 | -0.4  | 81    | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 84    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.076 | 0.082 | -7.9  | 93    | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 0.566 | 0.555 | 1.9   | 80    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.205 | 0.204 | 0.5   | 81    | 0.00     |
| 68   | Hexachlorobenzene          | 0.229 | 0.221 | 3.5   | 81    | 0.00     |
| 69   | Atrazine                   | 0.167 | 0.161 | 3.6   | 84    | 0.00     |
| 70 C | Pentachlorophenol          | 0.142 | 0.153 | -7.7  | 86    | 0.00     |
| 71   | Phenanthrene               | 1.067 | 1.066 | 0.1   | 83    | 0.00     |
| 72   | Anthracene                 | 1.061 | 1.068 | -0.7  | 82    | 0.00     |
| 73   | Carbazole                  | 0.990 | 1.036 | -4.6  | 84    | 0.00     |
| 74   | Di-n-butylphthalate        | 1.166 | 1.303 | -11.7 | 87    | 0.00     |
| 75 C | Fluoranthene               | 1.286 | 1.355 | -5.4  | 86    | 0.00     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 77   | Benzydine                  | 0.277 | 0.259 | 6.5   | 75    | 0.00     |
| 78   | Pyrene                     | 1.289 | 1.236 | 4.1   | 85    | 0.00     |
| 79 S | Terphenyl-d14              | 0.989 | 0.956 | 3.3   | 86    | 0.00     |
| 80   | Butylbenzylphthalate       | 0.423 | 0.485 | -14.7 | 94    | 0.00     |
| 81   | Benzo(a)anthracene         | 1.281 | 1.268 | 1.0   | 88    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 0.415 | 0.426 | -2.7  | 86    | 0.00     |
| 83   | Chrysene                   | 1.278 | 1.242 | 2.8   | 86    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.693 | 0.772 | -11.4 | 92    | 0.00     |
| 85 c | Di-n-octyl phthalate       | 1.195 | 1.275 | -6.7  | 93    | 0.00     |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 87   | Indeno(1,2,3-cd)pyrene     | 1.338 | 1.335 | 0.2   | 88    | 0.00     |
| 88   | Benzo(b)fluoranthene       | 1.209 | 1.176 | 2.7   | 87    | 0.00     |
| 89   | Benzo(k)fluoranthene       | 1.213 | 1.185 | 2.3   | 85    | 0.00     |
| 90 C | Benzo(a)pyrene             | 1.077 | 1.044 | 3.1   | 85    | 0.00     |
| 91   | Dibenzo(a,h)anthracene     | 1.109 | 1.114 | -0.5  | 89    | 0.00     |
| 92   | Benzo(g,h,i)perylene       | 1.139 | 1.132 | 0.6   | 89    | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
Data File : BG064053.D  
Acq On : 5 Mar 2025 15:10  
Operator : RC/JU  
Sample : SSTDICV040  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525

Quant Time: Mar 05 15:42:26 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|----------|-------|------|------|-------|----------|
|----------|-------|------|------|-------|----------|

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064053.D  
 Acq On : 5 Mar 2025 15:10  
 Operator : RC/JU  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 ICVBG030525

Quant Time: Mar 05 15:42:26 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 20.000 | 20.000 | 0.0   | 97    | 0.00     |
| 2    | 1,4-Dioxane                 | 40.000 | 40.218 | -0.5  | 97    | 0.00     |
| 3    | Pyridine                    | 40.000 | 39.931 | 0.2   | 87    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 40.000 | 39.980 | 0.1   | 92    | 0.00     |
| 5 S  | 2-Fluorophenol              | 80.000 | 78.823 | 1.5   | 91    | 0.00     |
| 6    | Aniline                     | 40.000 | 37.544 | 6.1   | 86    | 0.00     |
| 7 S  | Phenol-d6                   | 80.000 | 75.496 | 5.6   | 86    | 0.00     |
| 8    | 2-Chlorophenol              | 40.000 | 38.417 | 4.0   | 89    | 0.00     |
| 9    | Benzaldehyde                | 40.000 | 38.087 | 4.8   | 93    | 0.00     |
| 10 C | Phenol                      | 40.000 | 38.806 | 3.0   | 89    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 40.000 | 36.822 | 7.9   | 88    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 40.000 | 36.876 | 7.8   | 88    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 40.000 | 36.676 | 8.3   | 87    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 40.000 | 36.695 | 8.3   | 88    | 0.00     |
| 15   | Benzyl Alcohol              | 40.000 | 38.023 | 4.9   | 87    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 40.000 | 36.540 | 8.7   | 85    | 0.00     |
| 17   | 2-Methylphenol              | 40.000 | 37.680 | 5.8   | 85    | 0.00     |
| 18   | Hexachloroethane            | 40.000 | 39.404 | 1.5   | 90    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 40.000 | 35.648 | 10.9  | 80    | 0.00     |
| 20   | 3+4-Methylphenols           | 40.000 | 37.166 | 7.1   | 86    | 0.00     |
| 21 I | Naphthalene-d8              | 20.000 | 20.000 | 0.0   | 87    | 0.00     |
| 22   | Acetophenone                | 40.000 | 39.285 | 1.8   | 83    | 0.00     |
| 23 S | Nitrobenzene-d5             | 80.000 | 84.279 | -5.3  | 86    | 0.00     |
| 24   | Nitrobenzene                | 40.000 | 42.208 | -5.5  | 86    | 0.00     |
| 25   | Isophorone                  | 40.000 | 37.823 | 5.4   | 80    | 0.00     |
| 26 C | 2-Nitrophenol               | 40.000 | 40.946 | -2.4  | 91    | 0.00     |
| 27   | 2,4-Dimethylphenol          | 40.000 | 40.139 | -0.3  | 83    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 40.000 | 38.620 | 3.5   | 83    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 40.000 | 41.154 | -2.9  | 86    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 40.000 | 38.802 | 3.0   | 84    | 0.00     |
| 31   | Naphthalene                 | 40.000 | 39.402 | 1.5   | 86    | 0.00     |
| 32   | Benzoic acid                | 40.000 | 37.906 | 5.2   | 90    | -0.02    |
| 33   | 4-Chloroaniline             | 40.000 | 39.949 | 0.1   | 82    | 0.00     |
| 34 C | Hexachlorobutadiene         | 40.000 | 39.720 | 0.7   | 86    | 0.00     |
| 35   | Caprolactam                 | 40.000 | 42.084 | -5.2  | 87    | -0.02    |
| 36 C | 4-Chloro-3-methylphenol     | 40.000 | 39.649 | 0.9   | 83    | 0.00     |
| 37   | 2-Methylnaphthalene         | 40.000 | 38.463 | 3.8   | 84    | 0.00     |
| 38   | 1-Methylnaphthalene         | 40.000 | 38.724 | 3.2   | 83    | 0.00     |
| 39 I | Acenaphthene-d10            | 20.000 | 20.000 | 0.0   | 83    | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 40.000 | 39.630 | 0.9   | 80    | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 40.000 | 43.873 | -9.7  | 83    | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 80.000 | 90.311 | -12.9 | 86    | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 40.000 | 42.165 | -5.4  | 82    | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 40.000 | 42.561 | -6.4  | 81    | 0.00     |
| 45 S | 2-Fluorobiphenyl            | 80.000 | 80.186 | -0.2  | 80    | 0.00     |
| 46   | 1,1'-Biphenyl               | 40.000 | 40.196 | -0.5  | 82    | 0.00     |
| 47   | 2-Chloronaphthalene         | 40.000 | 40.309 | -0.8  | 81    | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
 Data File : BG064053.D  
 Acq On : 5 Mar 2025 15:10  
 Operator : RC/JU  
 Sample : SSTDICV040  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 ICVBG030525

Quant Time: Mar 05 15:42:26 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|----------------------------|--------|--------|-------|-------|----------|
| 48   | 2-Nitroaniline             | 40.000 | 41.405 | -3.5  | 87    | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 40.537 | -1.3  | 82    | 0.00     |
| 50   | Dimethylphthalate          | 40.000 | 39.712 | 0.7   | 80    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 40.625 | -1.6  | 85    | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 40.428 | -1.1  | 82    | 0.00     |
| 53   | 3-Nitroaniline             | 40.000 | 45.042 | -12.6 | 84    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 41.197 | -3.0  | 95    | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 40.014 | -0.0  | 81    | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 47.537 | -18.8 | 91    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 41.944 | -4.9  | 88    | 0.00     |
| 58   | Fluorene                   | 40.000 | 40.403 | -1.0  | 83    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 43.068 | -7.7  | 82    | 0.00     |
| 60   | Diethylphthalate           | 40.000 | 41.198 | -3.0  | 82    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 39.367 | 1.6   | 81    | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 45.576 | -13.9 | 84    | 0.00     |
| 63   | Azobenzene                 | 40.000 | 40.137 | -0.3  | 81    | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0   | 84    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 39.817 | 0.5   | 93    | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 39.248 | 1.9   | 80    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 39.772 | 0.6   | 81    | 0.00     |
| 68   | Hexachlorobenzene          | 40.000 | 38.611 | 3.5   | 81    | 0.00     |
| 69   | Atrazine                   | 40.000 | 38.607 | 3.5   | 84    | 0.00     |
| 70 C | Pentachlorophenol          | 40.000 | 43.019 | -7.5  | 86    | 0.00     |
| 71   | Phenanthrene               | 40.000 | 39.978 | 0.1   | 83    | 0.00     |
| 72   | Anthracene                 | 40.000 | 40.280 | -0.7  | 82    | 0.00     |
| 73   | Carbazole                  | 40.000 | 41.831 | -4.6  | 84    | 0.00     |
| 74   | Di-n-butylphthalate        | 40.000 | 44.702 | -11.8 | 87    | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 42.146 | -5.4  | 86    | 0.00     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0   | 90    | 0.00     |
| 77   | Benzydine                  | 40.000 | 37.383 | 6.5   | 75    | 0.00     |
| 78   | Pyrene                     | 40.000 | 38.357 | 4.1   | 85    | 0.00     |
| 79 S | Terphenyl-d14              | 80.000 | 77.284 | 3.4   | 86    | 0.00     |
| 80   | Butylbenzylphthalate       | 40.000 | 40.680 | -1.7  | 94    | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 39.598 | 1.0   | 88    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 41.103 | -2.8  | 86    | 0.00     |
| 83   | Chrysene                   | 40.000 | 38.876 | 2.8   | 86    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 44.551 | -11.4 | 92    | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 42.688 | -6.7  | 93    | 0.00     |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0   | 90    | 0.00     |
| 87   | Indeno(1,2,3-cd)pyrene     | 40.000 | 39.918 | 0.2   | 88    | 0.00     |
| 88   | Benzo(b)fluoranthene       | 40.000 | 38.901 | 2.7   | 87    | 0.00     |
| 89   | Benzo(k)fluoranthene       | 40.000 | 39.079 | 2.3   | 85    | 0.00     |
| 90 C | Benzo(a)pyrene             | 40.000 | 38.765 | 3.1   | 85    | 0.00     |
| 91   | Dibenzo(a,h)anthracene     | 40.000 | 40.162 | -0.4  | 89    | 0.00     |
| 92   | Benzo(g,h,i)perylene       | 40.000 | 39.740 | 0.6   | 89    | 0.00     |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
Data File : BG064053.D  
Acq On : 5 Mar 2025 15:10  
Operator : RC/JU  
Sample : SSTDICV040  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
ICVBG030525

Quant Time: Mar 05 15:42:26 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|----------|--------|-------|------|-------|----------|
|----------|--------|-------|------|-------|----------|

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: BNA\_G Calibration Date/Time: 04/01/2025 11:38

Lab File ID: BG064130.D Init. Calib. Date(s): 03/05/2025 03/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:02 13:44

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                    | RRF   | RRF040 | MIN<br>RRF | %D    | MAX%D |
|-----------------------------|-------|--------|------------|-------|-------|
| 2-Fluorophenol              | 1.281 | 1.136  |            | -11.3 |       |
| Benzaldehyde                | 1.013 | 0.896  |            | -11.6 |       |
| Phenol-d6                   | 1.742 | 1.624  |            | -6.8  |       |
| Phenol                      | 1.784 | 1.651  |            | -7.5  | 20.0  |
| bis(2-Chloroethyl)ether     | 1.399 | 1.231  |            | -12.0 |       |
| 2-Chlorophenol              | 1.376 | 1.297  |            | -5.7  |       |
| 2-Methylphenol              | 1.184 | 1.136  |            | -4.1  |       |
| 2,2-oxybis(1-Chloropropane) | 3.145 | 2.751  |            | -12.5 |       |
| Acetophenone                | 0.548 | 0.512  |            | -6.6  |       |
| 3+4-Methylphenols           | 1.630 | 1.557  |            | -4.5  |       |
| n-Nitroso-di-n-propylamine  | 1.223 | 1.139  | 0.050      | -6.9  |       |
| Nitrobenzene-d5             | 0.362 | 0.374  |            | 3.3   |       |
| Hexachloroethane            | 0.542 | 0.539  |            | -0.6  |       |
| Nitrobenzene                | 0.374 | 0.372  |            | -0.5  |       |
| Isophorone                  | 0.724 | 0.665  |            | -8.1  |       |
| 2-Nitrophenol               | 0.112 | 0.137  |            | 22.3  | 20.0  |
| 2,4-Dimethylphenol          | 0.217 | 0.214  |            | -1.4  |       |
| bis(2-Chloroethoxy)methane  | 0.439 | 0.403  |            | -8.2  |       |
| 2,4-Dichlorophenol          | 0.274 | 0.284  |            | 3.7   | 20.0  |
| Naphthalene                 | 1.078 | 1.053  |            | -2.3  |       |
| 4-Chloroaniline             | 0.394 | 0.403  |            | 2.3   |       |
| Hexachlorobutadiene         | 0.217 | 0.225  |            | 3.7   | 20.0  |
| Caprolactam                 | 0.105 | 0.104  |            | -1.0  |       |
| 4-Chloro-3-methylphenol     | 0.359 | 0.379  |            | 5.6   | 20.0  |
| 2-Methylnaphthalene         | 0.761 | 0.785  |            | 3.2   |       |
| Hexachlorocyclopentadiene   | 0.161 | 0.197  | 0.050      | 22.4  |       |
| 2,4,6-Trichlorophenol       | 0.337 | 0.344  |            | 2.1   | 20.0  |
| 2-Fluorobiphenyl            | 1.318 | 1.245  |            | -5.5  |       |
| 2,4,5-Trichlorophenol       | 0.374 | 0.383  |            | 2.4   |       |
| 1,1-Biphenyl                | 1.511 | 1.476  |            | -2.3  |       |
| 2-Chloronaphthalene         | 1.102 | 1.056  |            | -4.2  |       |
| 2-Nitroaniline              | 0.318 | 0.373  |            | 17.3  |       |
| Dimethylphthalate           | 1.476 | 1.392  |            | -5.7  |       |
| Acenaphthylene              | 1.743 | 1.682  |            | -3.5  |       |
| 2,6-Dinitrotoluene          | 0.261 | 0.299  |            | 14.6  |       |
| 3-Nitroaniline              | 0.285 | 0.298  |            | 4.6   |       |
| Acenaphthene                | 1.170 | 1.098  |            | -6.2  | 20.0  |
| 2,4-Dinitrophenol           | 0.102 | 0.115  | 0.050      | 12.7  |       |
| 4-Nitrophenol               | 0.239 | 0.246  | 0.050      | 2.9   |       |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: BNA\_G Calibration Date/Time: 04/01/2025 11:38

Lab File ID: BG064130.D Init. Calib. Date(s): 03/05/2025 03/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:02 13:44

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                   | RRF   | RRF040 | MIN<br>RRF | %D    | MAX%D |
|----------------------------|-------|--------|------------|-------|-------|
| Dibenzofuran               | 1.895 | 1.798  |            | -5.1  |       |
| 2,4-Dinitrotoluene         | 0.357 | 0.410  |            | 14.8  |       |
| Diethylphthalate           | 1.603 | 1.511  |            | -5.7  |       |
| 4-Chlorophenyl-phenylether | 0.733 | 0.710  |            | -3.1  |       |
| Fluorene                   | 1.476 | 1.431  |            | -3.0  |       |
| 4-Nitroaniline             | 0.308 | 0.323  |            | 4.9   |       |
| 4,6-Dinitro-2-methylphenol | 0.076 | 0.092  |            | 21.1  |       |
| n-Nitrosodiphenylamine     | 0.566 | 0.565  |            | -0.2  | 20.0  |
| 2,4,6-Tribromophenol       | 0.222 | 0.244  |            | 9.9   |       |
| 4-Bromophenyl-phenylether  | 0.205 | 0.215  |            | 4.9   |       |
| Hexachlorobenzene          | 0.229 | 0.226  |            | -1.3  |       |
| Atrazine                   | 0.167 | 0.146  |            | -12.6 |       |
| Pentachlorophenol          | 0.142 | 0.151  |            | 6.3   | 20.0  |
| Phenanthrene               | 1.067 | 1.025  |            | -3.9  |       |
| Anthracene                 | 1.061 | 1.054  |            | -0.7  |       |
| Carbazole                  | 0.990 | 0.950  |            | -4.0  |       |
| Di-n-butylphthalate        | 1.166 | 1.160  |            | -0.5  |       |
| Fluoranthene               | 1.286 | 1.207  |            | -6.1  | 20.0  |
| Pyrene                     | 1.289 | 1.276  |            | -1.0  |       |
| Terphenyl-d14              | 0.989 | 0.963  |            | -2.6  |       |
| Butylbenzylphthalate       | 0.423 | 0.499  |            | 18.0  |       |
| 3,3-Dichlorobenzidine      | 0.415 | 0.419  |            | 1.0   |       |
| Benzo (a) anthracene       | 1.281 | 1.268  |            | -1.0  |       |
| Chrysene                   | 1.278 | 1.211  |            | -5.2  |       |
| Bis(2-ethylhexyl)phthalate | 0.693 | 0.758  |            | 9.4   |       |
| Di-n-octyl phthalate       | 1.195 | 1.288  |            | 7.8   | 20.0  |
| Benzo (b) fluoranthene     | 1.209 | 1.178  |            | -2.6  |       |
| Benzo (k) fluoranthene     | 1.213 | 1.168  |            | -3.7  |       |
| Benzo (a) pyrene           | 1.077 | 1.032  |            | -4.2  | 20.0  |
| Indeno (1,2,3-cd) pyrene   | 1.338 | 1.326  |            | -0.9  |       |
| Dibenzo (a,h) anthracene   | 1.109 | 1.088  |            | -1.9  |       |
| Benzo (g,h,i) perylene     | 1.139 | 1.108  |            | -2.7  |       |
| 1,2,4,5-Tetrachlorobenzene | 0.571 | 0.548  |            | -4.0  |       |
| 1,4-Dioxane                | 0.580 | 0.468  |            | -19.3 | 20.0  |
| 2,3,4,6-Tetrachlorophenol  | 0.365 | 0.377  |            | 3.3   |       |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
 Data File : BG064130.D  
 Acq On : 1 Apr 2025 11:38  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDCCC040

## Manual Integrations

## APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025

Quant Time: Apr 01 16:20:48 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 15:39:19 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.864  | 152  | 35250    | 20.000 | ng    | # 0.00   |
| 21) Naphthalene-d8            | 10.649 | 136  | 155899   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.485 | 164  | 116262   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.223 | 188  | 250435   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.459 | 240  | 243510   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 24.468 | 264  | 261203   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.443  | 112  | 160201   | 70.963 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.023  | 99   | 229050   | 74.582 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.009  | 82   | 233352   | 82.717 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.972 | 330  | 113362   | 87.719 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.110 | 172  | 579214   | 75.620 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.844 | 244  | 938242   | 77.907 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.369  | 88   | 32975    | 32.230 | ng    | 98       |
| 3) Pyridine                   | 3.757  | 79   | 93009    | 37.380 | ng    | 98       |
| 4) n-Nitrosodimethylamine     | 3.668  | 42   | 68172    | 38.347 | ng    | 97       |
| 6) Aniline                    | 7.188  | 93   | 107464   | 35.660 | ng    | 99       |
| 8) 2-Chlorophenol             | 7.423  | 128  | 91416    | 37.703 | ng    | 96       |
| 9) Benzaldehyde               | 7.000  | 77   | 63201    | 35.384 | ng    | 96       |
| 10) Phenol                    | 7.053  | 94   | 116391   | 37.016 | ng    | 95       |
| 11) bis(2-Chloroethyl)ether   | 7.282  | 93   | 86813    | 35.217 | ng    | 94       |
| 12) 1,3-Dichlorobenzene       | 7.752  | 146  | 96292    | 36.166 | ng    | 95       |
| 13) 1,4-Dichlorobenzene       | 7.893  | 146  | 97302    | 35.654 | ng    | 96       |
| 14) 1,2-Dichlorobenzene       | 8.210  | 146  | 94732    | 35.998 | ng    | 96       |
| 15) Benzyl Alcohol            | 8.093  | 79   | 93063    | 39.214 | ng    | 97       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.392  | 45   | 193956   | 34.992 | ng    | 98       |
| 17) 2-Methylphenol            | 8.298  | 107  | 80092    | 38.379 | ng    | 97       |
| 18) Hexachloroethane          | 8.939  | 117  | 37992    | 39.789 | ng    | 97       |
| 19) n-Nitroso-di-n-propyla... | 8.663  | 70   | 80268    | 37.242 | ng    | 96       |
| 20) 3+4-Methylphenols         | 8.621  | 107  | 109774   | 38.209 | ng    | 96       |
| 22) Acetophenone              | 8.674  | 105  | 159617   | 37.342 | ng    | 98       |
| 24) Nitrobenzene              | 9.050  | 77   | 115984   | 39.782 | ng    | 97       |
| 25) Isophorone                | 9.573  | 82   | 207273   | 36.708 | ng    | 97       |
| 26) 2-Nitrophenol             | 9.761  | 139  | 42835    | 43.512 | ng    | # 94     |
| 27) 2,4-Dimethylphenol        | 9.820  | 122  | 66625    | 39.359 | ng    | 95       |
| 28) bis(2-Chloroethoxy)met... | 10.061 | 93   | 125512   | 36.663 | ng    | 98       |
| 29) 2,4-Dichlorophenol        | 10.296 | 162  | 88528    | 41.418 | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 10.513 | 180  | 99331    | 38.496 | ng    | 97       |
| 31) Naphthalene               | 10.696 | 128  | 328170   | 39.038 | ng    | 98       |
| 32) Benzoic acid              | 9.955  | 122  | 63312m   | 42.046 | ng    |          |
| 33) 4-Chloroaniline           | 10.801 | 127  | 125776   | 40.936 | ng    | 98       |
| 34) Hexachlorobutadiene       | 10.989 | 225  | 70156    | 41.481 | ng    | 96       |
| 35) Caprolactam               | 11.565 | 113  | 32340    | 39.482 | ng    | 95       |
| 36) 4-Chloro-3-methylphenol   | 11.929 | 107  | 118211   | 42.191 | ng    | 99       |
| 37) 2-Methylnaphthalene       | 12.305 | 142  | 244694   | 41.231 | ng    | 97       |
| 38) 1-Methylnaphthalene       | 12.529 | 142  | 237894   | 40.916 | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 12.676 | 216  | 127341   | 38.365 | ng    | 100      |
| 41) Hexachlorocyclopentadiene | 12.658 | 237  | 45737    | 48.959 | ng    | 96       |
| 43) 2,4,6-Trichlorophenol     | 12.911 | 196  | 80072    | 40.932 | ng    | 91       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
 Data File : BG064130.D  
 Acq On : 1 Apr 2025 11:38  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDCCC040

## Manual Integrations

## APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025

Quant Time: Apr 01 16:20:48 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 15:39:19 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.981 | 196  | 89010    | 40.950 | ng    | 98       |
| 46) 1,1'-Biphenyl             | 13.322 | 154  | 343299   | 39.084 | ng    | 98       |
| 47) 2-Chloronaphthalene       | 13.357 | 162  | 245574   | 38.334 | ng    | 98       |
| 48) 2-Nitroaniline            | 13.557 | 65   | 86671    | 41.926 | ng    | 93       |
| 49) Acenaphthylene            | 14.203 | 152  | 391003   | 38.588 | ng    | 99       |
| 50) Dimethylphthalate         | 13.945 | 163  | 323722   | 37.720 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 14.056 | 165  | 69536    | 40.502 | ng    | 96       |
| 52) Acenaphthene              | 14.550 | 154  | 255324m  | 37.546 | ng    |          |
| 53) 3-Nitroaniline            | 14.385 | 138  | 69287    | 41.772 | ng    | 98       |
| 54) 2,4-Dinitrophenol         | 14.585 | 184  | 26830    | 41.200 | ng    | 91       |
| 55) Dibenzofuran              | 14.885 | 168  | 418054   | 37.949 | ng    | 99       |
| 56) 4-Nitrophenol             | 14.685 | 139  | 57108    | 41.052 | ng    | 94       |
| 57) 2,4-Dinitrotoluene        | 14.844 | 165  | 95339    | 40.317 | ng    | # 97     |
| 58) Fluorene                  | 15.531 | 166  | 332741   | 38.780 | ng    | 96       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.108 | 232  | 87645    | 41.360 | ng    | 94       |
| 60) Diethylphthalate          | 15.314 | 149  | 351236   | 37.699 | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 15.531 | 204  | 165044   | 38.708 | ng    | 94       |
| 62) 4-Nitroaniline            | 15.543 | 138  | 75185    | 41.984 | ng    | 99       |
| 63) Azobenzene                | 15.819 | 77   | 361599   | 36.371 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 15.602 | 198  | 46107    | 43.534 | ng    | 92       |
| 66) n-Nitrosodiphenylamine    | 15.743 | 169  | 282830   | 39.898 | ng    | 98       |
| 67) 4-Bromophenyl-phenylether | 16.424 | 248  | 107461   | 41.896 | ng    | 98       |
| 68) Hexachlorobenzene         | 16.536 | 284  | 113017   | 39.358 | ng    | 99       |
| 69) Atrazine                  | 16.688 | 200  | 72915    | 34.958 | ng    | 96       |
| 70) Pentachlorophenol         | 16.877 | 266  | 75747    | 42.485 | ng    | 95       |
| 71) Phenanthrene              | 17.264 | 178  | 513553   | 38.446 | ng    | 100      |
| 72) Anthracene                | 17.358 | 178  | 527940   | 39.748 | ng    | 99       |
| 73) Carbazole                 | 17.623 | 167  | 475613   | 38.352 | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.198 | 149  | 580832   | 39.790 | ng    | 100      |
| 75) Fluoranthene              | 19.280 | 202  | 604655   | 37.548 | ng    | 96       |
| 77) Benzidine                 | 19.462 | 184  | 185855   | 55.118 | ng    | 99       |
| 78) Pyrene                    | 19.638 | 202  | 621219   | 39.575 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.537 | 149  | 242915   | 41.752 | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.436 | 228  | 617605   | 39.594 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 21.359 | 252  | 204173   | 40.444 | ng    | 97       |
| 83) Chrysene                  | 21.500 | 228  | 589987   | 37.923 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.371 | 149  | 369341   | 43.782 | ng    | 100      |
| 85) Di-n-octyl phthalate      | 22.517 | 149  | 627171   | 43.102 | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 27.864 | 276  | 692855   | 39.645 | ng    | 100      |
| 88) Benzo(b)fluoranthene      | 23.522 | 252  | 615287   | 38.965 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 23.580 | 252  | 610202   | 38.520 | ng    | 100      |
| 90) Benzo(a)pyrene            | 24.327 | 252  | 539179   | 38.340 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 27.928 | 278  | 568575   | 39.243 | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 28.921 | 276  | 578929   | 38.918 | ng    | 96       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

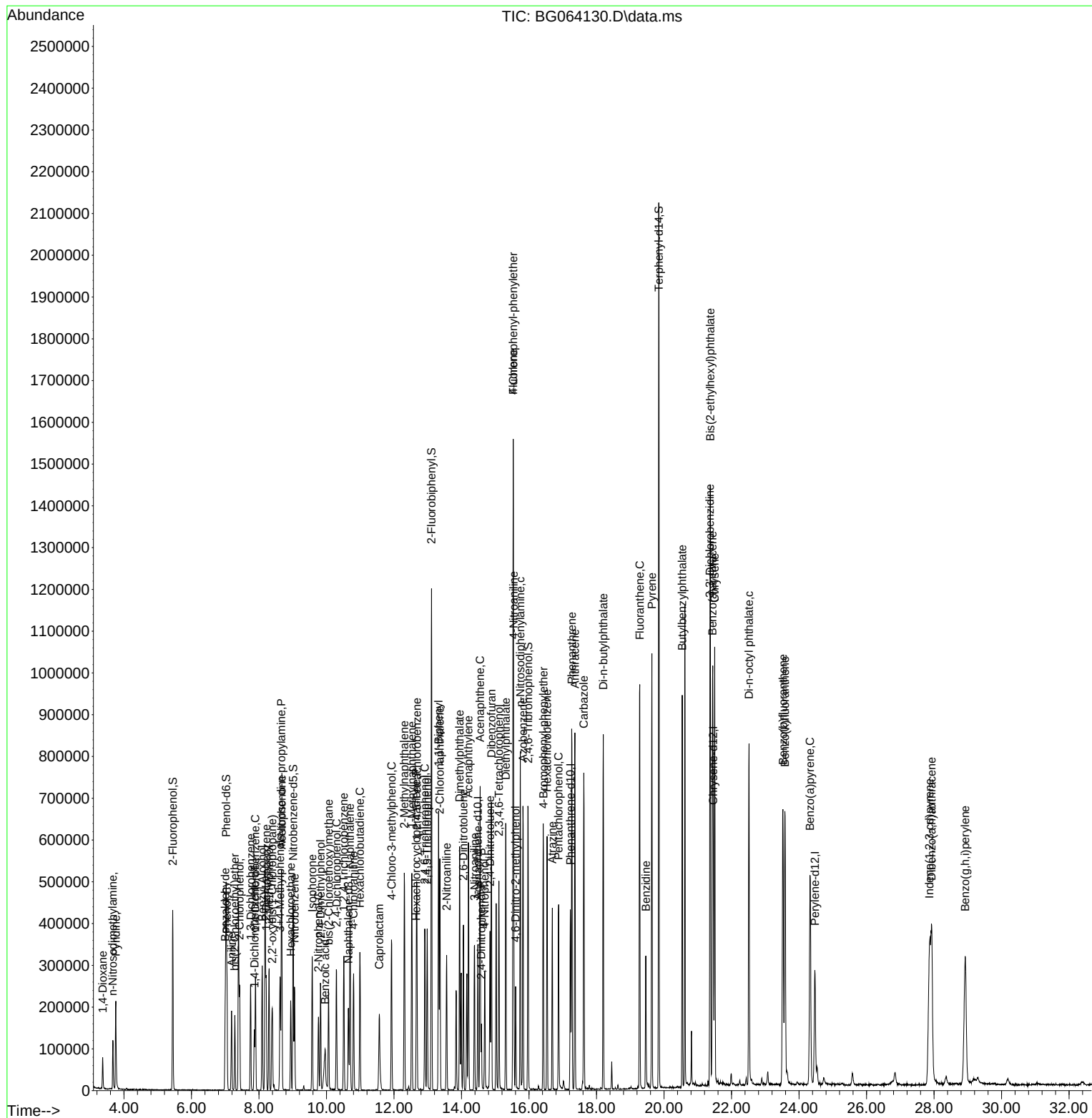
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Data File : BG064130.D  
Acq On : 1 Apr 2025 11:38  
Operator : RC/JU  
Sample : SSTDCCC040  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

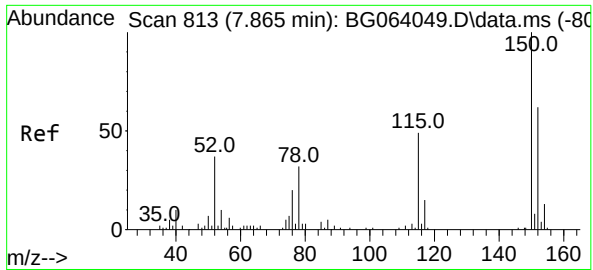
**Instrument :**  
BNA\_G  
**ClientSampleId :**  
SSTDCCC040

## Manual Integrations APPROVED

Reviewed By :Anahy Claudio    04/02/2025  
Supervised By :Jaqrut Upadhyay    04/02/2025

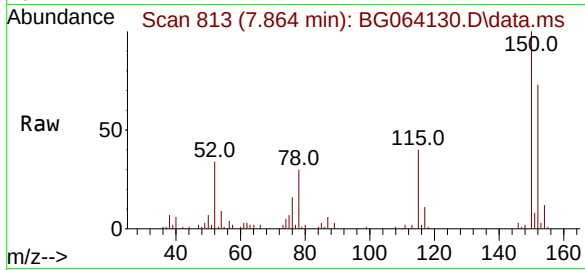
Quant Time: Apr 01 16:20:48 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.864 min Scan# 81  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

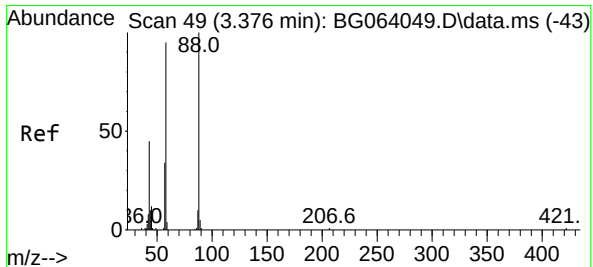
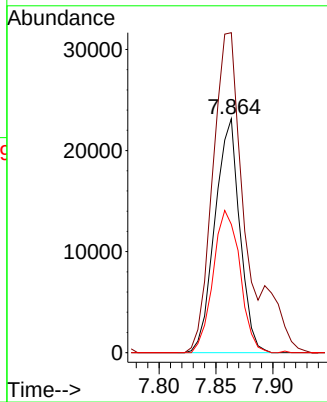
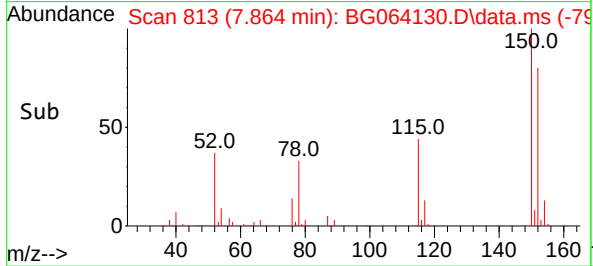
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:152 Resp: 35250  
Ion Ratio Lower Upper  
152 100  
150 136.8 129.2 193.8  
115 54.9 63.0 94.6

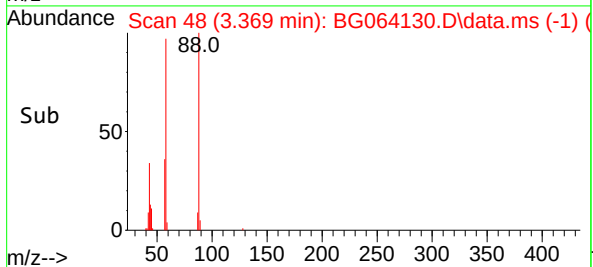
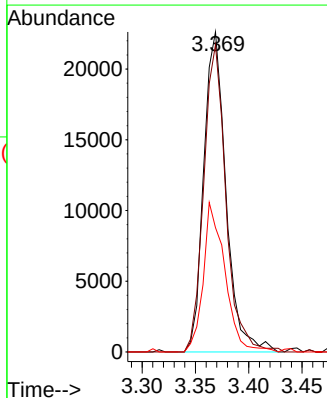
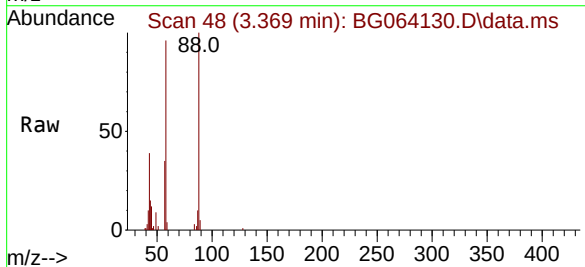
Manual Integrations  
APPROVED

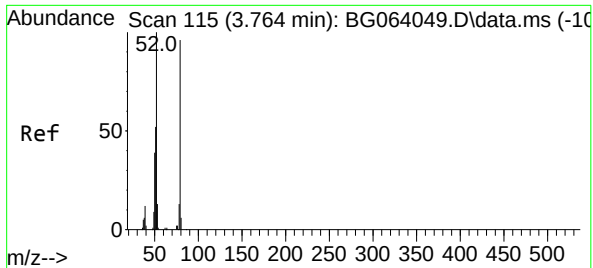
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#2  
1,4-Dioxane  
Concen: 32.230 ng  
RT: 3.369 min Scan# 48  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

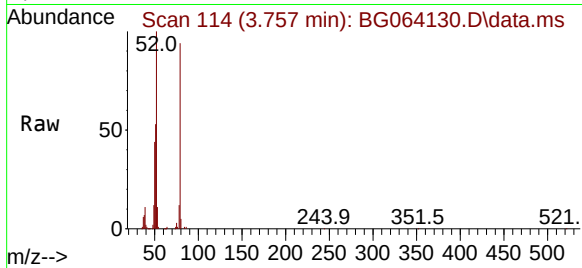
Tgt Ion: 88 Resp: 32975  
Ion Ratio Lower Upper  
88 100  
58 95.7 74.6 111.8  
43 45.4 35.5 53.3





#3  
Pyridine  
Concen: 37.380 ng  
RT: 3.757 min Scan# 115  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

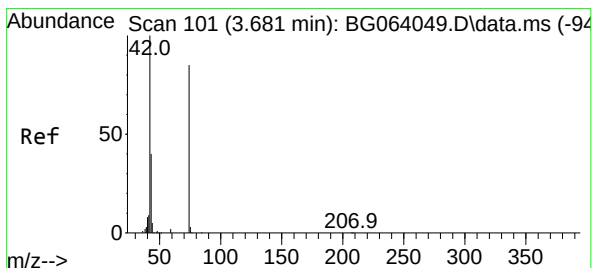
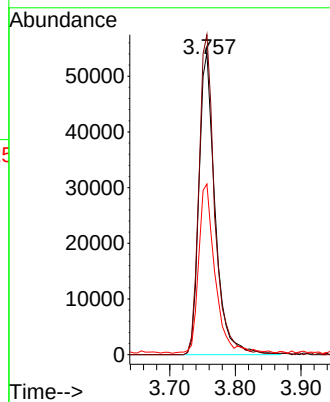
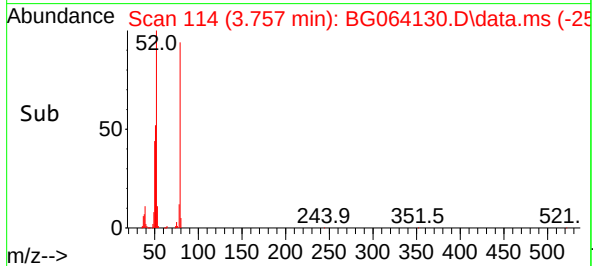
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion: 79 Resp: 93009  
Ion Ratio Lower Upper  
79 100  
52 106.0 83.0 124.6  
51 56.5 44.3 66.5

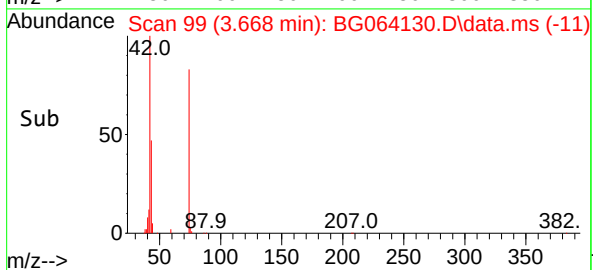
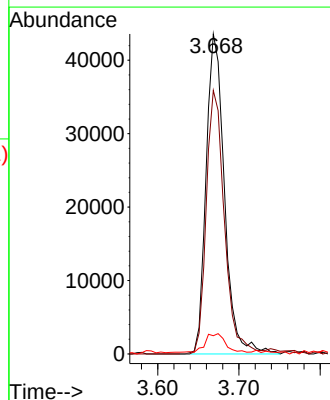
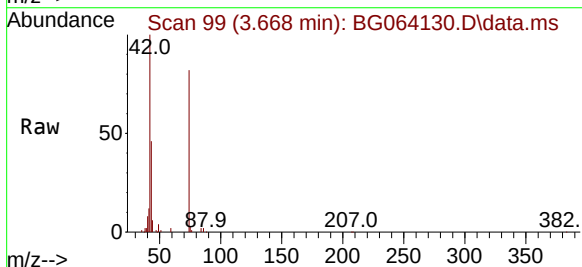
Manual Integrations  
**APPROVED**

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

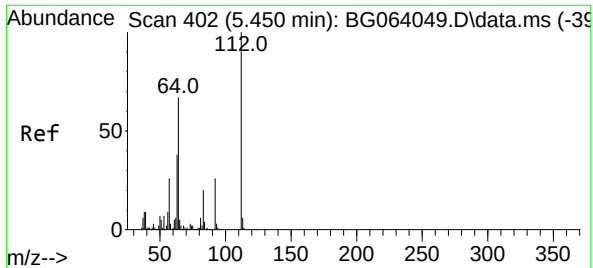


#4  
n-Nitrosodimethylamine  
Concen: 38.347 ng  
RT: 3.668 min Scan# 99  
Delta R.T. -0.013 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Tgt Ion: 42 Resp: 68172  
Ion Ratio Lower Upper  
42 100  
74 82.4 68.0 102.0  
44 5.7 4.9 7.3

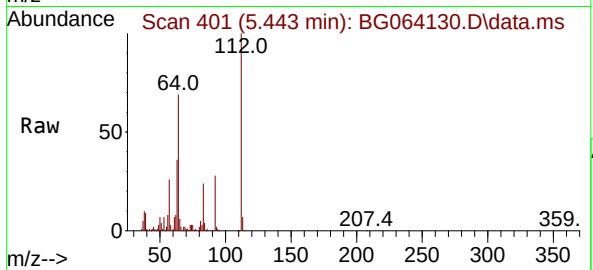






#5  
2-Fluorophenol  
Concen: 70.963 ng  
RT: 5.443 min Scan# 401  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

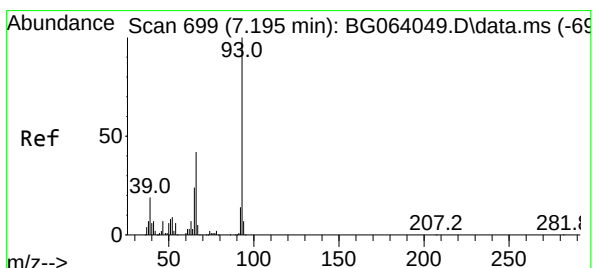
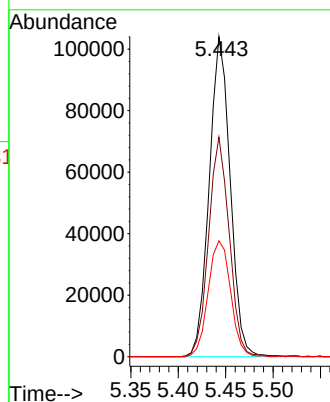
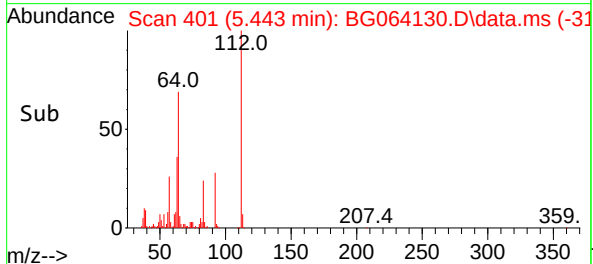
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:112 Resp: 16020  
Ion Ratio Lower Upper  
112 100  
64 68.6 53.7 80.5  
63 36.2 30.2 45.4

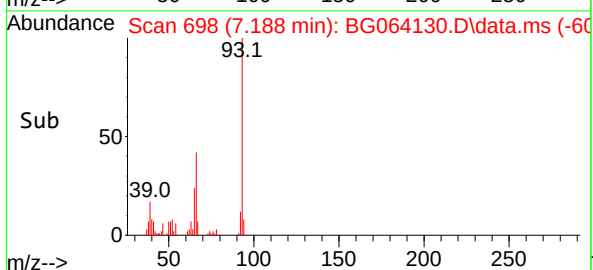
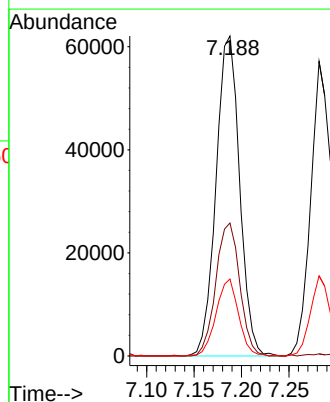
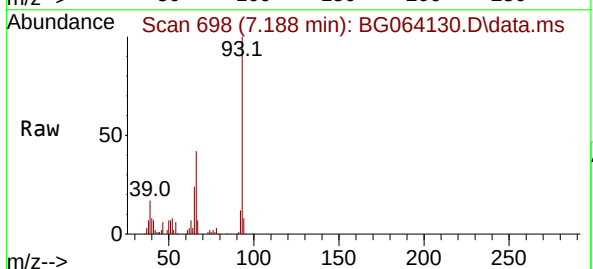
Manual Integrations  
APPROVED

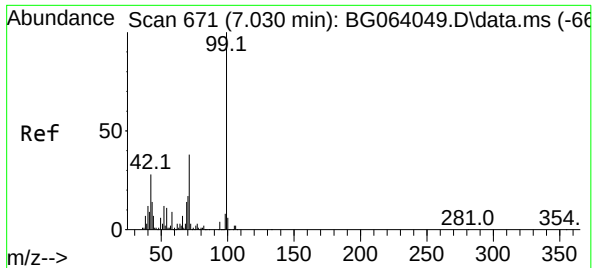
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#6  
Aniline  
Concen: 35.660 ng  
RT: 7.188 min Scan# 698  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

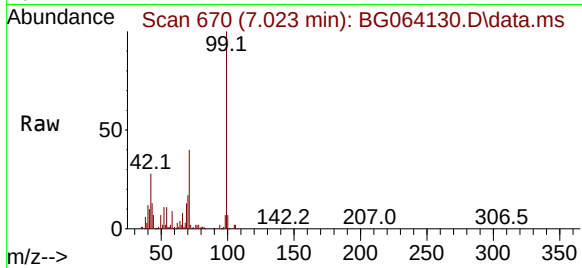
Tgt Ion: 93 Resp: 107464  
Ion Ratio Lower Upper  
93 100  
66 41.6 33.7 50.5  
65 24.0 19.1 28.7





#7  
Phenol-d6  
Concen: 74.582 ng  
RT: 7.023 min Scan# 671  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

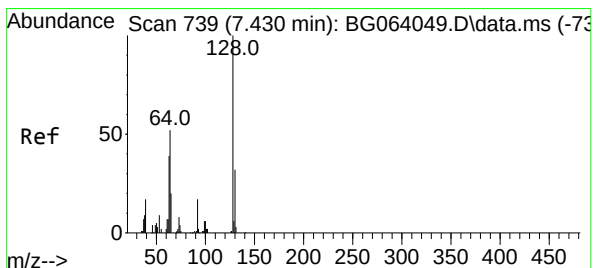
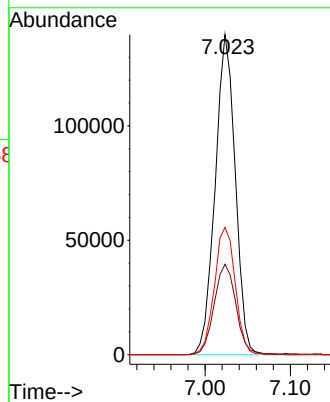
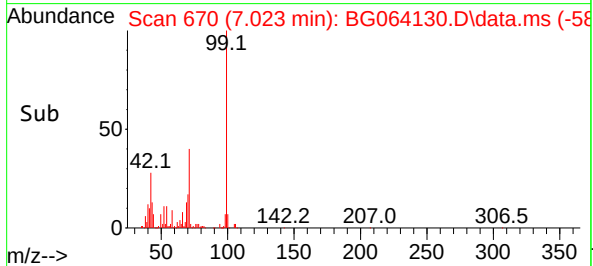
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion: 99 Resp: 229050  
Ion Ratio Lower Upper  
99 100  
42 28.3 22.7 34.1  
71 39.8 30.6 46.0

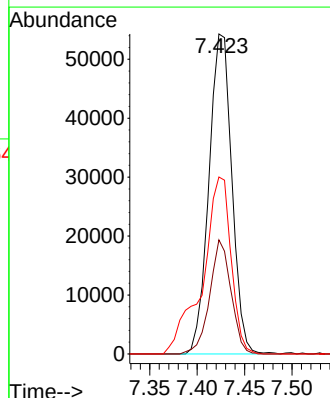
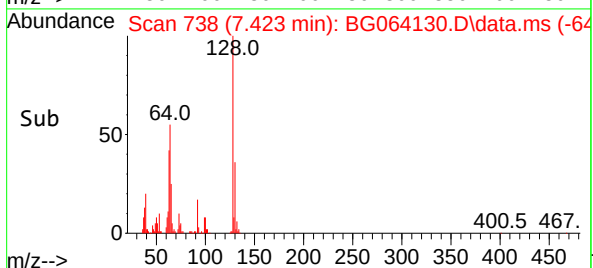
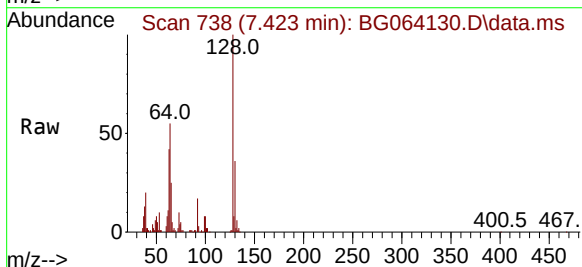
Manual Integrations  
APPROVED

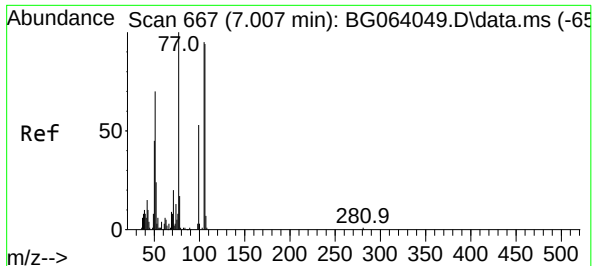
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#8  
2-Chlorophenol  
Concen: 37.703 ng  
RT: 7.423 min Scan# 738  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

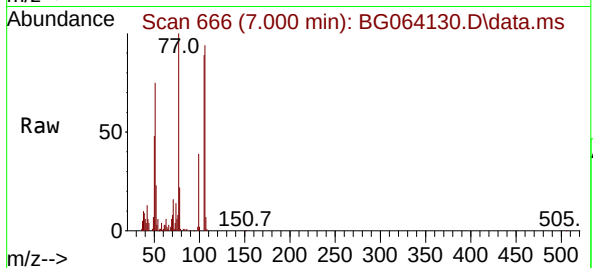
Tgt Ion:128 Resp: 91416  
Ion Ratio Lower Upper  
128 100  
130 35.6 12.3 52.3  
64 55.3 37.0 77.0





#9  
Benzaldehyde  
Concen: 35.384 ng  
RT: 7.000 min Scan# 60  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

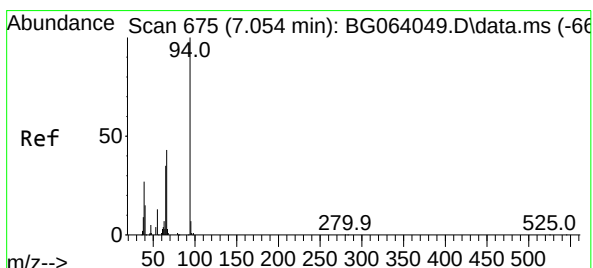
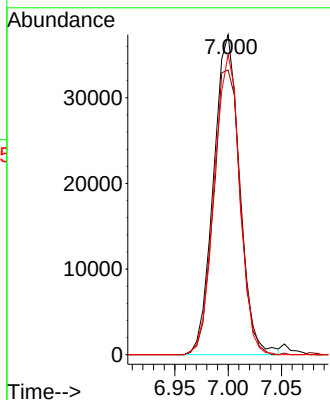
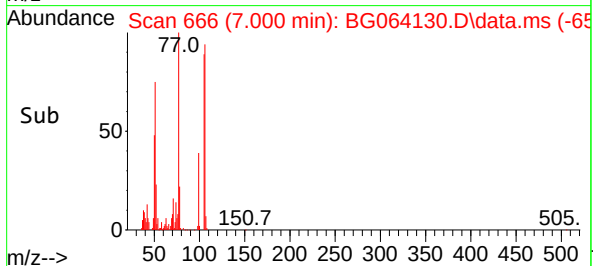
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion: 77 Resp: 6320  
Ion Ratio Lower Upper  
77 100  
105 89.0 75.5 115.5  
106 93.8 74.2 114.2

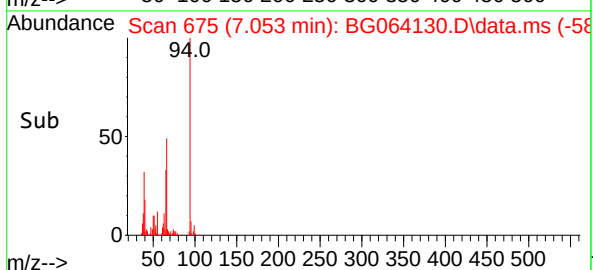
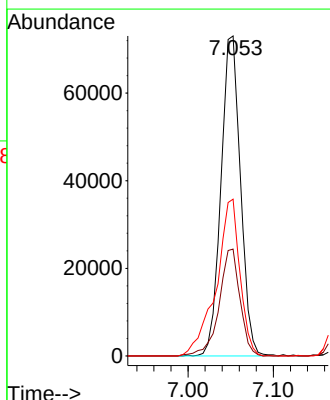
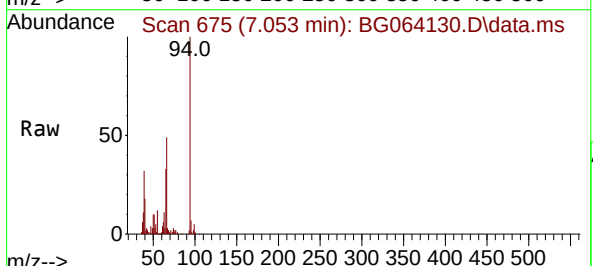
Manual Integrations  
APPROVED

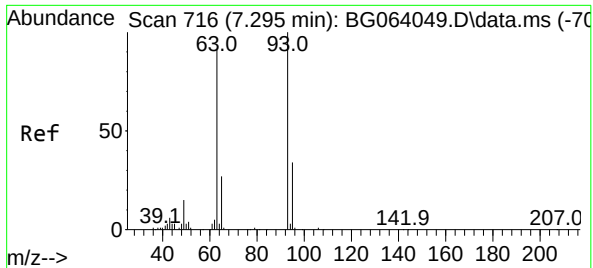
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#10  
Phenol  
Concen: 37.016 ng  
RT: 7.053 min Scan# 675  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

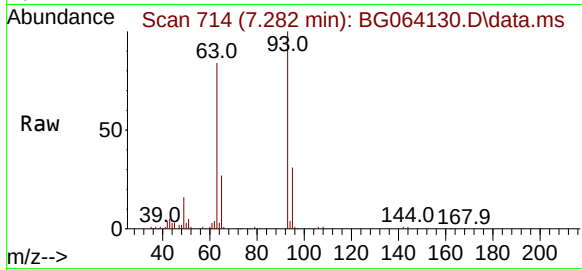
Tgt Ion: 94 Resp: 116391  
Ion Ratio Lower Upper  
94 100  
65 33.4 15.2 55.2  
66 49.0 25.1 65.1





#11  
bis(2-Chloroethyl)ether  
Concen: 35.217 ng  
RT: 7.282 min Scan# 716  
Delta R.T. -0.013 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

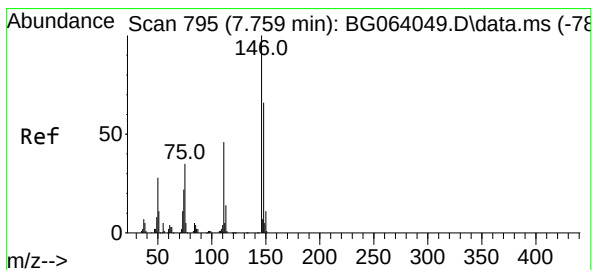
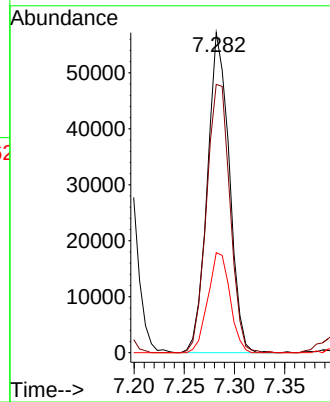
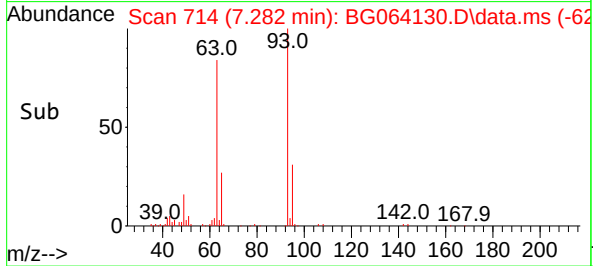
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion: 93 Resp: 8681  
Ion Ratio Lower Upper  
93 100  
63 83.9 70.0 110.0  
95 31.2 13.7 53.7

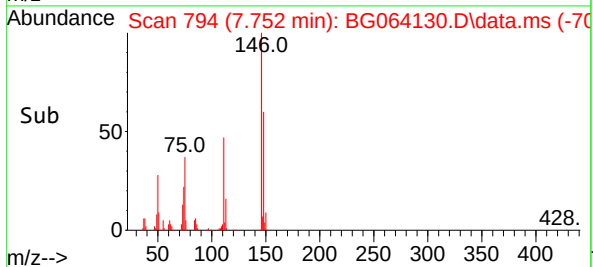
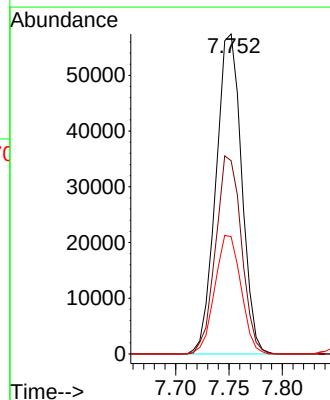
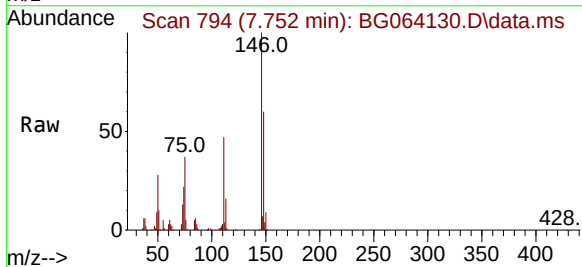
Manual Integrations  
APPROVED

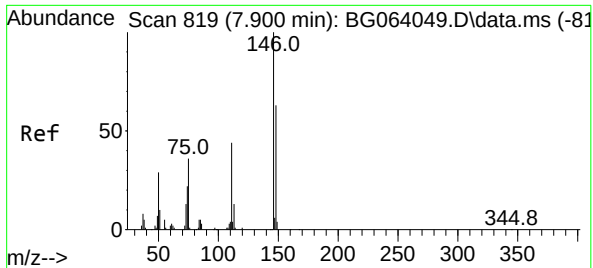
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#12  
1,3-Dichlorobenzene  
Concen: 36.166 ng  
RT: 7.752 min Scan# 794  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

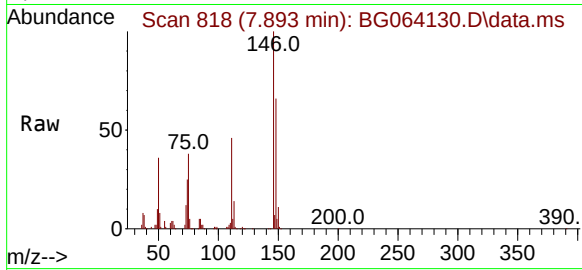
Tgt Ion:146 Resp: 96292  
Ion Ratio Lower Upper  
146 100  
148 60.4 52.6 78.8  
75 36.7 28.1 42.1





#13  
1,4-Dichlorobenzene  
Concen: 35.654 ng  
RT: 7.893 min Scan# 819  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

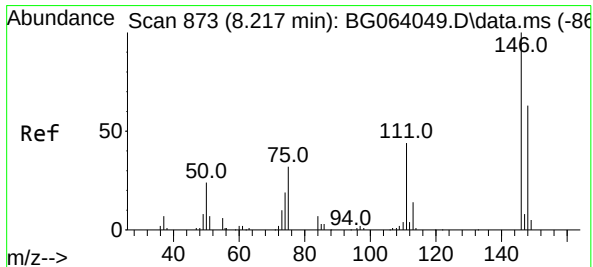
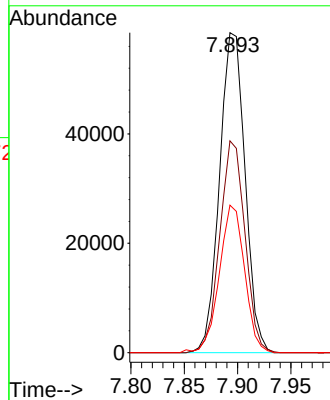
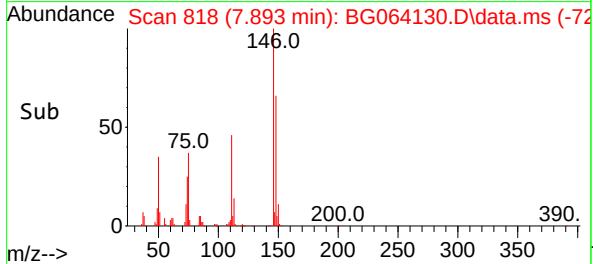
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



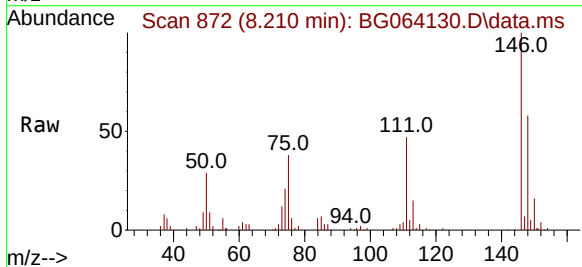
Tgt Ion:146 Resp: 97302  
Ion Ratio Lower Upper  
146 100  
148 66.2 50.6 75.8  
111 46.1 35.1 52.7

Manual Integrations  
**APPROVED**

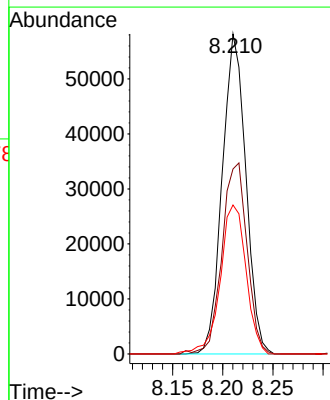
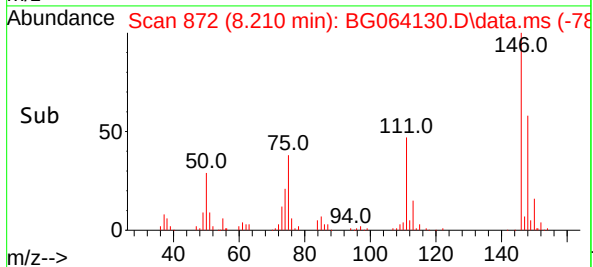
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

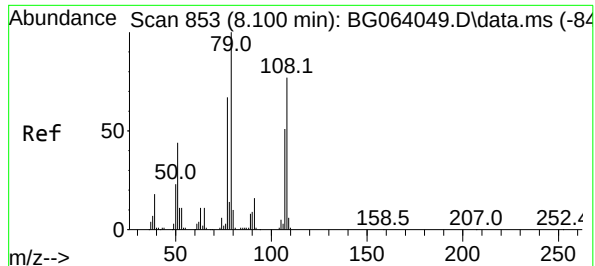


#14  
1,2-Dichlorobenzene  
Concen: 35.998 ng  
RT: 8.210 min Scan# 872  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38



Tgt Ion:146 Resp: 94732  
Ion Ratio Lower Upper  
146 100  
148 57.8 50.2 75.2  
111 46.6 36.4 54.6





#15

Benzyl Alcohol

Concen: 39.214 ng

RT: 8.093 min Scan# 81

Delta R.T. -0.007 min

Lab File: BG064130.D

Acq: 1 Apr 2025 11:38

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

Tgt Ion: 79 Resp: 9306

Ion Ratio Lower Upper

79 100

108 73.2 61.7 92.5

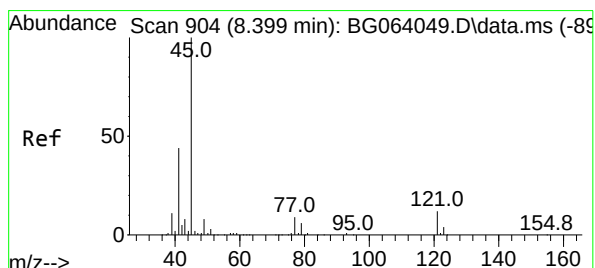
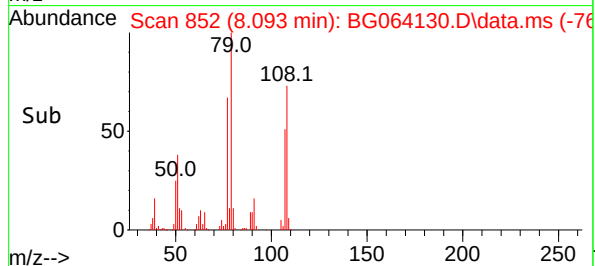
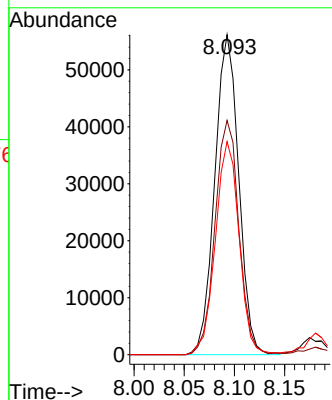
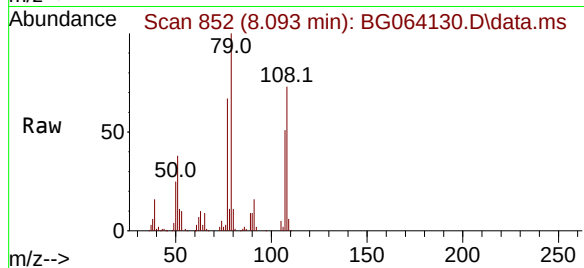
77 66.6 53.9 80.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 34.992 ng

RT: 8.392 min Scan# 903

Delta R.T. -0.007 min

Lab File: BG064130.D

Acq: 1 Apr 2025 11:38

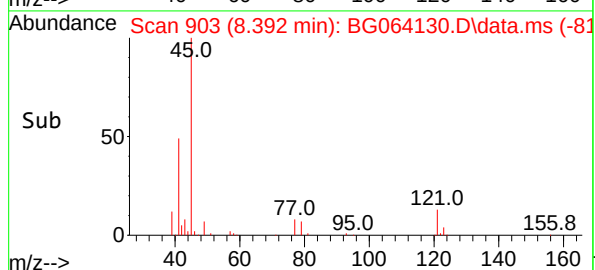
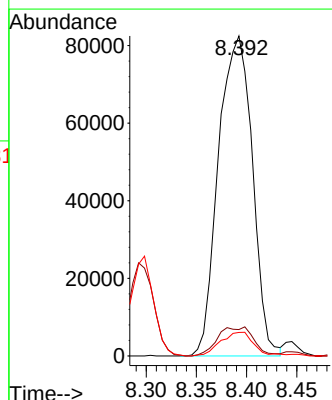
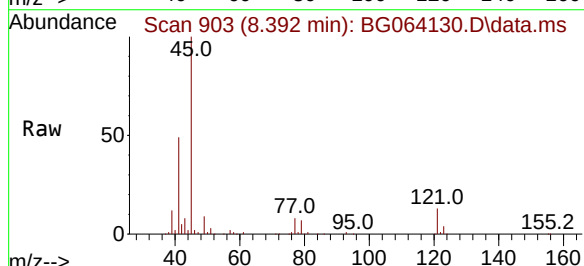
Tgt Ion: 45 Resp: 193956

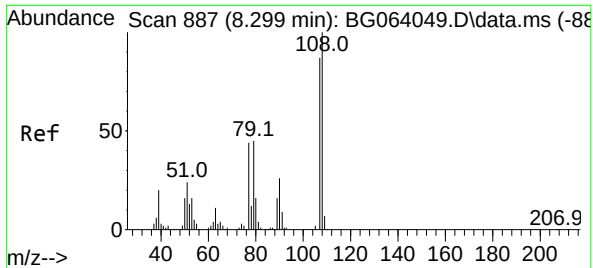
Ion Ratio Lower Upper

45 100

77 8.3 0.0 29.0

79 7.4 0.0 26.6





#17

2-Methylphenol

Concen: 38.379 ng

RT: 8.298 min Scan# 887

Delta R.T. -0.001 min

Lab File: BG064130.D

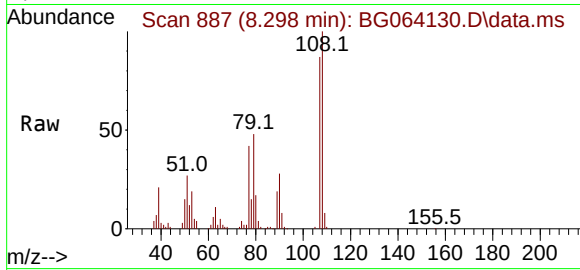
Acq: 1 Apr 2025 11:38

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040



Tgt Ion:107 Resp: 80092

Ion Ratio Lower Upper

107 100

108 114.4 92.5 138.7

77 48.3 40.5 60.7

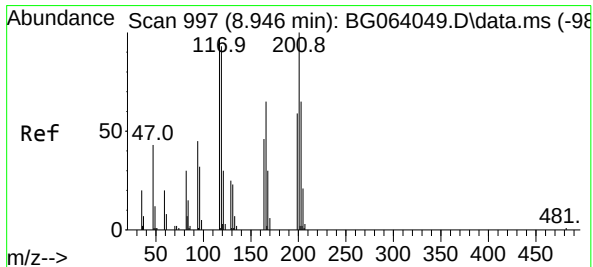
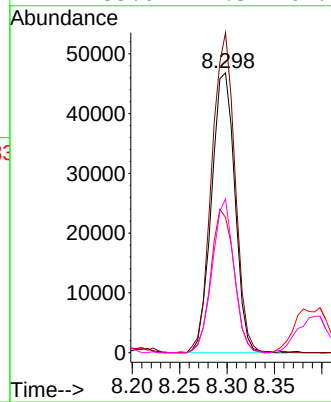
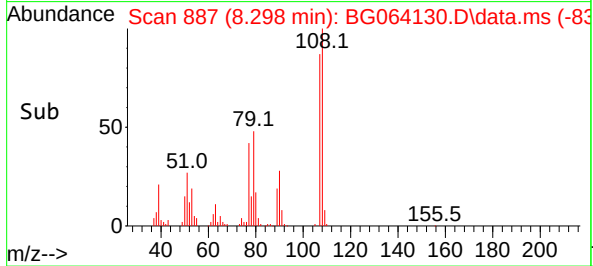
79 55.0 41.3 61.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#18

Hexachloroethane

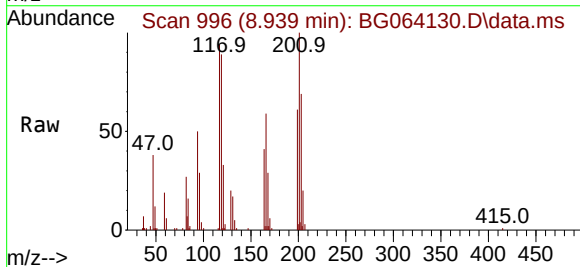
Concen: 39.789 ng

RT: 8.939 min Scan# 996

Delta R.T. -0.007 min

Lab File: BG064130.D

Acq: 1 Apr 2025 11:38



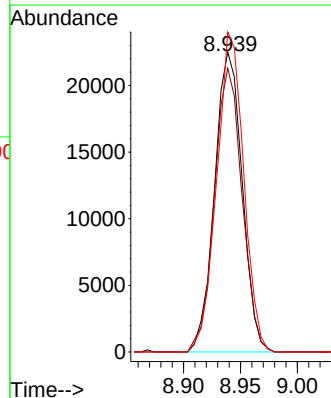
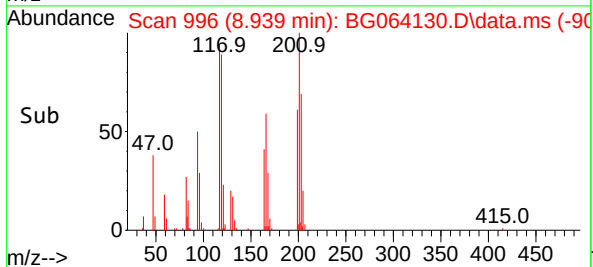
Tgt Ion:117 Resp: 37992

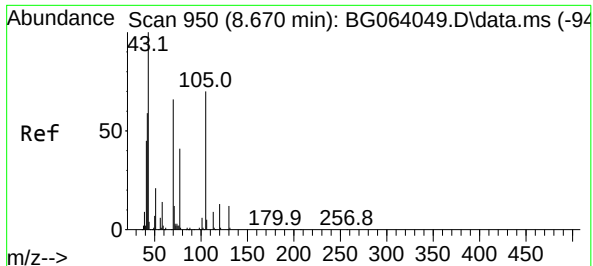
Ion Ratio Lower Upper

117 100

119 94.6 76.2 114.2

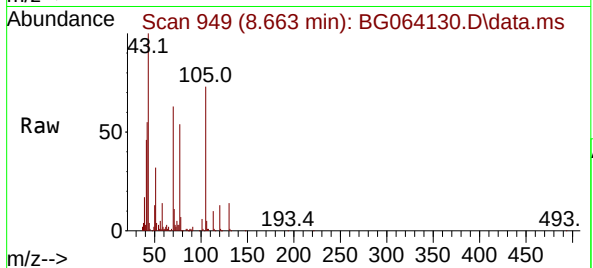
201 106.7 81.5 122.3





#19  
n-Nitroso-di-n-propylamine  
Concen: 37.242 ng  
RT: 8.663 min Scan# 949  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

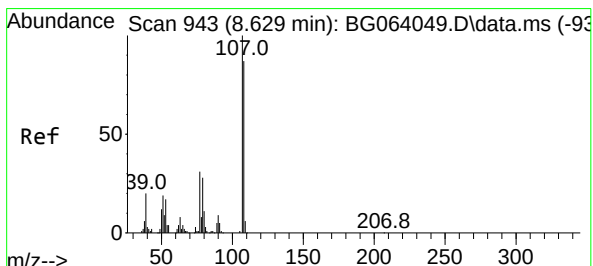
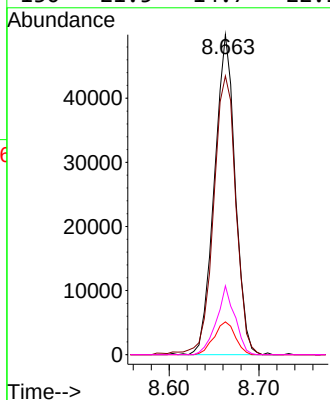
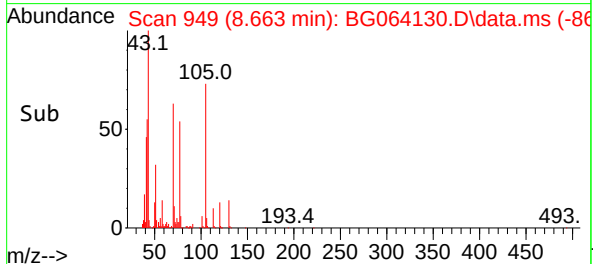
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion: 70 Resp: 80268  
Ion Ratio Lower Upper  
70 100  
42 87.1 72.1 108.1  
101 10.2 7.2 10.8  
130 21.5 14.7 22.1

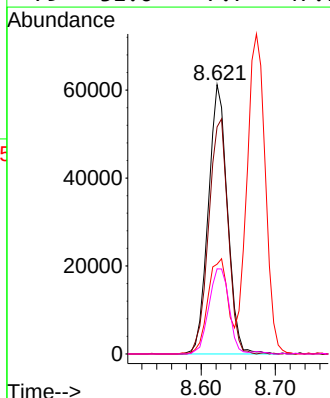
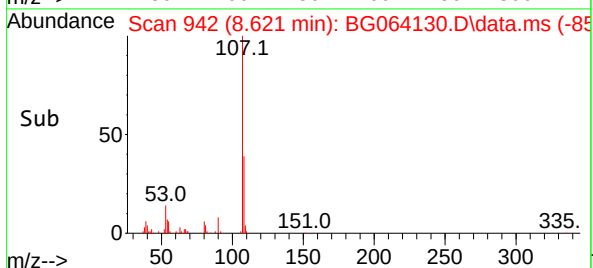
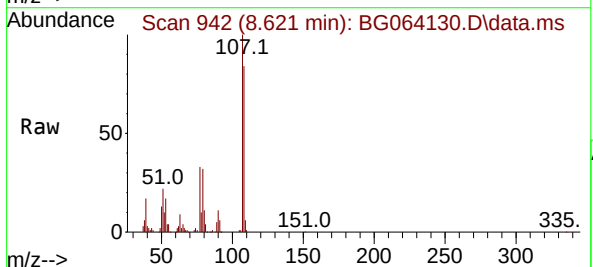
Manual Integrations  
**APPROVED**

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

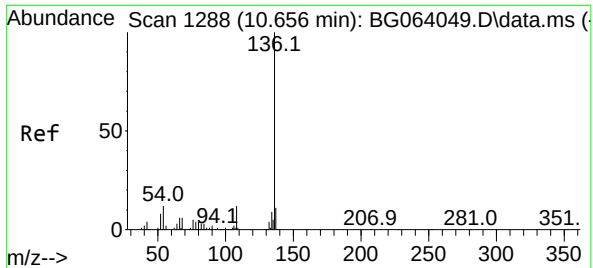


#20  
3+4-Methylphenols  
Concen: 38.209 ng  
RT: 8.621 min Scan# 942  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Tgt Ion:107 Resp: 109774  
Ion Ratio Lower Upper  
107 100  
108 84.3 67.0 107.0  
77 33.3 11.2 51.2  
79 31.6 7.7 47.7

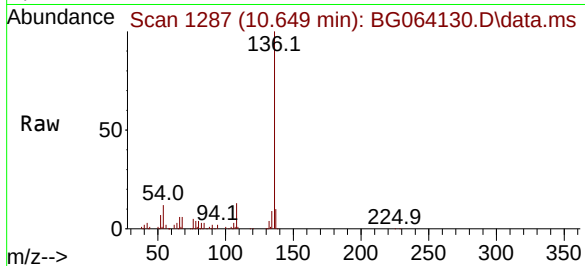






#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.649 min Scan# 10  
Delta R.T. -0.008 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

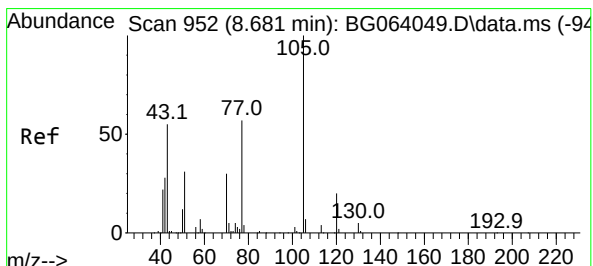
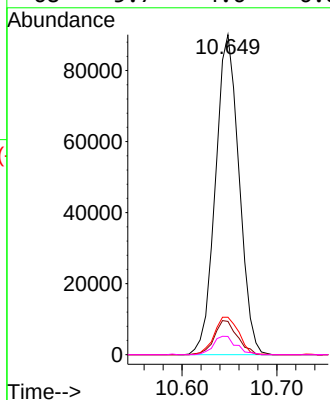
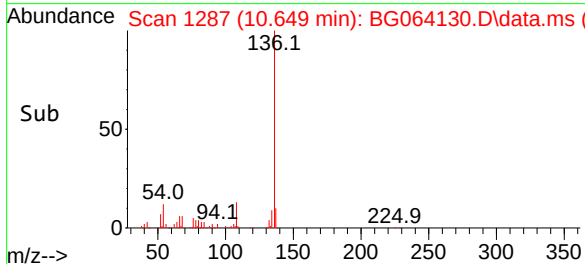
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:136 Resp: 155899  
Ion Ratio Lower Upper  
136 100  
137 10.4 8.5 12.7  
54 11.7 9.9 14.9  
68 5.7 4.6 6.8

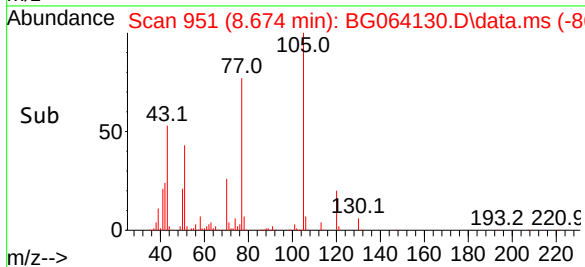
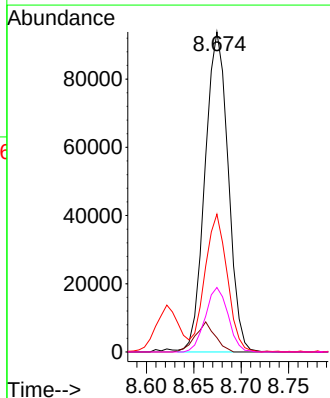
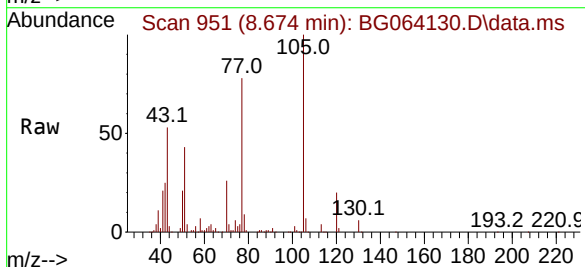
Manual Integrations  
APPROVED

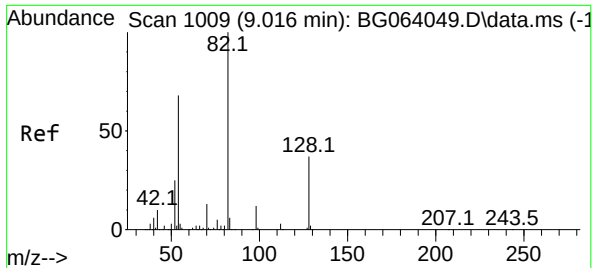
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#22  
Acetophenone  
Concen: 37.342 ng  
RT: 8.674 min Scan# 951  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Tgt Ion:105 Resp: 159617  
Ion Ratio Lower Upper  
105 100  
71 4.4 4.2 6.4  
51 43.1 33.3 49.9  
120 20.1 15.9 23.9





#23

Nitrobenzene-d5

Concen: 82.717 ng

RT: 9.009 min Scan# 1008

Delta R.T. -0.007 min

Lab File: BG064130.D

Acq: 1 Apr 2025 11:38

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

Tgt Ion: 82 Resp: 233352

Ion Ratio Lower Upper

82 100

128 37.2 30.0 45.0

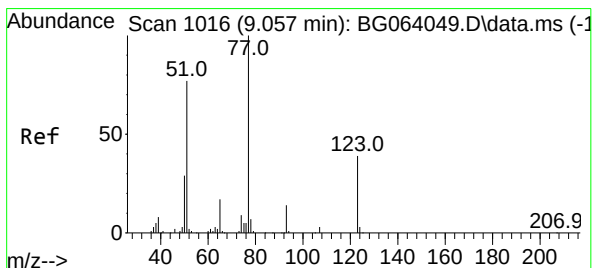
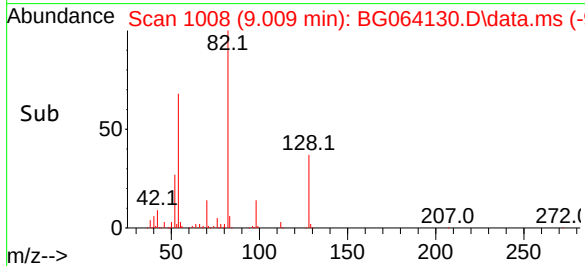
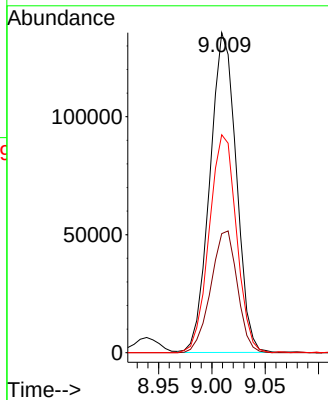
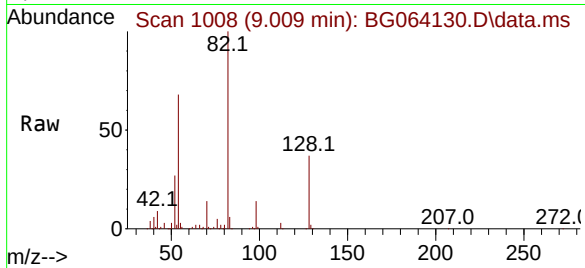
54 68.1 54.7 82.1

Manual Integrations

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Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#24

Nitrobenzene

Concen: 39.782 ng

RT: 9.050 min Scan# 1015

Delta R.T. -0.007 min

Lab File: BG064130.D

Acq: 1 Apr 2025 11:38

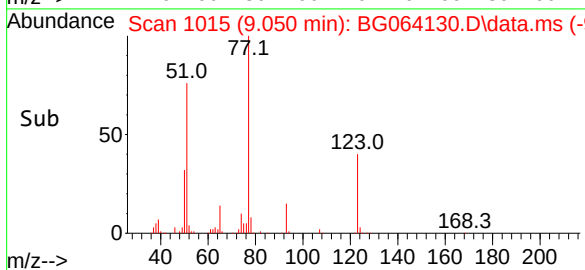
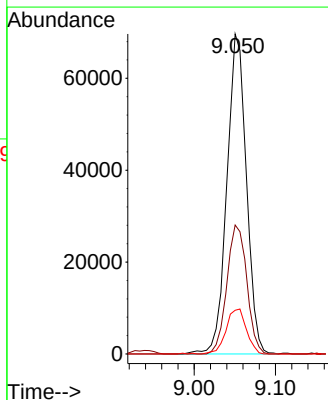
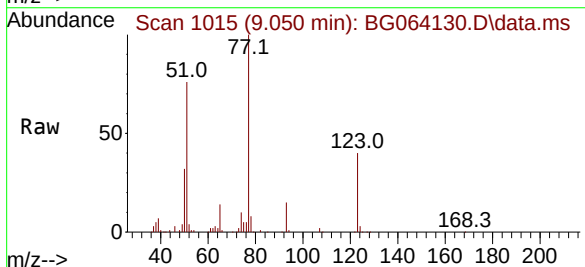
Tgt Ion: 77 Resp: 115984

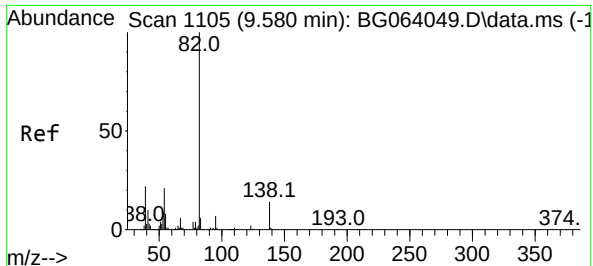
Ion Ratio Lower Upper

77 100

123 40.3 31.4 47.2

65 13.6 13.4 20.0





#25

Isophorone

Concen: 36.708 ng

RT: 9.573 min Scan# 1104

Delta R.T. -0.007 min

Lab File: BG064130.D

Acq: 1 Apr 2025 11:38

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

Tgt Ion: 82 Resp: 20727

Ion Ratio Lower Upper

82 100

95 7.8 5.8 8.8

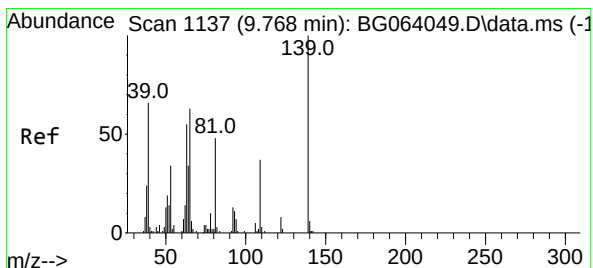
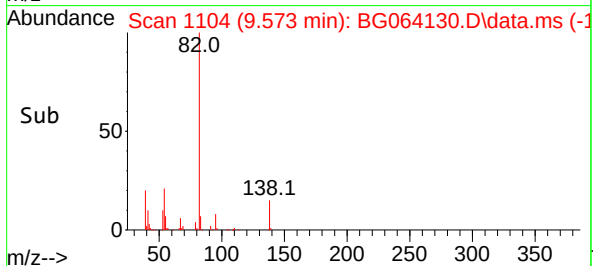
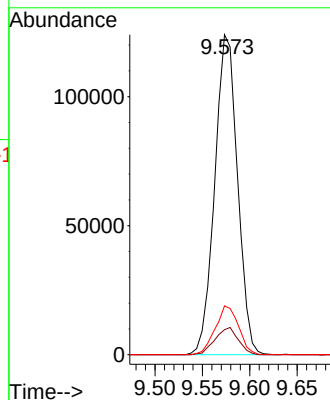
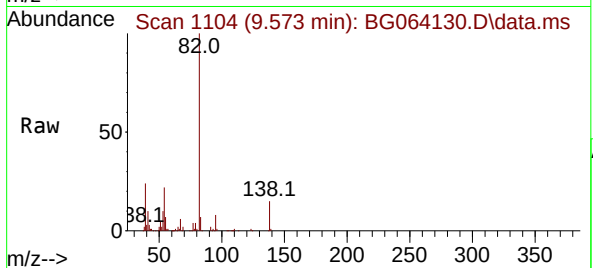
138 15.3 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#26

2-Nitrophenol

Concen: 43.512 ng

RT: 9.761 min Scan# 1136

Delta R.T. -0.007 min

Lab File: BG064130.D

Acq: 1 Apr 2025 11:38

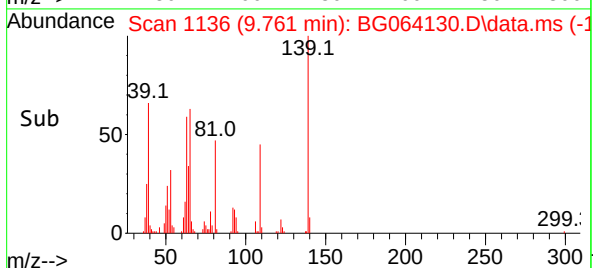
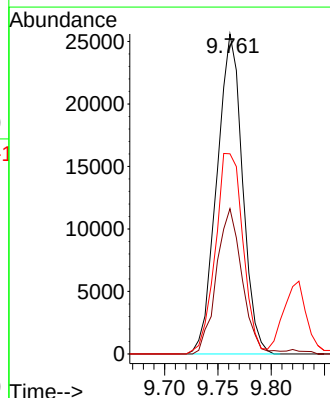
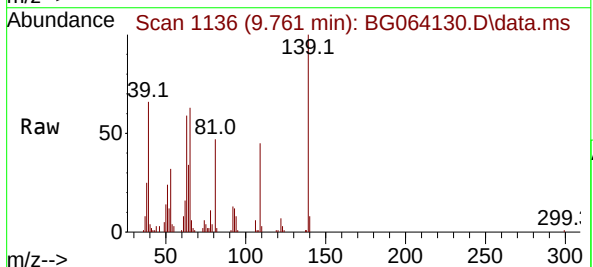
Tgt Ion:139 Resp: 42835

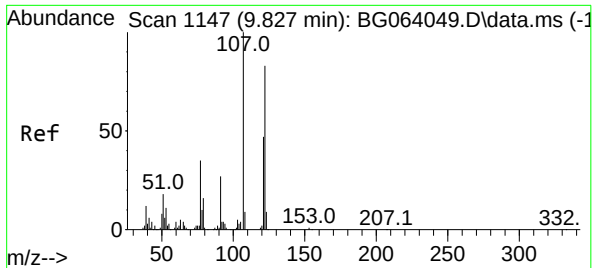
Ion Ratio Lower Upper

139 100

109 45.4 29.9 44.9

65 62.6 50.6 76.0





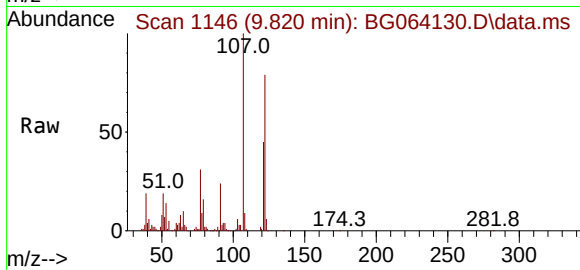
#27  
2,4-Dimethylphenol  
Concen: 39.359 ng  
RT: 9.820 min Scan# 1146  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

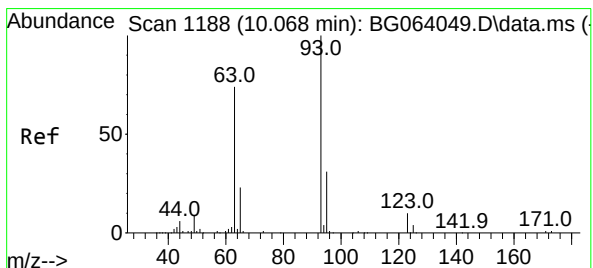
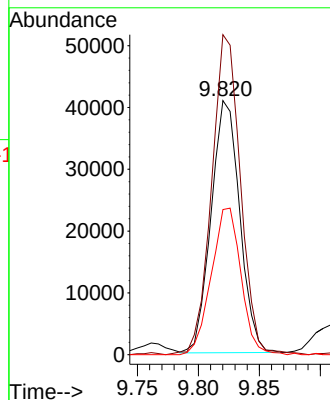
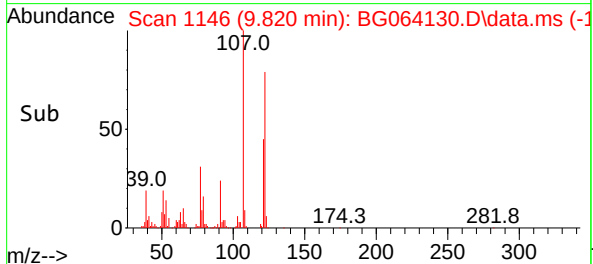


Tgt Ion:122 Resp: 6662  
Ion Ratio Lower Upper  
122 100  
107 125.9 95.4 143.0  
121 57.1 44.9 67.3

Manual Integrations

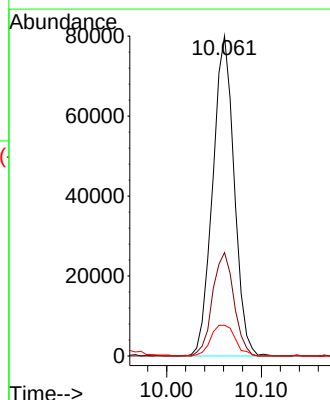
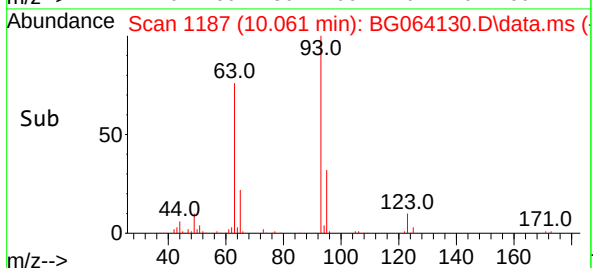
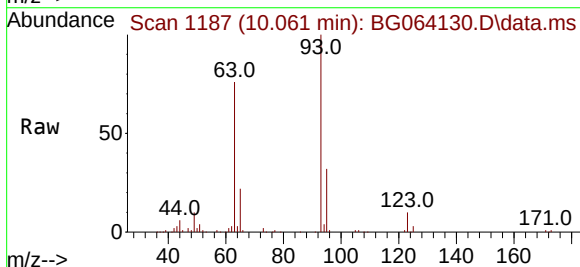
APPROVED

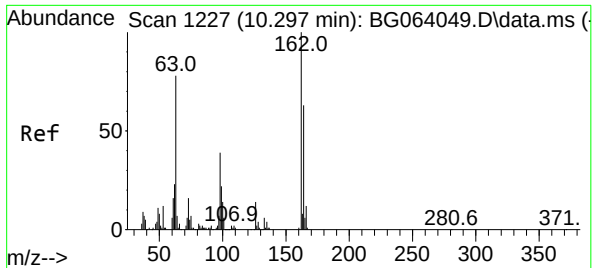
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#28  
bis(2-Chloroethoxy)methane  
Concen: 36.663 ng  
RT: 10.061 min Scan# 1187  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

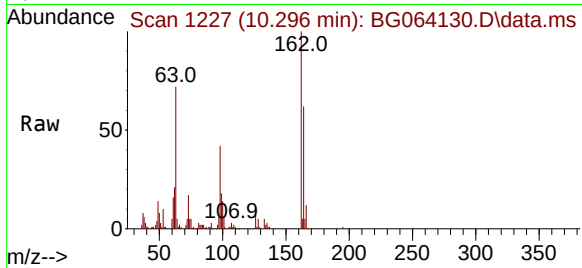
Tgt Ion: 93 Resp: 125512  
Ion Ratio Lower Upper  
93 100  
95 32.3 25.0 37.4  
123 9.6 7.6 11.4





#29  
2,4-Dichlorophenol  
Concen: 41.418 ng  
RT: 10.296 min Scan# 1227  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

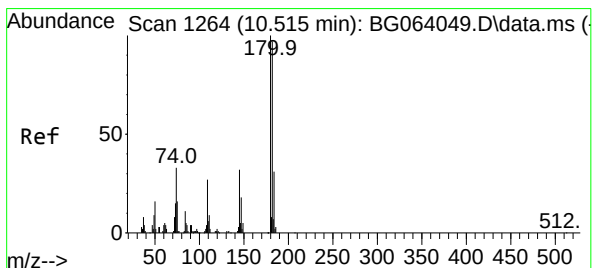
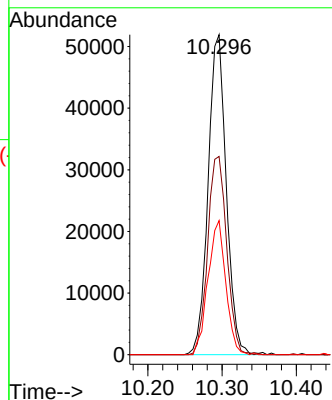
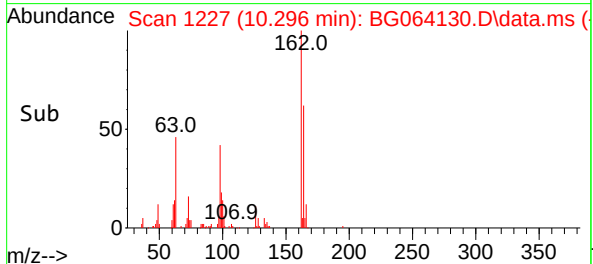
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:162 Resp: 88528  
Ion Ratio Lower Upper  
162 100  
164 61.9 42.8 82.8  
98 41.9 19.1 59.1

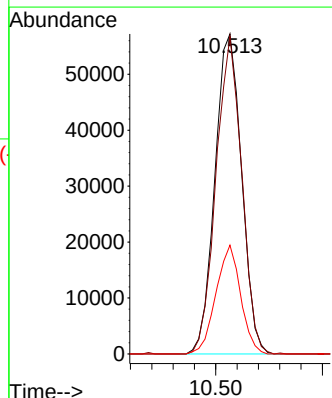
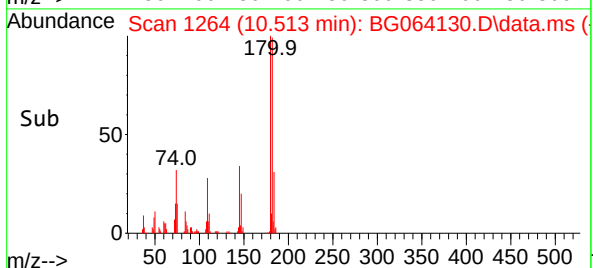
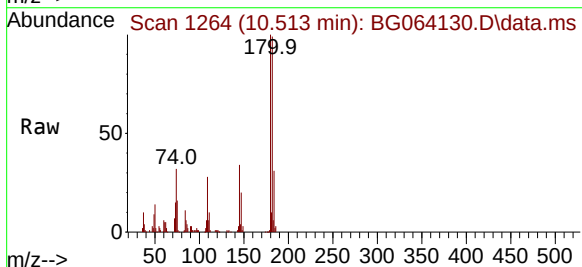
Manual Integrations  
**APPROVED**

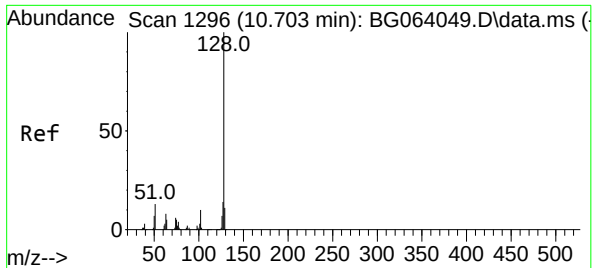
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#30  
1,2,4-Trichlorobenzene  
Concen: 38.496 ng  
RT: 10.513 min Scan# 1264  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

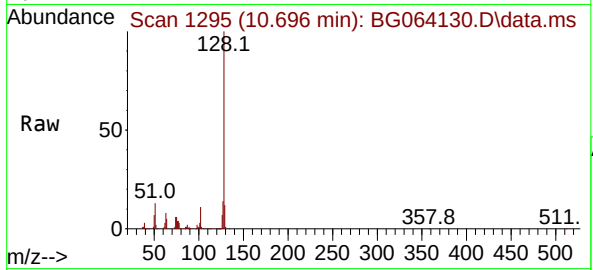
Tgt Ion:180 Resp: 99331  
Ion Ratio Lower Upper  
180 100  
182 99.2 77.3 115.9  
145 34.0 25.2 37.8





#31  
Naphthalene  
Concen: 39.038 ng  
RT: 10.696 min Scan# 1169  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

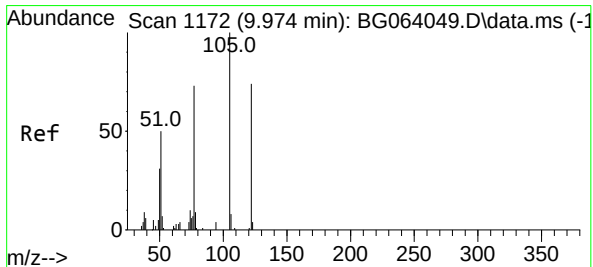
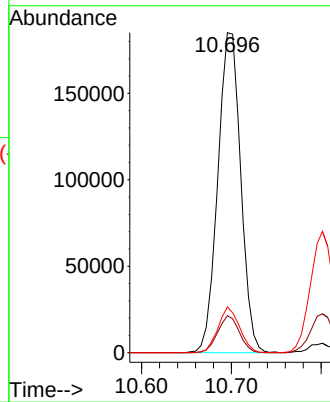
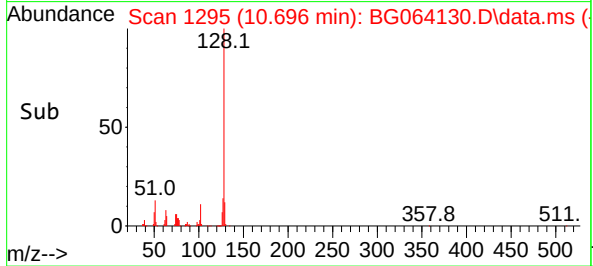
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:128 Resp: 328170  
Ion Ratio Lower Upper  
128 100  
129 11.6 8.4 12.6  
127 14.3 11.1 16.7

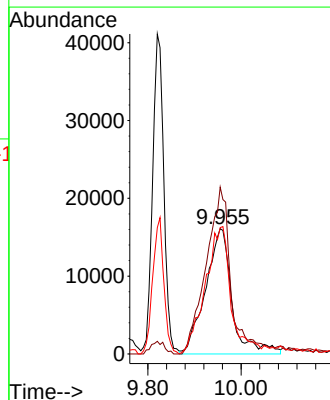
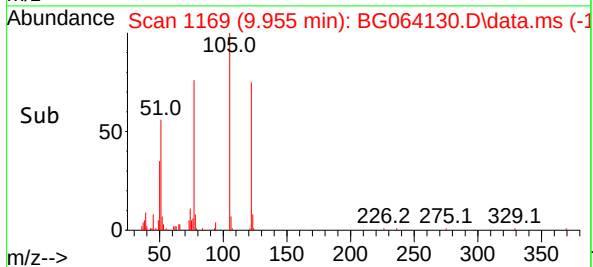
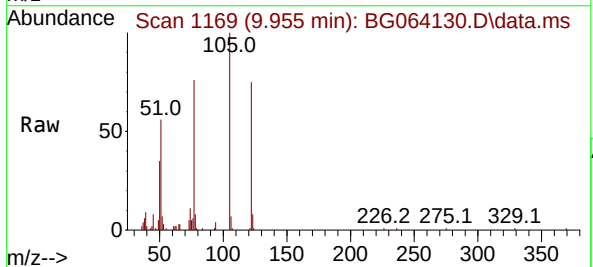
Manual Integrations  
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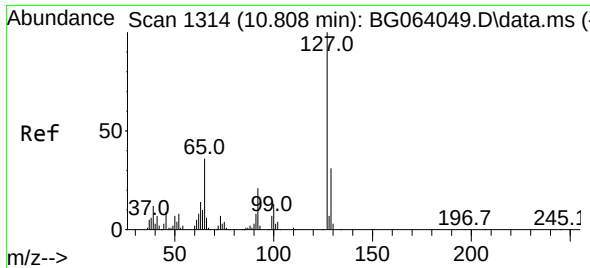
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#32  
Benzoic acid  
Concen: 42.046 ng m  
RT: 9.955 min Scan# 1169  
Delta R.T. -0.019 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

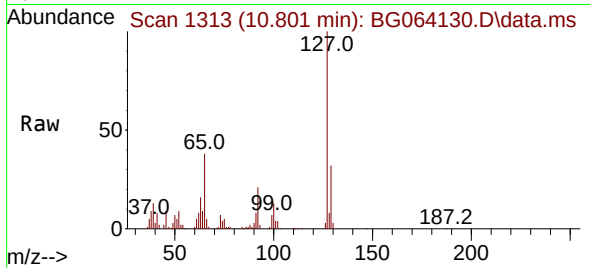
Tgt Ion:122 Resp: 63312  
Ion Ratio Lower Upper  
122 100  
105 133.3 115.0 155.0  
77 100.9 80.9 120.9





#33  
4-Chloroaniline  
Concen: 40.936 ng  
RT: 10.801 min Scan# 11  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

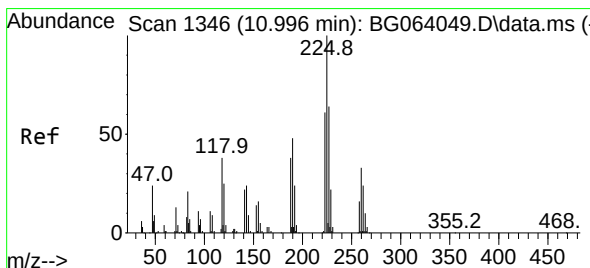
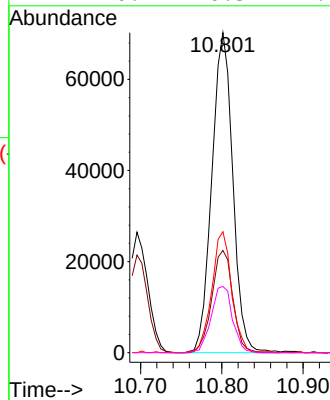
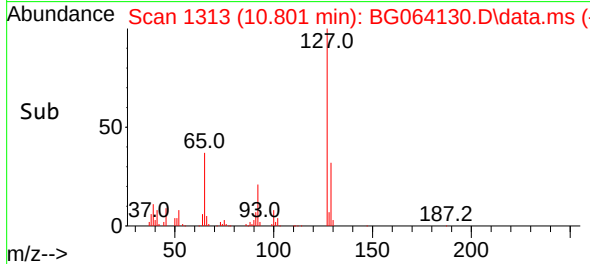
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:127 Resp: 125770  
Ion Ratio Lower Upper  
127 100  
129 32.0 25.0 37.4  
65 37.8 28.5 42.7  
92 20.7 16.5 24.7

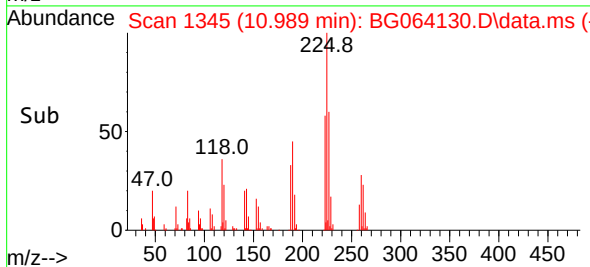
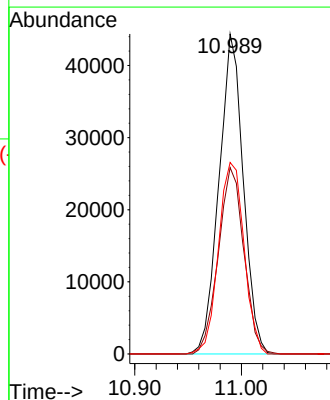
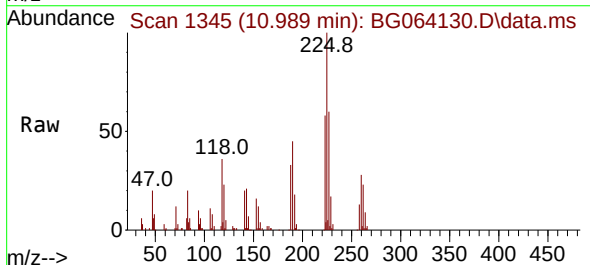
Manual Integrations  
APPROVED

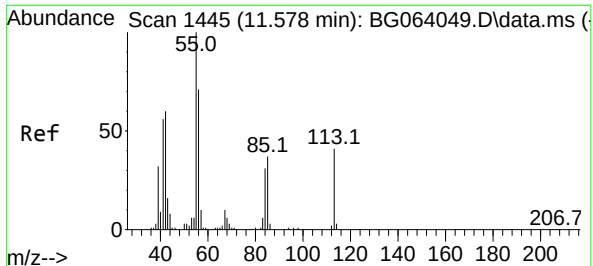
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#34  
Hexachlorobutadiene  
Concen: 41.481 ng  
RT: 10.989 min Scan# 1345  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

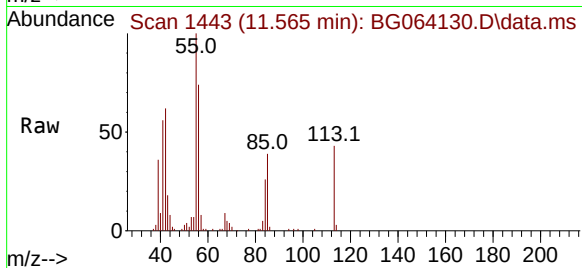
Tgt Ion:225 Resp: 70156  
Ion Ratio Lower Upper  
225 100  
223 58.3 48.5 72.7  
227 59.8 51.0 76.6





#35  
Caprolactam  
Concen: 39.482 ng  
RT: 11.565 min Scan# 1443  
Delta R.T. -0.013 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

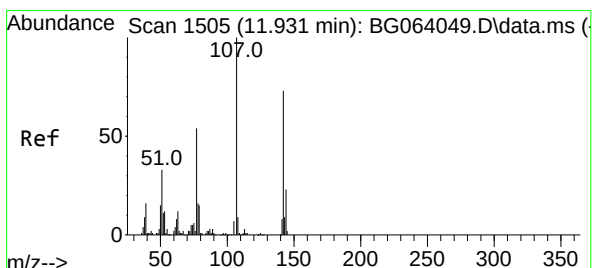
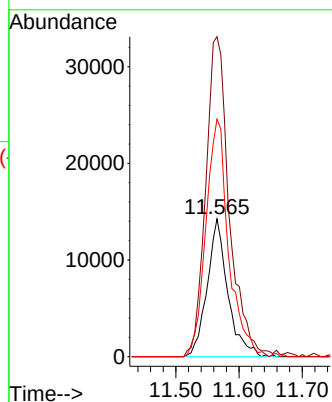
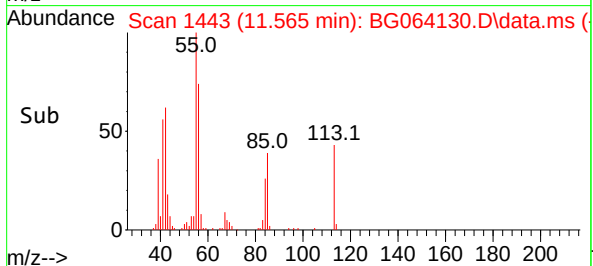
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:113 Resp: 32340  
Ion Ratio Lower Upper  
113 100  
55 232.2 225.2 265.2  
56 172.3 153.4 193.4

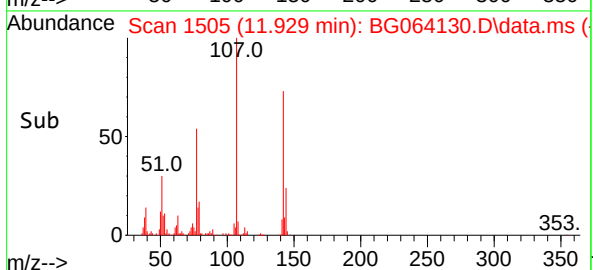
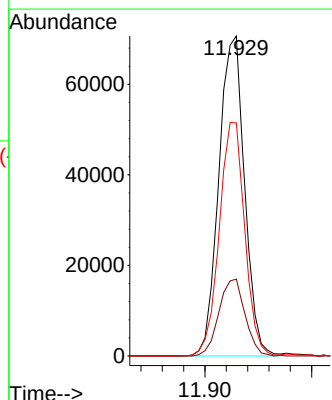
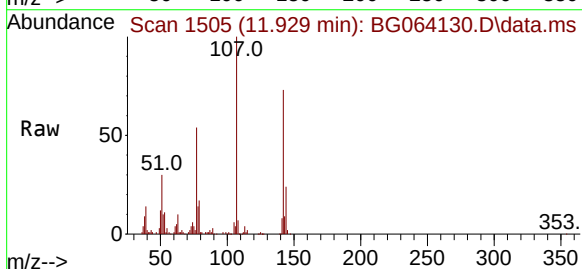
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

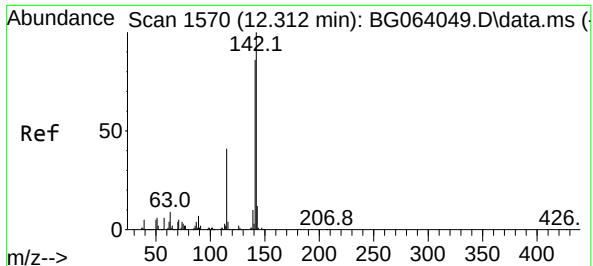


#36  
4-Chloro-3-methylphenol  
Concen: 42.191 ng  
RT: 11.929 min Scan# 1505  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Tgt Ion:107 Resp: 118211  
Ion Ratio Lower Upper  
107 100  
144 24.0 18.6 28.0  
142 72.8 58.0 87.0

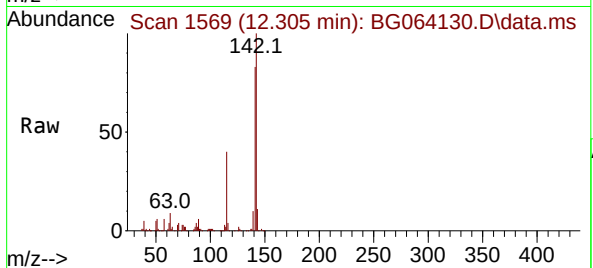






#37  
2-Methylnaphthalene  
Concen: 41.231 ng  
RT: 12.305 min Scan# 1569  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

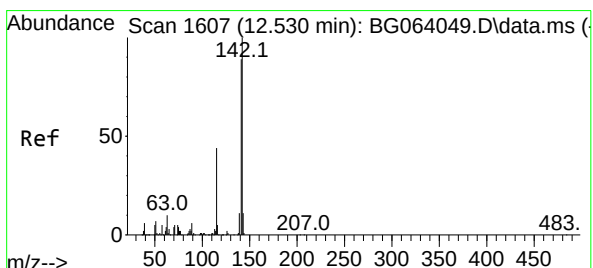
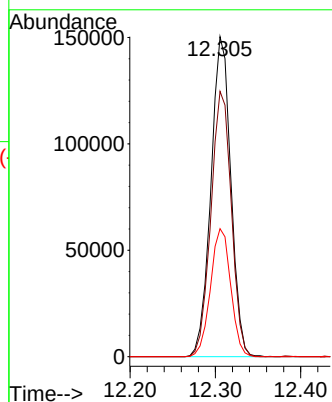
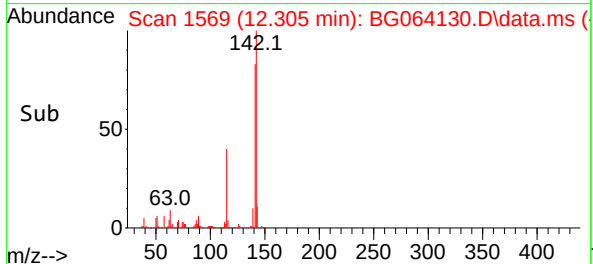
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:142 Resp: 244694  
Ion Ratio Lower Upper  
142 100  
141 82.9 68.6 103.0  
115 40.0 32.8 49.2

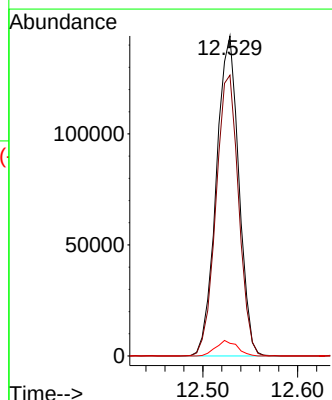
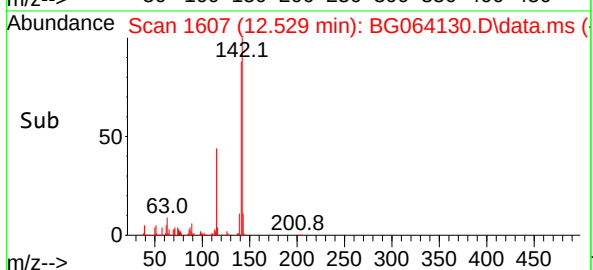
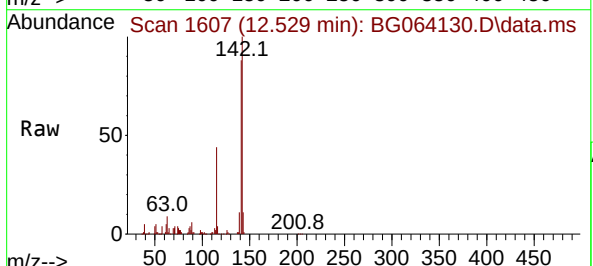
Manual Integrations  
APPROVED

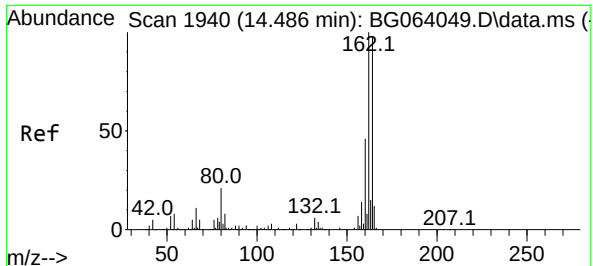
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#38  
1-Methylnaphthalene  
Concen: 40.916 ng  
RT: 12.529 min Scan# 1607  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Tgt Ion:142 Resp: 237894  
Ion Ratio Lower Upper  
142 100  
141 87.8 71.2 106.8  
116 3.9 3.6 5.4





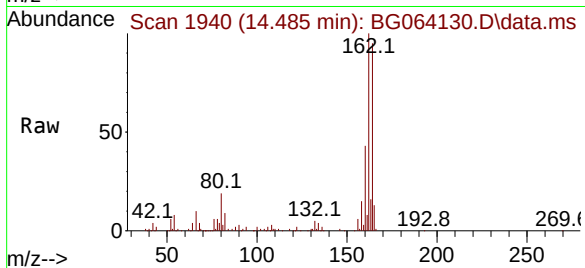
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.485 min Scan# 1940  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

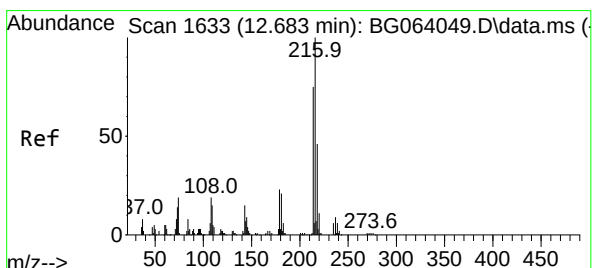
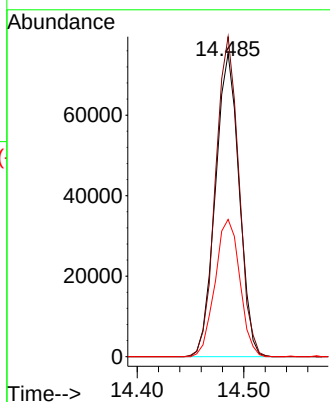
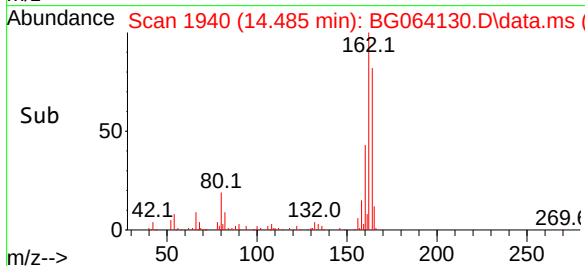


Tgt Ion:164 Resp: 116262  
Ion Ratio Lower Upper  
164 100  
162 105.6 81.4 122.0  
160 45.3 37.0 55.6

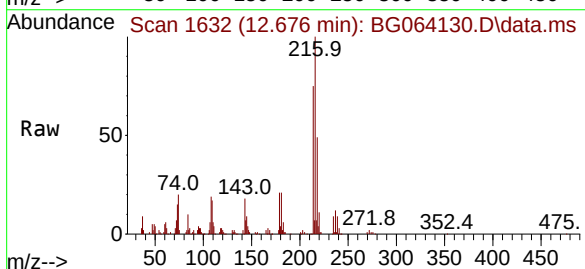
Manual Integrations

APPROVED

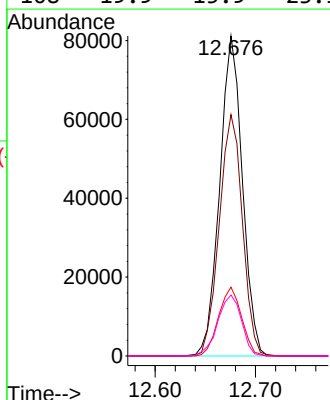
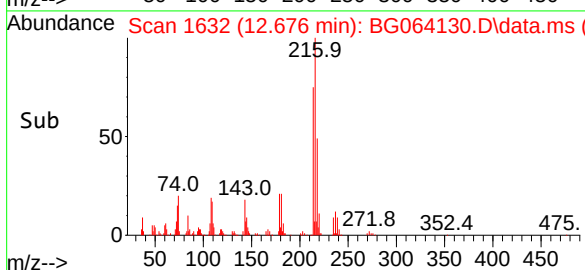
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

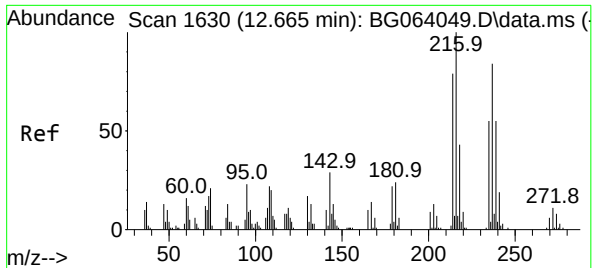


#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 38.365 ng  
RT: 12.676 min Scan# 1632  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38



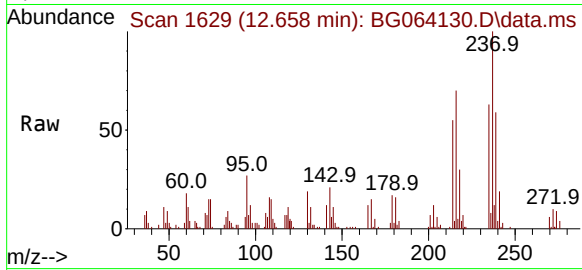
Tgt Ion:216 Resp: 127341  
Ion Ratio Lower Upper  
216 100  
214 76.8 61.7 92.5  
179 21.8 17.9 26.9  
108 19.9 15.9 23.9





#41  
Hexachlorocyclopentadiene  
Concen: 48.959 ng  
RT: 12.658 min Scan# 1629  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

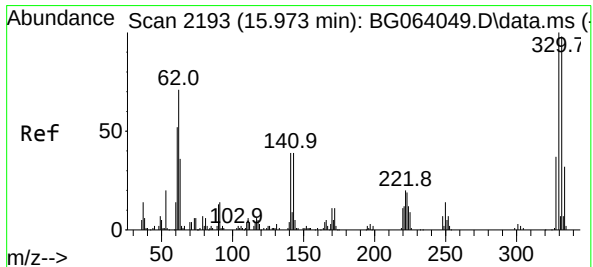
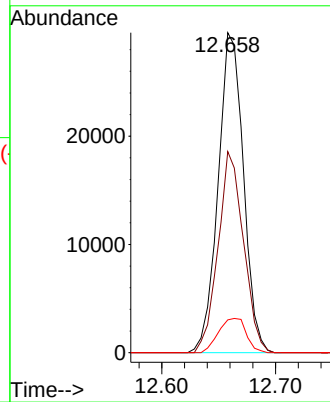
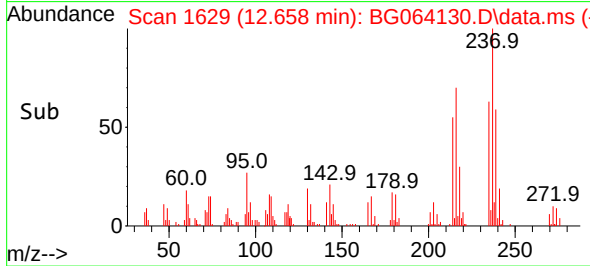
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



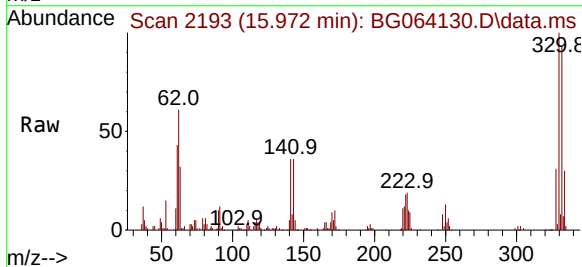
Tgt Ion: 237 Resp: 4573  
Ion Ratio Lower Upper  
237 100  
235 62.9 46.0 86.0  
272 10.2 0.0 32.8

Manual Integrations  
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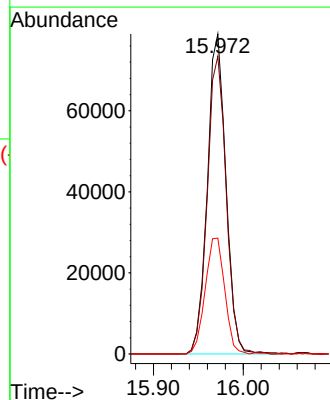
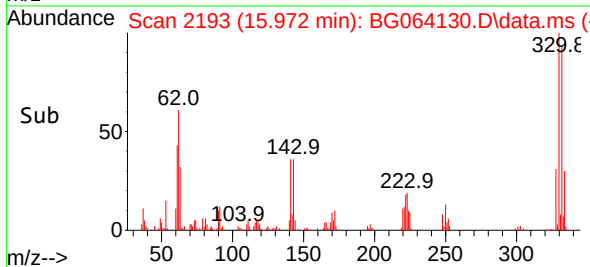
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

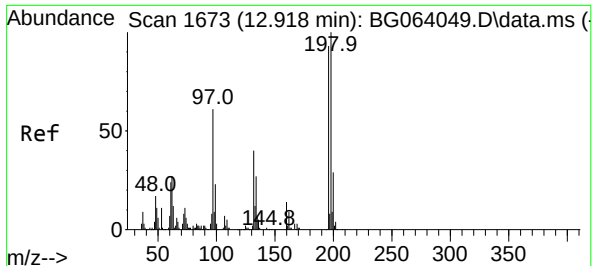


#42  
2,4,6-Tribromophenol  
Concen: 87.719 ng  
RT: 15.972 min Scan# 2193  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38



Tgt Ion: 330 Resp: 113362  
Ion Ratio Lower Upper  
330 100  
332 94.8 76.7 115.1  
141 37.9 29.7 44.5





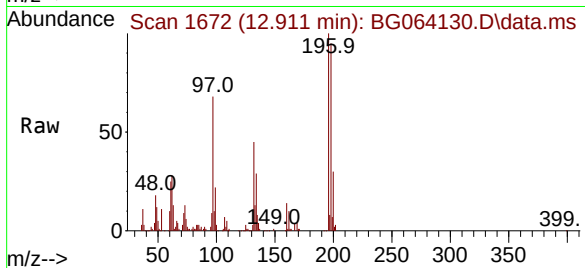
#43  
2,4,6-Trichlorophenol  
Concen: 40.932 ng  
RT: 12.911 min Scan# 1672  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

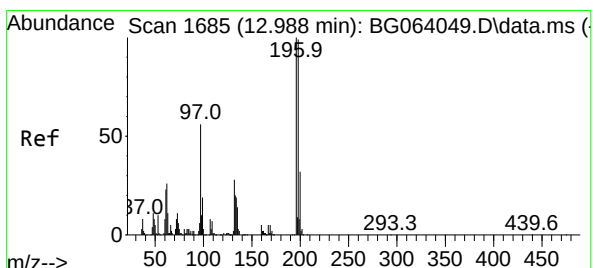
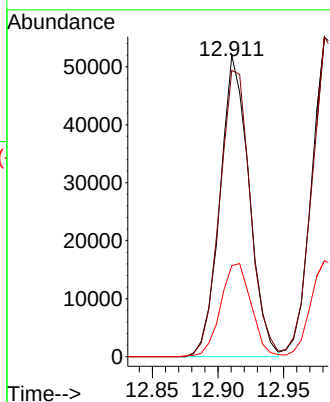
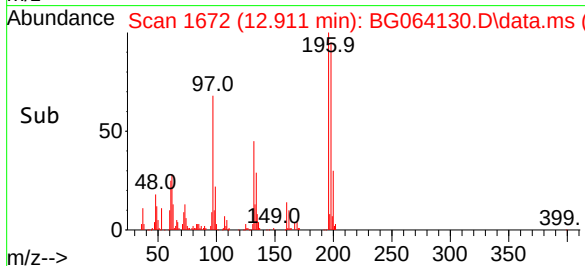


Tgt Ion:196 Resp: 80072  
Ion Ratio Lower Upper  
196 100  
198 95.0 85.6 128.4  
200 30.2 24.6 37.0

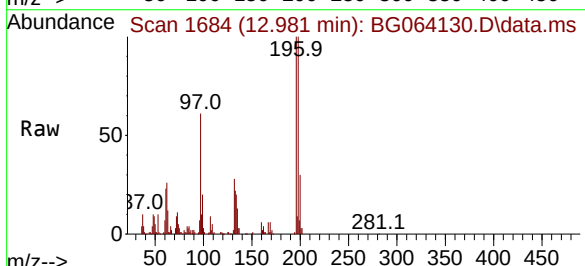
Manual Integrations

APPROVED

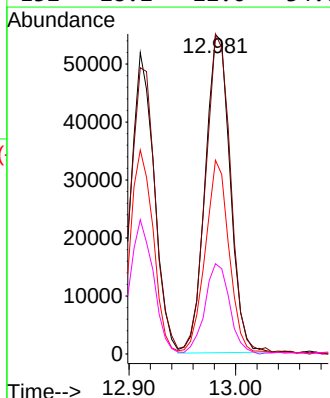
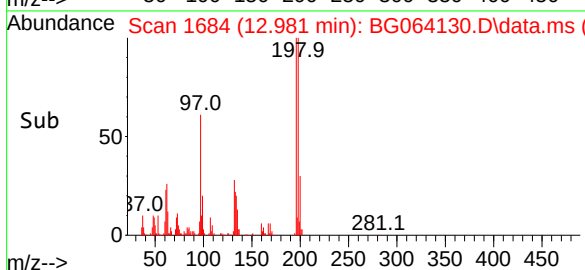
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

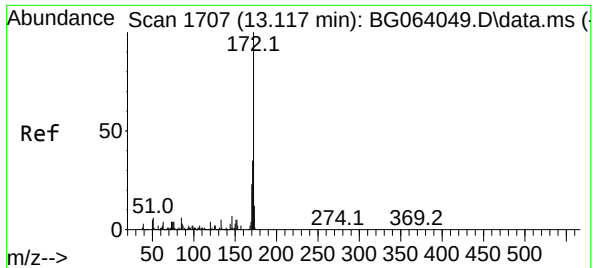


#44  
2,4,5-Trichlorophenol  
Concen: 40.950 ng  
RT: 12.981 min Scan# 1684  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38



Tgt Ion:196 Resp: 89010  
Ion Ratio Lower Upper  
196 100  
198 100.2 79.5 119.3  
97 60.6 45.2 67.8  
132 28.2 22.6 34.0





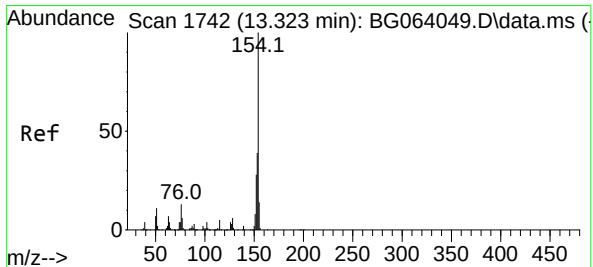
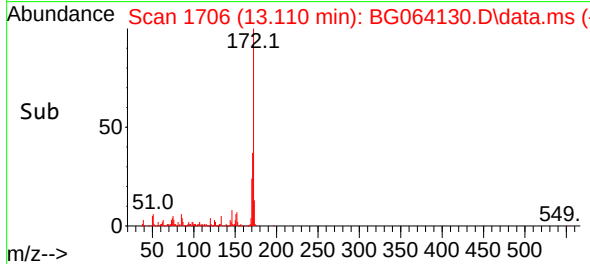
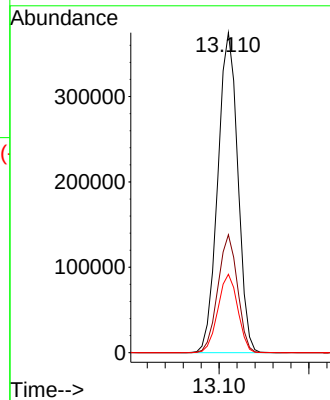
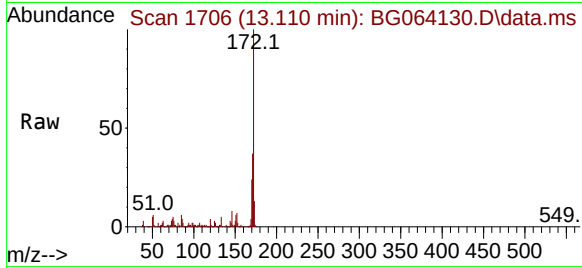
#45  
2-Fluorobiphenyl  
Concen: 75.620 ng  
RT: 13.110 min Scan# 1706  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040

Tgt Ion:172 Resp: 579214  
Ion Ratio Lower Upper  
172 100  
171 36.9 28.0 42.0  
170 24.5 18.7 28.1

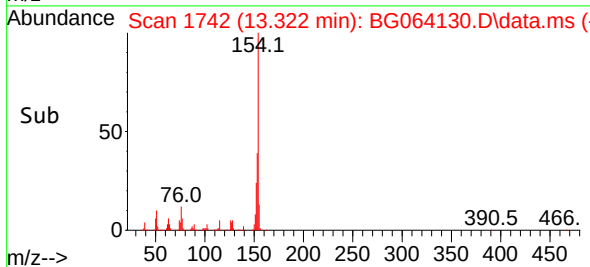
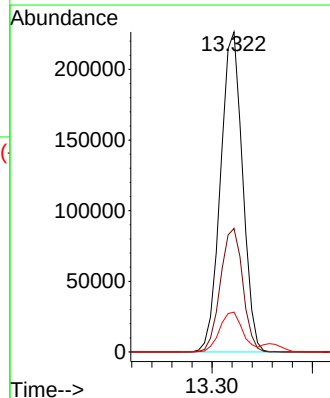
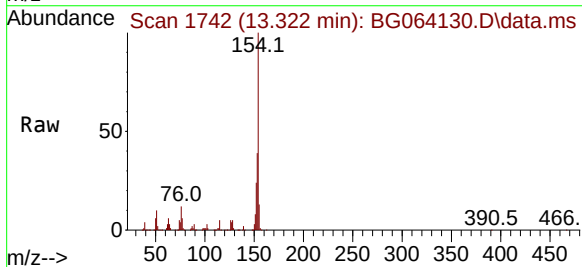
Manual Integrations  
APPROVED

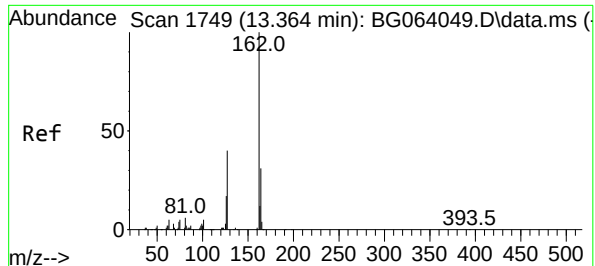
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#46  
1,1'-Biphenyl  
Concen: 39.084 ng  
RT: 13.322 min Scan# 1742  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

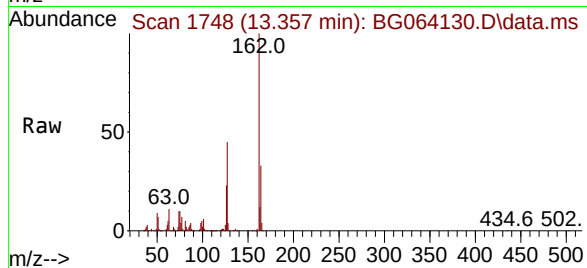
Tgt Ion:154 Resp: 343299  
Ion Ratio Lower Upper  
154 100  
153 38.6 19.5 59.5  
76 12.4 0.0 33.5





#47  
2-Chloronaphthalene  
Concen: 38.334 ng  
RT: 13.357 min Scan# 1748  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

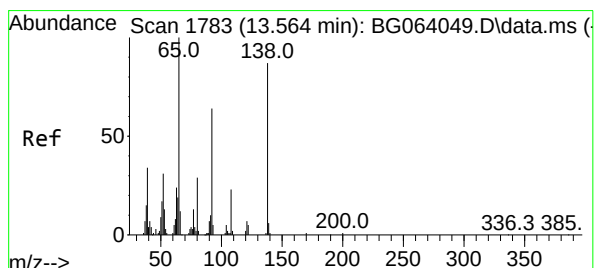
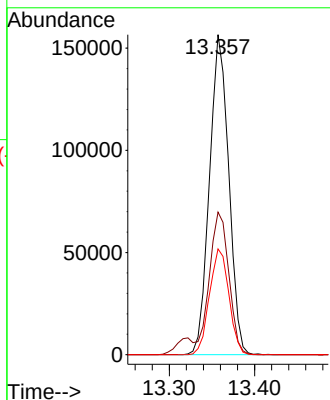
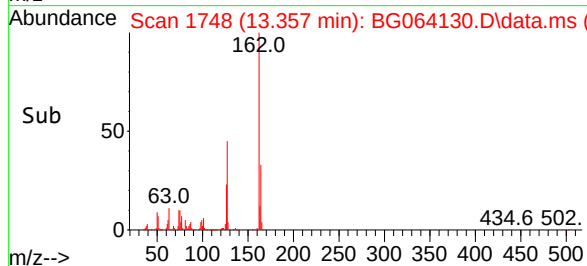
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



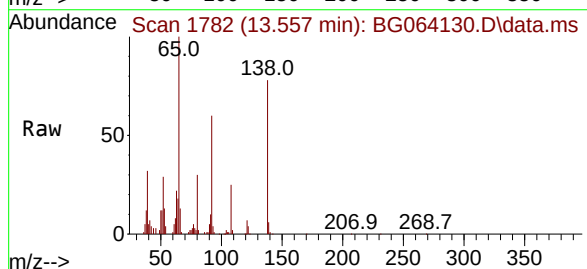
Tgt Ion: 162 Resp: 245574  
Ion Ratio Lower Upper  
162 100  
127 44.6 35.0 52.4  
164 33.1 25.0 37.6

Manual Integrations  
APPROVED

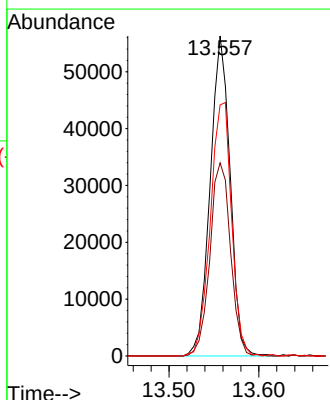
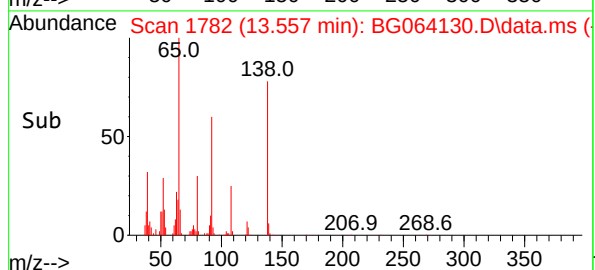
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

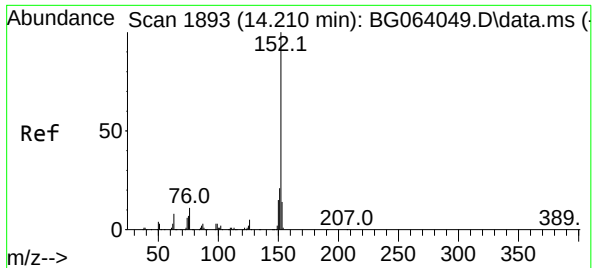


#48  
2-Nitroaniline  
Concen: 41.926 ng  
RT: 13.557 min Scan# 1782  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38



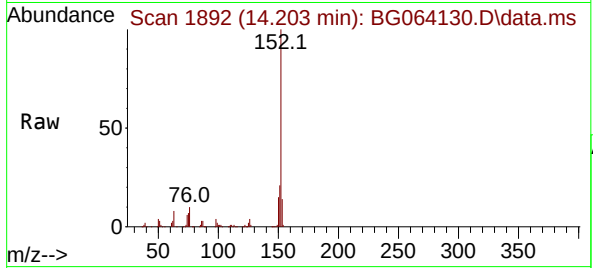
Tgt Ion: 65 Resp: 86671  
Ion Ratio Lower Upper  
65 100  
92 60.4 51.2 76.8  
138 78.5 69.4 104.2





#49  
Acenaphthylene  
Concen: 38.588 ng  
RT: 14.203 min Scan# 1892  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

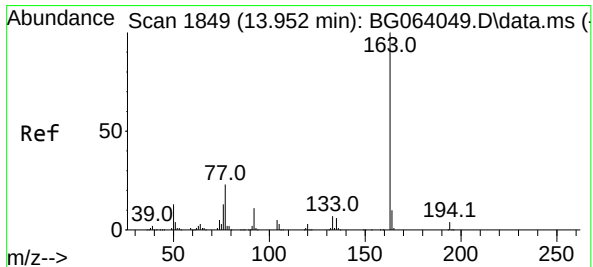
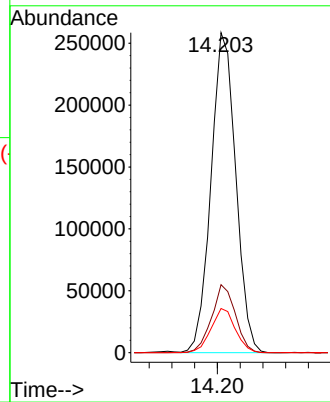
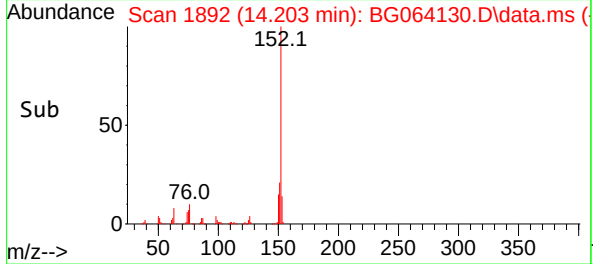
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:152 Resp: 391000  
Ion Ratio Lower Upper  
152 100  
151 21.2 16.4 24.6  
153 13.8 10.9 16.3

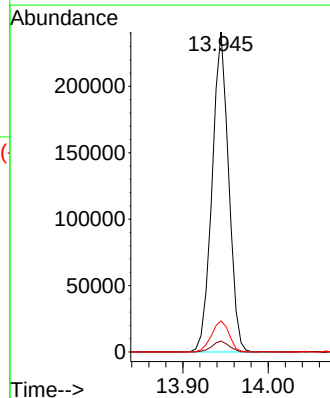
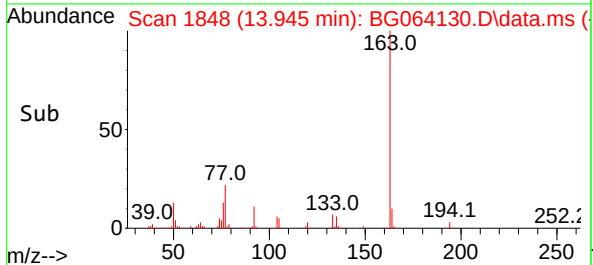
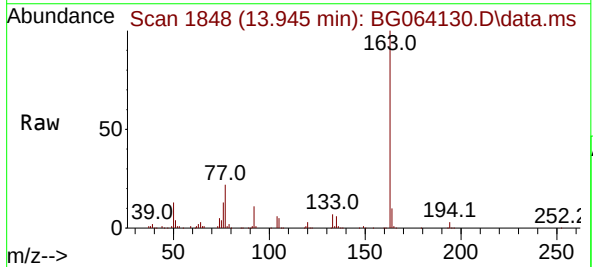
Manual Integrations  
**APPROVED**

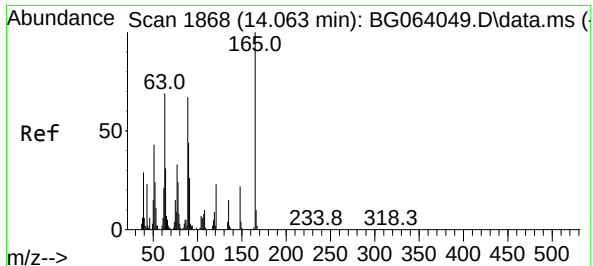
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#50  
Dimethylphthalate  
Concen: 37.720 ng  
RT: 13.945 min Scan# 1848  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

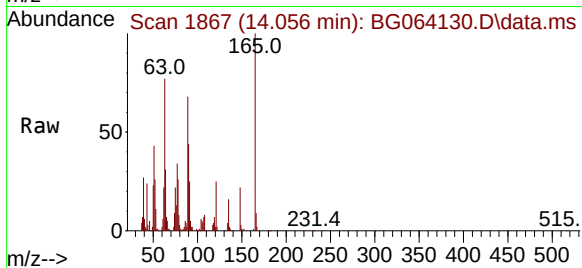
Tgt Ion:163 Resp: 323722  
Ion Ratio Lower Upper  
163 100  
194 3.4 2.8 4.2  
164 9.7 8.2 12.2





#51  
2,6-Dinitrotoluene  
Concen: 40.502 ng  
RT: 14.056 min Scan# 1867  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

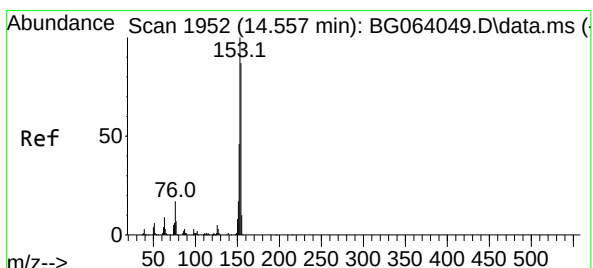
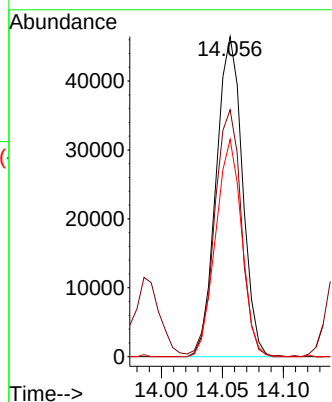
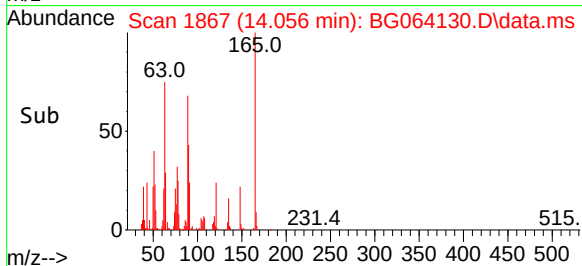
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



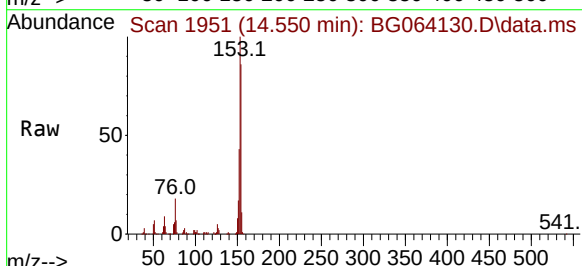
Tgt Ion:165 Resp: 69530  
Ion Ratio Lower Upper  
165 100  
63 77.2 56.7 85.1  
89 67.9 53.7 80.5

Manual Integrations  
APPROVED

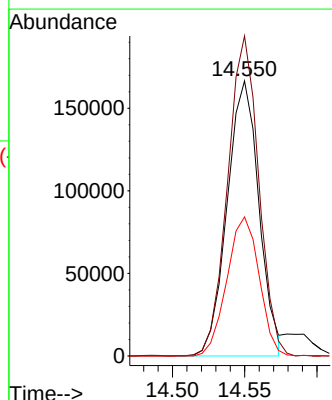
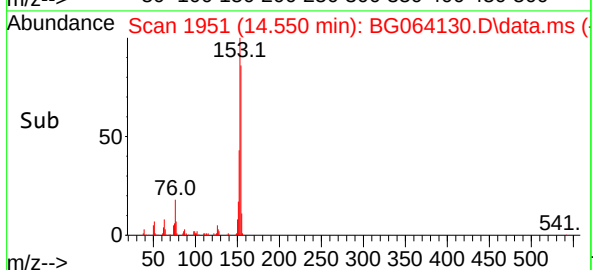
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



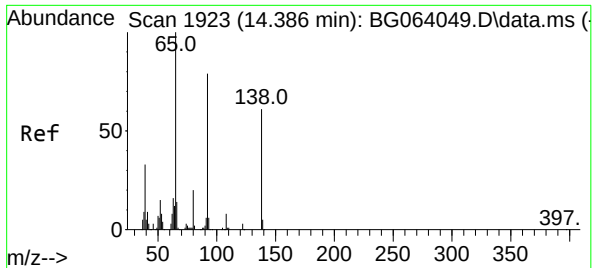
#52  
Acenaphthene  
Concen: 37.546 ng m  
RT: 14.550 min Scan# 1951  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38



Tgt Ion:154 Resp: 255324  
Ion Ratio Lower Upper  
154 100  
153 116.3 91.6 137.4  
152 50.5 42.5 63.7

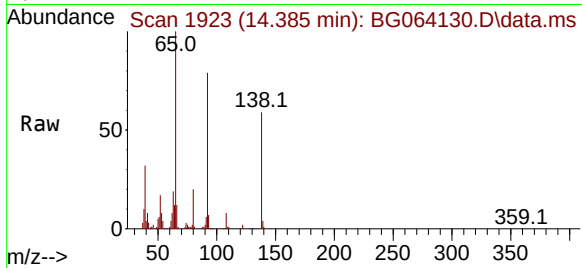






#53  
3-Nitroaniline  
Concen: 41.772 ng  
RT: 14.385 min Scan# 1923  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

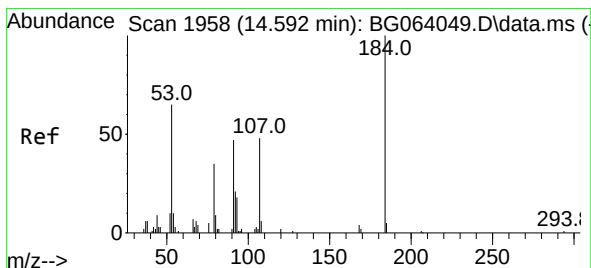
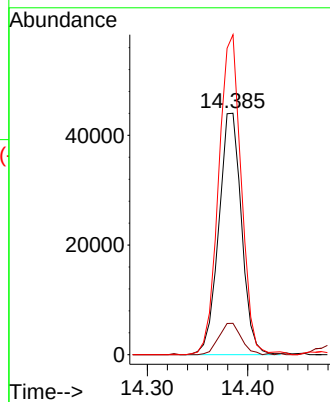
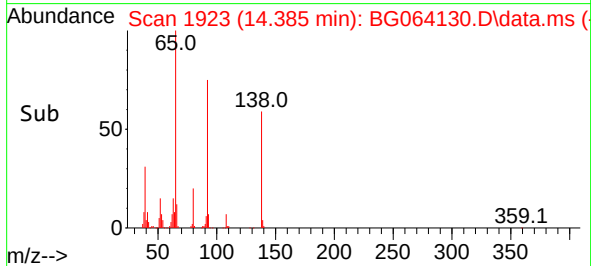
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:138 Resp: 6928  
Ion Ratio Lower Upper  
138 100  
108 13.0 10.1 15.1  
92 132.5 104.1 156.1

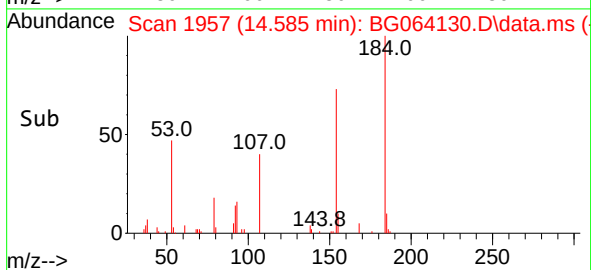
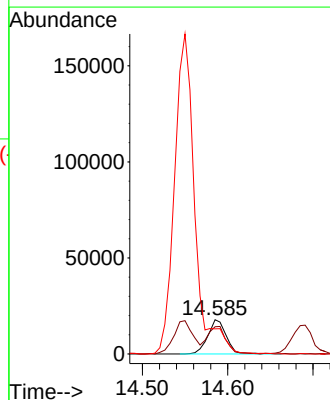
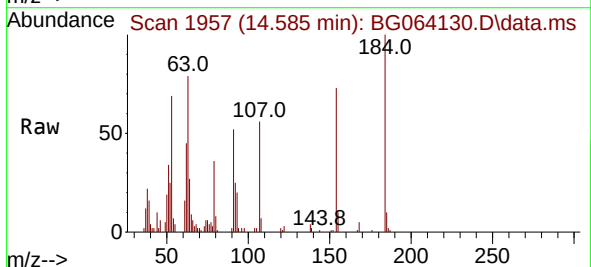
Manual Integrations  
APPROVED

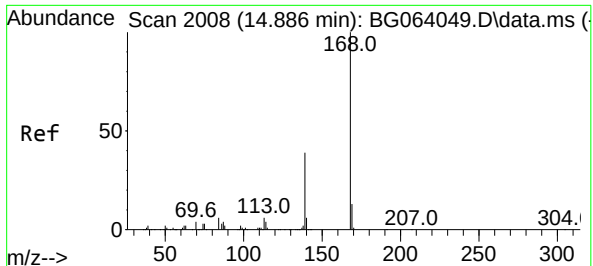
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#54  
2,4-Dinitrophenol  
Concen: 41.200 ng  
RT: 14.585 min Scan# 1957  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

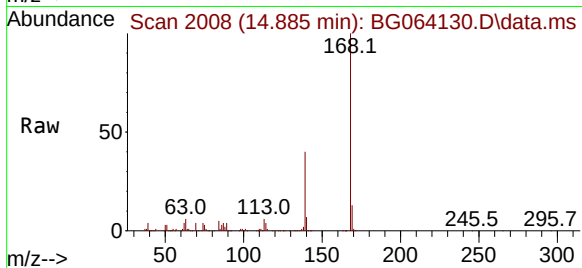
Tgt Ion:184 Resp: 26830  
Ion Ratio Lower Upper  
184 100  
63 79.2 57.5 86.3  
154 73.1 52.3 78.5





#55  
Dibenzenofuran  
Concen: 37.949 ng  
RT: 14.885 min Scan# 2008  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

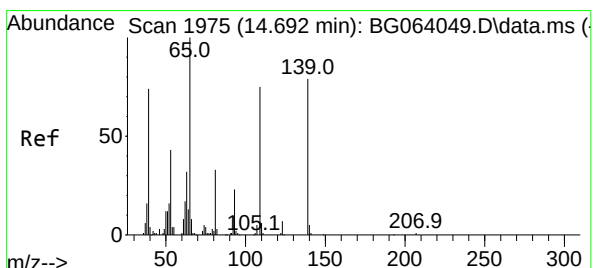
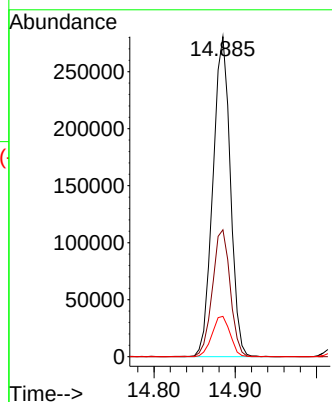
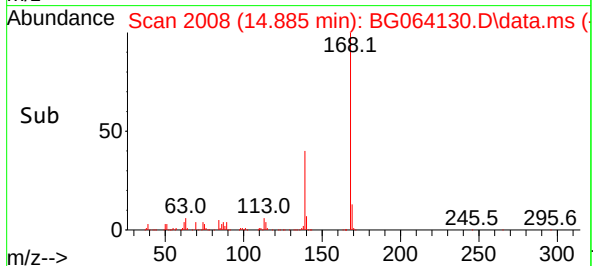
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:168 Resp: 418054  
Ion Ratio Lower Upper  
168 100  
139 39.7 31.1 46.7  
169 12.6 10.5 15.7

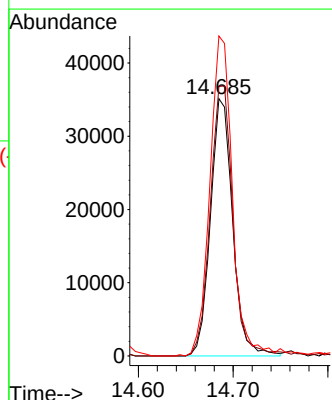
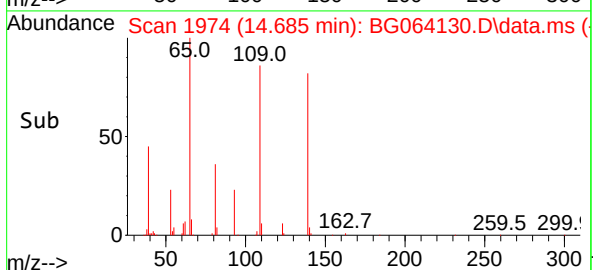
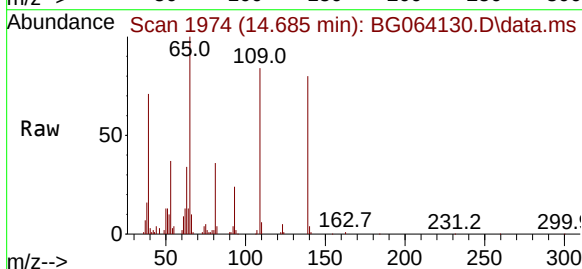
Manual Integrations  
APPROVED

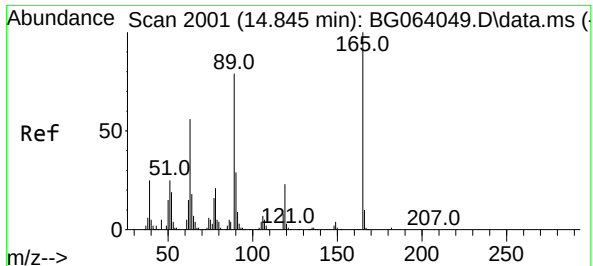
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#56  
4-Nitrophenol  
Concen: 41.052 ng  
RT: 14.685 min Scan# 1974  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Tgt Ion:139 Resp: 57108  
Ion Ratio Lower Upper  
139 100  
109 104.7 74.9 114.9  
65 124.4 106.8 146.8





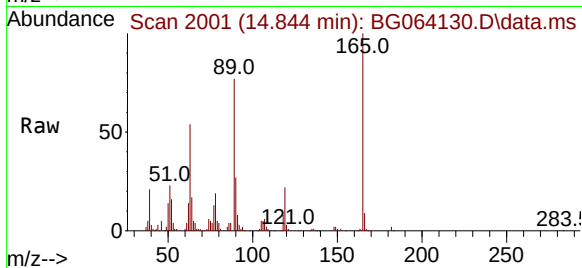
#57  
2,4-Dinitrotoluene  
Concen: 40.317 ng  
RT: 14.844 min Scan# 2001  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

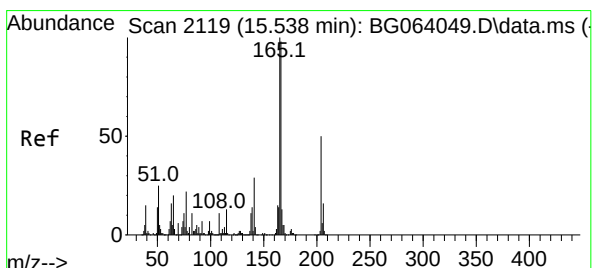
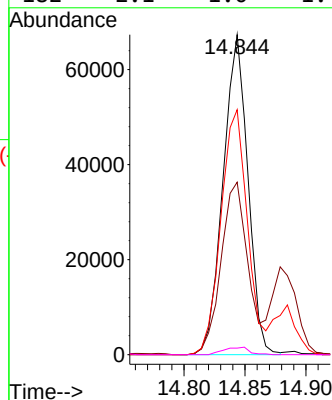
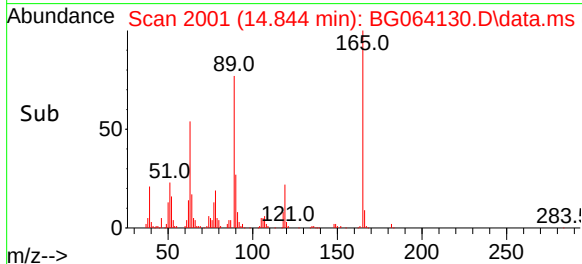


Tgt Ion:165 Resp: 95339  
Ion Ratio Lower Upper  
165 100  
63 53.9 45.0 67.6  
89 76.6 63.1 94.7  
182 2.1 1.0 1.4#

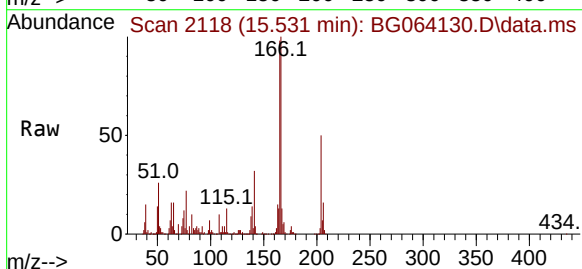
Manual Integrations

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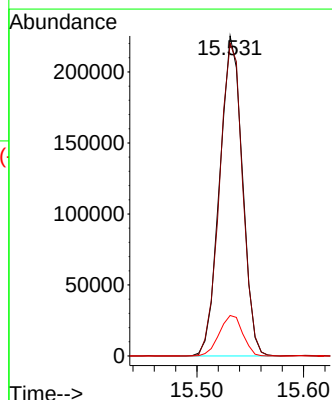
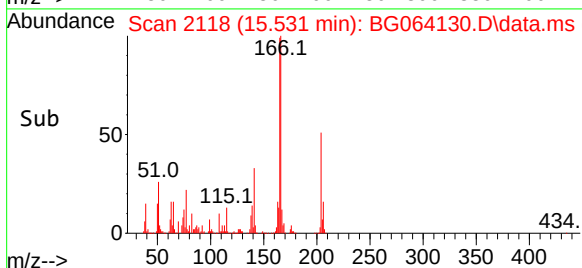
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

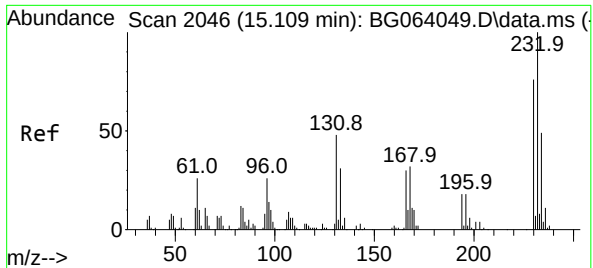


#58  
Fluorene  
Concen: 38.780 ng  
RT: 15.531 min Scan# 2118  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38



Tgt Ion:166 Resp: 332741  
Ion Ratio Lower Upper  
166 100  
165 97.7 81.8 122.8  
167 12.7 10.8 16.2





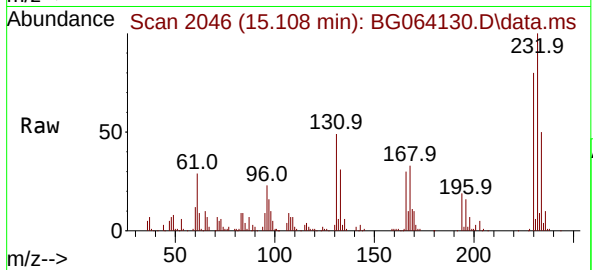
#59  
2,3,4,6-Tetrachlorophenol  
Concen: 41.360 ng  
RT: 15.108 min Scan# 2046  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

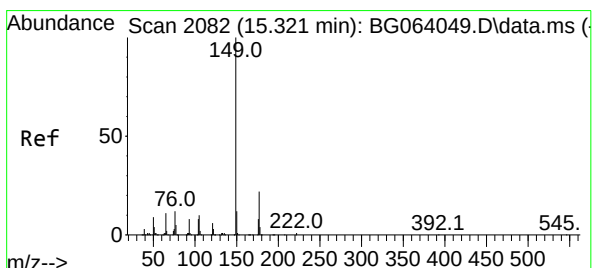
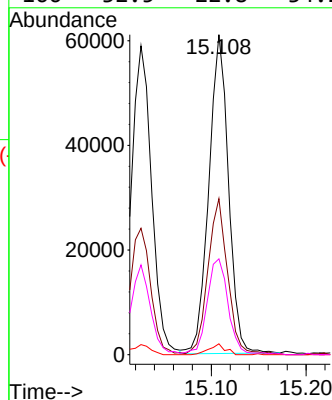
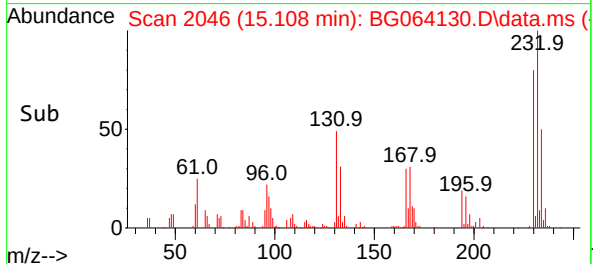


Tgt Ion:232 Resp: 87645  
Ion Ratio Lower Upper  
232 100  
131 49.2 36.3 54.5  
130 2.8 1.9 2.9  
166 32.5 22.8 34.2

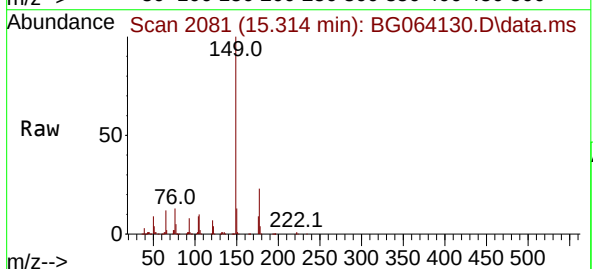
Manual Integrations

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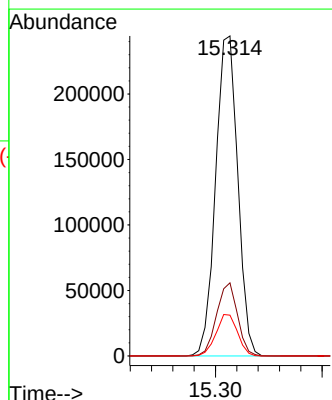
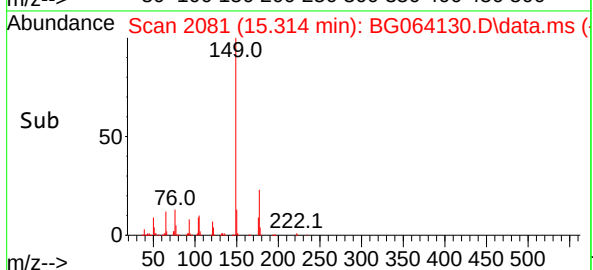
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

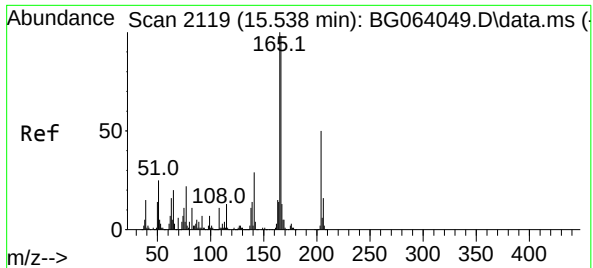


#60  
Diethylphthalate  
Concen: 37.699 ng  
RT: 15.314 min Scan# 2081  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38



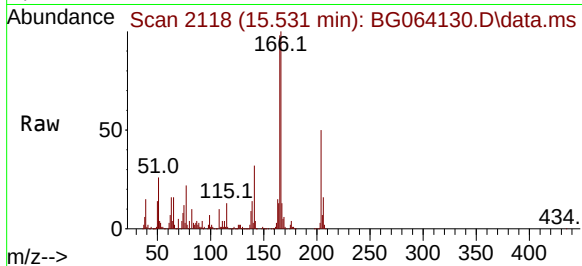
Tgt Ion:149 Resp: 351236  
Ion Ratio Lower Upper  
149 100  
177 22.9 17.4 26.2  
150 12.8 9.4 14.2





#61  
4-Chlorophenyl-phenylether  
Concen: 38.708 ng  
RT: 15.531 min Scan# 2118  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

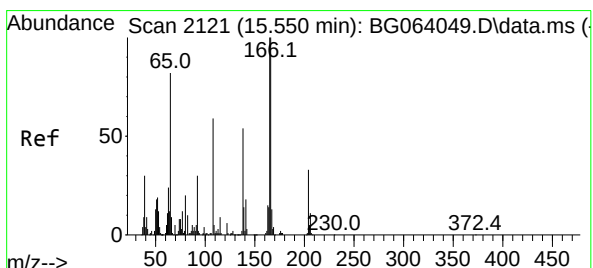
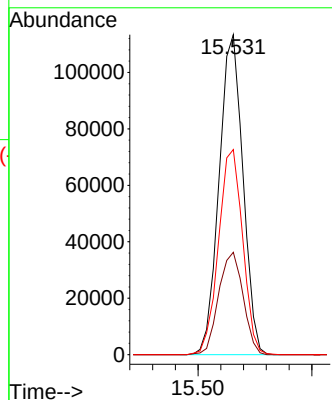
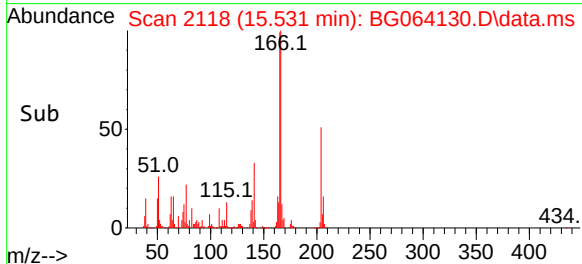
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:204 Resp: 16504  
Ion Ratio Lower Upper  
204 100  
206 32.0 25.5 38.3  
141 64.1 45.4 68.0

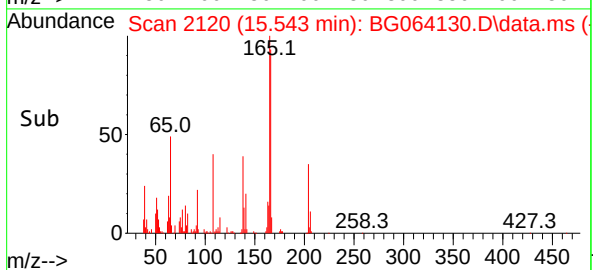
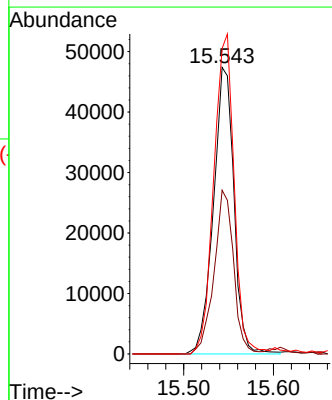
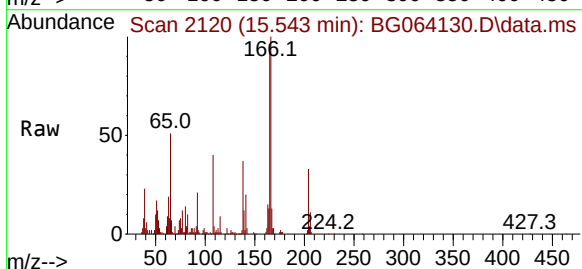
Manual Integrations  
APPROVED

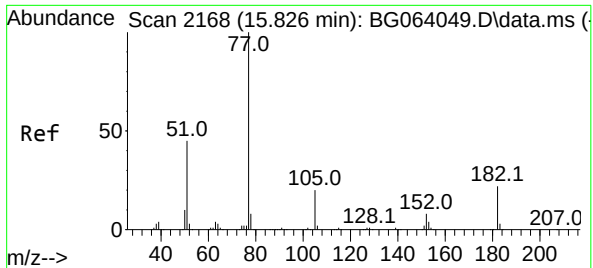
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#62  
4-Nitroaniline  
Concen: 41.984 ng  
RT: 15.543 min Scan# 2120  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Tgt Ion:138 Resp: 75185  
Ion Ratio Lower Upper  
138 100  
92 57.1 36.1 76.1  
108 106.6 87.9 127.9





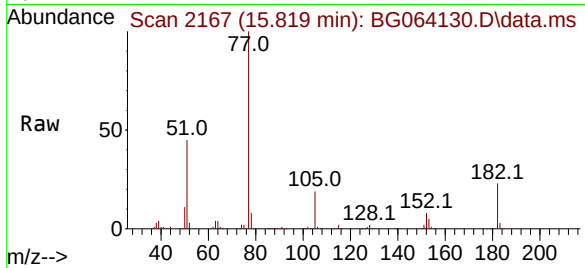
#63  
Azobenzene  
Concen: 36.371 ng  
RT: 15.819 min Scan# 2167  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

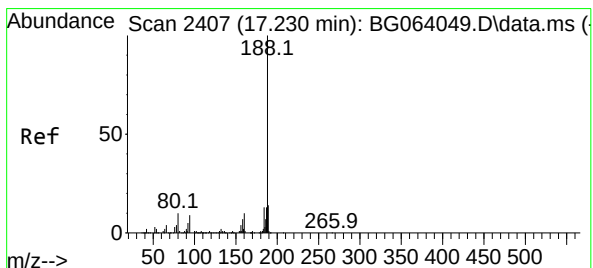
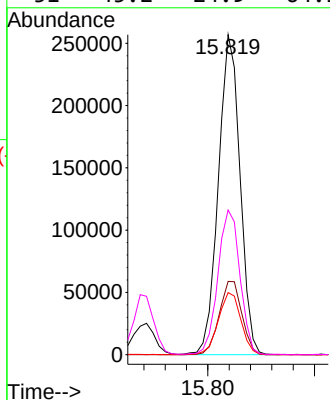
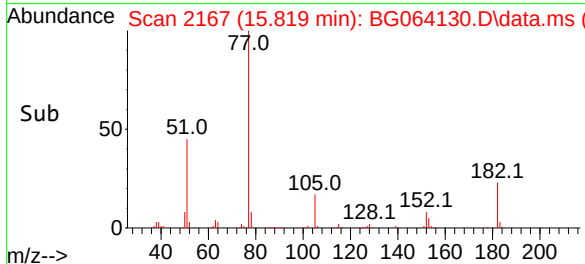


Tgt Ion: 77 Resp: 361599  
Ion Ratio Lower Upper  
77 100  
182 22.9 2.4 42.4  
105 19.4 0.0 40.0  
51 45.2 24.9 64.9

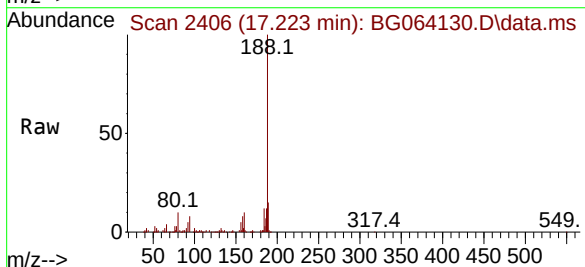
Manual Integrations

APPROVED

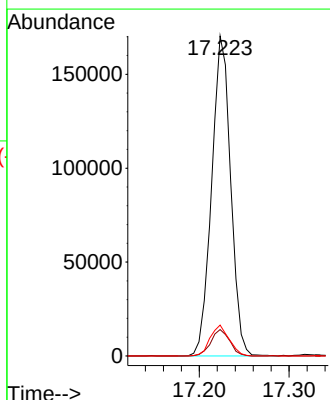
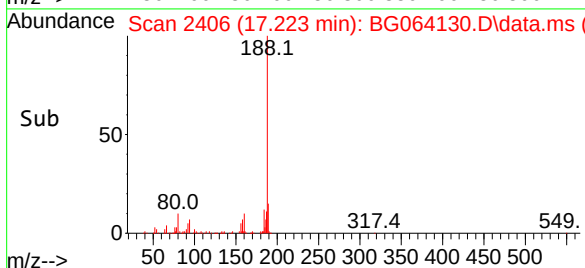
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

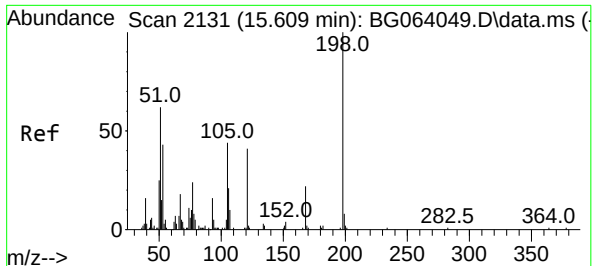


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.223 min Scan# 2406  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38



Tgt Ion:188 Resp: 250435  
Ion Ratio Lower Upper  
188 100  
94 8.2 6.9 10.3  
80 9.7 8.1 12.1





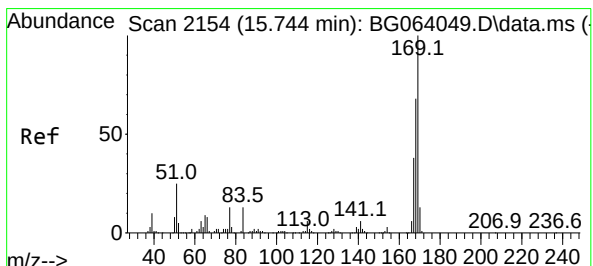
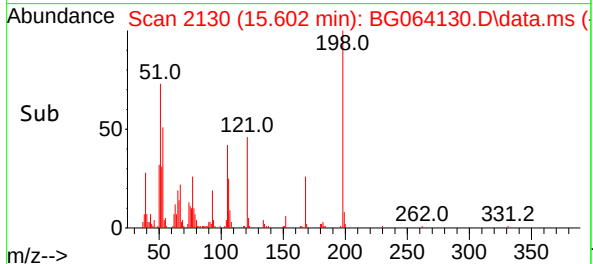
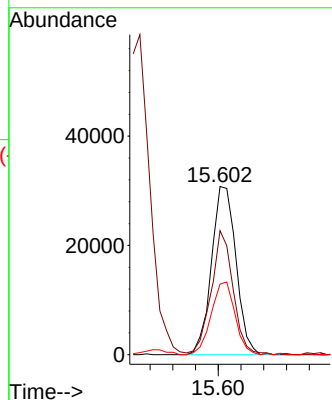
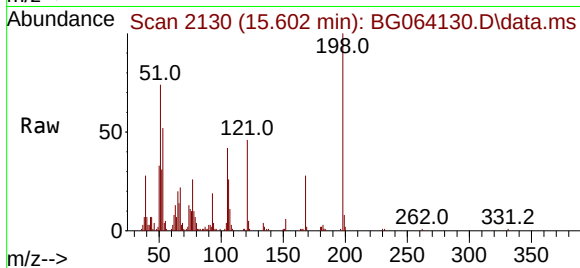
#65  
4,6-Dinitro-2-methylphenol  
Concen: 43.534 ng  
RT: 15.602 min Scan# 2130  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040

Tgt Ion:198 Resp: 4610  
Ion Ratio Lower Upper  
198 100  
51 73.8 45.6 85.6  
105 42.0 25.3 65.3

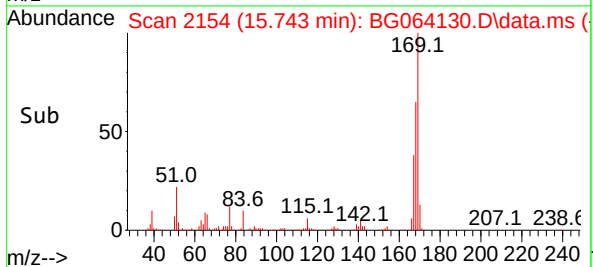
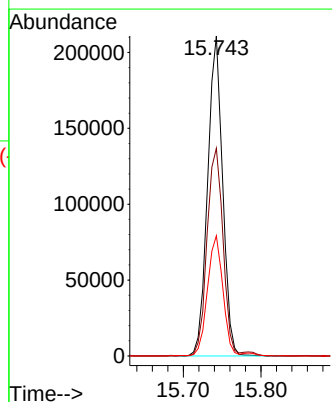
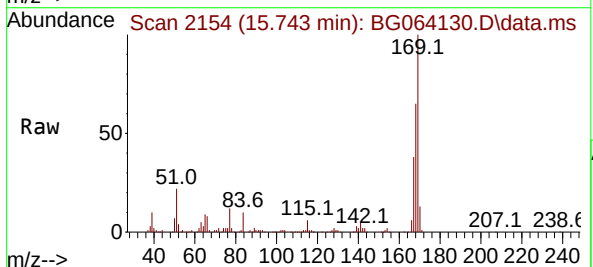
Manual Integrations  
APPROVED

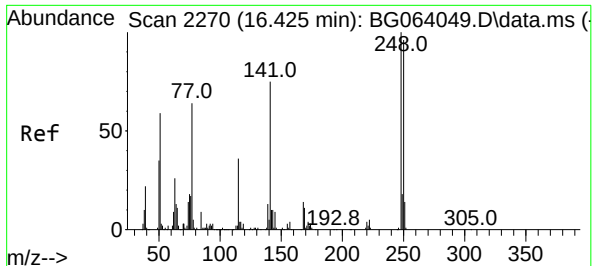
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#66  
n-Nitrosodiphenylamine  
Concen: 39.898 ng  
RT: 15.743 min Scan# 2154  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

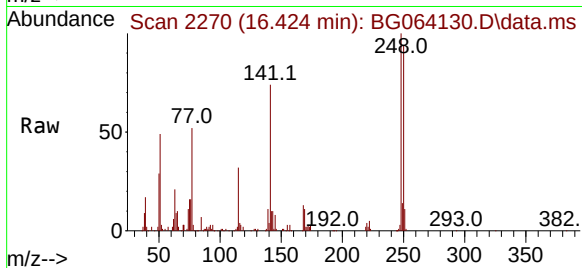
Tgt Ion:169 Resp: 282830  
Ion Ratio Lower Upper  
169 100  
168 64.9 54.1 81.1  
167 37.6 30.3 45.5





#67  
4-Bromophenyl-phenylether  
Concen: 41.896 ng  
RT: 16.424 min Scan# 21  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

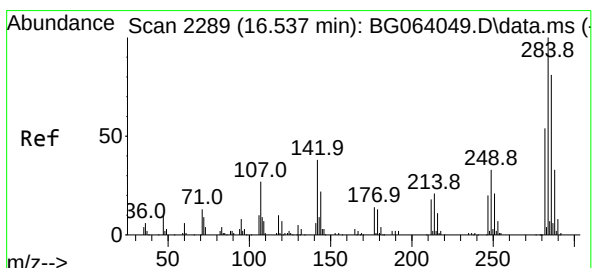
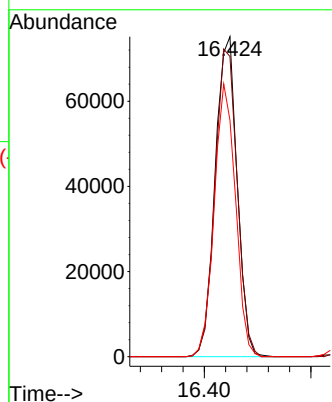
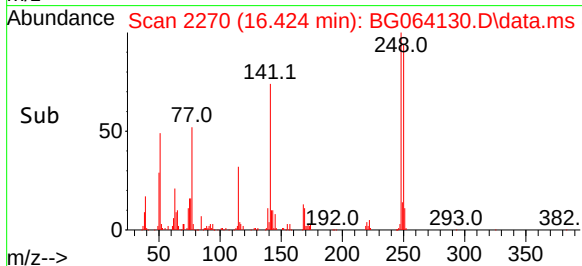
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



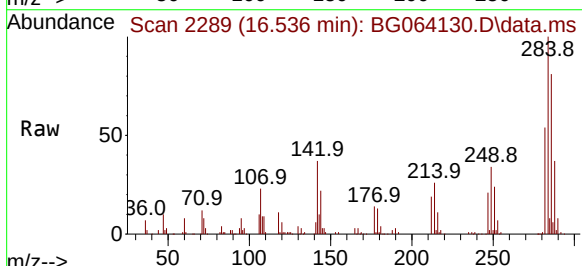
Tgt Ion:248 Resp: 10746  
Ion Ratio Lower Upper  
248 100  
250 93.8 77.1 115.7  
141 73.9 59.8 89.8

Manual Integrations  
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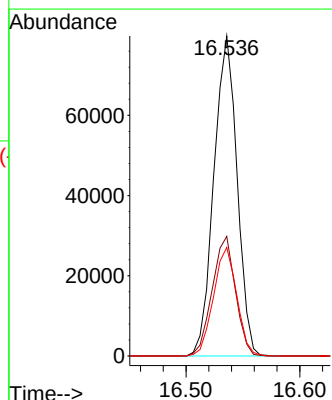
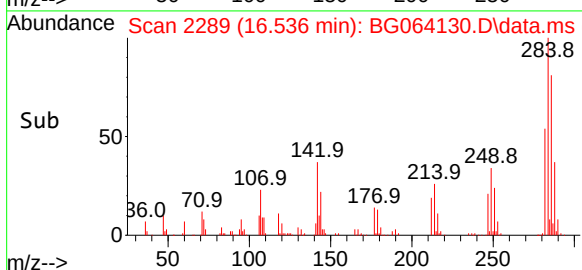
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



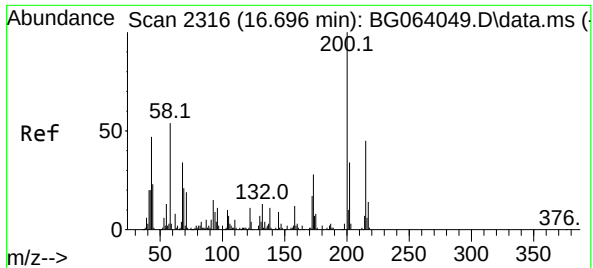
#68  
Hexachlorobenzene  
Concen: 39.358 ng  
RT: 16.536 min Scan# 2289  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38



Tgt Ion:284 Resp: 113017  
Ion Ratio Lower Upper  
284 100  
142 37.3 30.6 45.8  
249 33.9 26.6 39.8

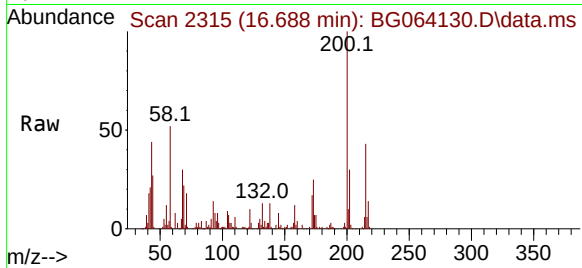






#69  
Atrazine  
Concen: 34.958 ng  
RT: 16.688 min Scan# 2115  
Delta R.T. -0.008 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

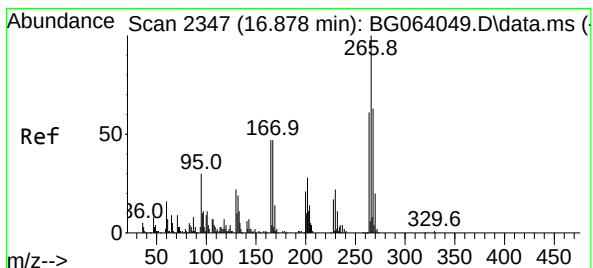
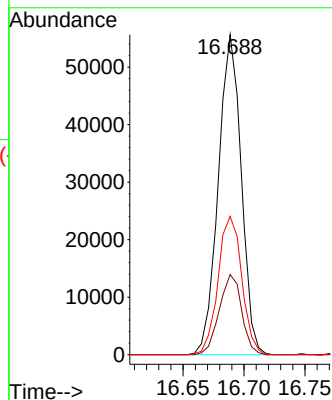
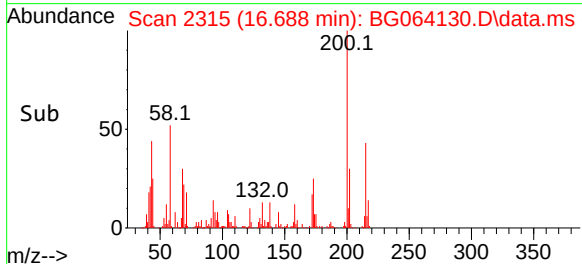
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:200 Resp: 72915  
Ion Ratio Lower Upper  
200 100  
173 25.1 8.2 48.2  
215 43.2 25.5 65.5

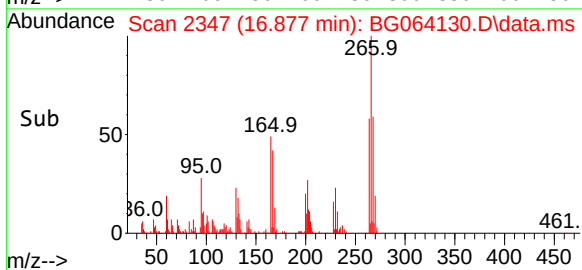
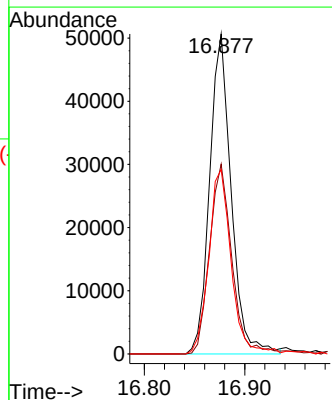
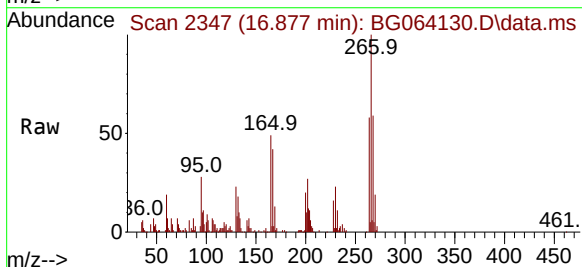
Manual Integrations  
APPROVED

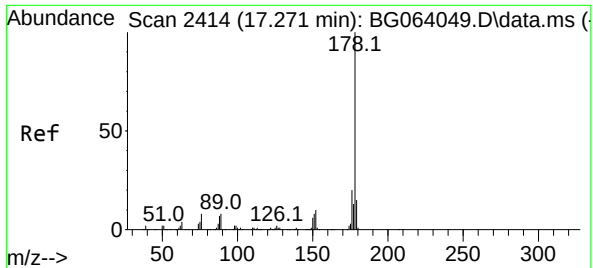
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#70  
Pentachlorophenol  
Concen: 42.485 ng  
RT: 16.877 min Scan# 2347  
Delta R.T. -0.002 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

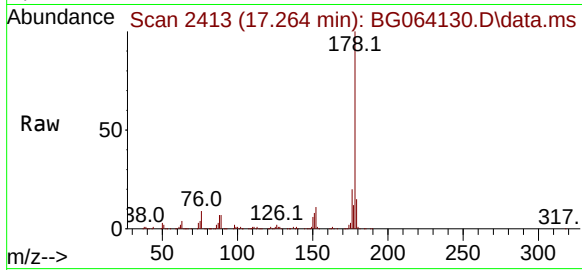
Tgt Ion:266 Resp: 75747  
Ion Ratio Lower Upper  
266 100  
268 59.3 50.2 75.4  
264 57.6 48.9 73.3





#71  
Phenanthrene  
Concen: 38.446 ng  
RT: 17.264 min Scan# 2414  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

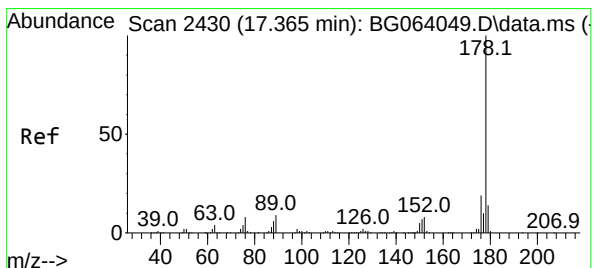
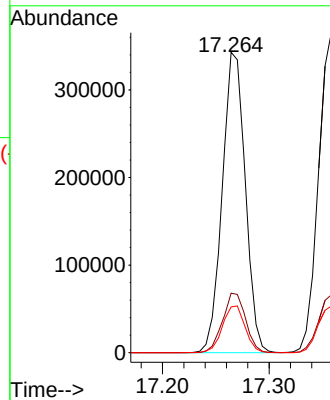
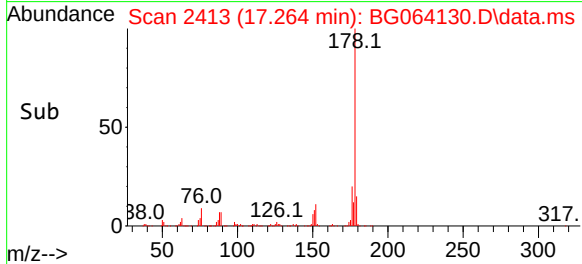
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:178 Resp: 51355  
Ion Ratio Lower Upper  
178 100  
176 19.8 15.9 23.9  
179 15.2 12.2 18.2

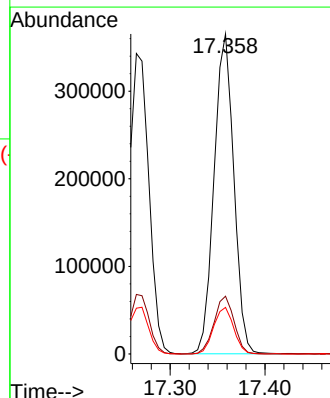
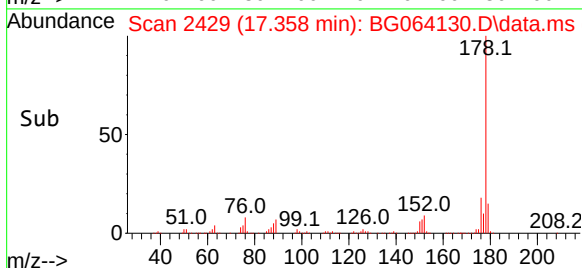
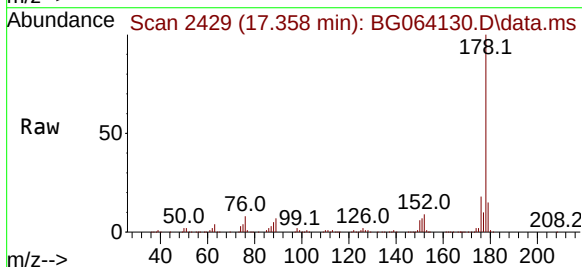
Manual Integrations  
APPROVED

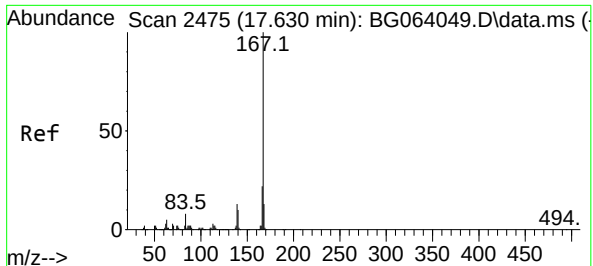
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#72  
Anthracene  
Concen: 39.748 ng  
RT: 17.358 min Scan# 2429  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

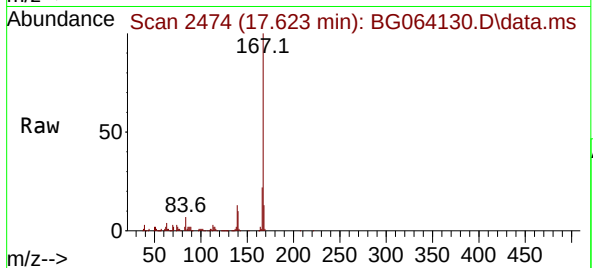
Tgt Ion:178 Resp: 527940  
Ion Ratio Lower Upper  
178 100  
176 18.1 14.8 22.2  
179 14.6 11.5 17.3





#73  
 Carbazole  
 Concen: 38.352 ng  
 RT: 17.623 min Scan# 2475  
 Delta R.T. -0.007 min  
 Lab File: BG064130.D  
 Acq: 1 Apr 2025 11:38

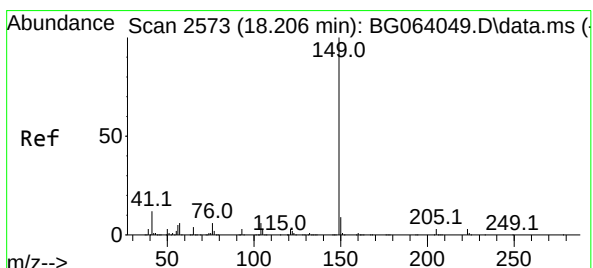
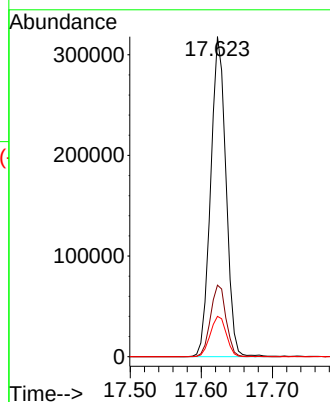
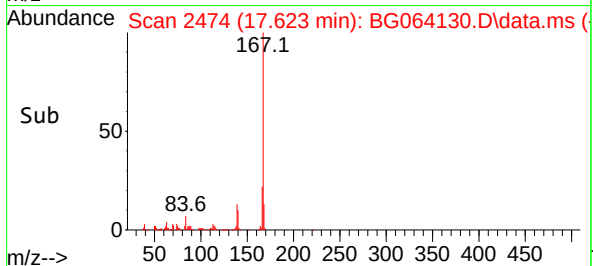
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTDCCC040



Tgt Ion:167 Resp: 47561  
 Ion Ratio Lower Upper  
 167 100  
 166 22.4 18.0 27.0  
 139 12.6 10.6 15.8

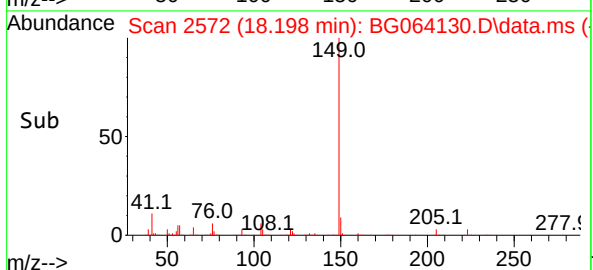
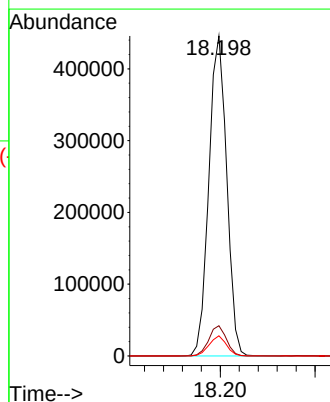
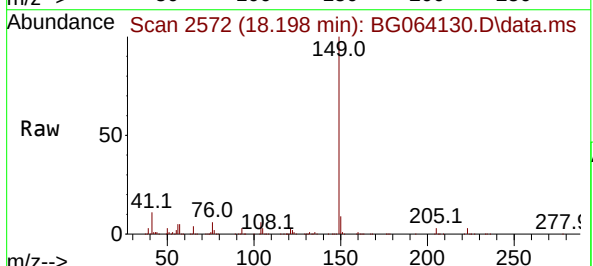
Manual Integrations  
 APPROVED

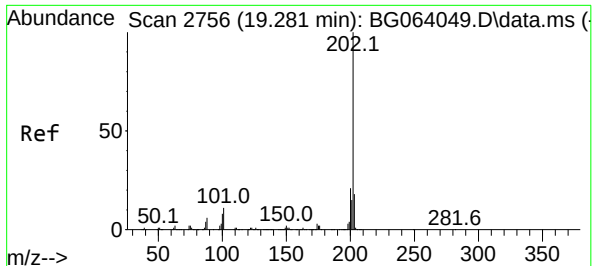
Reviewed By :Anahy Claudio 04/02/2025  
 Supervised By :Jagrut Upadhyay 04/02/2025



#74  
 Di-n-butylphthalate  
 Concen: 39.790 ng  
 RT: 18.198 min Scan# 2572  
 Delta R.T. -0.007 min  
 Lab File: BG064130.D  
 Acq: 1 Apr 2025 11:38

Tgt Ion:149 Resp: 580832  
 Ion Ratio Lower Upper  
 149 100  
 150 9.5 7.4 11.0  
 104 6.3 5.0 7.6





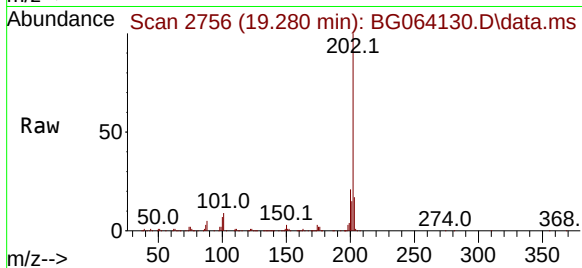
#75  
Fluoranthene  
Concen: 37.548 ng  
RT: 19.280 min Scan# 21  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

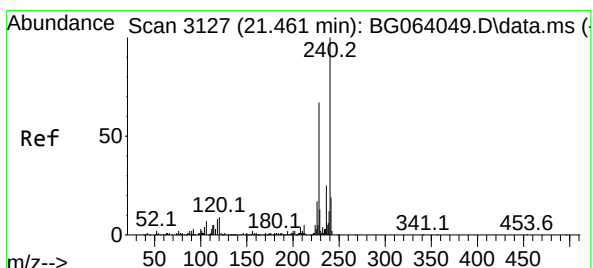
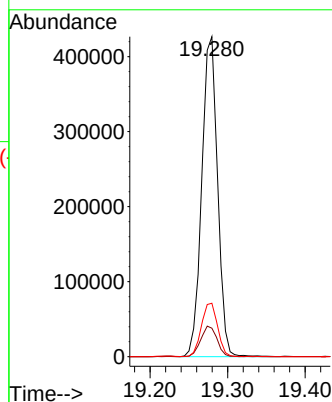
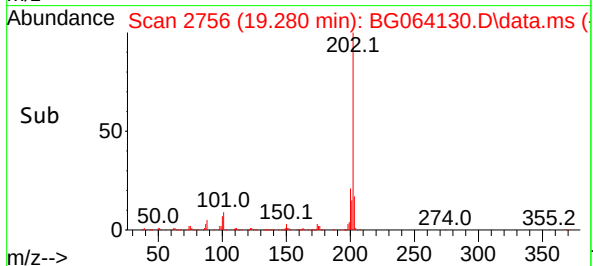


Tgt Ion:202 Resp: 60465  
Ion Ratio Lower Upper  
202 100  
101 8.9 0.0 30.5  
203 16.7 0.0 38.3

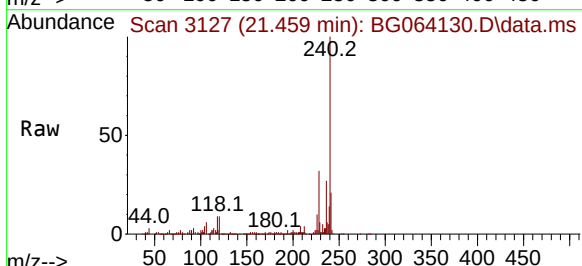
Manual Integrations

APPROVED

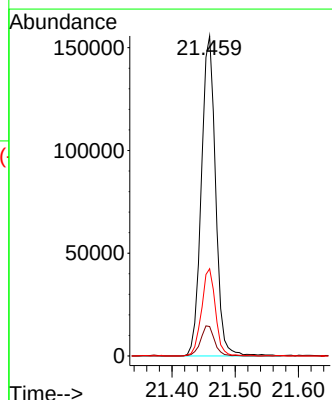
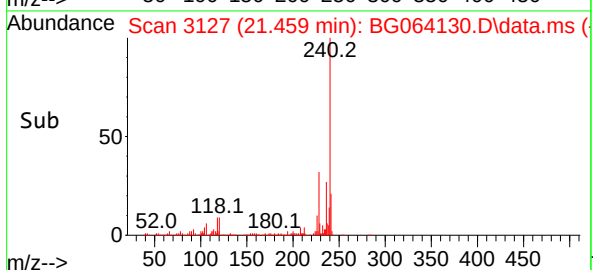
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

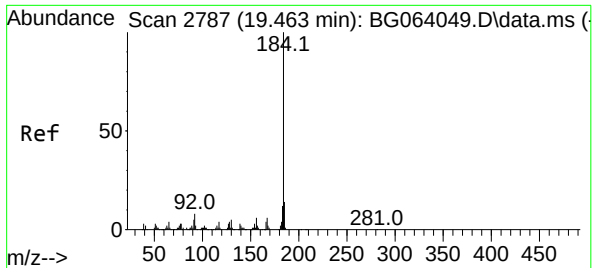


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.459 min Scan# 3127  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38



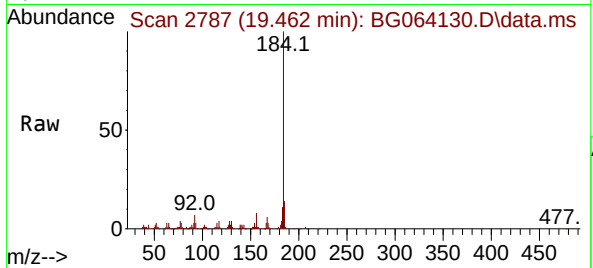
Tgt Ion:240 Resp: 243510  
Ion Ratio Lower Upper  
240 100  
120 9.2 7.2 10.8  
236 27.3 20.2 30.2





#77  
Benzidine  
Concen: 55.118 ng  
RT: 19.462 min Scan# 21  
Delta R.T. -0.001 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

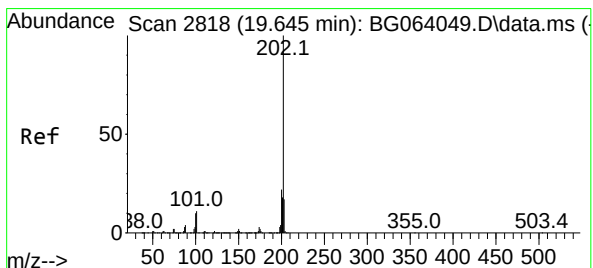
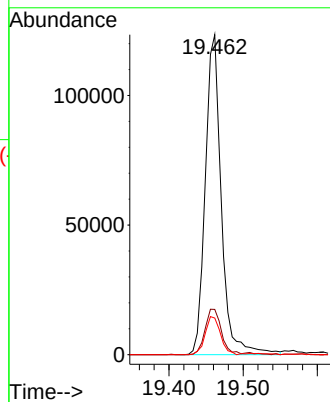
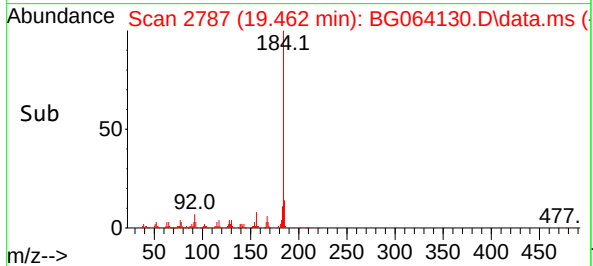
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:184 Resp: 18585  
Ion Ratio Lower Upper  
184 100  
185 14.2 11.3 16.9  
183 11.4 9.5 14.3

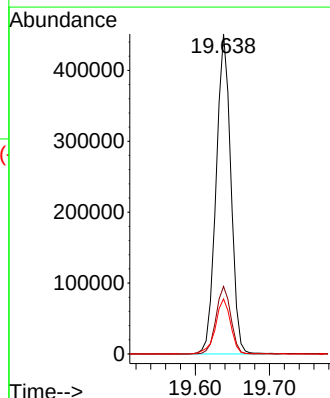
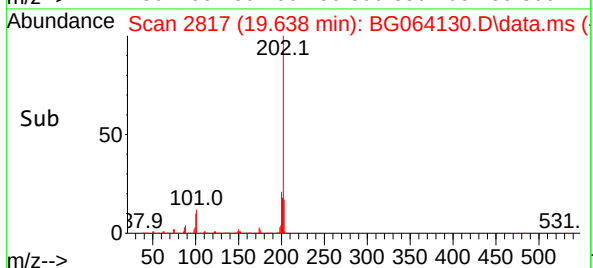
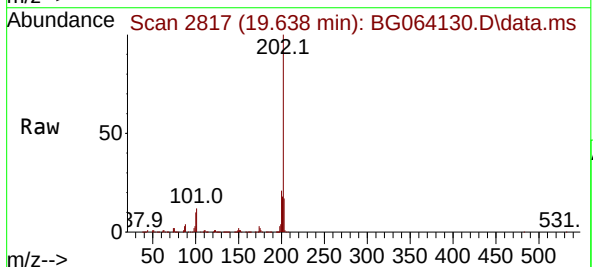
Manual Integrations  
**APPROVED**

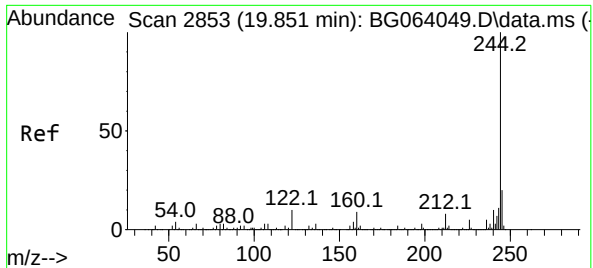
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#78  
Pyrene  
Concen: 39.575 ng  
RT: 19.638 min Scan# 2817  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Tgt Ion:202 Resp: 621219  
Ion Ratio Lower Upper  
202 100  
200 21.1 17.3 25.9  
203 17.2 13.6 20.4





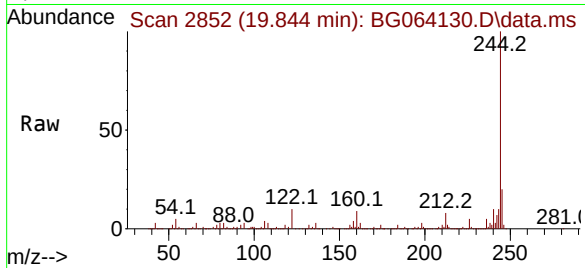
#79  
Terphenyl-d14  
Concen: 77.907 ng  
RT: 19.844 min Scan# 2853  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

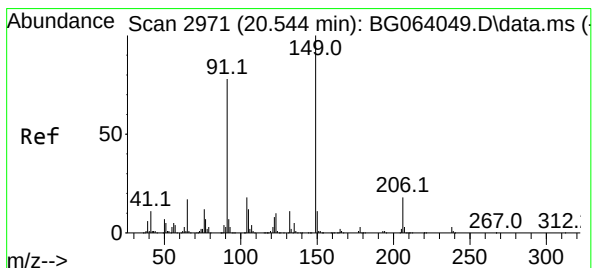
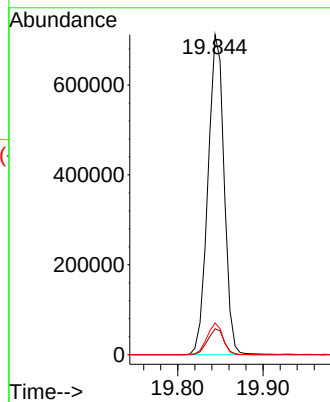
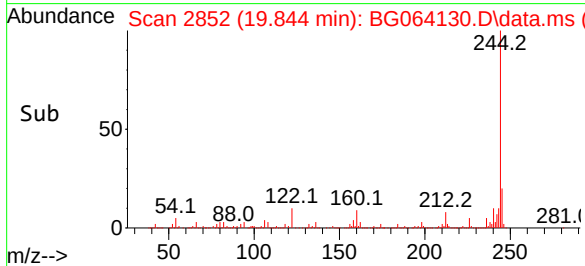


Tgt Ion:244 Resp: 93824  
Ion Ratio Lower Upper  
244 100  
212 8.1 6.2 9.4  
122 9.9 8.0 12.0

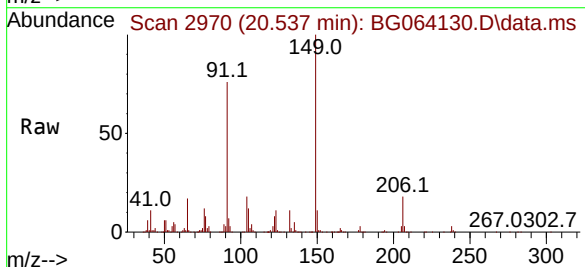
Manual Integrations

APPROVED

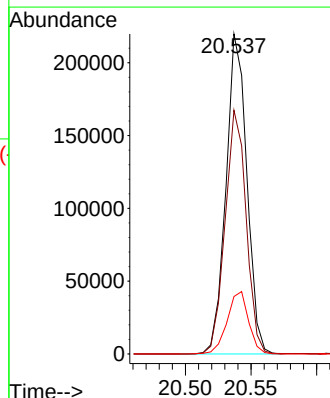
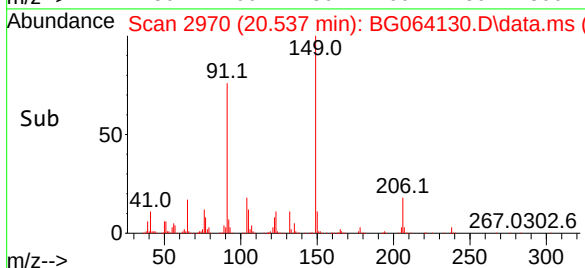
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

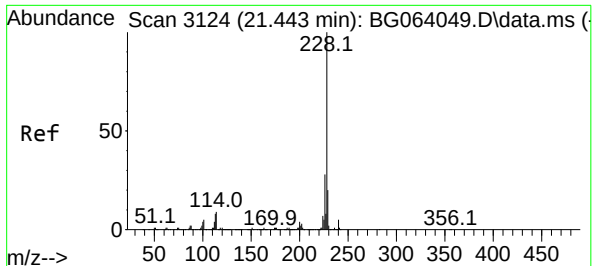


#80  
Butylbenzylphthalate  
Concen: 41.752 ng  
RT: 20.537 min Scan# 2970  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38



Tgt Ion:149 Resp: 242915  
Ion Ratio Lower Upper  
149 100  
91 76.2 62.0 93.0  
206 17.9 14.6 21.8





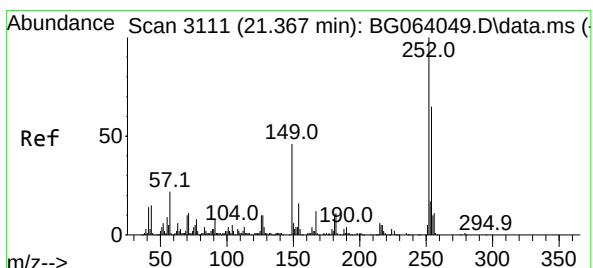
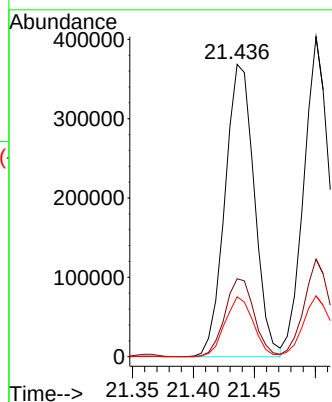
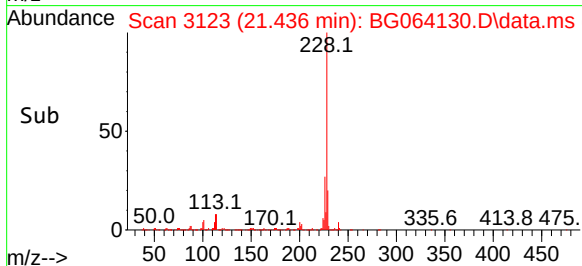
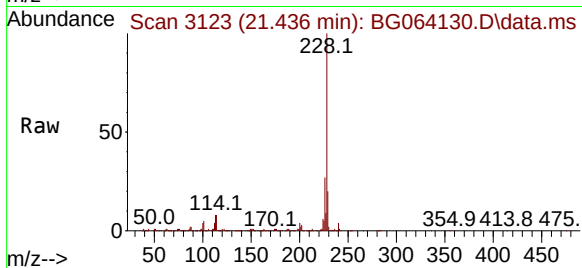
#81  
Benzo(a)anthracene  
Concen: 39.594 ng  
RT: 21.436 min Scan# 3110  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040

Tgt Ion:228 Resp: 61760  
Ion Ratio Lower Upper  
228 100  
226 26.7 22.2 33.2  
229 20.5 16.4 24.6

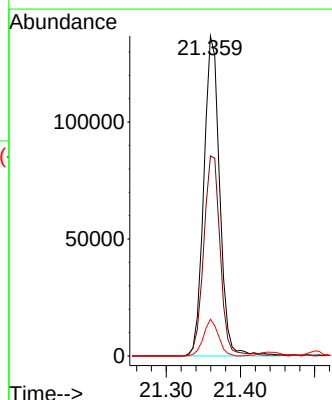
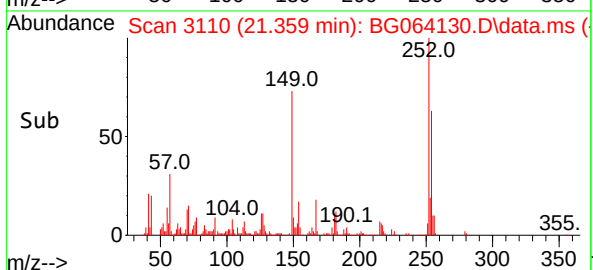
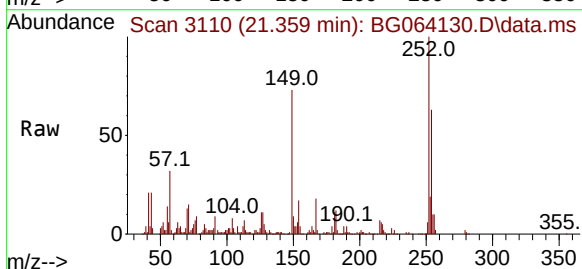
Manual Integrations  
APPROVED

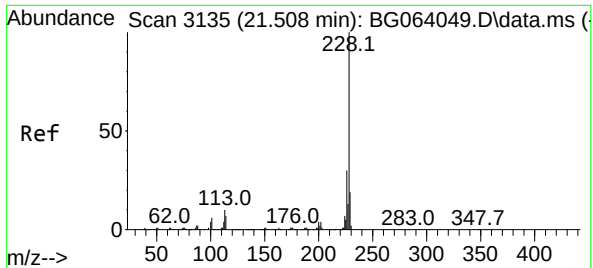
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#82  
3,3'-Dichlorobenzidine  
Concen: 40.444 ng  
RT: 21.359 min Scan# 3110  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

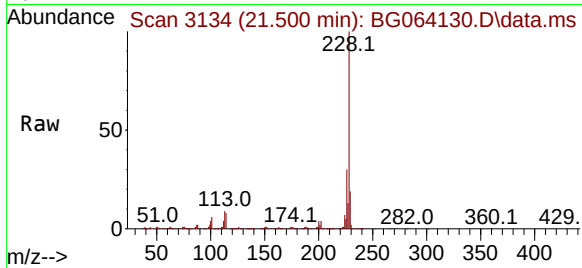
Tgt Ion:252 Resp: 204173  
Ion Ratio Lower Upper  
252 100  
254 62.5 52.1 78.1  
126 11.5 7.8 11.8





#83  
Chrysene  
Concen: 37.923 ng  
RT: 21.500 min Scan# 3135  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

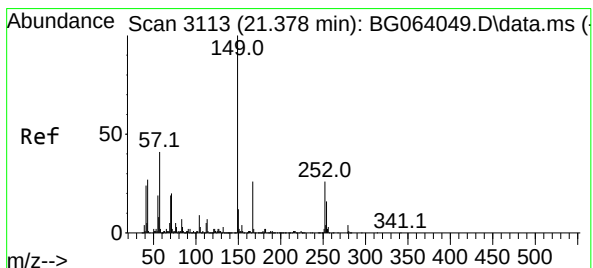
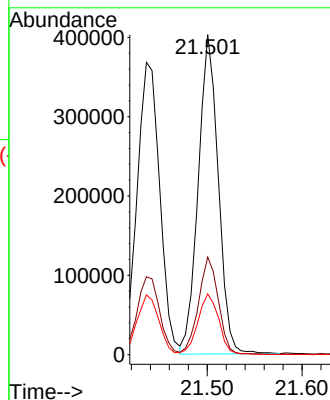
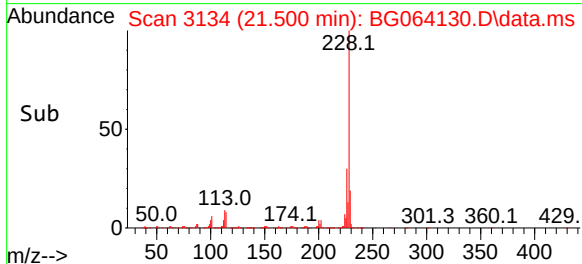
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:228 Resp: 58998  
Ion Ratio Lower Upper  
228 100  
226 30.5 23.9 35.9  
229 19.0 15.3 22.9

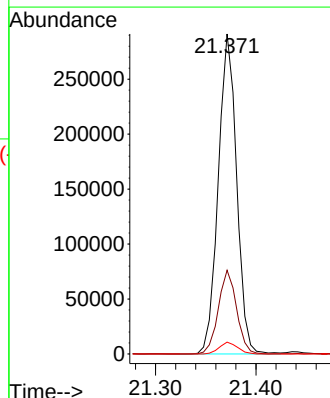
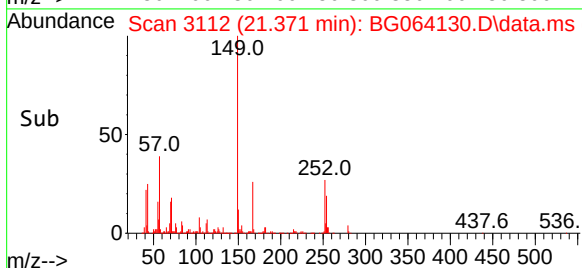
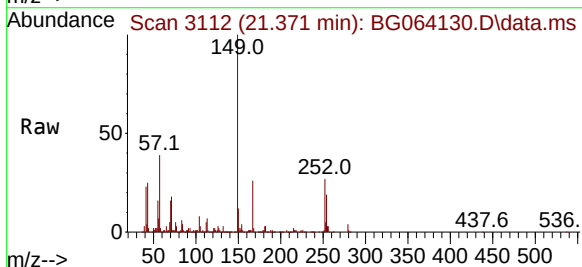
Manual Integrations  
**APPROVED**

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

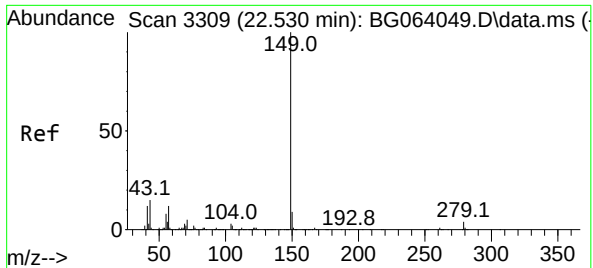


#84  
Bis(2-ethylhexyl)phthalate  
Concen: 43.782 ng  
RT: 21.371 min Scan# 3112  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Tgt Ion:149 Resp: 369341  
Ion Ratio Lower Upper  
149 100  
167 26.2 21.0 31.6  
279 3.7 2.8 4.2

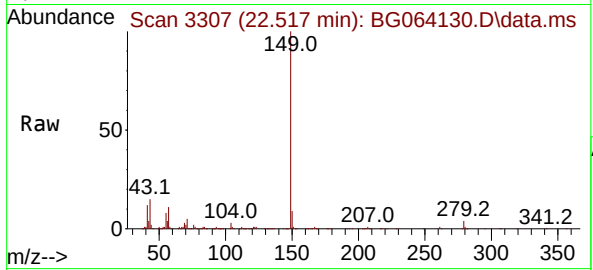






#85  
Di-n-octyl phthalate  
Concen: 43.102 ng  
RT: 22.517 min Scan# 31  
Delta R.T. -0.013 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

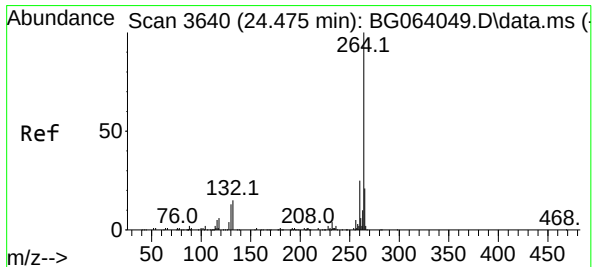
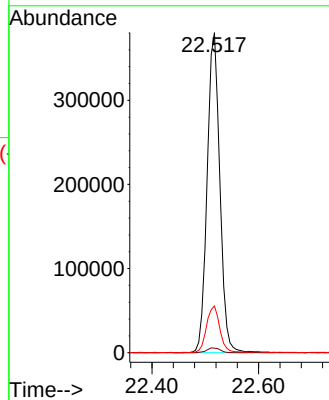
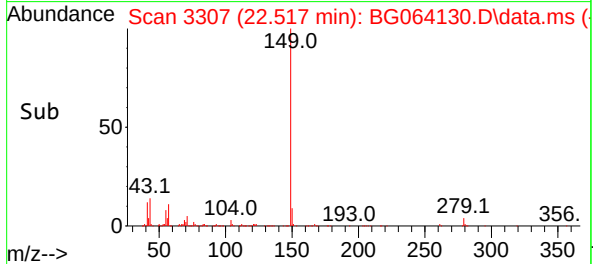
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:149 Resp: 62717  
Ion Ratio Lower Upper  
149 100  
167 1.6 1.2 1.8  
43 15.4 12.6 19.0

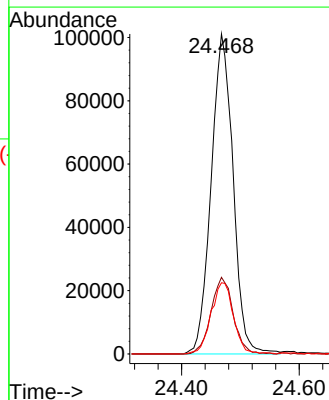
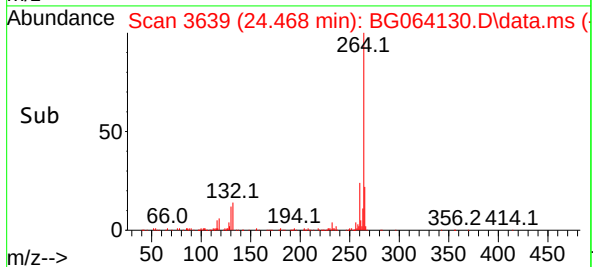
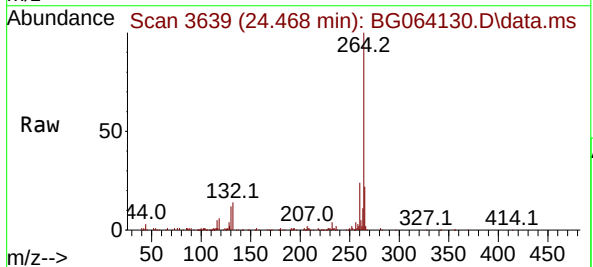
Manual Integrations  
APPROVED

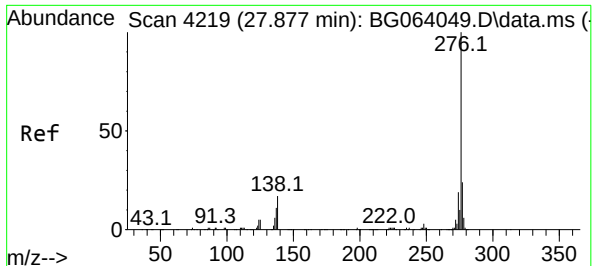
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.468 min Scan# 3639  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

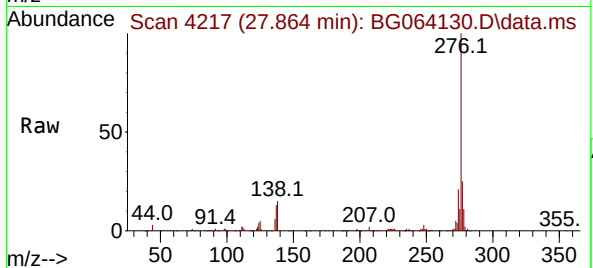
Tgt Ion:264 Resp: 261203  
Ion Ratio Lower Upper  
264 100  
260 23.9 19.6 29.4  
265 22.2 16.6 25.0





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 39.645 ng  
RT: 27.864 min Scan# 4217  
Delta R.T. -0.013 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

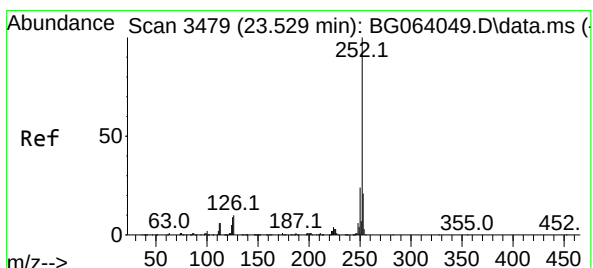
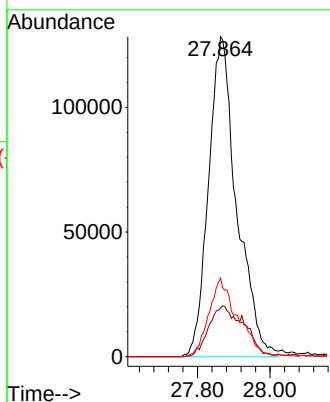
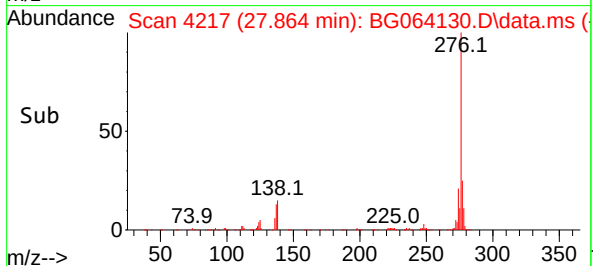
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:276 Resp: 69285  
Ion Ratio Lower Upper  
276 100  
138 15.0 12.1 18.1  
277 24.9 20.0 30.0

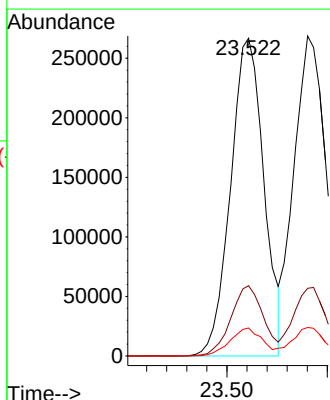
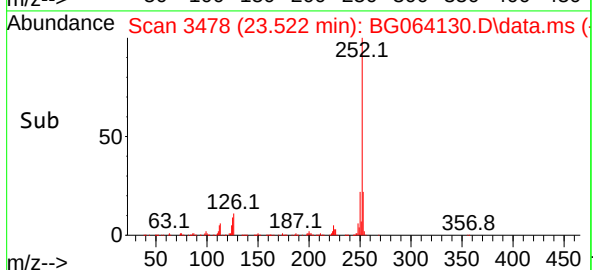
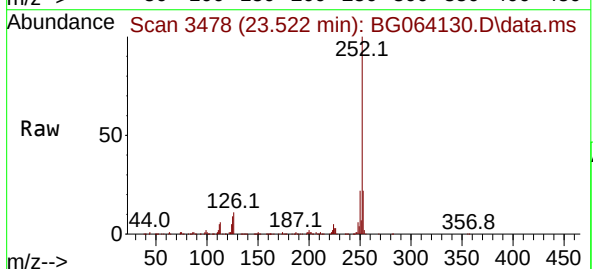
Manual Integrations  
APPROVED

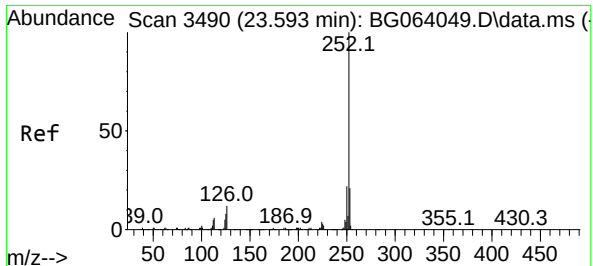
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#88  
Benzo(b)fluoranthene  
Concen: 38.965 ng  
RT: 23.522 min Scan# 3478  
Delta R.T. -0.007 min  
Lab File: BG064130.D  
Acq: 1 Apr 2025 11:38

Tgt Ion:252 Resp: 615287  
Ion Ratio Lower Upper  
252 100  
253 22.1 17.0 25.4  
125 8.8 7.4 11.2





#89

Benzo(k)fluoranthene

Concen: 38.520 ng

RT: 23.580 min Scan# 3490

Delta R.T. -0.013 min

Lab File: BG064130.D

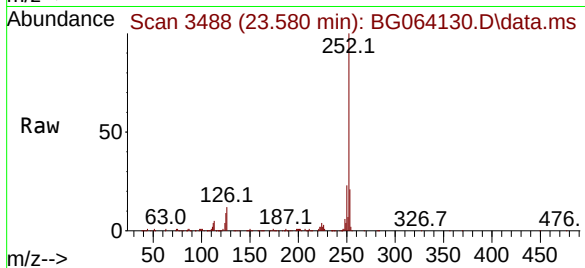
Acq: 1 Apr 2025 11:38

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040



Tgt Ion:252 Resp: 61020

Ion Ratio Lower Upper

252 100

253 21.2 16.8 25.2

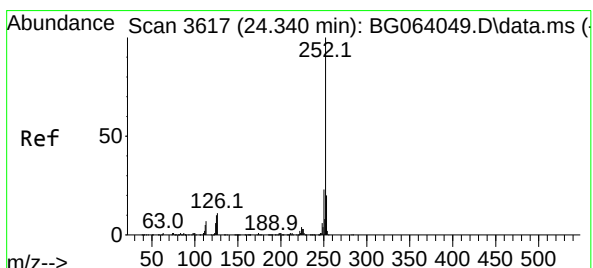
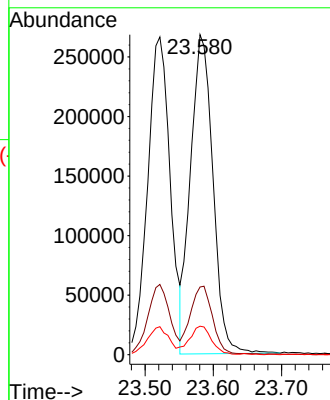
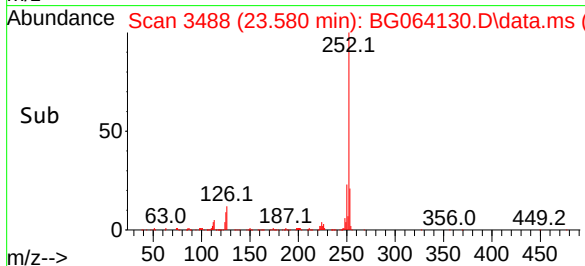
125 8.9 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#90

Benzo(a)pyrene

Concen: 38.340 ng

RT: 24.327 min Scan# 3615

Delta R.T. -0.013 min

Lab File: BG064130.D

Acq: 1 Apr 2025 11:38

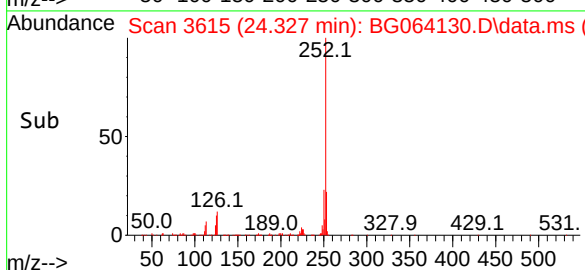
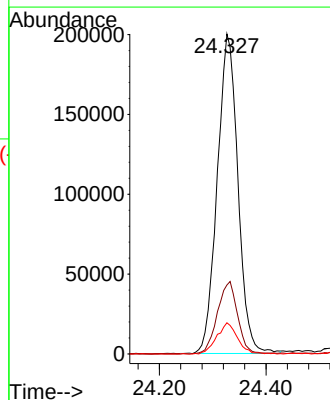
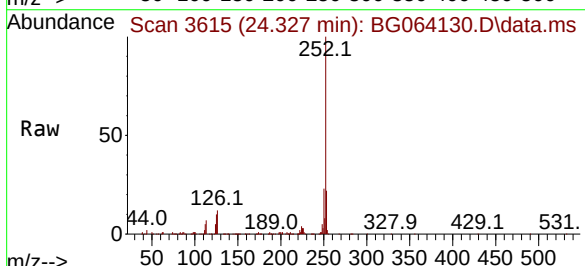
Tgt Ion:252 Resp: 539179

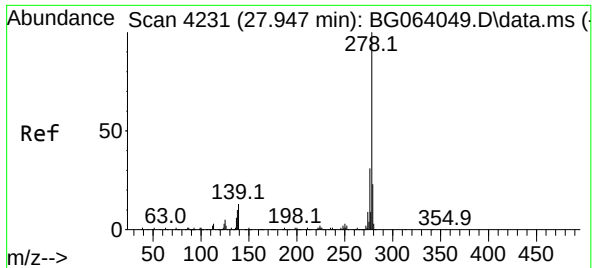
Ion Ratio Lower Upper

252 100

253 21.5 16.2 24.2

125 9.8 7.8 11.6





#91

Dibenzo(a,h)anthracene

Concen: 39.243 ng

RT: 27.928 min Scan# 41

Delta R.T. -0.019 min

Lab File: BG064130.D

Acq: 1 Apr 2025 11:38

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

Tgt Ion:278 Resp: 56857

Ion Ratio Lower Upper

278 100

139 14.8 10.2 15.2

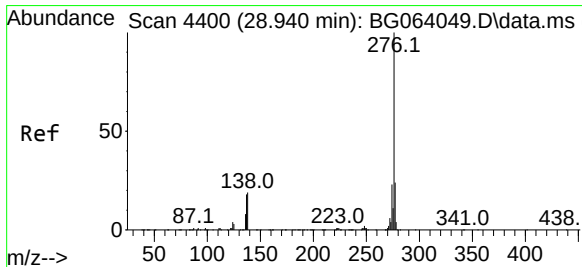
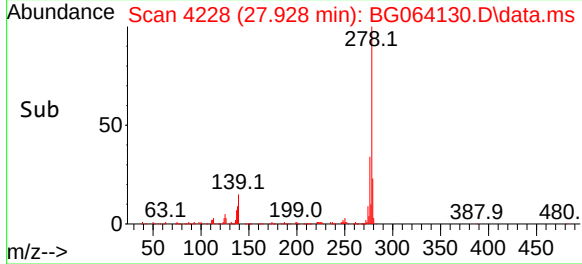
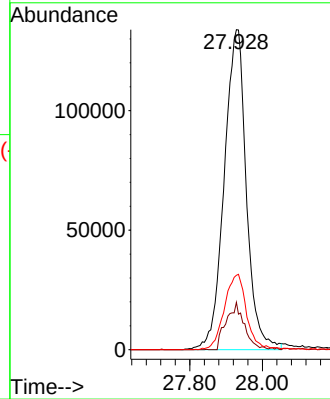
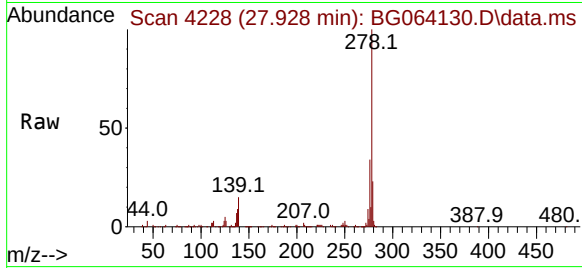
279 23.2 18.1 27.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#92

Benzo(g,h,i)perylene

Concen: 38.918 ng

RT: 28.921 min Scan# 4397

Delta R.T. -0.019 min

Lab File: BG064130.D

Acq: 1 Apr 2025 11:38

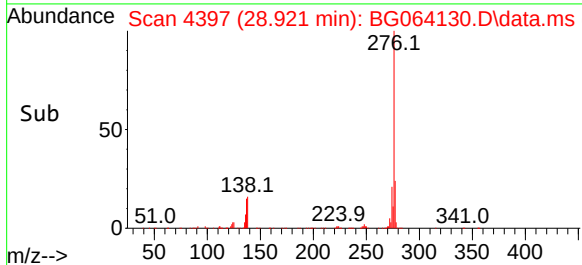
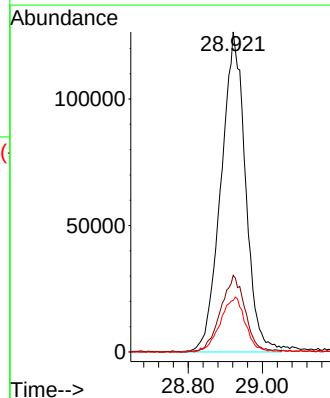
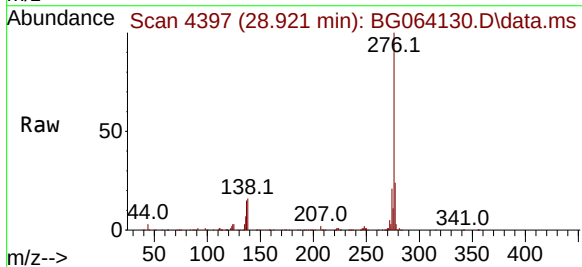
Tgt Ion:276 Resp: 578929

Ion Ratio Lower Upper

276 100

277 23.9 19.5 29.3

138 16.1 15.4 23.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
 Data File : BG064130.D  
 Acq On : 1 Apr 2025 11:38  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 01 16:20:48 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 98    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.580 | 0.468 | 19.3   | 78    | 0.00     |
| 3    | Pyridine                    | 1.412 | 1.319 | 6.6    | 82    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 1.009 | 0.967 | 4.2    | 89    | -0.01    |
| 5 S  | 2-Fluorophenol              | 1.281 | 1.136 | 11.3   | 82    | 0.00     |
| 6    | Aniline                     | 1.710 | 1.524 | 10.9   | 82    | 0.00     |
| 7 S  | Phenol-d6                   | 1.742 | 1.624 | 6.8    | 86    | 0.00     |
| 8    | 2-Chlorophenol              | 1.376 | 1.297 | 5.7    | 88    | 0.00     |
| 9    | Benzaldehyde                | 1.013 | 0.896 | 11.5   | 87    | 0.00     |
| 10 C | Phenol                      | 1.784 | 1.651 | 7.5    | 86    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.399 | 1.231 | 12.0   | 85    | -0.01    |
| 12   | 1,3-Dichlorobenzene         | 1.511 | 1.366 | 9.6    | 86    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.548 | 1.380 | 10.9   | 85    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.493 | 1.344 | 10.0   | 86    | 0.00     |
| 15   | Benzyl Alcohol              | 1.346 | 1.320 | 1.9    | 90    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 3.145 | 2.751 | 12.5   | 82    | 0.00     |
| 17   | 2-Methylphenol              | 1.184 | 1.136 | 4.1    | 87    | 0.00     |
| 18   | Hexachloroethane            | 0.542 | 0.539 | 0.6    | 91    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.223 | 1.139 | 6.9    | 84    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.630 | 1.557 | 4.5    | 89    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 22   | Acetophenone                | 0.548 | 0.512 | 6.6    | 85    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.362 | 0.374 | -3.3   | 91    | 0.00     |
| 24   | Nitrobenzene                | 0.374 | 0.372 | 0.5    | 88    | 0.00     |
| 25   | Isophorone                  | 0.724 | 0.665 | 8.1    | 84    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.112 | 0.137 | -22.3# | 105   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.217 | 0.214 | 1.4    | 88    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.439 | 0.403 | 8.2    | 85    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.274 | 0.284 | -3.6   | 92    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.331 | 0.319 | 3.6    | 90    | 0.00     |
| 31   | Naphthalene                 | 1.078 | 1.053 | 2.3    | 91    | 0.00     |
| 32   | Benzoic acid                | 0.170 | 0.203 | -19.4  | 110   | -0.02    |
| 33   | 4-Chloroaniline             | 0.394 | 0.403 | -2.3   | 91    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.217 | 0.225 | -3.7   | 96    | 0.00     |
| 35   | Caprolactam                 | 0.105 | 0.104 | 1.0    | 88    | -0.01    |
| 36 C | 4-Chloro-3-methylphenol     | 0.359 | 0.379 | -5.6   | 95    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.761 | 0.785 | -3.2   | 96    | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.746 | 0.763 | -2.3   | 95    | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 103   | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.571 | 0.548 | 4.0    | 96    | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.161 | 0.197 | -22.4  | 115   | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 0.222 | 0.244 | -9.9   | 104   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.337 | 0.344 | -2.1   | 99    | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.374 | 0.383 | -2.4   | 97    | 0.00     |
| 45 S | 2-Fluorobiphenyl            | 1.318 | 1.245 | 5.5    | 93    | 0.00     |
| 46   | 1,1'-Biphenyl               | 1.511 | 1.476 | 2.3    | 98    | 0.00     |
| 47   | 2-Chloronaphthalene         | 1.102 | 1.056 | 4.2    | 96    | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
 Data File : BG064130.D  
 Acq On : 1 Apr 2025 11:38  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 01 16:20:48 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|-------|--------|-------|----------|
| 48   | 2-Nitroaniline             | 0.318 | 0.373 | -17.3  | 110   | 0.00     |
| 49   | Acenaphthylene             | 1.743 | 1.682 | 3.5    | 96    | 0.00     |
| 50   | Dimethylphthalate          | 1.476 | 1.392 | 5.7    | 94    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.261 | 0.299 | -14.6  | 105   | 0.00     |
| 52 C | Acenaphthene               | 1.170 | 1.098 | 6.2    | 95    | 0.00     |
| 53   | 3-Nitroaniline             | 0.285 | 0.298 | -4.6   | 97    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 0.102 | 0.115 | -12.7  | 118   | 0.00     |
| 55   | Dibenzofuran               | 1.895 | 1.798 | 5.1    | 95    | 0.00     |
| 56 P | 4-Nitrophenol              | 0.239 | 0.246 | -2.9   | 98    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 0.357 | 0.410 | -14.8  | 104   | 0.00     |
| 58   | Fluorene                   | 1.476 | 1.431 | 3.0    | 99    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.365 | 0.377 | -3.3   | 98    | 0.00     |
| 60   | Diethylphthalate           | 1.603 | 1.511 | 5.7    | 93    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.733 | 0.710 | 3.1    | 99    | 0.00     |
| 62   | 4-Nitroaniline             | 0.308 | 0.323 | -4.9   | 96    | 0.00     |
| 63   | Azobenzene                 | 1.710 | 1.555 | 9.1    | 91    | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 97    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.076 | 0.092 | -21.1  | 119   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 0.566 | 0.565 | 0.2    | 94    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.205 | 0.215 | -4.9   | 99    | 0.00     |
| 68   | Hexachlorobenzene          | 0.229 | 0.226 | 1.3    | 95    | 0.00     |
| 69   | Atrazine                   | 0.167 | 0.146 | 12.6   | 88    | 0.00     |
| 70 C | Pentachlorophenol          | 0.142 | 0.151 | -6.3   | 98    | 0.00     |
| 71   | Phenanthrene               | 1.067 | 1.025 | 3.9    | 92    | 0.00     |
| 72   | Anthracene                 | 1.061 | 1.054 | 0.7    | 94    | 0.00     |
| 73   | Carbazole                  | 0.990 | 0.950 | 4.0    | 89    | 0.00     |
| 74   | Di-n-butylphthalate        | 1.166 | 1.160 | 0.5    | 89    | 0.00     |
| 75 C | Fluoranthene               | 1.286 | 1.207 | 6.1    | 88    | 0.00     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 89    | 0.00     |
| 77   | Benzidine                  | 0.277 | 0.382 | -37.9# | 109   | 0.00     |
| 78   | Pyrene                     | 1.289 | 1.276 | 1.0    | 87    | 0.00     |
| 79 S | Terphenyl-d14              | 0.989 | 0.963 | 2.6    | 86    | 0.00     |
| 80   | Butylbenzylphthalate       | 0.423 | 0.499 | -18.0  | 96    | 0.00     |
| 81   | Benzo(a)anthracene         | 1.281 | 1.268 | 1.0    | 87    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 0.415 | 0.419 | -1.0   | 83    | 0.00     |
| 83   | Chrysene                   | 1.278 | 1.211 | 5.2    | 83    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.693 | 0.758 | -9.4   | 89    | 0.00     |
| 85 c | Di-n-octyl phthalate       | 1.195 | 1.288 | -7.8   | 93    | -0.01    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 90    | 0.00     |
| 87   | Indeno(1,2,3-cd)pyrene     | 1.338 | 1.326 | 0.9    | 87    | -0.01    |
| 88   | Benzo(b)fluoranthene       | 1.209 | 1.178 | 2.6    | 87    | 0.00     |
| 89   | Benzo(k)fluoranthene       | 1.213 | 1.168 | 3.7    | 84    | -0.01    |
| 90 C | Benzo(a)pyrene             | 1.077 | 1.032 | 4.2    | 84    | -0.01    |
| 91   | Dibenzo(a,h)anthracene     | 1.109 | 1.088 | 1.9    | 87    | -0.02    |
| 92   | Benzo(g,h,i)perylene       | 1.139 | 1.108 | 2.7    | 87    | -0.02    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064130.D  
Acq On : 1 Apr 2025 11:38  
Operator : RC/JU  
Sample : SSTDCCC040  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTDCCC040

Quant Time: Apr 01 16:20:48 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|----------|-------|------|------|-------|----------|
|----------|-------|------|------|-------|----------|

(#) = Out of Range

SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
 Data File : BG064130.D  
 Acq On : 1 Apr 2025 11:38  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 01 16:20:48 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 20.000 | 20.000 | 0.0   | 98    | 0.00     |
| 2    | 1,4-Dioxane                 | 40.000 | 32.230 | 19.4  | 78    | 0.00     |
| 3    | Pyridine                    | 40.000 | 37.380 | 6.5   | 82    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 40.000 | 38.347 | 4.1   | 89    | -0.01    |
| 5 S  | 2-Fluorophenol              | 80.000 | 70.963 | 11.3  | 82    | 0.00     |
| 6    | Aniline                     | 40.000 | 35.660 | 10.9  | 82    | 0.00     |
| 7 S  | Phenol-d6                   | 80.000 | 74.582 | 6.8   | 86    | 0.00     |
| 8    | 2-Chlorophenol              | 40.000 | 37.703 | 5.7   | 88    | 0.00     |
| 9    | Benzaldehyde                | 40.000 | 35.384 | 11.5  | 87    | 0.00     |
| 10 C | Phenol                      | 40.000 | 37.016 | 7.5   | 86    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 40.000 | 35.217 | 12.0  | 85    | -0.01    |
| 12   | 1,3-Dichlorobenzene         | 40.000 | 36.166 | 9.6   | 86    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 40.000 | 35.654 | 10.9  | 85    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 40.000 | 35.998 | 10.0  | 86    | 0.00     |
| 15   | Benzyl Alcohol              | 40.000 | 39.214 | 2.0   | 90    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 40.000 | 34.992 | 12.5  | 82    | 0.00     |
| 17   | 2-Methylphenol              | 40.000 | 38.379 | 4.1   | 87    | 0.00     |
| 18   | Hexachloroethane            | 40.000 | 39.789 | 0.5   | 91    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 40.000 | 37.242 | 6.9   | 84    | 0.00     |
| 20   | 3+4-Methylphenols           | 40.000 | 38.209 | 4.5   | 89    | 0.00     |
| 21 I | Naphthalene-d8              | 20.000 | 20.000 | 0.0   | 94    | 0.00     |
| 22   | Acetophenone                | 40.000 | 37.342 | 6.6   | 85    | 0.00     |
| 23 S | Nitrobenzene-d5             | 80.000 | 82.717 | -3.4  | 91    | 0.00     |
| 24   | Nitrobenzene                | 40.000 | 39.782 | 0.5   | 88    | 0.00     |
| 25   | Isophorone                  | 40.000 | 36.708 | 8.2   | 84    | 0.00     |
| 26 C | 2-Nitrophenol               | 40.000 | 43.512 | -8.8  | 105   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 40.000 | 39.359 | 1.6   | 88    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 40.000 | 36.663 | 8.3   | 85    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 40.000 | 41.418 | -3.5  | 92    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 40.000 | 38.496 | 3.8   | 90    | 0.00     |
| 31   | Naphthalene                 | 40.000 | 39.038 | 2.4   | 91    | 0.00     |
| 32   | Benzoic acid                | 40.000 | 42.046 | -5.1  | 110   | -0.02    |
| 33   | 4-Chloroaniline             | 40.000 | 40.936 | -2.3  | 91    | 0.00     |
| 34 C | Hexachlorobutadiene         | 40.000 | 41.481 | -3.7  | 96    | 0.00     |
| 35   | Caprolactam                 | 40.000 | 39.482 | 1.3   | 88    | -0.01    |
| 36 C | 4-Chloro-3-methylphenol     | 40.000 | 42.191 | -5.5  | 95    | 0.00     |
| 37   | 2-Methylnaphthalene         | 40.000 | 41.231 | -3.1  | 96    | 0.00     |
| 38   | 1-Methylnaphthalene         | 40.000 | 40.916 | -2.3  | 95    | 0.00     |
| 39 I | Acenaphthene-d10            | 20.000 | 20.000 | 0.0   | 103   | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 40.000 | 38.365 | 4.1   | 96    | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 40.000 | 48.959 | -22.4 | 115   | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 80.000 | 87.719 | -9.6  | 104   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 40.000 | 40.932 | -2.3  | 99    | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 40.000 | 40.950 | -2.4  | 97    | 0.00     |
| 45 S | 2-Fluorobiphenyl            | 80.000 | 75.620 | 5.5   | 93    | 0.00     |
| 46   | 1,1'-Biphenyl               | 40.000 | 39.084 | 2.3   | 98    | 0.00     |
| 47   | 2-Chloronaphthalene         | 40.000 | 38.334 | 4.2   | 96    | 0.00     |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
 Data File : BG064130.D  
 Acq On : 1 Apr 2025 11:38  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 01 16:20:48 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|----------------------------|--------|--------|--------|-------|----------|
| 48   | 2-Nitroaniline             | 40.000 | 41.926 | -4.8   | 110   | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 38.588 | 3.5    | 96    | 0.00     |
| 50   | Dimethylphthalate          | 40.000 | 37.720 | 5.7    | 94    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 40.502 | -1.3   | 105   | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 37.546 | 6.1    | 95    | 0.00     |
| 53   | 3-Nitroaniline             | 40.000 | 41.772 | -4.4   | 97    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 41.200 | -3.0   | 118   | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 37.949 | 5.1    | 95    | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 41.052 | -2.6   | 98    | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 40.317 | -0.8   | 104   | 0.00     |
| 58   | Fluorene                   | 40.000 | 38.780 | 3.0    | 99    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 41.360 | -3.4   | 98    | 0.00     |
| 60   | Diethylphthalate           | 40.000 | 37.699 | 5.8    | 93    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 38.708 | 3.2    | 99    | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 41.984 | -5.0   | 96    | 0.00     |
| 63   | Azobenzene                 | 40.000 | 36.371 | 9.1    | 91    | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 97    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 43.534 | -8.8   | 119   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 39.898 | 0.3    | 94    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 41.896 | -4.7   | 99    | 0.00     |
| 68   | Hexachlorobenzene          | 40.000 | 39.358 | 1.6    | 95    | 0.00     |
| 69   | Atrazine                   | 40.000 | 34.958 | 12.6   | 88    | 0.00     |
| 70 C | Pentachlorophenol          | 40.000 | 42.485 | -6.2   | 98    | 0.00     |
| 71   | Phenanthrene               | 40.000 | 38.446 | 3.9    | 92    | 0.00     |
| 72   | Anthracene                 | 40.000 | 39.748 | 0.6    | 94    | 0.00     |
| 73   | Carbazole                  | 40.000 | 38.352 | 4.1    | 89    | 0.00     |
| 74   | Di-n-butylphthalate        | 40.000 | 39.790 | 0.5    | 89    | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 37.548 | 6.1    | 88    | 0.00     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 89    | 0.00     |
| 77   | Benzydine                  | 40.000 | 55.118 | -37.8# | 109   | 0.00     |
| 78   | Pyrene                     | 40.000 | 39.575 | 1.1    | 87    | 0.00     |
| 79 S | Terphenyl-d14              | 80.000 | 77.907 | 2.6    | 86    | 0.00     |
| 80   | Butylbenzylphthalate       | 40.000 | 41.752 | -4.4   | 96    | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 39.594 | 1.0    | 87    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 40.444 | -1.1   | 83    | 0.00     |
| 83   | Chrysene                   | 40.000 | 37.923 | 5.2    | 83    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 43.782 | -9.5   | 89    | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 43.102 | -7.8   | 93    | -0.01    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 90    | 0.00     |
| 87   | Indeno(1,2,3-cd)pyrene     | 40.000 | 39.645 | 0.9    | 87    | -0.01    |
| 88   | Benzo(b)fluoranthene       | 40.000 | 38.965 | 2.6    | 87    | 0.00     |
| 89   | Benzo(k)fluoranthene       | 40.000 | 38.520 | 3.7    | 84    | -0.01    |
| 90 C | Benzo(a)pyrene             | 40.000 | 38.340 | 4.1    | 84    | -0.01    |
| 91   | Dibenzo(a,h)anthracene     | 40.000 | 39.243 | 1.9    | 87    | -0.02    |
| 92   | Benzo(g,h,i)perylene       | 40.000 | 38.918 | 2.7    | 87    | -0.02    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064130.D  
Acq On : 1 Apr 2025 11:38  
Operator : RC/JU  
Sample : SSTDCCC040  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTDCCC040

Quant Time: Apr 01 16:20:48 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|----------|--------|-------|------|-------|----------|
|----------|--------|-------|------|-------|----------|

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: BNA\_G Calibration Date/Time: 04/03/2025 13:04

Lab File ID: BG064164.D Init. Calib. Date(s): 03/05/2025 03/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:02 13:44

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                    | RRF   | RRF040 | MIN<br>RRF | %D   | MAX%D |
|-----------------------------|-------|--------|------------|------|-------|
| 2-Fluorophenol              | 1.281 | 1.216  |            | -5.1 |       |
| Benzaldehyde                | 1.013 | 0.930  |            | -8.2 |       |
| Phenol-d6                   | 1.742 | 1.737  |            | -0.3 |       |
| Phenol                      | 1.784 | 1.707  |            | -4.3 | 20.0  |
| bis(2-Chloroethyl)ether     | 1.399 | 1.271  |            | -9.1 |       |
| 2-Chlorophenol              | 1.376 | 1.358  |            | -1.3 |       |
| 2-Methylphenol              | 1.184 | 1.221  |            | 3.1  |       |
| 2,2-oxybis(1-Chloropropane) | 3.145 | 2.896  |            | -7.9 |       |
| Acetophenone                | 0.548 | 0.522  |            | -4.7 |       |
| 3+4-Methylphenols           | 1.630 | 1.653  |            | 1.4  |       |
| n-Nitroso-di-n-propylamine  | 1.223 | 1.233  | 0.050      | 0.8  |       |
| Nitrobenzene-d5             | 0.362 | 0.386  |            | 6.6  |       |
| Hexachloroethane            | 0.542 | 0.568  |            | 4.8  |       |
| Nitrobenzene                | 0.374 | 0.395  |            | 5.6  |       |
| Isophorone                  | 0.724 | 0.678  |            | -6.4 |       |
| 2-Nitrophenol               | 0.112 | 0.158  |            | 41.1 | 20.0  |
| 2,4-Dimethylphenol          | 0.217 | 0.222  |            | 2.3  |       |
| bis(2-Chloroethoxy)methane  | 0.439 | 0.418  |            | -4.8 |       |
| 2,4-Dichlorophenol          | 0.274 | 0.292  |            | 6.6  | 20.0  |
| Naphthalene                 | 1.078 | 1.071  |            | -0.6 |       |
| 4-Chloroaniline             | 0.394 | 0.399  |            | 1.3  |       |
| Hexachlorobutadiene         | 0.217 | 0.220  |            | 1.4  | 20.0  |
| Caprolactam                 | 0.105 | 0.111  |            | 5.7  |       |
| 4-Chloro-3-methylphenol     | 0.359 | 0.397  |            | 10.6 | 20.0  |
| 2-Methylnaphthalene         | 0.761 | 0.798  |            | 4.9  |       |
| Hexachlorocyclopentadiene   | 0.161 | 0.224  | 0.050      | 39.1 |       |
| 2,4,6-Trichlorophenol       | 0.337 | 0.362  |            | 7.4  | 20.0  |
| 2-Fluorobiphenyl            | 1.318 | 1.287  |            | -2.4 |       |
| 2,4,5-Trichlorophenol       | 0.374 | 0.411  |            | 9.9  |       |
| 1,1-Biphenyl                | 1.511 | 1.451  |            | -4.0 |       |
| 2-Chloronaphthalene         | 1.102 | 1.045  |            | -5.2 |       |
| 2-Nitroaniline              | 0.318 | 0.396  |            | 24.5 |       |
| Dimethylphthalate           | 1.476 | 1.455  |            | -1.4 |       |
| Acenaphthylene              | 1.743 | 1.673  |            | -4.0 |       |
| 2,6-Dinitrotoluene          | 0.261 | 0.309  |            | 18.4 |       |
| 3-Nitroaniline              | 0.285 | 0.312  |            | 9.5  |       |
| Acenaphthene                | 1.170 | 1.118  |            | -4.4 | 20.0  |
| 2,4-Dinitrophenol           | 0.102 | 0.153  | 0.050      | 50.0 |       |
| 4-Nitrophenol               | 0.239 | 0.264  | 0.050      | 10.5 |       |



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Fax : 908 789 8922

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: BNA\_G Calibration Date/Time: 04/03/2025 13:04

Lab File ID: BG064164.D Init. Calib. Date(s): 03/05/2025 03/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:02 13:44

GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                   | RRF   | RRF040 | MIN<br>RRF | %D    | MAX%D |
|----------------------------|-------|--------|------------|-------|-------|
| Dibenzofuran               | 1.895 | 1.831  |            | -3.4  |       |
| 2,4-Dinitrotoluene         | 0.357 | 0.438  |            | 22.7  |       |
| Diethylphthalate           | 1.603 | 1.624  |            | 1.3   |       |
| 4-Chlorophenyl-phenylether | 0.733 | 0.722  |            | -1.5  |       |
| Fluorene                   | 1.476 | 1.455  |            | -1.4  |       |
| 4-Nitroaniline             | 0.308 | 0.341  |            | 10.7  |       |
| 4,6-Dinitro-2-methylphenol | 0.076 | 0.112  |            | 47.4  |       |
| n-Nitrosodiphenylamine     | 0.566 | 0.554  |            | -2.1  | 20.0  |
| 2,4,6-Tribromophenol       | 0.222 | 0.261  |            | 17.6  |       |
| 4-Bromophenyl-phenylether  | 0.205 | 0.211  |            | 2.9   |       |
| Hexachlorobenzene          | 0.229 | 0.230  |            | 0.4   |       |
| Atrazine                   | 0.167 | 0.145  |            | -13.2 |       |
| Pentachlorophenol          | 0.142 | 0.157  |            | 10.6  | 20.0  |
| Phenanthrene               | 1.067 | 1.041  |            | -2.4  |       |
| Anthracene                 | 1.061 | 1.047  |            | -1.3  |       |
| Carbazole                  | 0.990 | 0.973  |            | -1.7  |       |
| Di-n-butylphthalate        | 1.166 | 1.230  |            | 5.5   |       |
| Fluoranthene               | 1.286 | 1.246  |            | -3.1  | 20.0  |
| Pyrene                     | 1.289 | 1.273  |            | -1.2  |       |
| Terphenyl-d14              | 0.989 | 0.970  |            | -1.9  |       |
| Butylbenzylphthalate       | 0.423 | 0.546  |            | 29.1  |       |
| 3,3-Dichlorobenzidine      | 0.415 | 0.435  |            | 4.8   |       |
| Benzo (a) anthracene       | 1.281 | 1.251  |            | -2.3  |       |
| Chrysene                   | 1.278 | 1.204  |            | -5.8  |       |
| Bis(2-ethylhexyl)phthalate | 0.693 | 0.801  |            | 15.6  |       |
| Di-n-octyl phthalate       | 1.195 | 1.386  |            | 16.0  | 20.0  |
| Benzo (b) fluoranthene     | 1.209 | 1.209  |            | 0.0   |       |
| Benzo (k) fluoranthene     | 1.213 | 1.121  |            | -7.6  |       |
| Benzo (a) pyrene           | 1.077 | 1.056  |            | -2.0  | 20.0  |
| Indeno (1,2,3-cd) pyrene   | 1.338 | 1.318  |            | -1.5  |       |
| Dibenzo (a,h) anthracene   | 1.109 | 1.111  |            | 0.2   |       |
| Benzo (g,h,i) perylene     | 1.139 | 1.104  |            | -3.1  |       |
| 1,2,4,5-Tetrachlorobenzene | 0.571 | 0.557  |            | -2.5  |       |
| 1,4-Dioxane                | 0.580 | 0.514  |            | -11.4 | 20.0  |
| 2,3,4,6-Tetrachlorophenol  | 0.365 | 0.414  |            | 13.4  |       |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
 Data File : BG064164.D  
 Acq On : 3 Apr 2025 13:04  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDCCC040

## Manual Integrations

## APPROVED

Reviewed By :Anahy Claudio 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025

Quant Time: Apr 03 13:40:21 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 15:39:19 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.856  | 152  | 32960    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.652 | 136  | 151982   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.483 | 164  | 113011   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.227 | 188  | 257861   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.457 | 240  | 259274   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 24.471 | 264  | 274699   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.447  | 112  | 160341   | 75.960 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.027  | 99   | 229007   | 79.749 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.013  | 82   | 234949   | 85.429 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.970 | 330  | 117878   | 93.837 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.108 | 172  | 581791   | 78.142 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.847 | 244  | 1005500  | 78.416 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.367  | 88   | 33853    | 35.387 | ng    | 98       |
| 3) Pyridine                   | 3.755  | 79   | 81588    | 35.068 | ng    | 96       |
| 4) n-Nitrosodimethylamine     | 3.672  | 42   | 61558    | 37.032 | ng    | 90       |
| 6) Aniline                    | 7.192  | 93   | 104630   | 37.132 | ng    | 96       |
| 8) 2-Chlorophenol             | 7.427  | 128  | 89545    | 39.498 | ng    | 97       |
| 9) Benzaldehyde               | 7.004  | 77   | 61316    | 36.714 | ng    | 97       |
| 10) Phenol                    | 7.051  | 94   | 112526   | 38.273 | ng    | 97       |
| 11) bis(2-Chloroethyl)ether   | 7.286  | 93   | 83800    | 36.356 | ng    | 98       |
| 12) 1,3-Dichlorobenzene       | 7.750  | 146  | 94134    | 37.811 | ng    | 96       |
| 13) 1,4-Dichlorobenzene       | 7.897  | 146  | 95654    | 37.485 | ng    | 97       |
| 14) 1,2-Dichlorobenzene       | 8.214  | 146  | 94758    | 38.510 | ng    | 96       |
| 15) Benzyl Alcohol            | 8.097  | 79   | 95305    | 42.949 | ng    | 88       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.390  | 45   | 190880   | 36.829 | ng    | 99       |
| 17) 2-Methylphenol            | 8.296  | 107  | 80461    | 41.235 | ng    | 94       |
| 18) Hexachloroethane          | 8.937  | 117  | 37444    | 41.940 | ng    | 99       |
| 19) n-Nitroso-di-n-propyla... | 8.661  | 70   | 81288    | 40.336 | ng    | 99       |
| 20) 3+4-Methylphenols         | 8.625  | 107  | 108970   | 40.565 | ng    | 93       |
| 22) Acetophenone              | 8.672  | 105  | 158820   | 38.113 | ng    | 99       |
| 24) Nitrobenzene              | 9.054  | 77   | 120042   | 42.235 | ng    | 97       |
| 25) Isophorone                | 9.577  | 82   | 206038   | 37.430 | ng    | # 97     |
| 26) 2-Nitrophenol             | 9.765  | 139  | 48005    | 48.689 | ng    | 91       |
| 27) 2,4-Dimethylphenol        | 9.824  | 122  | 67506    | 40.907 | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 10.059 | 93   | 127095   | 38.083 | ng    | 96       |
| 29) 2,4-Dichlorophenol        | 10.294 | 162  | 88857    | 42.643 | ng    | 96       |
| 30) 1,2,4-Trichlorobenzene    | 10.511 | 180  | 98879    | 39.309 | ng    | 96       |
| 31) Naphthalene               | 10.699 | 128  | 325532   | 39.722 | ng    | 99       |
| 32) Benzoic acid              | 9.965  | 122  | 76750m   | 50.168 | ng    |          |
| 33) 4-Chloroaniline           | 10.799 | 127  | 121235   | 40.475 | ng    | 96       |
| 34) Hexachlorobutadiene       | 10.993 | 225  | 66897    | 40.574 | ng    | 99       |
| 35) Caprolactam               | 11.569 | 113  | 33826    | 42.361 | ng    | 89       |
| 36) 4-Chloro-3-methylphenol   | 11.927 | 107  | 120643   | 44.169 | ng    | 99       |
| 37) 2-Methylnaphthalene       | 12.309 | 142  | 242629   | 41.937 | ng    | 98       |
| 38) 1-Methylnaphthalene       | 12.527 | 142  | 238561   | 42.088 | ng    | 95       |
| 40) 1,2,4,5-Tetrachloroben... | 12.679 | 216  | 125862   | 39.010 | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 12.662 | 237  | 50540    | 55.656 | ng    | 98       |
| 43) 2,4,6-Trichlorophenol     | 12.914 | 196  | 81723    | 42.978 | ng    | 99       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
 Data File : BG064164.D  
 Acq On : 3 Apr 2025 13:04  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

SSTDCCC040

## Manual Integrations

## APPROVED

Reviewed By :Anahy Claudio 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025

Quant Time: Apr 03 13:40:21 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 15:39:19 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.985 | 196  | 92850    | 43.945 | ng    | 97       |
| 46) 1,1'-Biphenyl             | 13.320 | 154  | 328066   | 38.424 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.361 | 162  | 236288   | 37.945 | ng    | 95       |
| 48) 2-Nitroaniline            | 13.561 | 65   | 89492    | 44.074 | ng    | 97       |
| 49) Acenaphthylene            | 14.207 | 152  | 378041   | 38.382 | ng    | 100      |
| 50) Dimethylphthalate         | 13.943 | 163  | 328899   | 39.426 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 14.060 | 165  | 69764    | 41.696 | ng    | 96       |
| 52) Acenaphthene              | 14.548 | 154  | 252698   | 38.229 | ng    | 97       |
| 53) 3-Nitroaniline            | 14.383 | 138  | 70451    | 43.696 | ng    | 98       |
| 54) 2,4-Dinitrophenol         | 14.589 | 184  | 34525    | 51.990 | ng    | # 85     |
| 55) Dibenzofuran              | 14.883 | 168  | 413808   | 38.644 | ng    | 97       |
| 56) 4-Nitrophenol             | 14.695 | 139  | 59592    | 44.070 | ng    | 90       |
| 57) 2,4-Dinitrotoluene        | 14.847 | 165  | 98910    | 42.785 | ng    | # 95     |
| 58) Fluorene                  | 15.535 | 166  | 328800   | 39.423 | ng    | 98       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.030 | 232  | 93492    | 45.389 | ng    | 97       |
| 60) Diethylphthalate          | 15.312 | 149  | 367087   | 40.534 | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 15.529 | 204  | 163185   | 39.373 | ng    | 93       |
| 62) 4-Nitroaniline            | 15.547 | 138  | 77114    | 44.300 | ng    | 88       |
| 63) Azobenzene                | 15.817 | 77   | 369721   | 38.258 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylph... | 15.611 | 198  | 57696    | 51.147 | ng    | 94       |
| 66) n-Nitrosodiphenylamine    | 15.741 | 169  | 285532   | 39.119 | ng    | 95       |
| 67) 4-Bromophenyl-phenylether | 16.422 | 248  | 108942   | 41.251 | ng    | 98       |
| 68) Hexachlorobenzene         | 16.534 | 284  | 118452   | 40.062 | ng    | 96       |
| 69) Atrazine                  | 16.686 | 200  | 74539    | 34.708 | ng    | 96       |
| 70) Pentachlorophenol         | 16.874 | 266  | 80767    | 43.996 | ng    | 96       |
| 71) Phenanthrene              | 17.268 | 178  | 536739   | 39.025 | ng    | 99       |
| 72) Anthracene                | 17.356 | 178  | 539984   | 39.484 | ng    | 99       |
| 73) Carbazole                 | 17.627 | 167  | 501891   | 39.306 | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.196 | 149  | 634185   | 42.194 | ng    | 100      |
| 75) Fluoranthene              | 19.278 | 202  | 642628   | 38.757 | ng    | 97       |
| 77) Benzidine                 | 19.460 | 184  | 181482   | 50.549 | ng    | 99       |
| 78) Pyrene                    | 19.642 | 202  | 659960   | 39.487 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.535 | 149  | 283271   | 45.382 | ng    | 98       |
| 81) Benzo(a)anthracene        | 21.440 | 228  | 648901   | 39.071 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 21.363 | 252  | 225362   | 41.927 | ng    | 98       |
| 83) Chrysene                  | 21.504 | 228  | 624492   | 37.700 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.369 | 149  | 415542   | 46.263 | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.509 | 149  | 718709   | 46.390 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 27.867 | 276  | 723995   | 39.391 | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 23.520 | 252  | 664324   | 40.004 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.590 | 252  | 615757   | 36.961 | ng    | 99       |
| 90) Benzo(a)pyrene            | 24.330 | 252  | 580328   | 39.239 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 27.932 | 278  | 610274   | 40.051 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 28.931 | 276  | 606526   | 38.770 | ng    | 94       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
 Data File : BG064164.D  
 Acq On : 3 Apr 2025 13:04  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

**Instrument :**

BNA\_G

**ClientSampleId :**

SSTDCCC040

**Manual Integrations****APPROVED**

Reviewed By :Anahy Claudio 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025

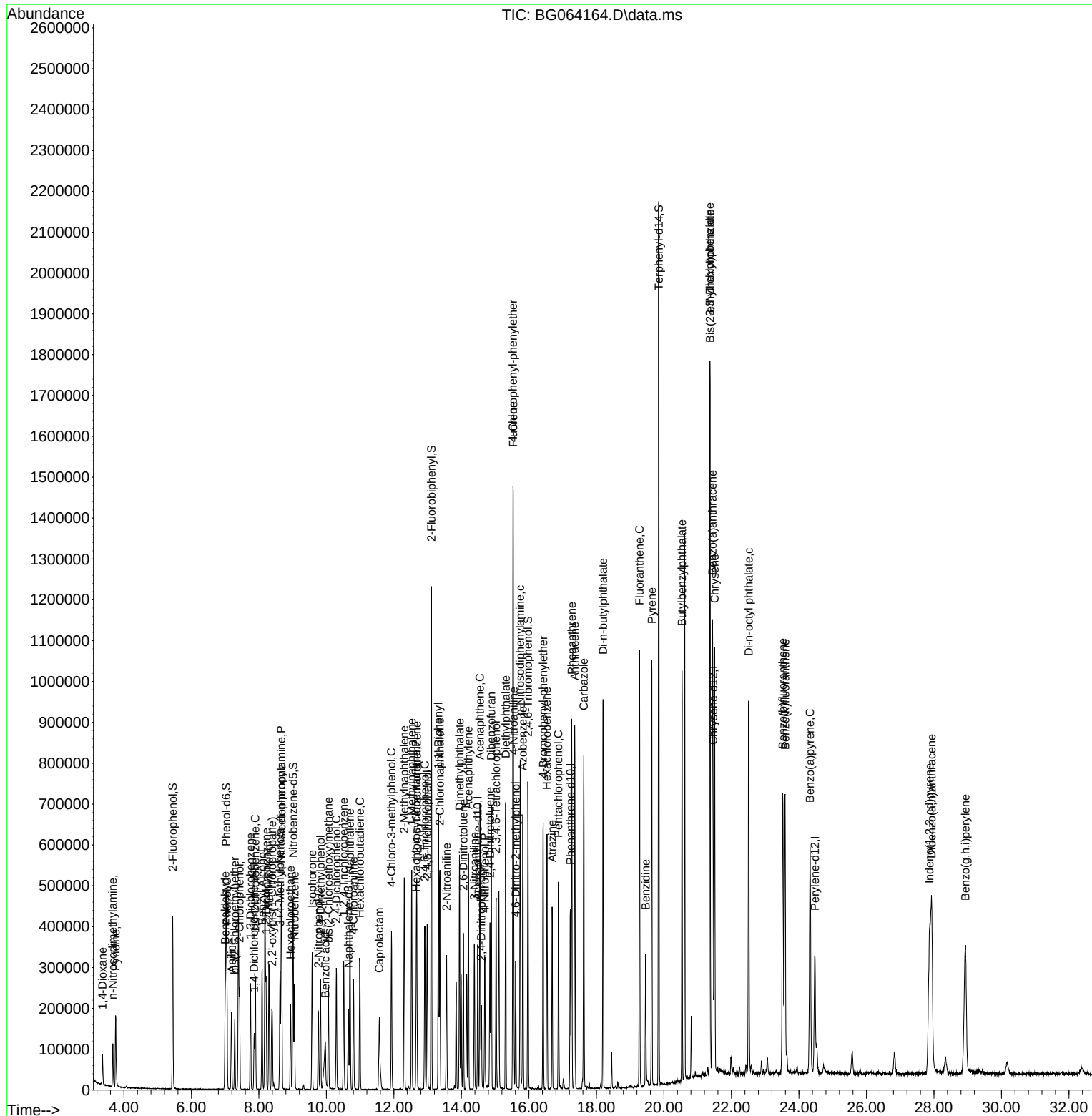
Quant Time: Apr 03 13:40:21 2025

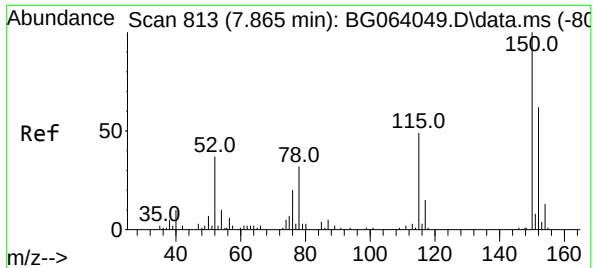
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 15:39:19 2025

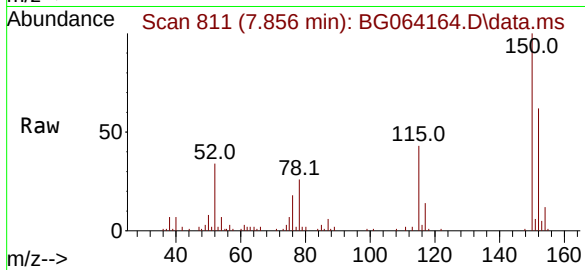
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.856 min Scan# 81  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

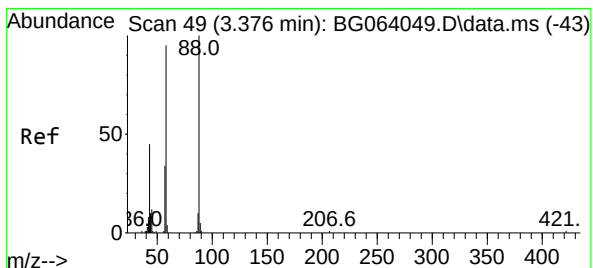
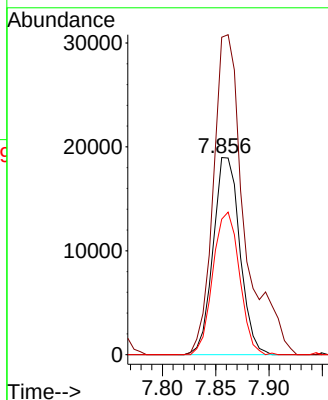
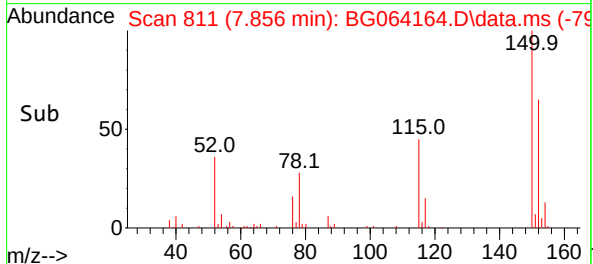
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:152 Resp: 32960  
Ion Ratio Lower Upper  
152 100  
150 161.1 129.2 193.8  
115 68.8 63.0 94.6

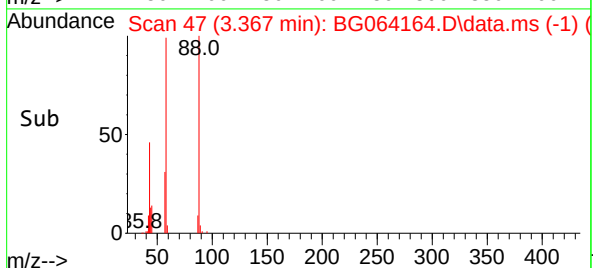
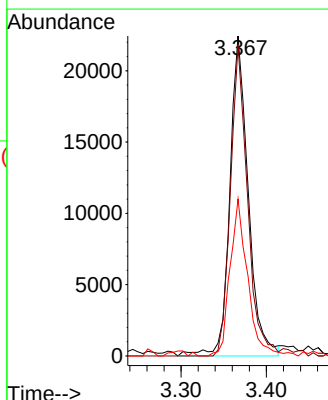
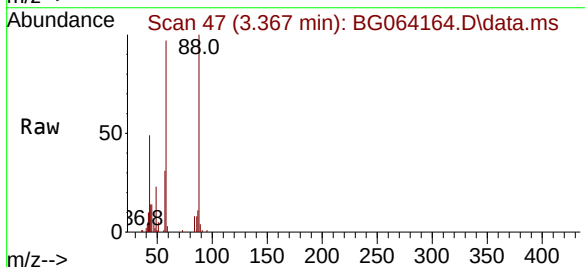
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

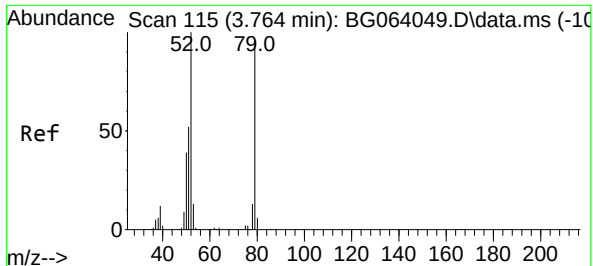


#2  
1,4-Dioxane  
Concen: 35.387 ng  
RT: 3.367 min Scan# 47  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Tgt Ion: 88 Resp: 33853  
Ion Ratio Lower Upper  
88 100  
58 91.7 74.6 111.8  
43 47.0 35.5 53.3

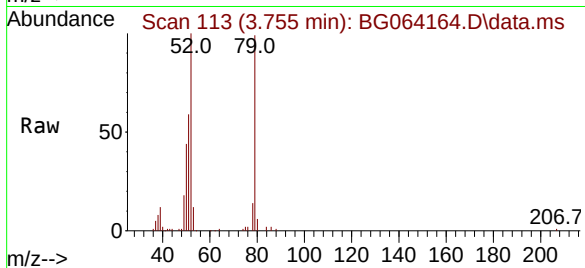






#3  
Pyridine  
Concen: 35.068 ng  
RT: 3.755 min Scan# 115  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

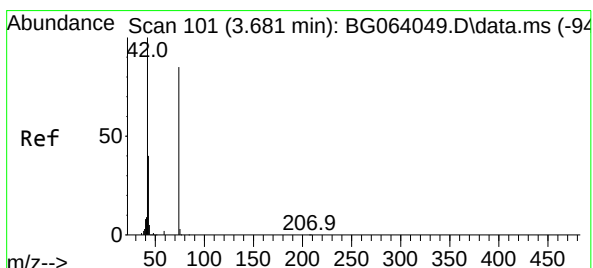
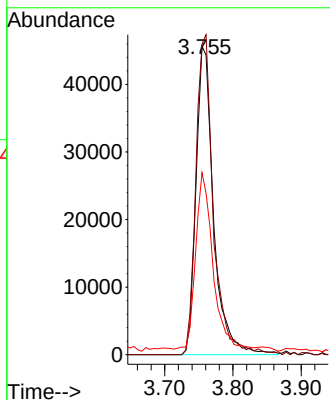
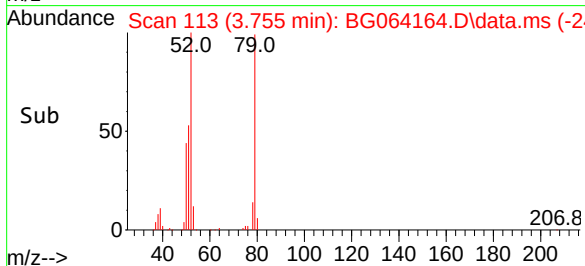
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion: 79 Resp: 81588  
Ion Ratio Lower Upper  
79 100  
52 100.7 83.0 124.6  
51 59.1 44.3 66.5

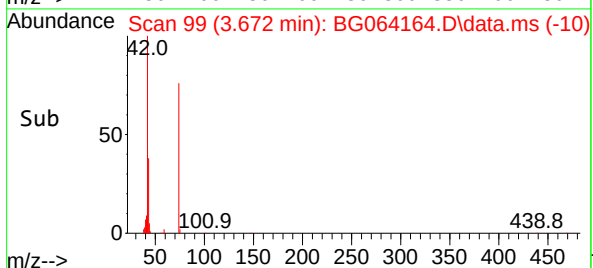
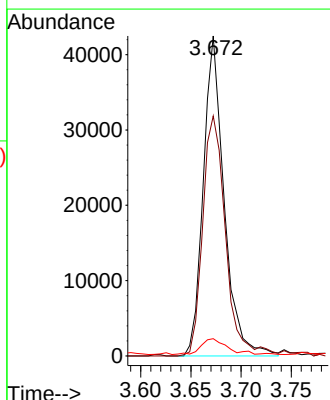
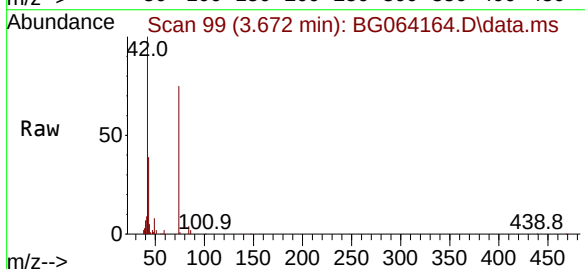
Manual Integrations  
APPROVED

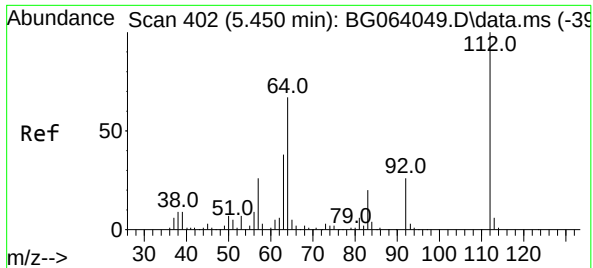
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#4  
n-Nitrosodimethylamine  
Concen: 37.032 ng  
RT: 3.672 min Scan# 99  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

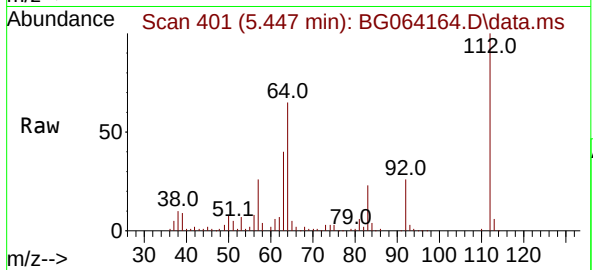
Tgt Ion: 42 Resp: 61558  
Ion Ratio Lower Upper  
42 100  
74 75.0 68.0 102.0  
44 5.4 4.9 7.3





#5  
2-Fluorophenol  
Concen: 75.960 ng  
RT: 5.447 min Scan# 401  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

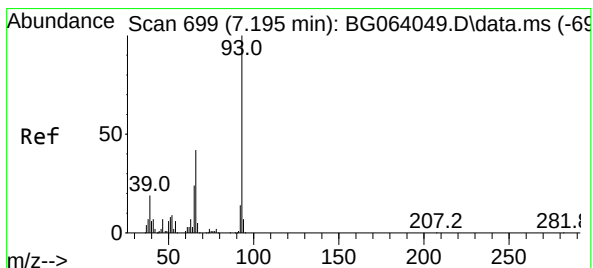
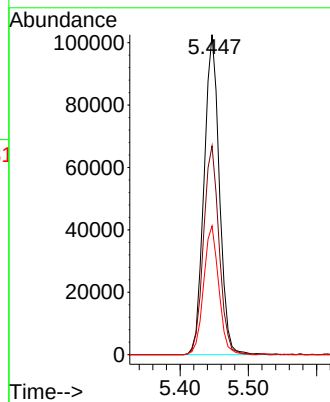
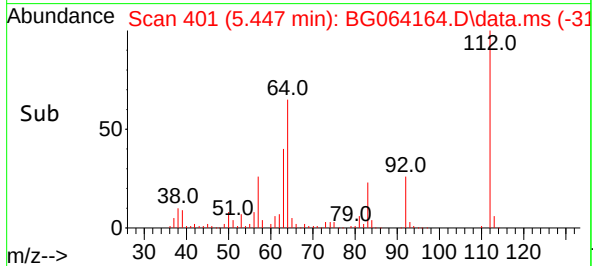
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:112 Resp: 16034  
Ion Ratio Lower Upper  
112 100  
64 65.2 53.7 80.5  
63 40.3 30.2 45.4

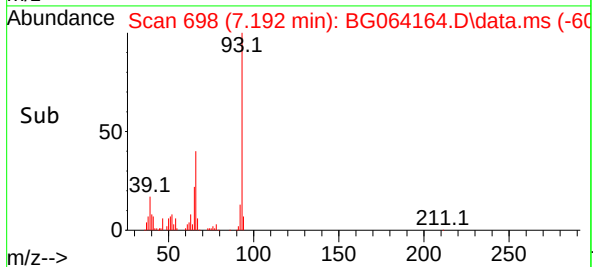
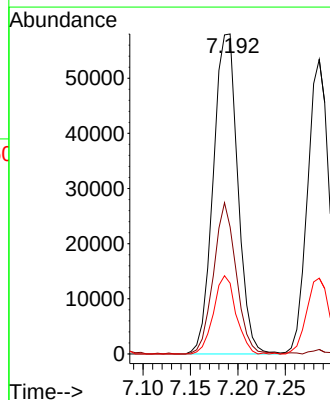
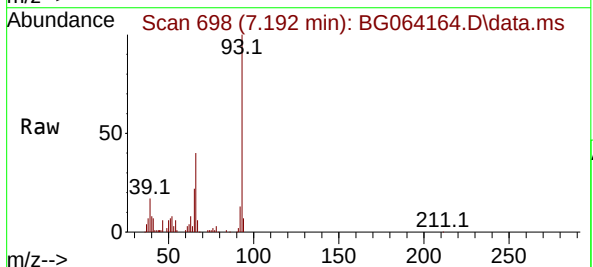
Manual Integrations  
APPROVED

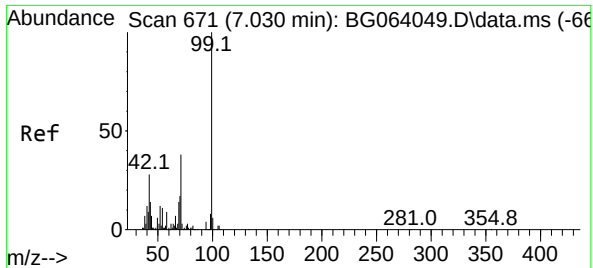
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#6  
Aniline  
Concen: 37.132 ng  
RT: 7.192 min Scan# 698  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

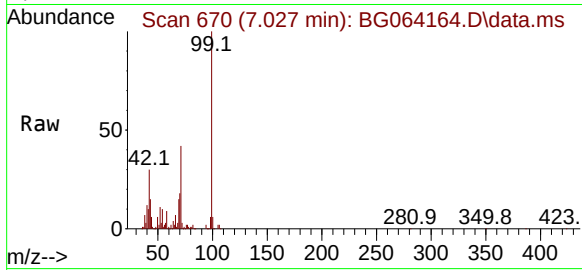
Tgt Ion: 93 Resp: 104630  
Ion Ratio Lower Upper  
93 100  
66 39.7 33.7 50.5  
65 22.1 19.1 28.7





#7  
Phenol-d6  
Concen: 79.749 ng  
RT: 7.027 min Scan# 671  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

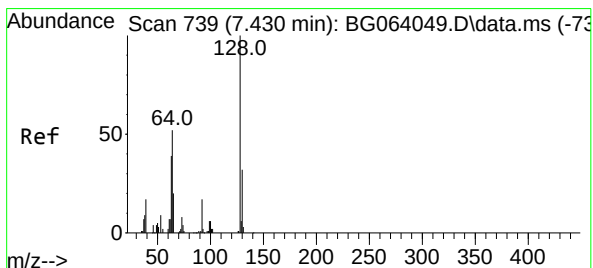
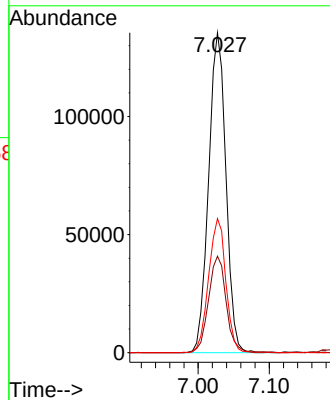
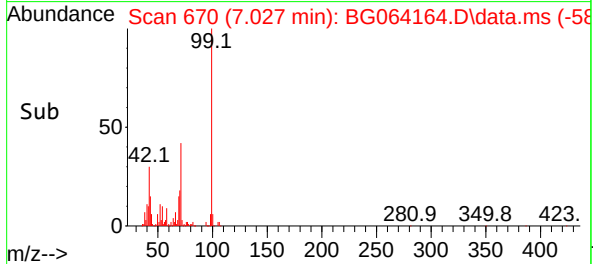
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion: 99 Resp: 22900  
Ion Ratio Lower Upper  
99 100  
42 30.2 22.7 34.1  
71 41.9 30.6 46.0

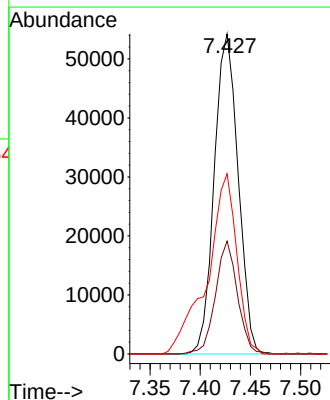
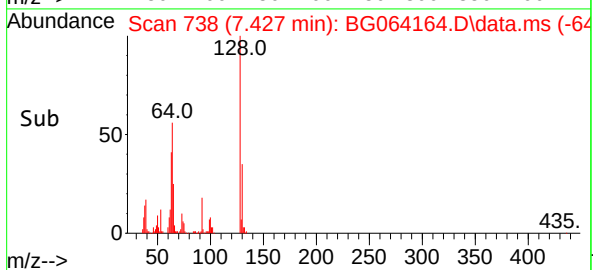
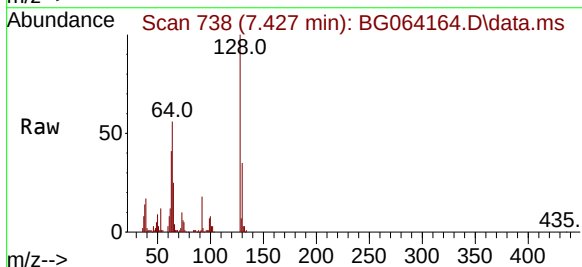
Manual Integrations  
APPROVED

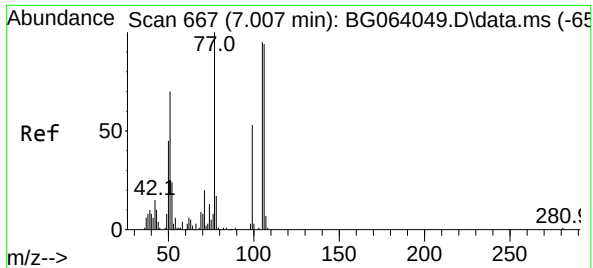
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#8  
2-Chlorophenol  
Concen: 39.498 ng  
RT: 7.427 min Scan# 738  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

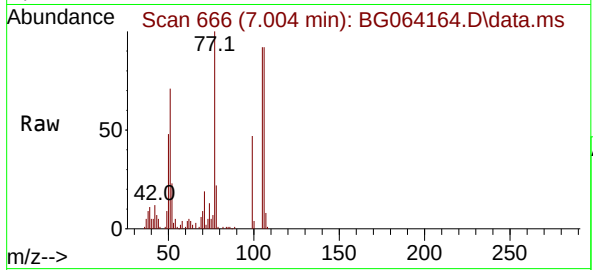
Tgt Ion:128 Resp: 89545  
Ion Ratio Lower Upper  
128 100  
130 35.3 12.3 52.3  
64 56.3 37.0 77.0





#9  
Benzaldehyde  
Concen: 36.714 ng  
RT: 7.004 min Scan# 609  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

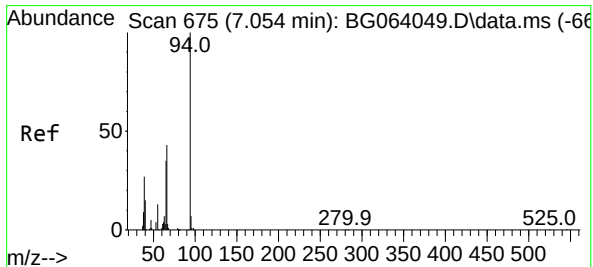
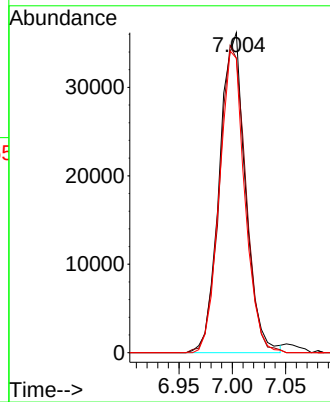
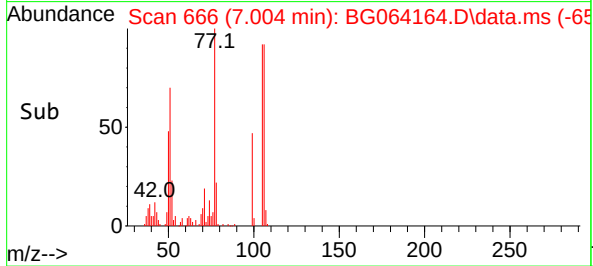
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion: 77 Resp: 61310  
Ion Ratio Lower Upper  
77 100  
105 92.0 75.5 115.5  
106 92.0 74.2 114.2

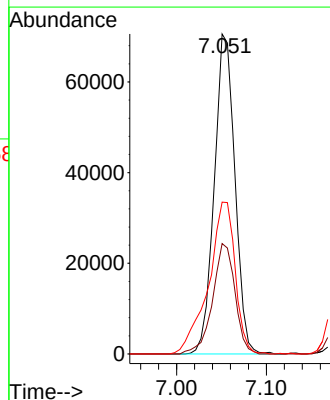
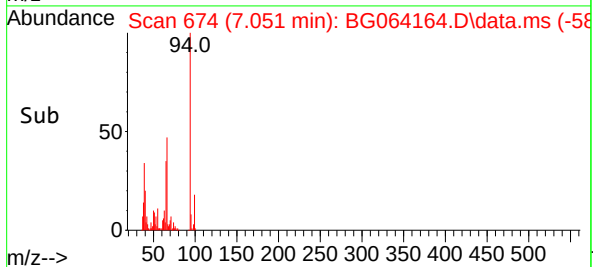
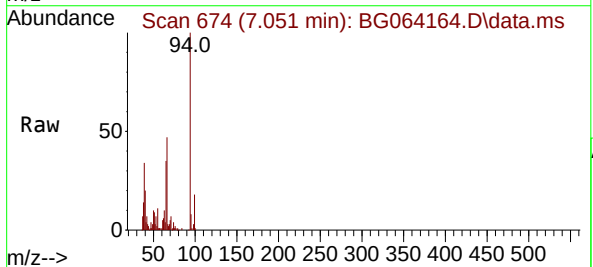
Manual Integrations  
APPROVED

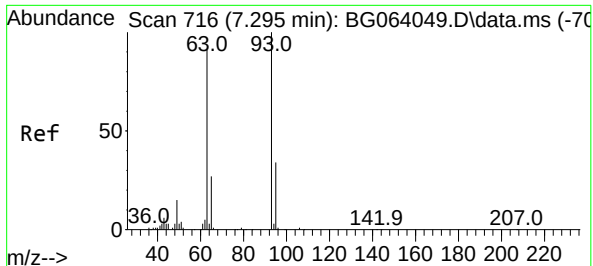
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#10  
Phenol  
Concen: 38.273 ng  
RT: 7.051 min Scan# 674  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

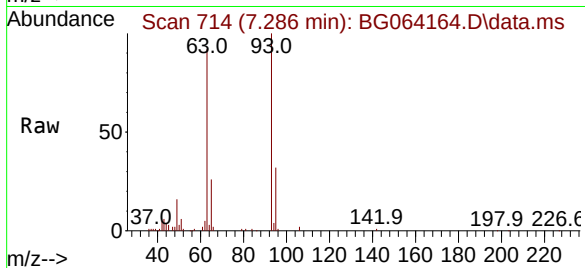
Tgt Ion: 94 Resp: 112526  
Ion Ratio Lower Upper  
94 100  
65 34.5 15.2 55.2  
66 47.5 25.1 65.1





#11  
bis(2-Chloroethyl)ether  
Concen: 36.356 ng  
RT: 7.286 min Scan# 714  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

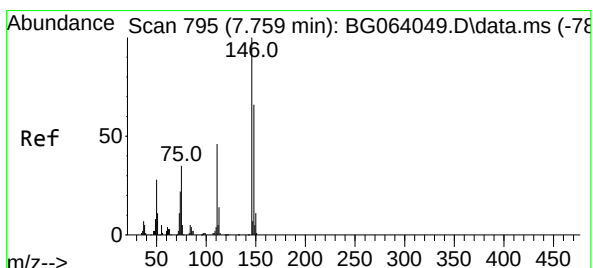
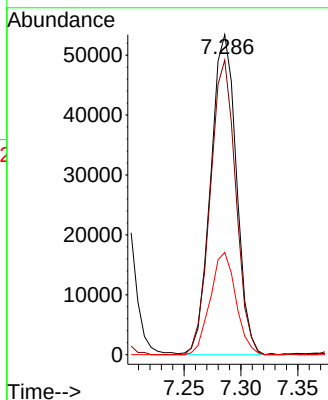
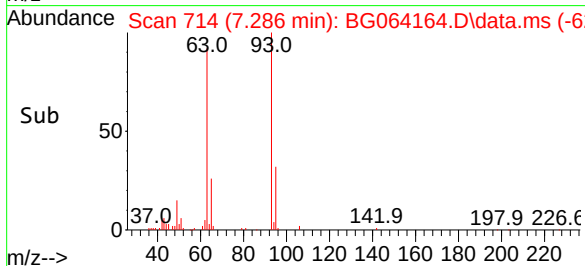
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion: 93 Resp: 83800  
Ion Ratio Lower Upper  
93 100  
63 92.1 70.0 110.0  
95 32.0 13.7 53.7

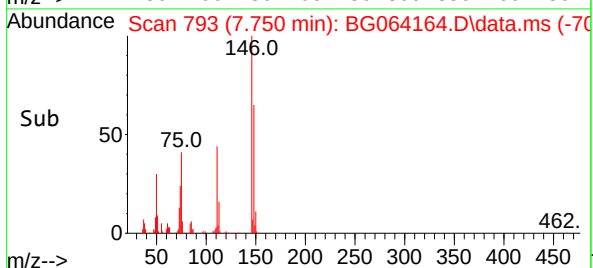
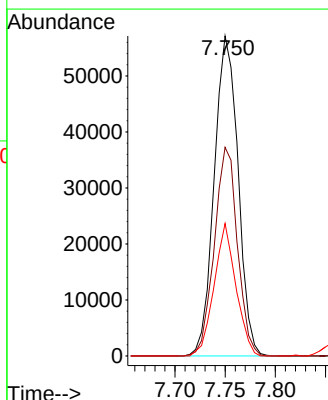
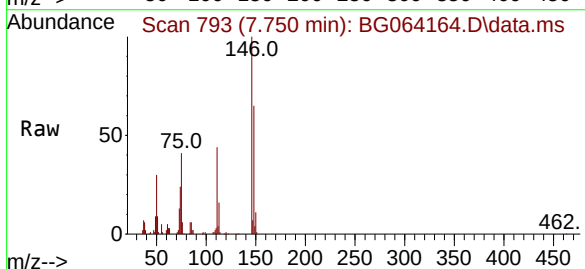
Manual Integrations  
APPROVED

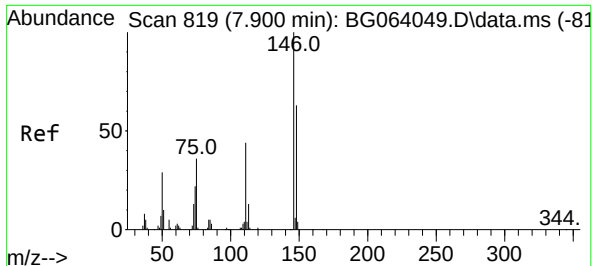
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#12  
1,3-Dichlorobenzene  
Concen: 37.811 ng  
RT: 7.750 min Scan# 793  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Tgt Ion:146 Resp: 94134  
Ion Ratio Lower Upper  
146 100  
148 65.2 52.6 78.8  
75 41.4 28.1 42.1





#13

1,4-Dichlorobenzene

Concen: 37.485 ng

RT: 7.897 min Scan# 81

Delta R.T. -0.003 min

Lab File: BG064164.D

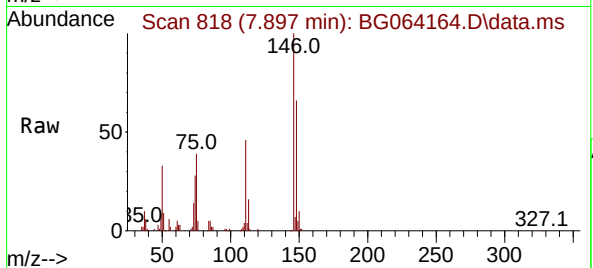
Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040



Tgt Ion:146 Resp: 95654

Ion Ratio Lower Upper

146 100

148 65.8 50.6 75.8

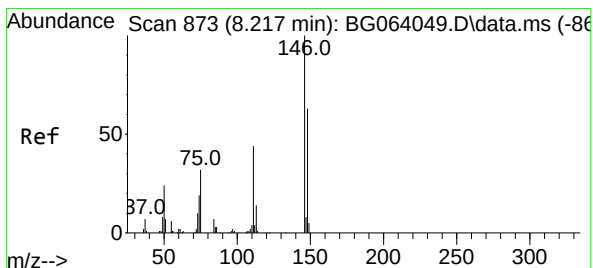
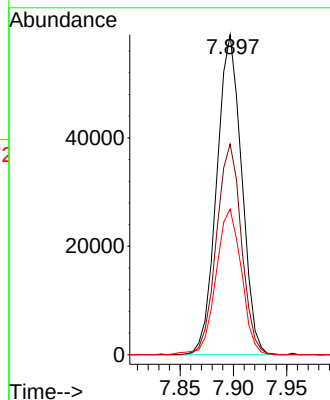
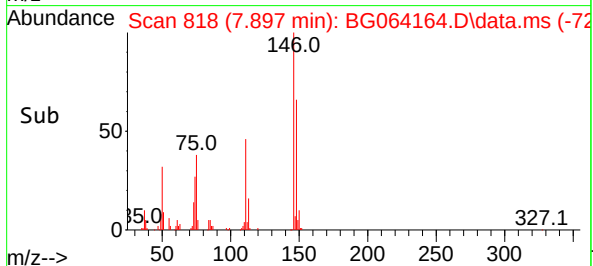
111 45.5 35.1 52.7

Manual Integrations

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Reviewed By :Anahy Claudio 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#14

1,2-Dichlorobenzene

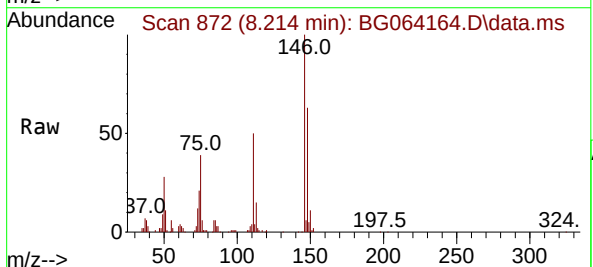
Concen: 38.510 ng

RT: 8.214 min Scan# 872

Delta R.T. -0.003 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04



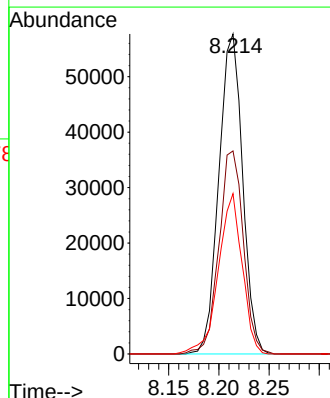
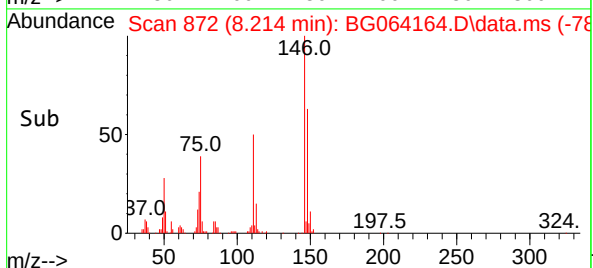
Tgt Ion:146 Resp: 94758

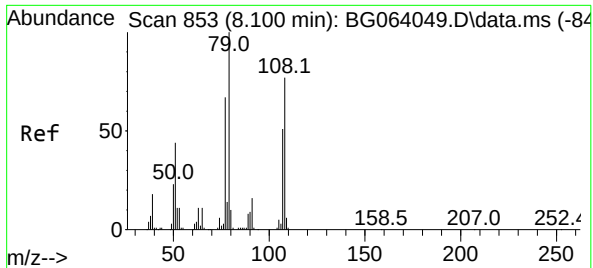
Ion Ratio Lower Upper

146 100

148 63.5 50.2 75.2

111 50.1 36.4 54.6





#15

Benzyl Alcohol

Concen: 42.949 ng

RT: 8.097 min Scan# 81

Delta R.T. -0.003 min

Lab File: BG064164.D

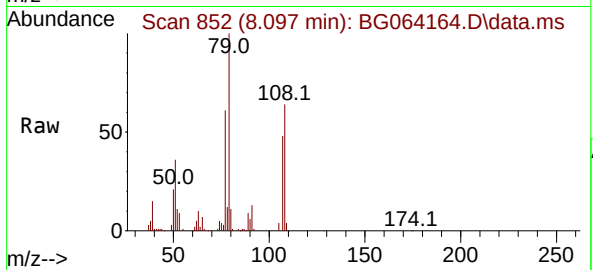
Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040



Tgt Ion: 79 Resp: 9530

Ion Ratio Lower Upper

79 100

108 64.2 61.7 92.5

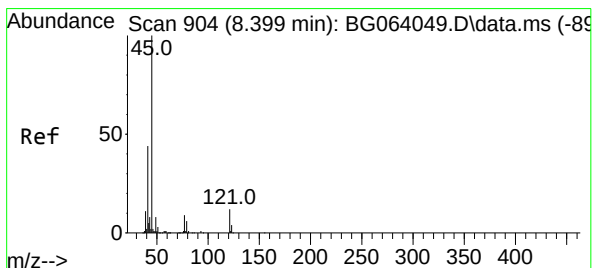
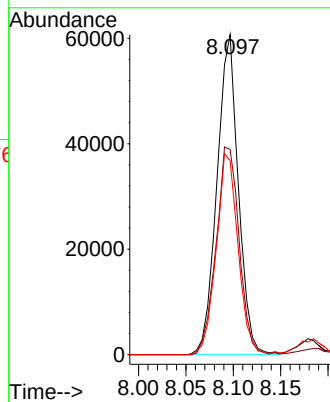
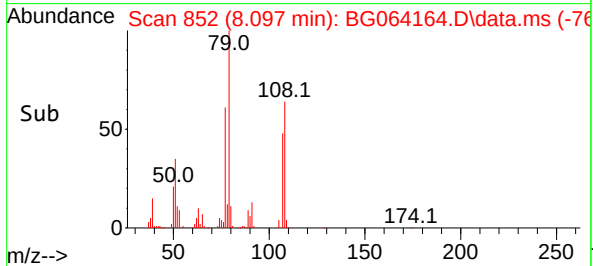
77 60.6 53.9 80.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 36.829 ng

RT: 8.390 min Scan# 902

Delta R.T. -0.009 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04

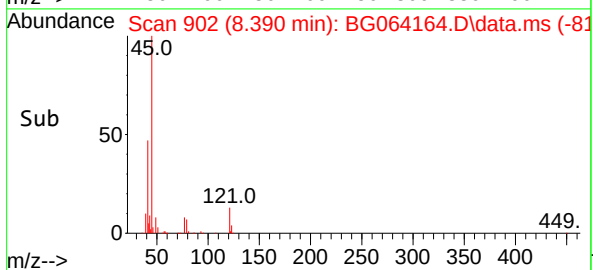
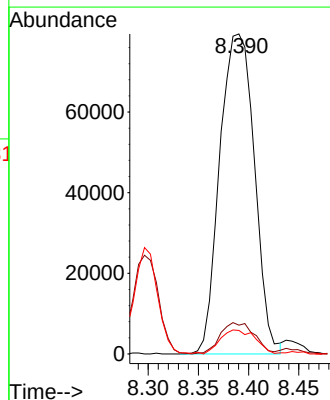
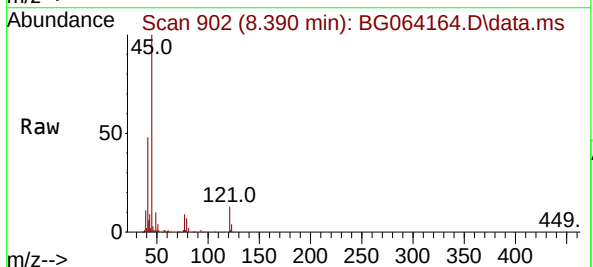
Tgt Ion: 45 Resp: 190880

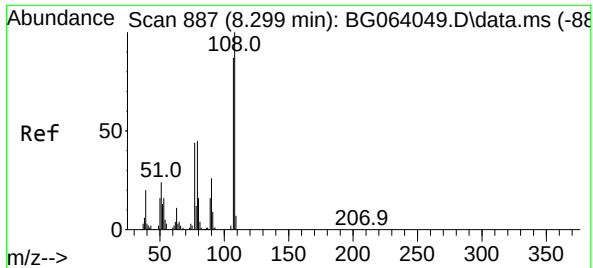
Ion Ratio Lower Upper

45 100

77 9.0 0.0 29.0

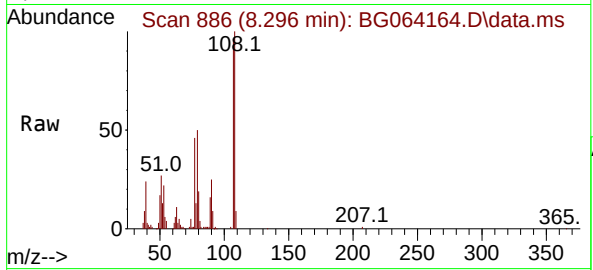
79 7.4 0.0 26.6





#17  
2-Methylphenol  
Concen: 41.235 ng  
RT: 8.296 min Scan# 887  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

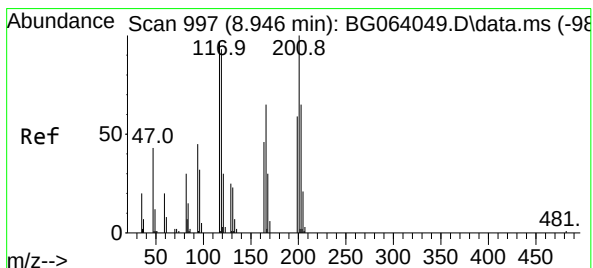
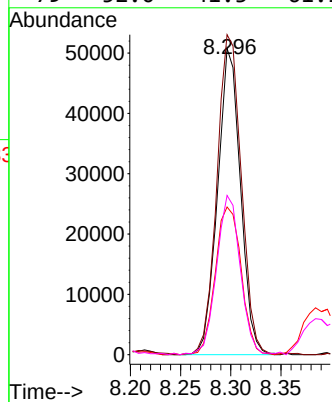
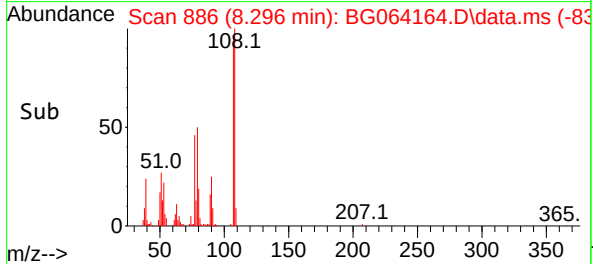
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:107 Resp: 8046  
Ion Ratio Lower Upper  
107 100  
108 104.5 92.5 138.7  
77 48.2 40.5 60.7  
79 52.0 41.3 61.9

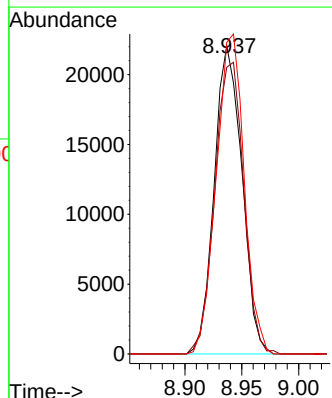
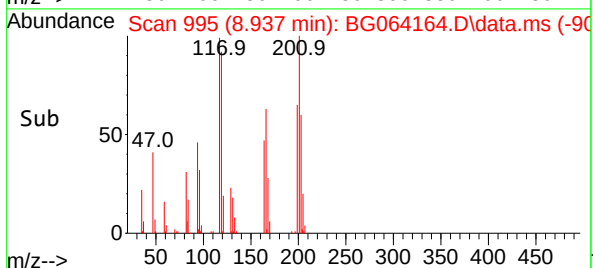
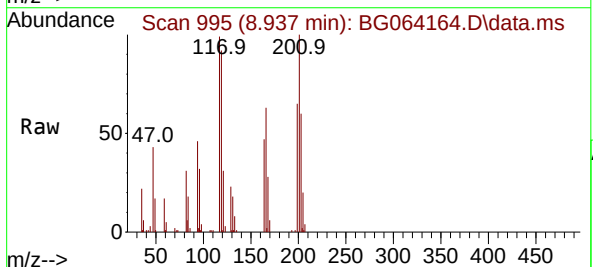
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

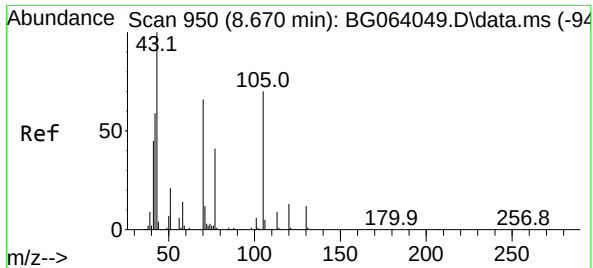


#18  
Hexachloroethane  
Concen: 41.940 ng  
RT: 8.937 min Scan# 995  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Tgt Ion:117 Resp: 37444  
Ion Ratio Lower Upper  
117 100  
119 94.5 76.2 114.2  
201 101.1 81.5 122.3

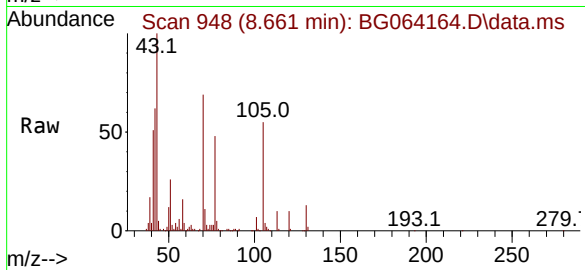






#19  
n-Nitroso-di-n-propylamine  
Concen: 40.336 ng  
RT: 8.661 min Scan# 948  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

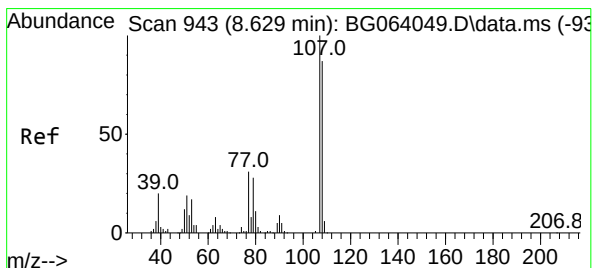
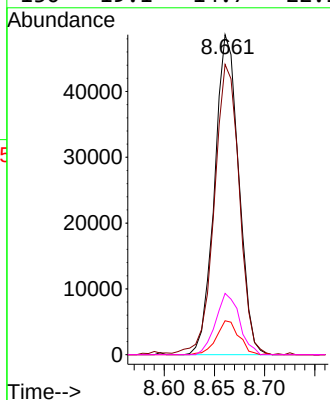
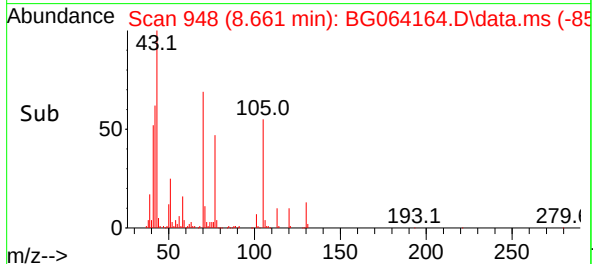
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion: 70 Resp: 8128  
Ion Ratio Lower Upper  
70 100  
42 90.7 72.1 108.1  
101 10.6 7.2 10.8  
130 19.1 14.7 22.1

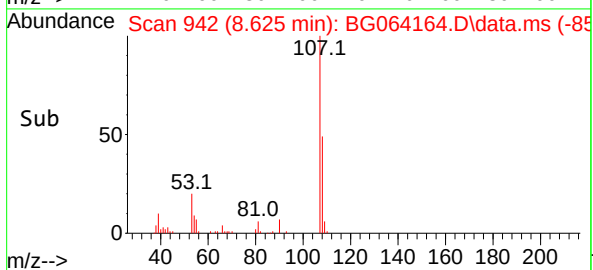
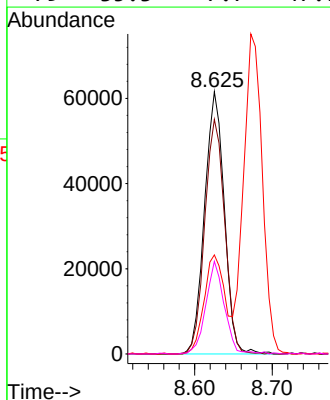
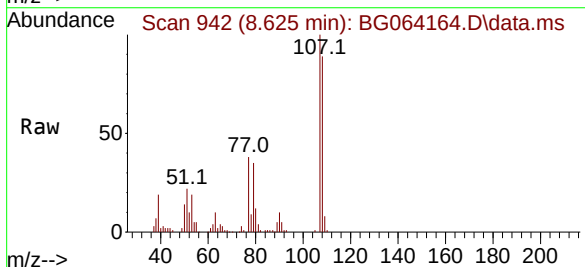
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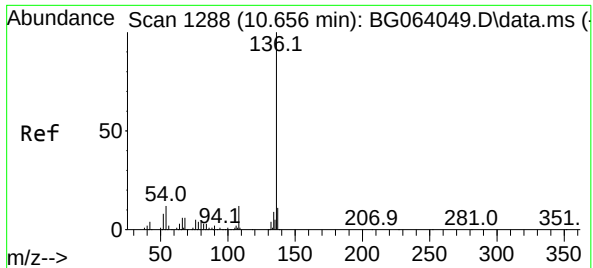
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#20  
3+4-Methylphenols  
Concen: 40.565 ng  
RT: 8.625 min Scan# 942  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

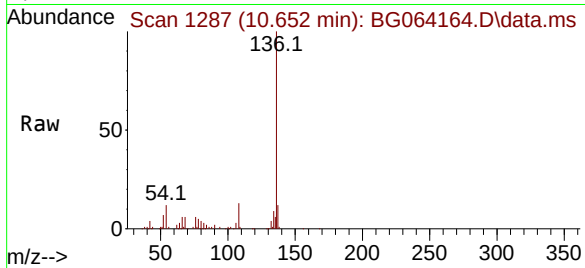
Tgt Ion:107 Resp: 108970  
Ion Ratio Lower Upper  
107 100  
108 89.5 67.0 107.0  
77 37.8 11.2 51.2  
79 35.3 7.7 47.7





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.652 min Scan# 11  
Delta R.T. -0.004 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

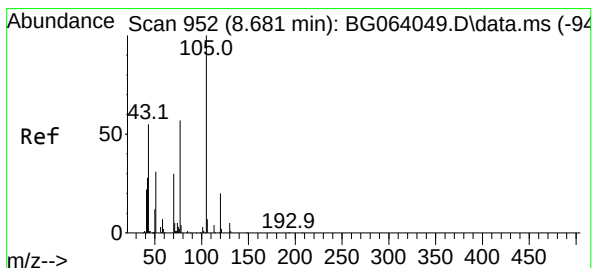
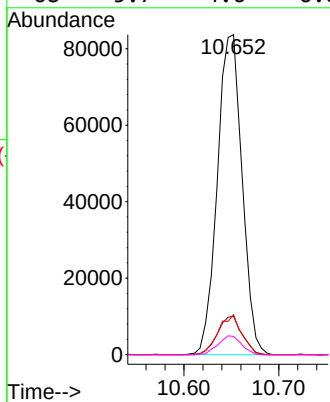
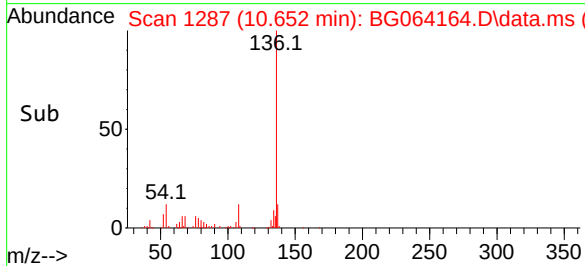
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:136 Resp: 15198  
Ion Ratio Lower Upper  
136 100  
137 12.0 8.5 12.7  
54 12.5 9.9 14.9  
68 5.7 4.6 6.8

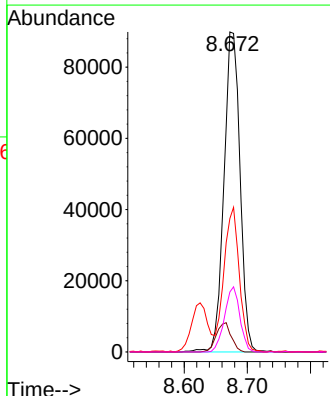
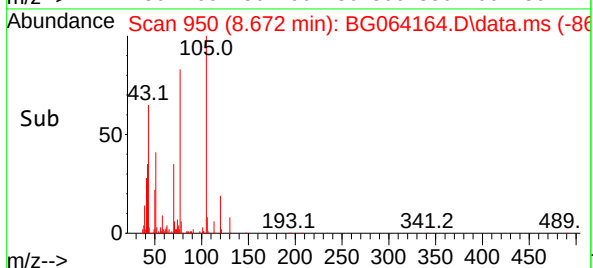
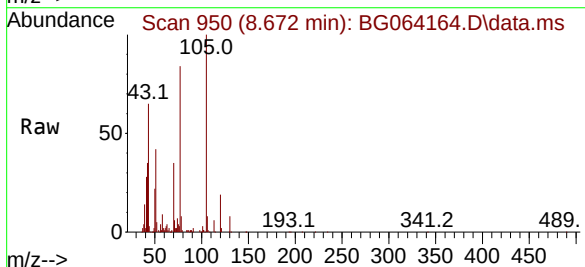
Manual Integrations  
APPROVED

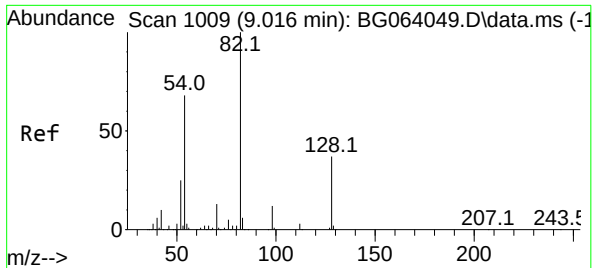
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#22  
Acetophenone  
Concen: 38.113 ng  
RT: 8.672 min Scan# 950  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Tgt Ion:105 Resp: 158820  
Ion Ratio Lower Upper  
105 100  
71 5.6 4.2 6.4  
51 41.7 33.3 49.9  
120 18.7 15.9 23.9





#23

Nitrobenzene-d5

Concen: 85.429 ng

RT: 9.013 min Scan# 1008

Delta R.T. -0.003 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

Tgt Ion: 82 Resp: 234949

Ion Ratio Lower Upper

82 100

128 38.7 30.0 45.0

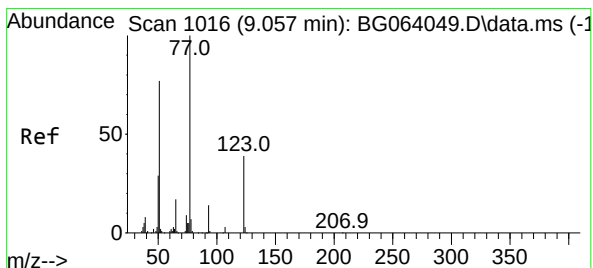
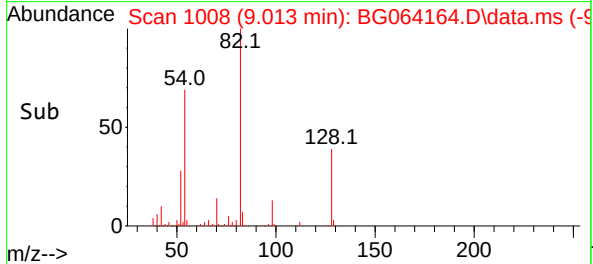
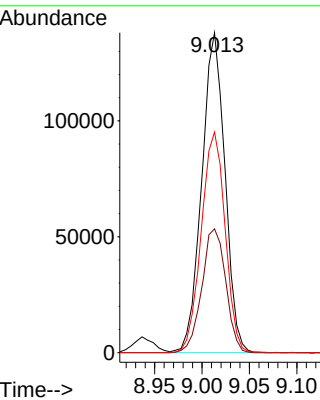
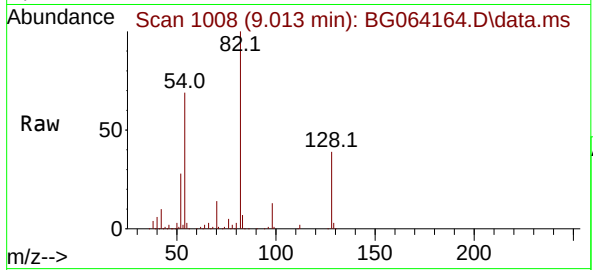
54 69.0 54.7 82.1

Manual Integrations

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Reviewed By :Anahy Claudio 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#24

Nitrobenzene

Concen: 42.235 ng

RT: 9.054 min Scan# 1015

Delta R.T. -0.003 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04

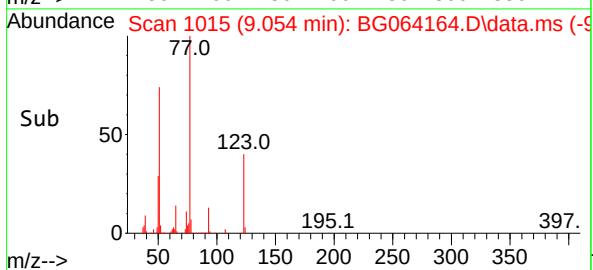
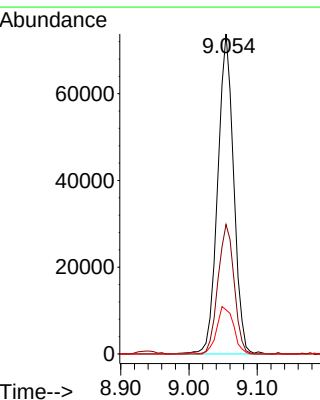
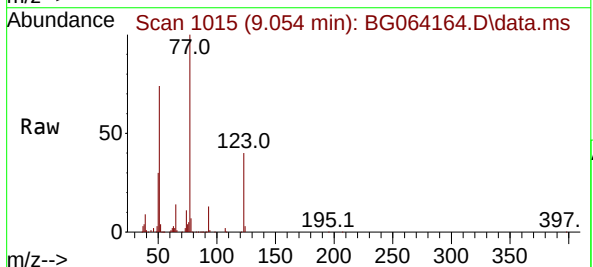
Tgt Ion: 77 Resp: 120042

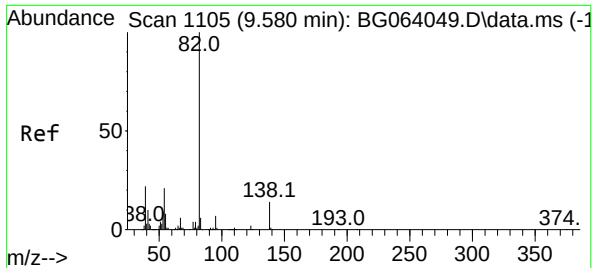
Ion Ratio Lower Upper

77 100

123 40.5 31.4 47.2

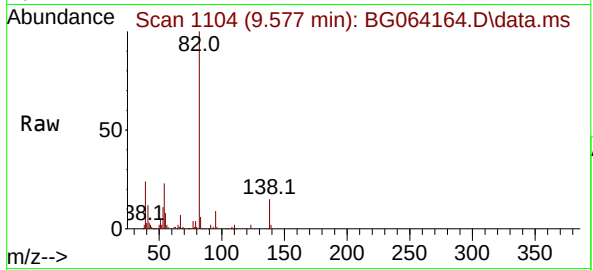
65 13.8 13.4 20.0





#25  
Isophorone  
Concen: 37.430 ng  
RT: 9.577 min Scan# 1104  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

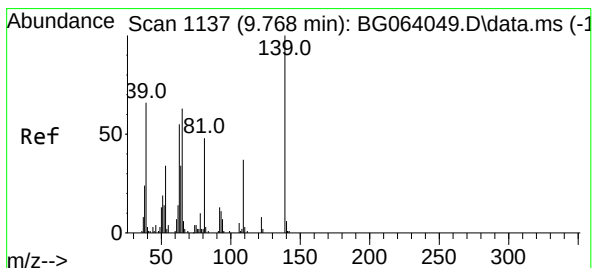
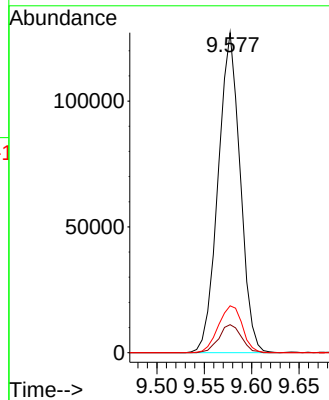
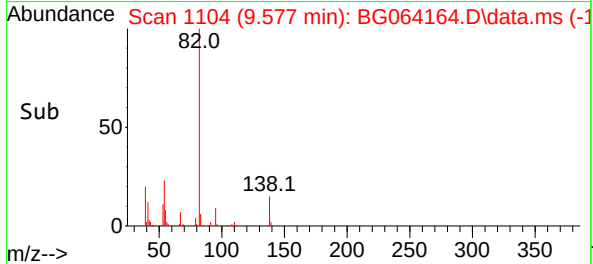
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion: 82 Resp: 206038  
Ion Ratio Lower Upper  
82 100  
95 8.8 5.8 8.8  
138 14.6 10.9 16.3

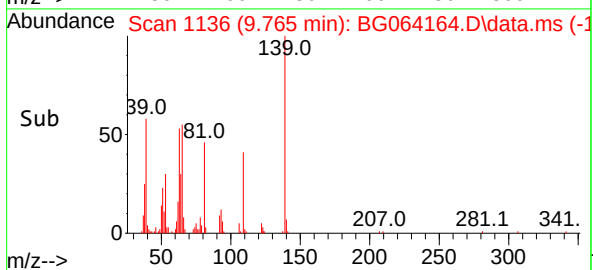
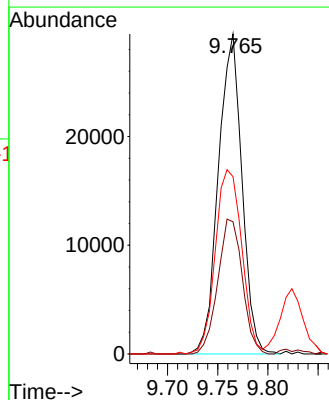
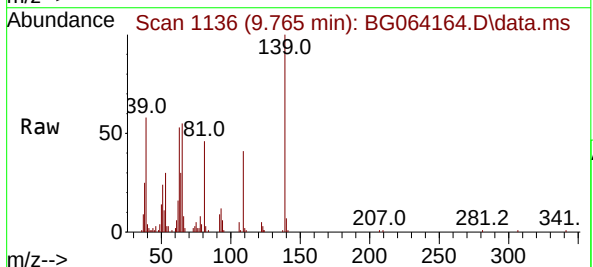
Manual Integrations  
APPROVED

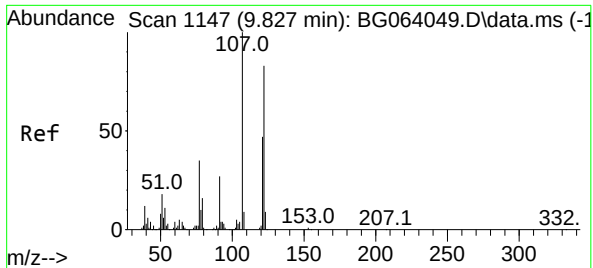
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#26  
2-Nitrophenol  
Concen: 48.689 ng  
RT: 9.765 min Scan# 1136  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Tgt Ion:139 Resp: 48005  
Ion Ratio Lower Upper  
139 100  
109 41.3 29.9 44.9  
65 55.4 50.6 76.0





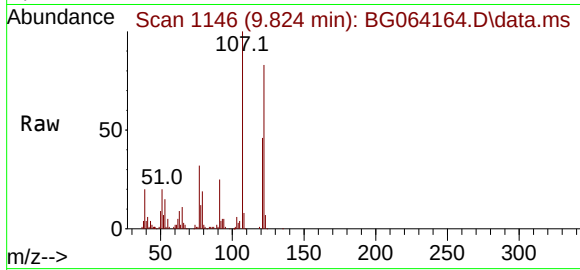
#27  
2,4-Dimethylphenol  
Concen: 40.907 ng  
RT: 9.824 min Scan# 1146  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

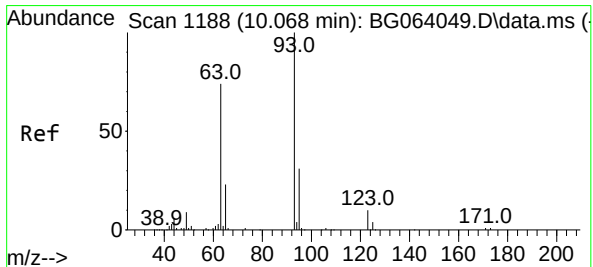
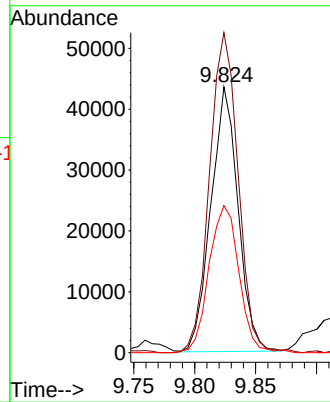
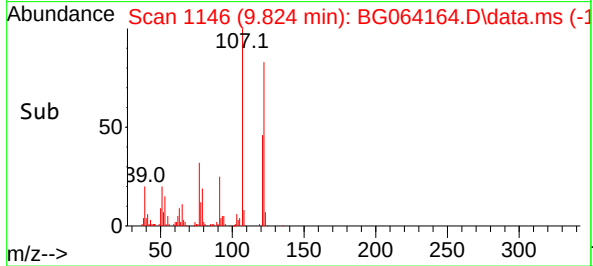


Tgt Ion:122 Resp: 67500  
Ion Ratio Lower Upper  
122 100  
107 120.4 95.4 143.0  
121 55.4 44.9 67.3

Manual Integrations

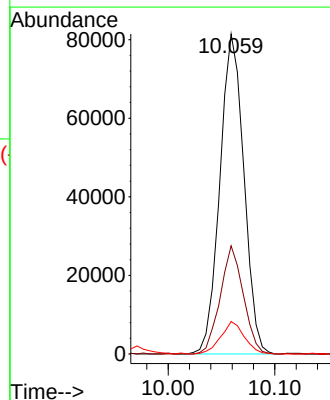
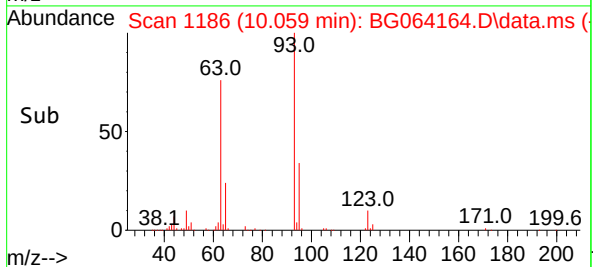
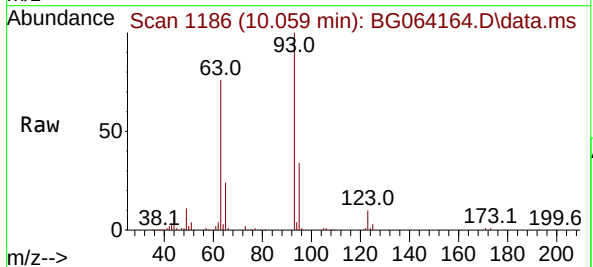
APPROVED

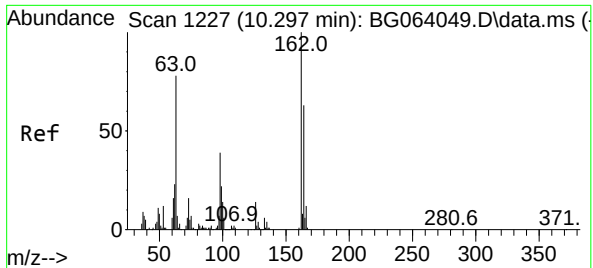
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#28  
bis(2-Chloroethoxy)methane  
Concen: 38.083 ng  
RT: 10.059 min Scan# 1186  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

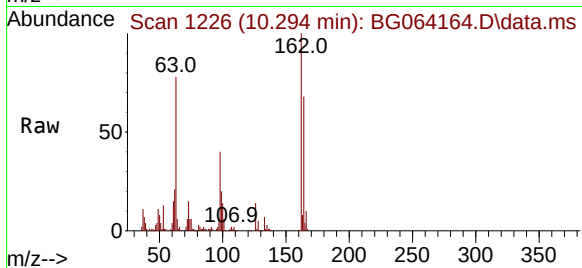
Tgt Ion: 93 Resp: 127095  
Ion Ratio Lower Upper  
93 100  
95 33.8 25.0 37.4  
123 10.2 7.6 11.4





#29  
2,4-Dichlorophenol  
Concen: 42.643 ng  
RT: 10.294 min Scan# 1226  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

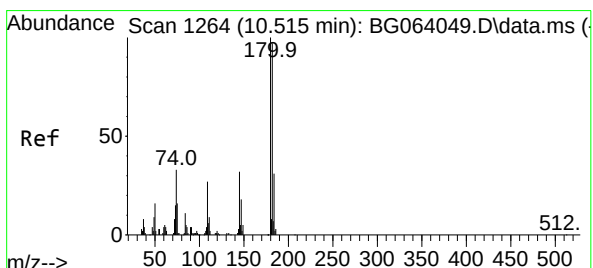
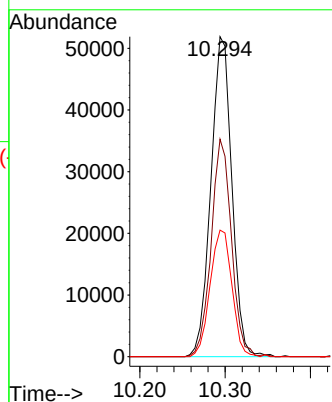
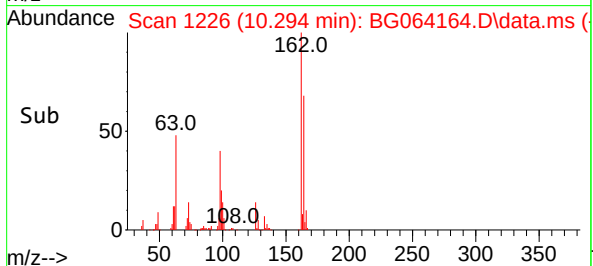
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:162 Resp: 8885  
Ion Ratio Lower Upper  
162 100  
164 68.0 42.8 82.8  
98 39.5 19.1 59.1

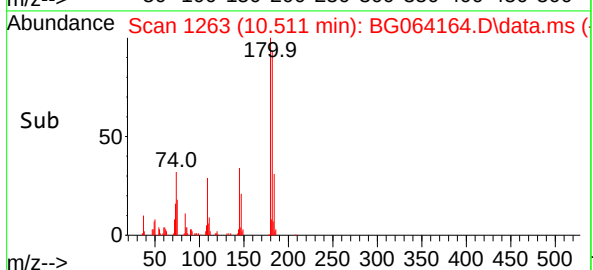
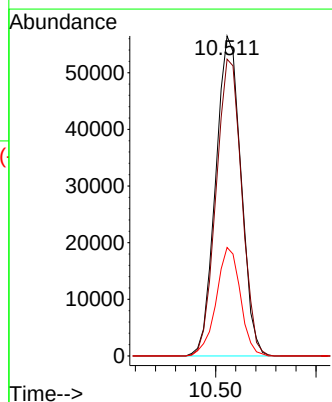
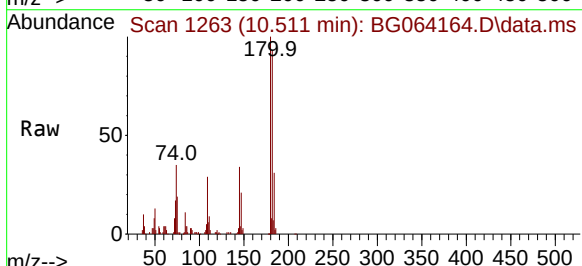
Manual Integrations  
APPROVED

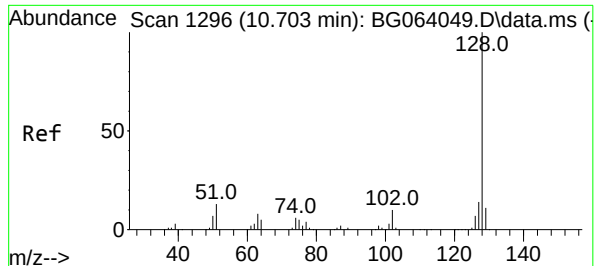
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#30  
1,2,4-Trichlorobenzene  
Concen: 39.309 ng  
RT: 10.511 min Scan# 1263  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Tgt Ion:180 Resp: 98879  
Ion Ratio Lower Upper  
180 100  
182 92.7 77.3 115.9  
145 33.9 25.2 37.8





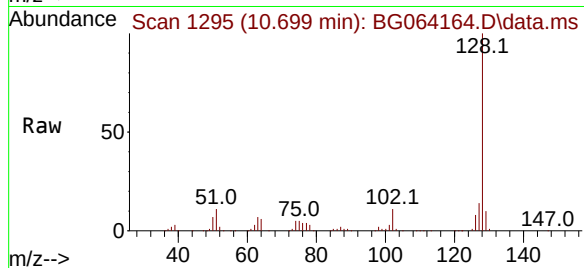
#31  
Naphthalene  
Concen: 39.722 ng  
RT: 10.699 min Scan# 1170  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

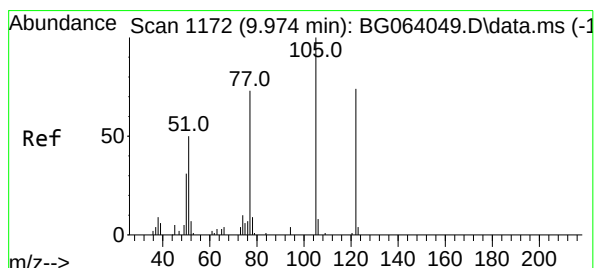
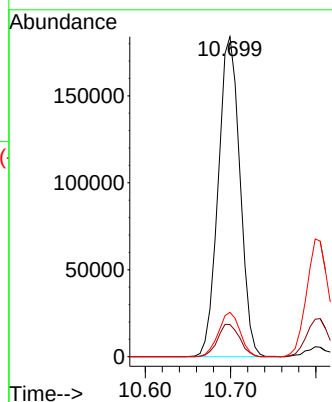
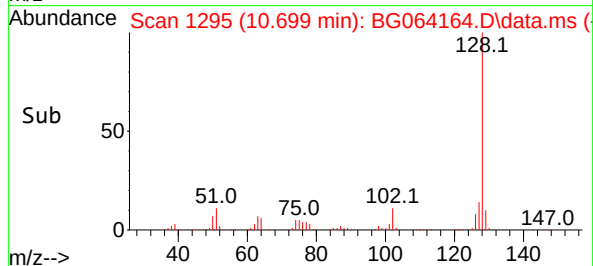


Tgt Ion:128 Resp: 32553  
Ion Ratio Lower Upper  
128 100  
129 10.0 8.4 12.6  
127 13.9 11.1 16.7

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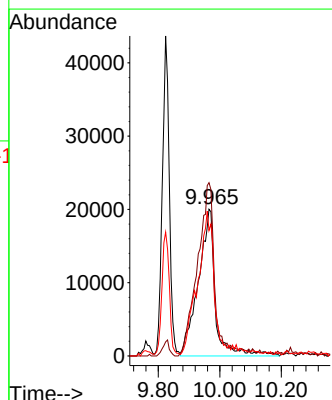
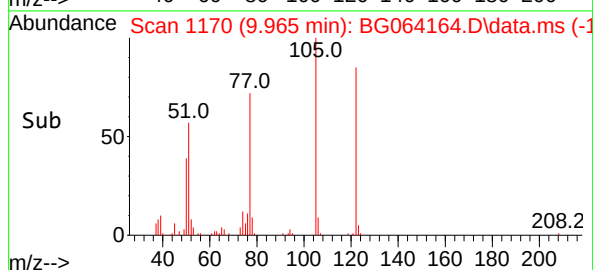
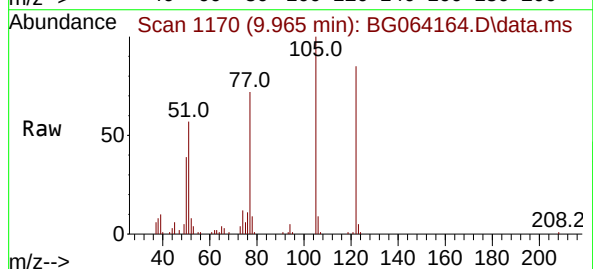
APPROVED

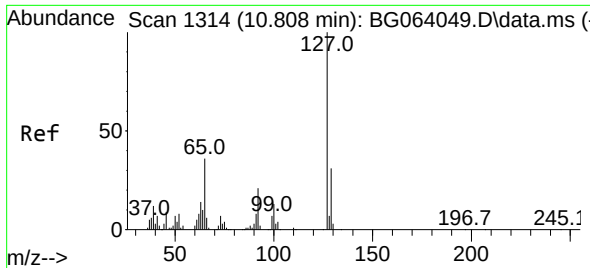
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#32  
Benzoic acid  
Concen: 50.168 ng m  
RT: 9.965 min Scan# 1170  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

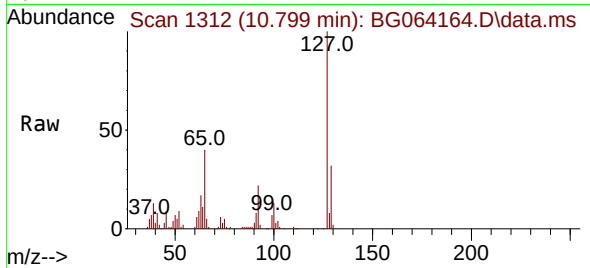
Tgt Ion:122 Resp: 76750  
Ion Ratio Lower Upper  
122 100  
105 118.0 115.0 155.0  
77 85.5 80.9 120.9





#33  
4-Chloroaniline  
Concen: 40.475 ng  
RT: 10.799 min Scan# 11  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

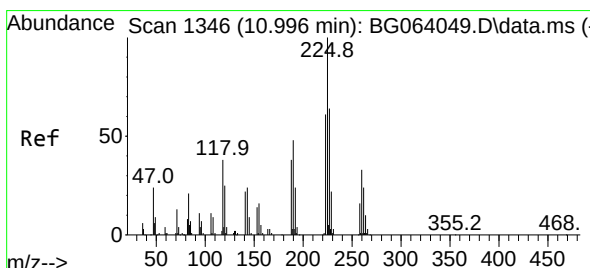
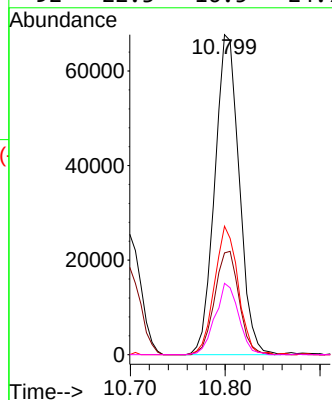
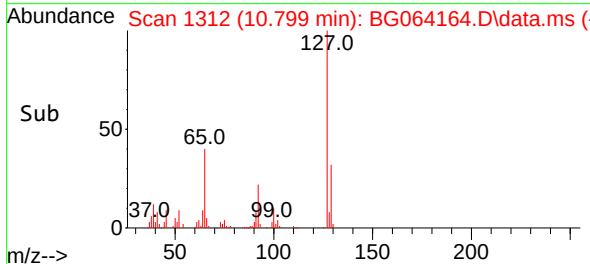
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:127 Resp: 121235  
Ion Ratio Lower Upper  
127 100  
129 31.8 25.0 37.4  
65 40.1 28.5 42.7  
92 22.3 16.5 24.7

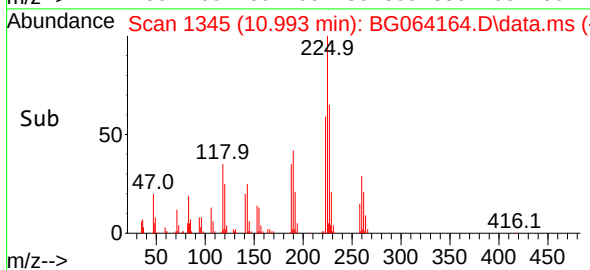
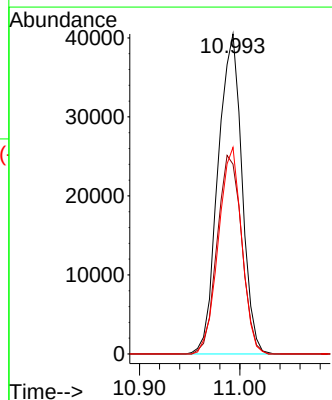
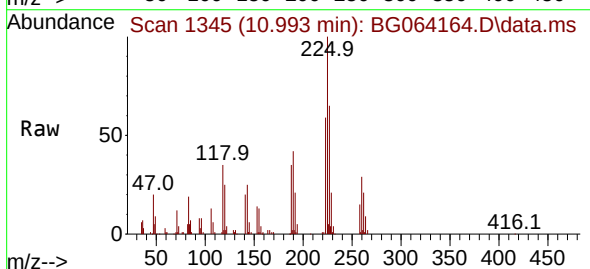
Manual Integrations  
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Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

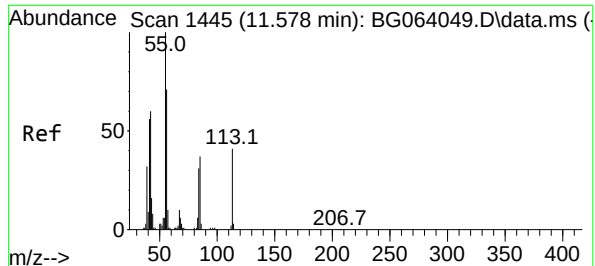


#34  
Hexachlorobutadiene  
Concen: 40.574 ng  
RT: 10.993 min Scan# 1345  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Tgt Ion:225 Resp: 66897  
Ion Ratio Lower Upper  
225 100  
223 59.3 48.5 72.7  
227 64.5 51.0 76.6







#35

Caprolactam

Concen: 42.361 ng

RT: 11.569 min Scan# 14

Delta R.T. -0.009 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

Tgt Ion:113 Resp: 33820

Ion Ratio Lower Upper

113 100

55 230.4 225.2 265.2

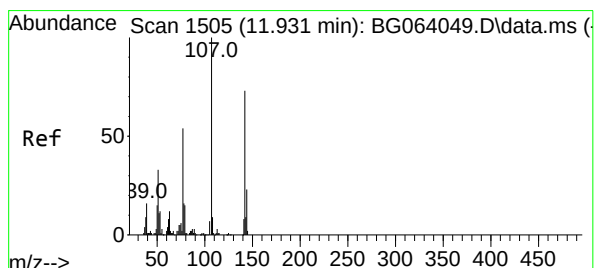
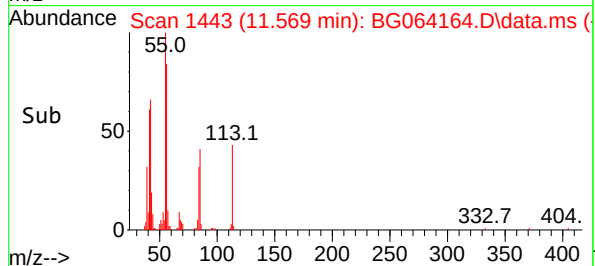
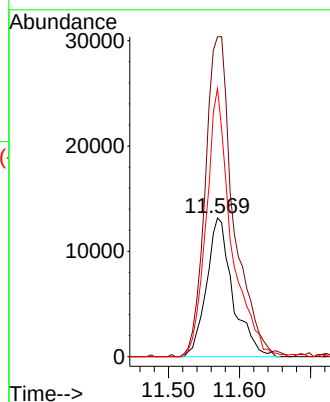
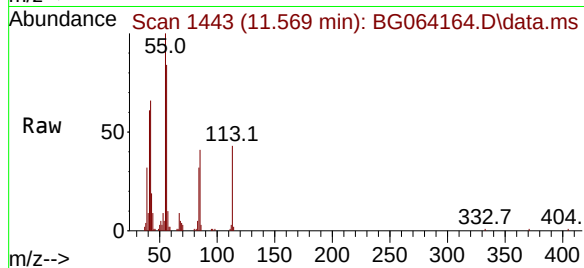
56 193.2 153.4 193.4

Manual Integrations

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Reviewed By :Anahy Claudio 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#36

4-Chloro-3-methylphenol

Concen: 44.169 ng

RT: 11.927 min Scan# 1504

Delta R.T. -0.003 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04

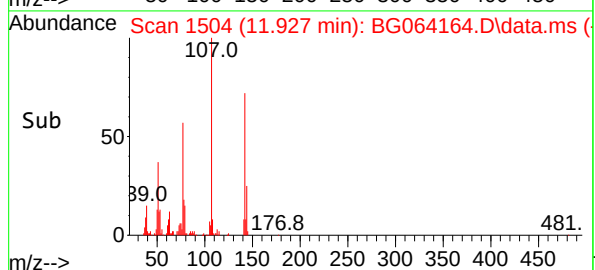
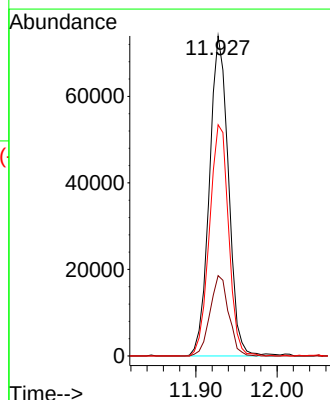
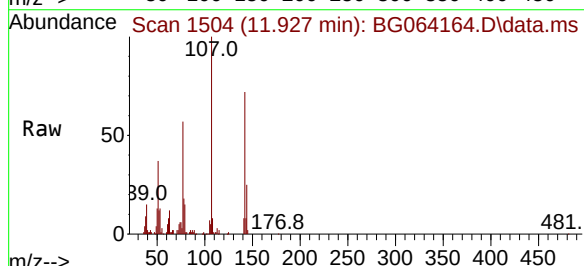
Tgt Ion:107 Resp: 120643

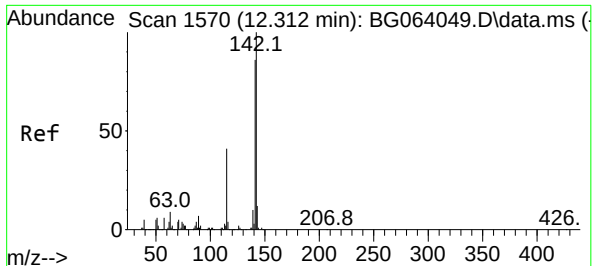
Ion Ratio Lower Upper

107 100

144 25.1 18.6 28.0

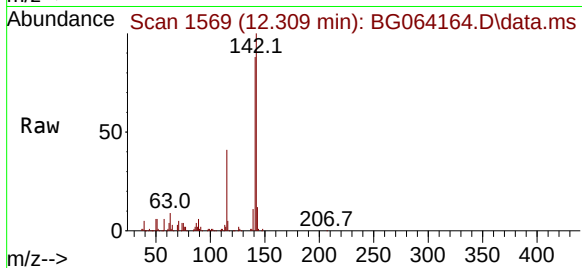
142 72.2 58.0 87.0





#37  
2-Methylnaphthalene  
Concen: 41.937 ng  
RT: 12.309 min Scan# 1569  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

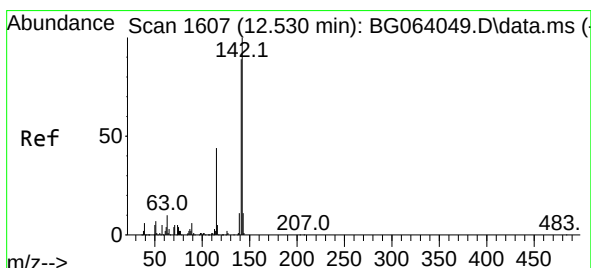
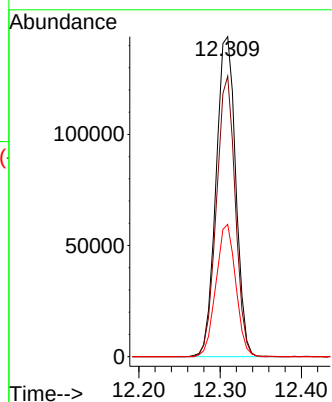
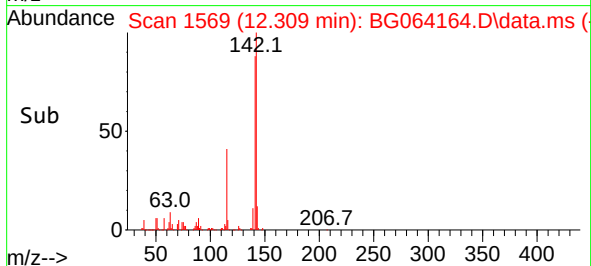
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:142 Resp: 242629  
Ion Ratio Lower Upper  
142 100  
141 87.6 68.6 103.0  
115 41.4 32.8 49.2

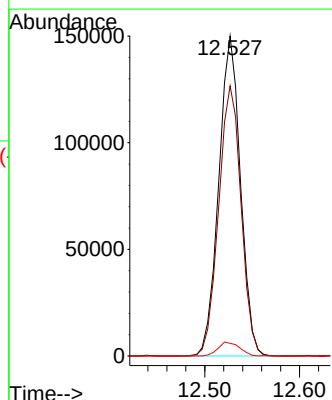
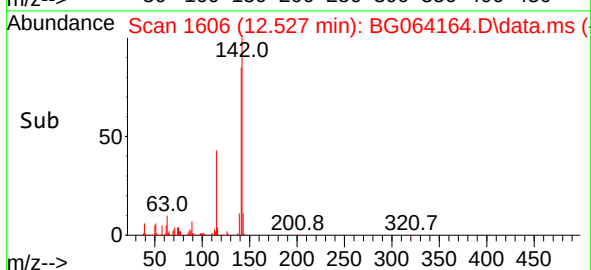
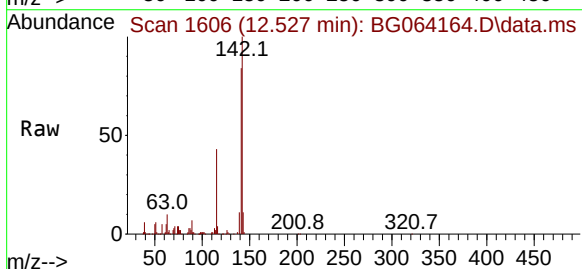
Manual Integrations  
APPROVED

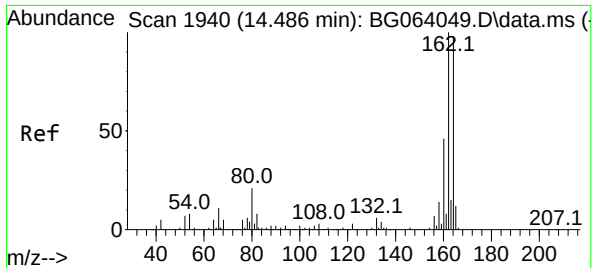
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#38  
1-Methylnaphthalene  
Concen: 42.088 ng  
RT: 12.527 min Scan# 1606  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Tgt Ion:142 Resp: 238561  
Ion Ratio Lower Upper  
142 100  
141 84.4 71.2 106.8  
116 3.9 3.6 5.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.483 min Scan# 1940

Delta R.T. -0.003 min

Lab File: BG064164.D

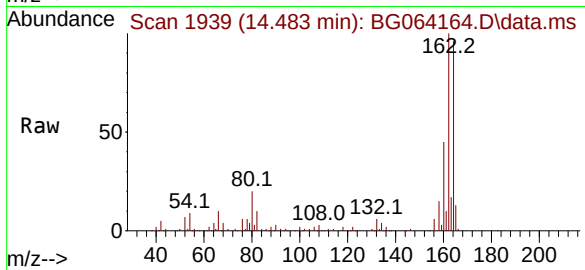
Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040



Tgt Ion:164 Resp: 11301

Ion Ratio Lower Upper

164 100

162 104.2 81.4 122.0

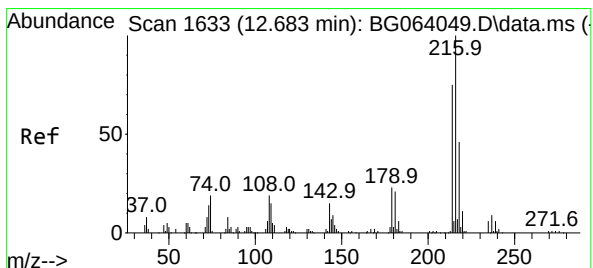
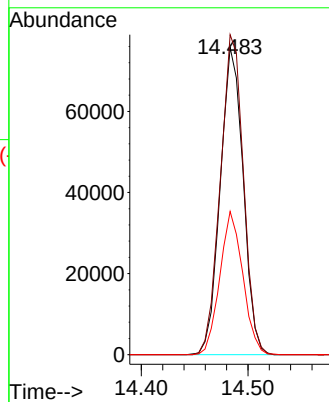
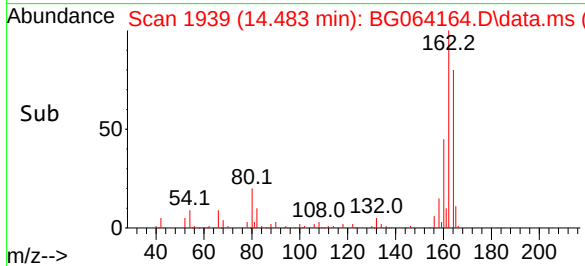
160 46.6 37.0 55.6

Manual Integrations

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Reviewed By :Anahy Claudio 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#40

1,2,4,5-Tetrachlorobenzene

Concen: 39.010 ng

RT: 12.679 min Scan# 1632

Delta R.T. -0.003 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04

Tgt Ion:216 Resp: 125862

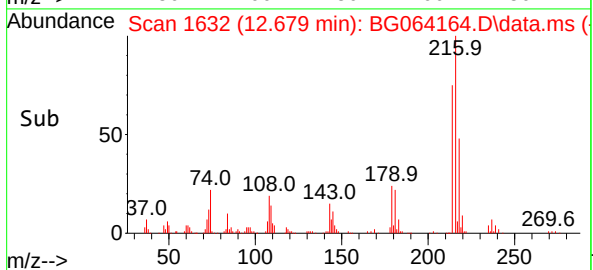
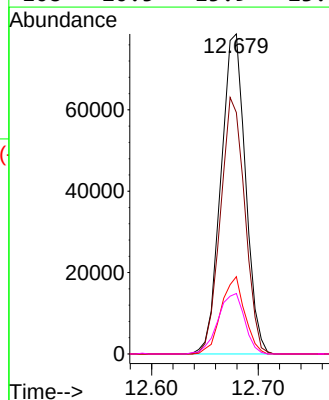
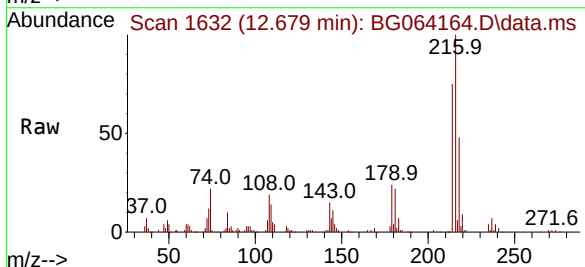
Ion Ratio Lower Upper

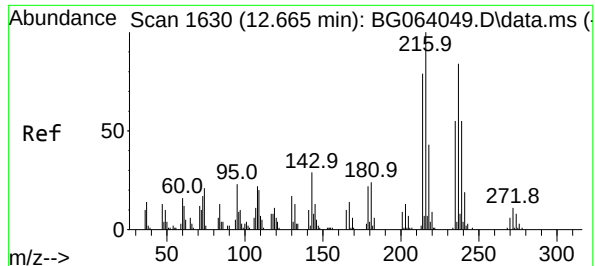
216 100

214 79.3 61.7 92.5

179 23.2 17.9 26.9

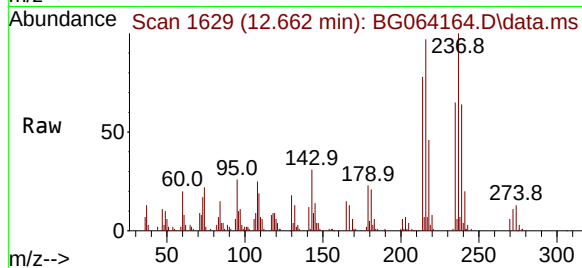
108 20.5 15.9 23.9





#41  
Hexachlorocyclopentadiene  
Concen: 55.656 ng  
RT: 12.662 min Scan# 1629  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

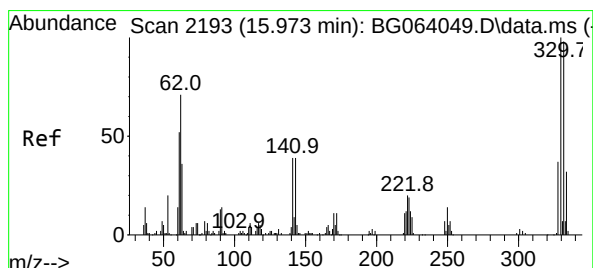
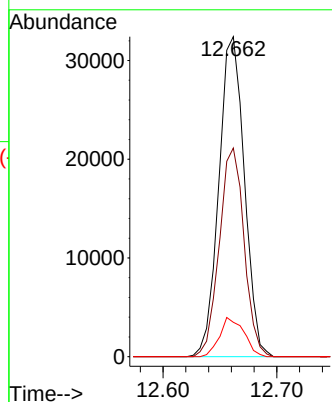
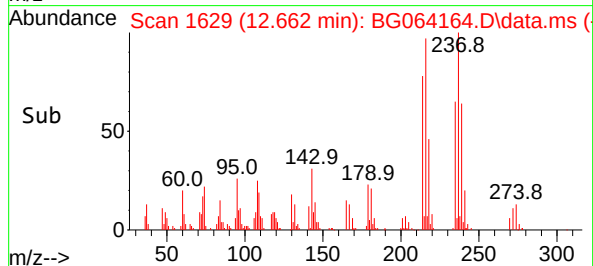
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



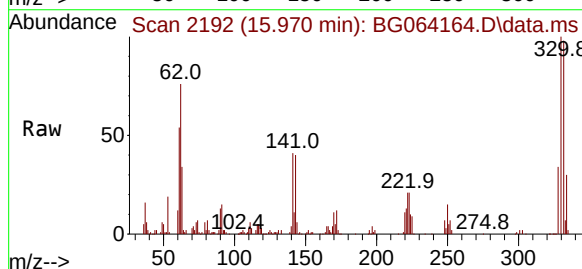
Tgt Ion:237 Resp: 50540  
Ion Ratio Lower Upper  
237 100  
235 65.2 46.0 86.0  
272 10.8 0.0 32.8

Manual Integrations  
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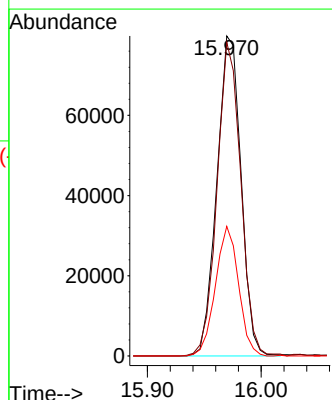
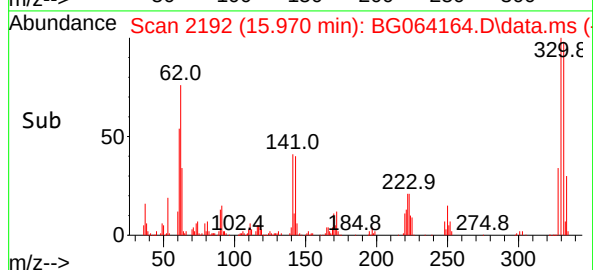
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

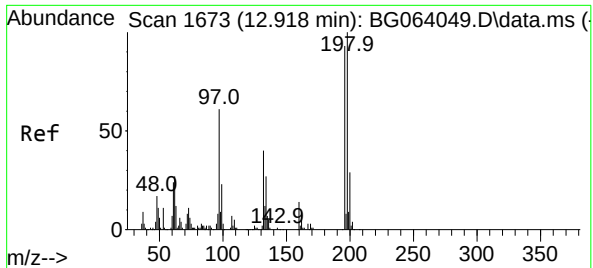


#42  
2,4,6-Tribromophenol  
Concen: 93.837 ng  
RT: 15.970 min Scan# 2192  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04



Tgt Ion:330 Resp: 117878  
Ion Ratio Lower Upper  
330 100  
332 96.2 76.7 115.1  
141 38.7 29.7 44.5





#43

2,4,6-Trichlorophenol

Concen: 42.978 ng

RT: 12.914 min Scan# 1

Delta R.T. -0.003 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

Tgt Ion:196 Resp: 8172

Ion Ratio Lower Upper

196 100

198 107.9 85.6 128.4

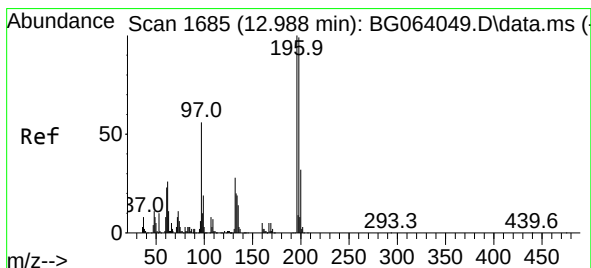
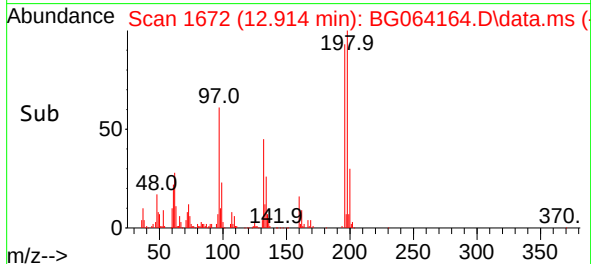
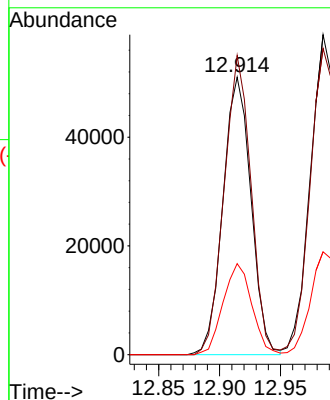
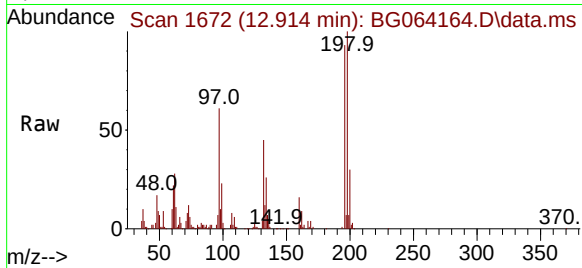
200 32.8 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#44

2,4,5-Trichlorophenol

Concen: 43.945 ng

RT: 12.985 min Scan# 1684

Delta R.T. -0.003 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04

Tgt Ion:196 Resp: 92850

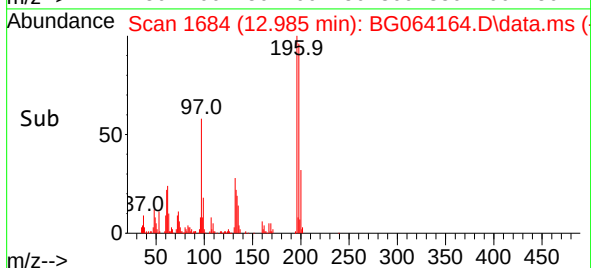
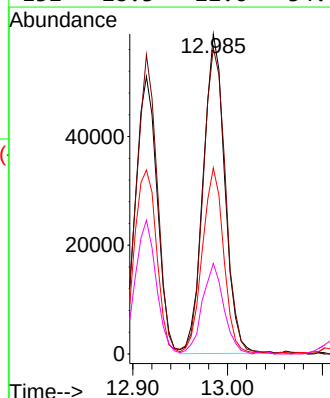
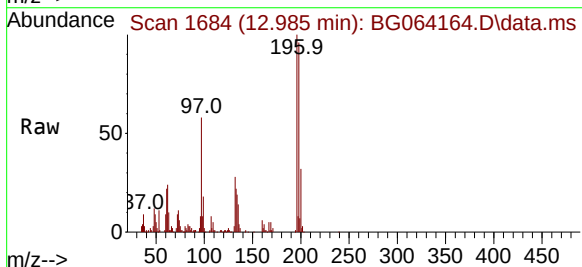
Ion Ratio Lower Upper

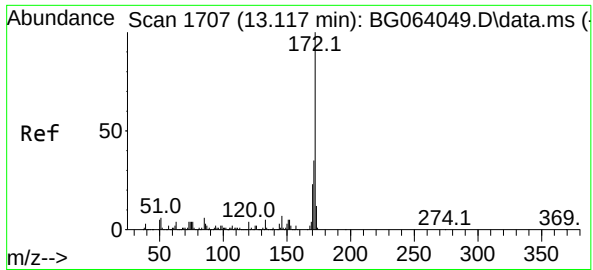
196 100

198 95.7 79.5 119.3

97 58.2 45.2 67.8

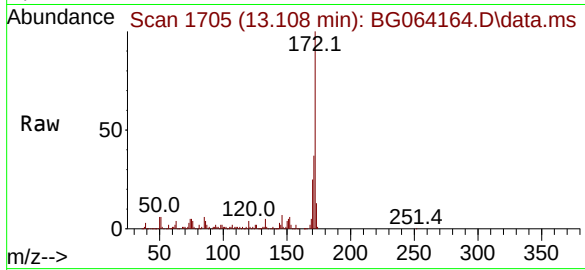
132 28.3 22.6 34.0





#45  
2-Fluorobiphenyl  
Concen: 78.142 ng  
RT: 13.108 min Scan# 1705  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

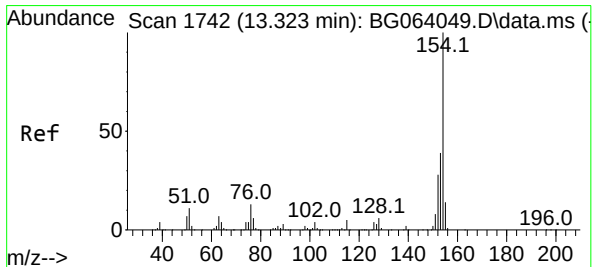
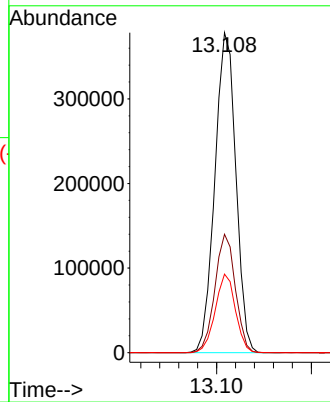
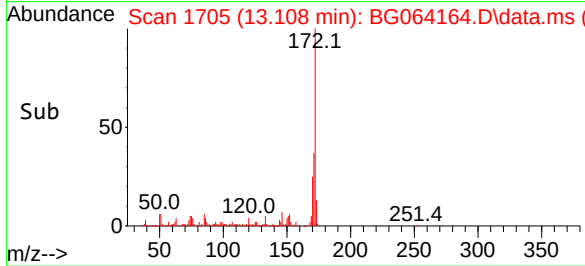
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:172 Resp: 58179  
Ion Ratio Lower Upper  
172 100  
171 37.0 28.0 42.0  
170 24.5 18.7 28.1

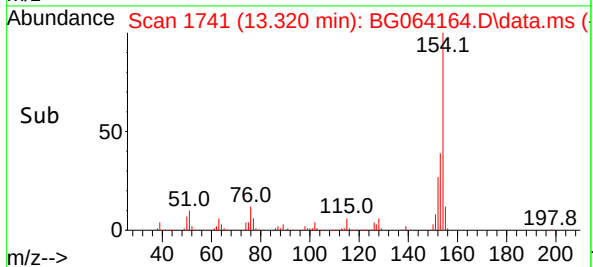
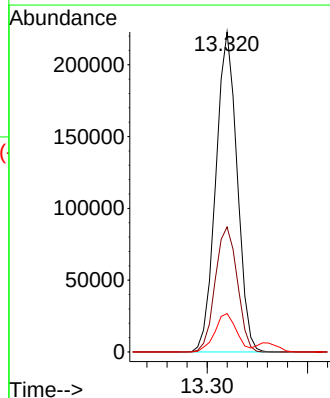
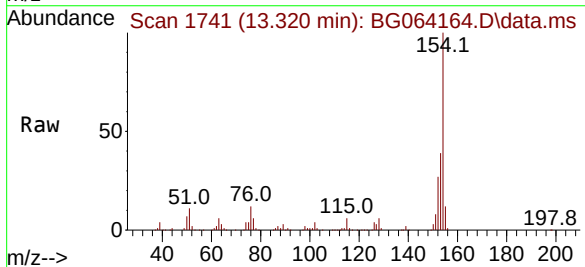
Manual Integrations  
APPROVED

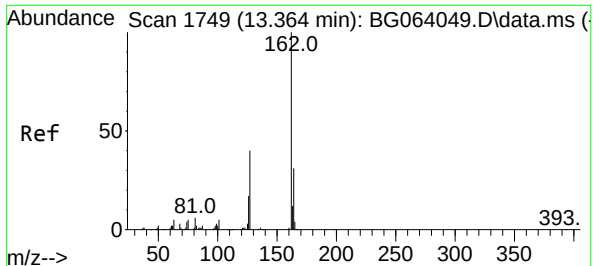
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#46  
1,1'-Biphenyl  
Concen: 38.424 ng  
RT: 13.320 min Scan# 1741  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Tgt Ion:154 Resp: 328066  
Ion Ratio Lower Upper  
154 100  
153 39.1 19.5 59.5  
76 12.0 0.0 33.5





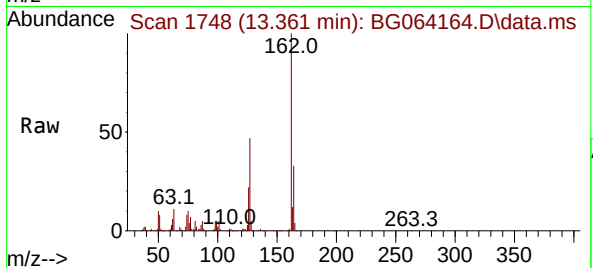
#47  
2-Chloronaphthalene  
Concen: 37.945 ng  
RT: 13.361 min Scan# 1748  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

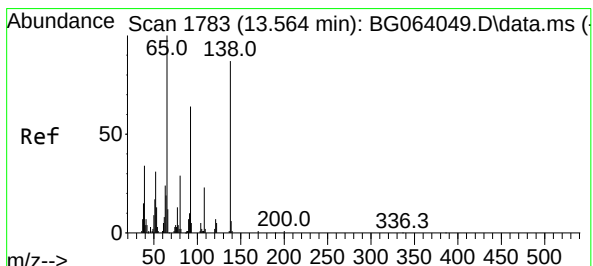
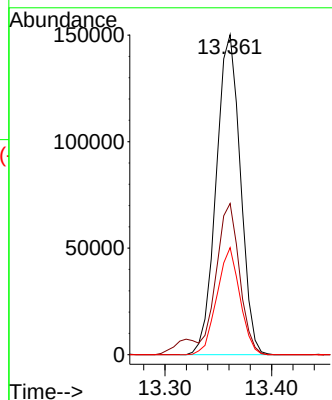
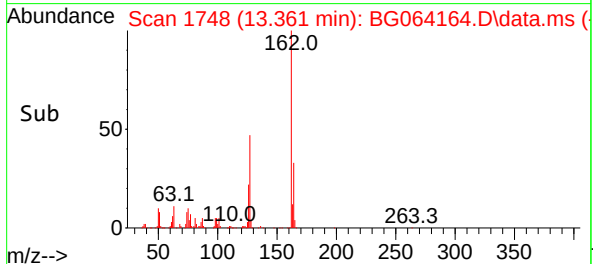


Tgt Ion:162 Resp: 236288  
Ion Ratio Lower Upper  
162 100  
127 47.2 35.0 52.4  
164 33.4 25.0 37.6

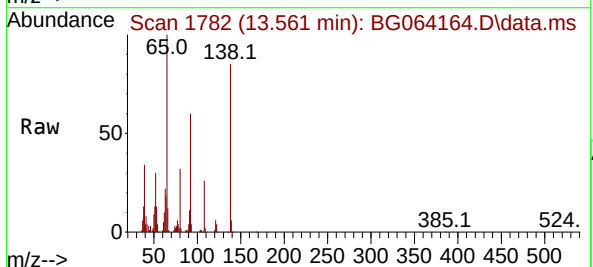
Manual Integrations

APPROVED

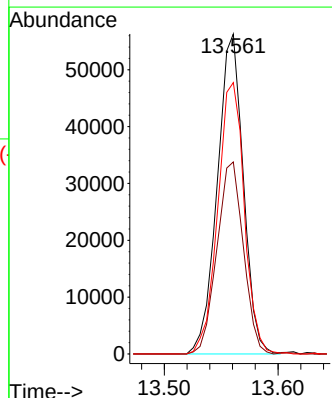
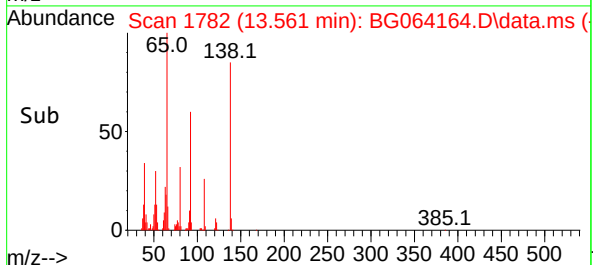
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

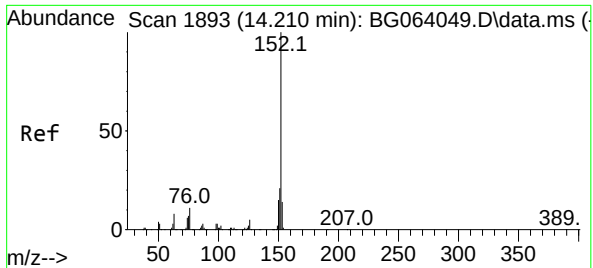


#48  
2-Nitroaniline  
Concen: 44.074 ng  
RT: 13.561 min Scan# 1782  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04



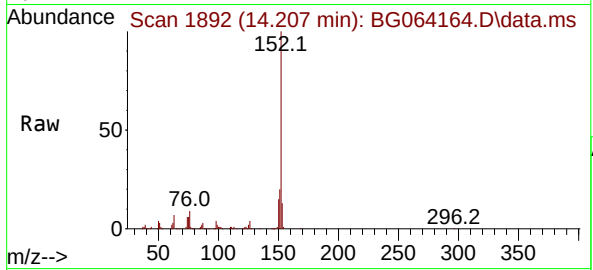
Tgt Ion: 65 Resp: 89492  
Ion Ratio Lower Upper  
65 100  
92 60.0 51.2 76.8  
138 84.8 69.4 104.2





#49  
Acenaphthylene  
Concen: 38.382 ng  
RT: 14.207 min Scan# 1892  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

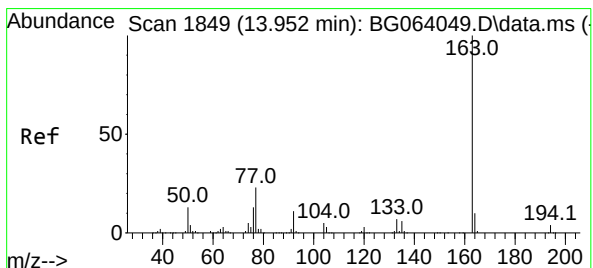
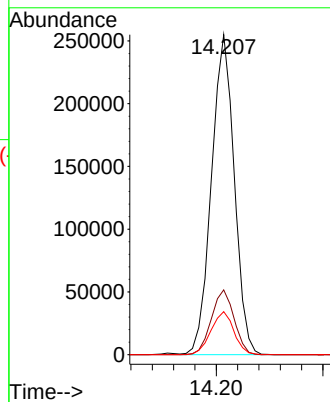
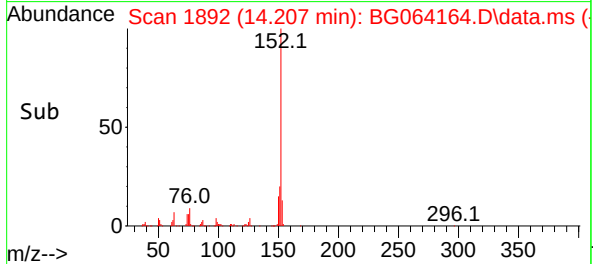
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:152 Resp: 37804  
Ion Ratio Lower Upper  
152 100  
151 20.3 16.4 24.6  
153 13.5 10.9 16.3

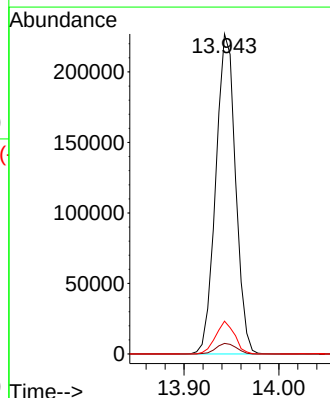
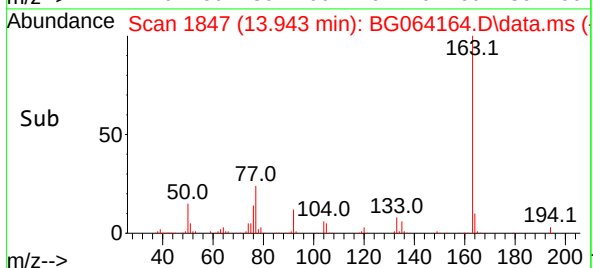
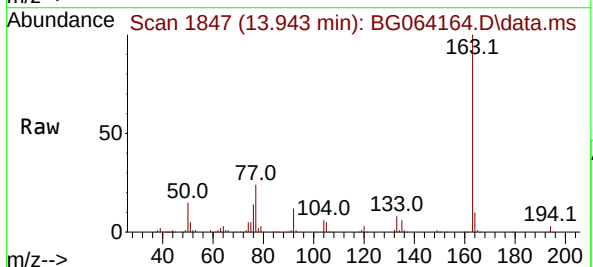
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

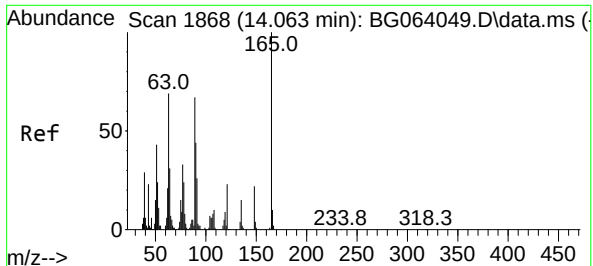


#50  
Dimethylphthalate  
Concen: 39.426 ng  
RT: 13.943 min Scan# 1847  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Tgt Ion:163 Resp: 328899  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.8 4.2  
164 10.2 8.2 12.2







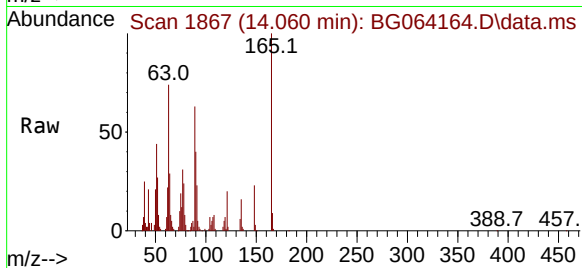
#51  
2,6-Dinitrotoluene  
Concen: 41.696 ng  
RT: 14.060 min Scan# 1868  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

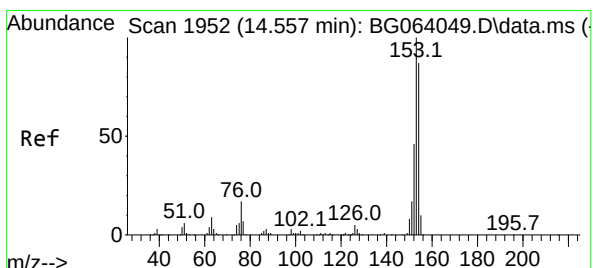
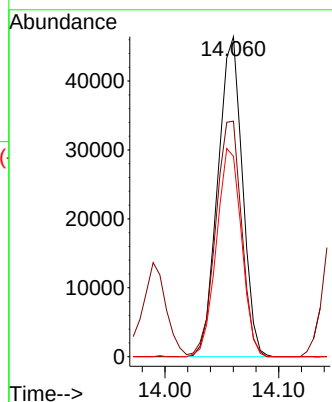
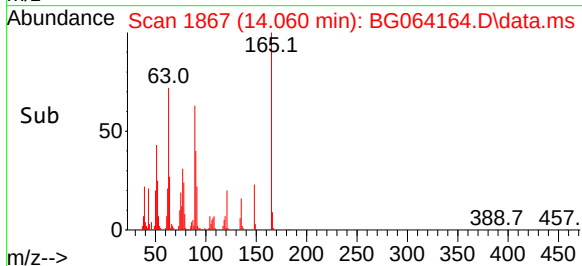


Tgt Ion:165 Resp: 69764  
Ion Ratio Lower Upper  
165 100  
63 73.6 56.7 85.1  
89 62.6 53.7 80.5

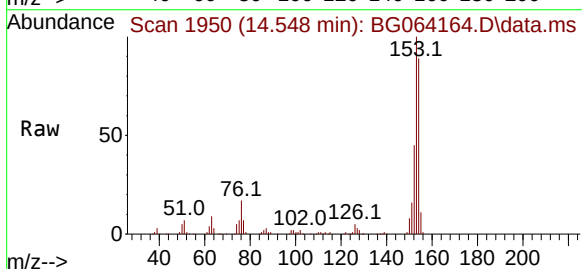
Manual Integrations

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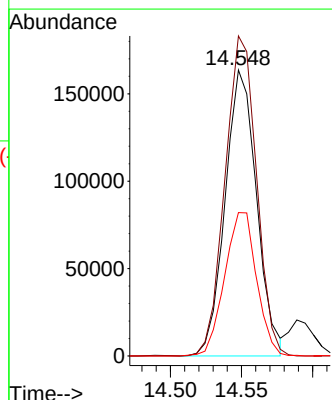
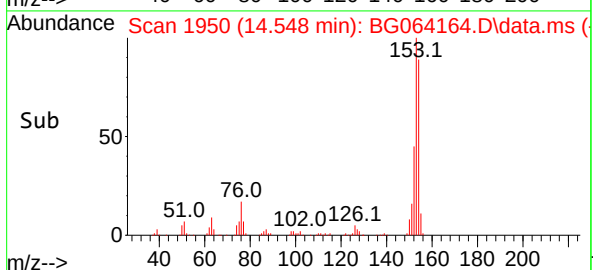
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

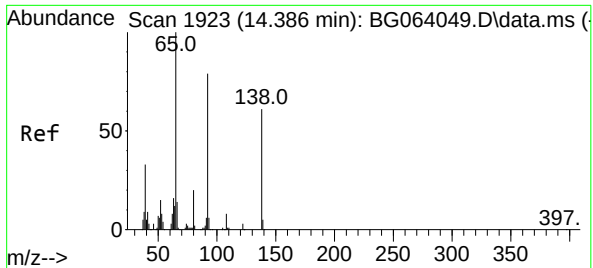


#52  
Acenaphthene  
Concen: 38.229 ng  
RT: 14.548 min Scan# 1950  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04



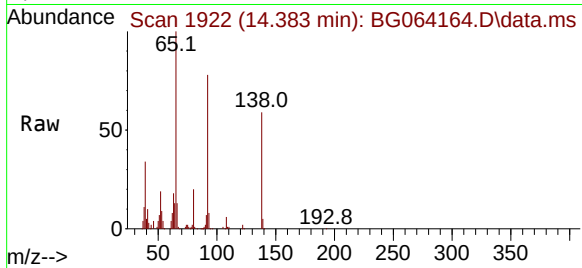
Tgt Ion:154 Resp: 252698  
Ion Ratio Lower Upper  
154 100  
153 111.9 91.6 137.4  
152 50.1 42.5 63.7





#53  
3-Nitroaniline  
Concen: 43.696 ng  
RT: 14.383 min Scan# 1923  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

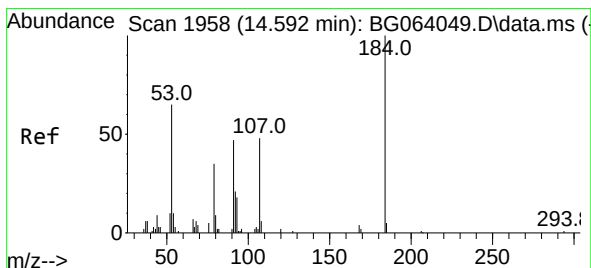
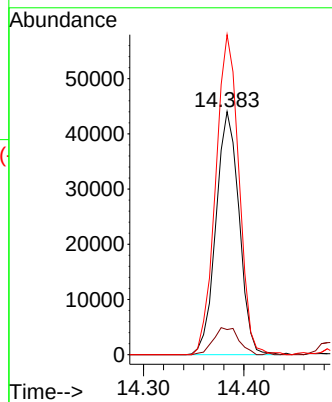
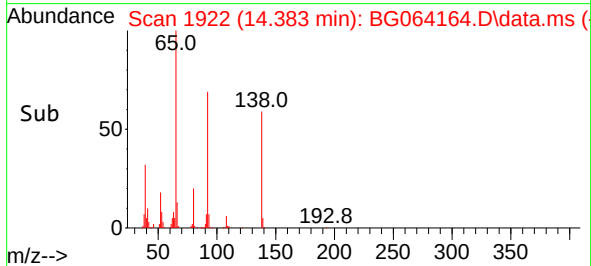
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:138 Resp: 7045  
Ion Ratio Lower Upper  
138 100  
108 10.3 10.1 15.1  
92 131.7 104.1 156.1

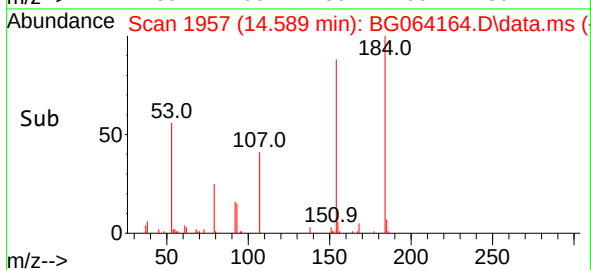
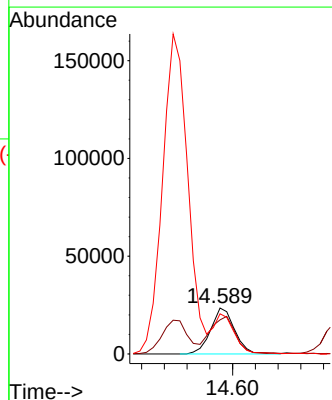
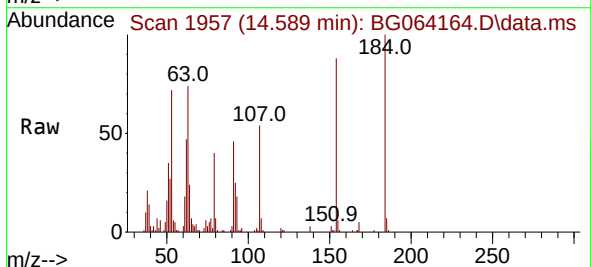
Manual Integrations  
APPROVED

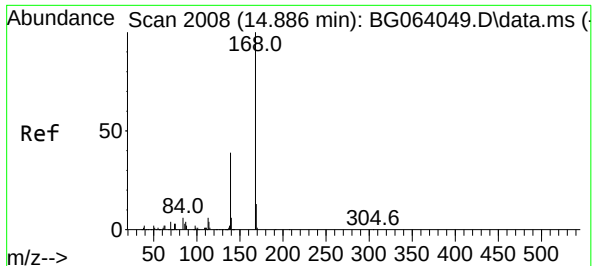
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#54  
2,4-Dinitrophenol  
Concen: 51.990 ng  
RT: 14.589 min Scan# 1957  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Tgt Ion:184 Resp: 34525  
Ion Ratio Lower Upper  
184 100  
63 74.3 57.5 86.3  
154 87.6 52.3 78.5#





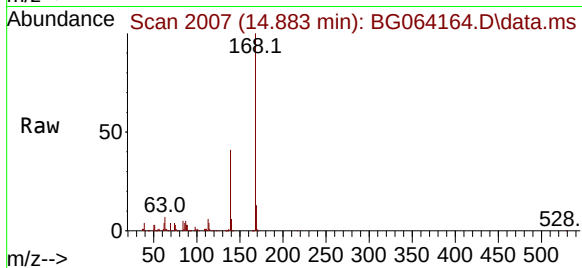
#55  
Dibenzenofuran  
Concen: 38.644 ng  
RT: 14.883 min Scan# 2008  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

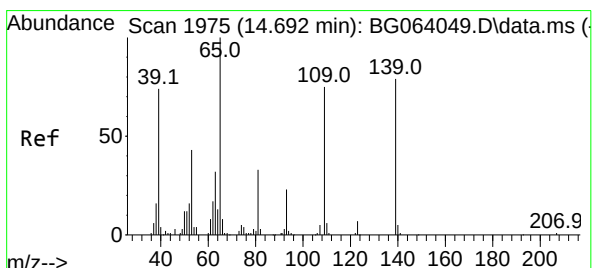
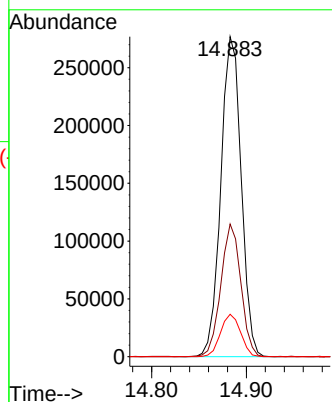
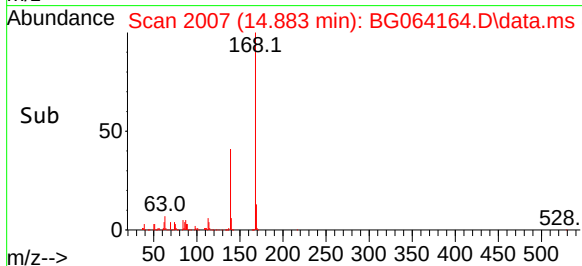


Tgt Ion:168 Resp: 413808  
Ion Ratio Lower Upper  
168 100  
139 41.5 31.1 46.7  
169 13.3 10.5 15.7

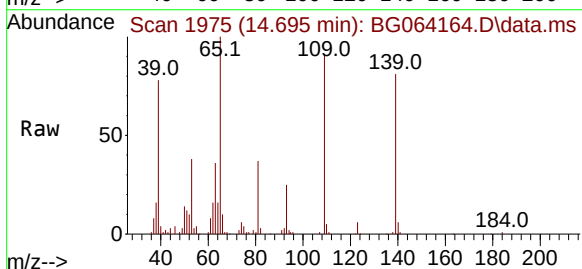
Manual Integrations

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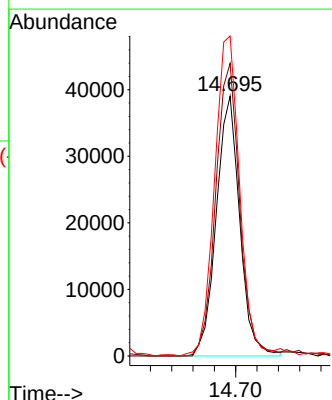
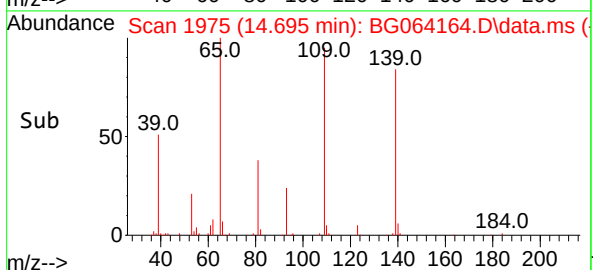
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

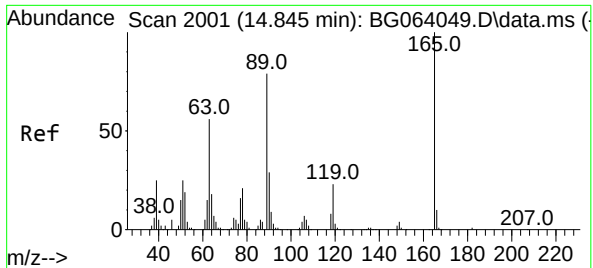


#56  
4-Nitrophenol  
Concen: 44.070 ng  
RT: 14.695 min Scan# 1975  
Delta R.T. 0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04



Tgt Ion:139 Resp: 59592  
Ion Ratio Lower Upper  
139 100  
109 112.6 74.9 114.9  
65 123.1 106.8 146.8





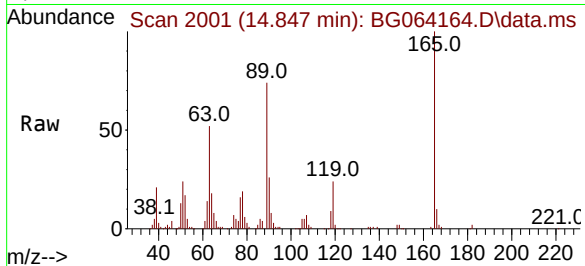
#57  
2,4-Dinitrotoluene  
Concen: 42.785 ng  
RT: 14.847 min Scan# 2001  
Delta R.T. 0.002 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

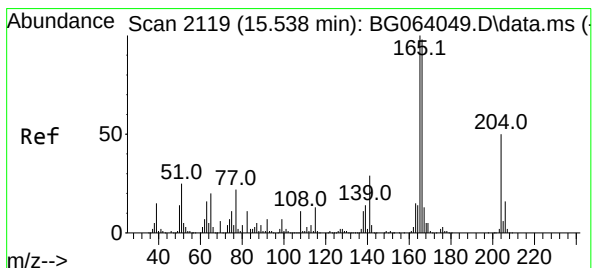
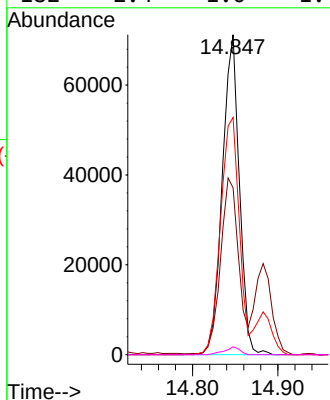


Tgt Ion:165 Resp: 98910  
Ion Ratio Lower Upper  
165 100  
63 52.2 45.0 67.6  
89 74.2 63.1 94.7  
182 2.4 1.0 1.4#

Manual Integrations

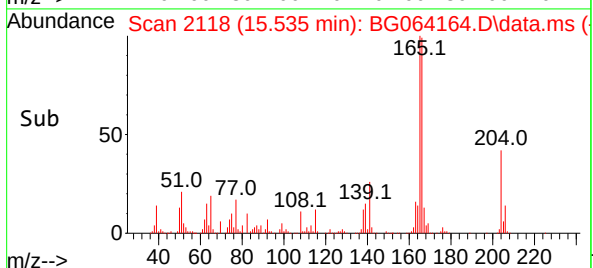
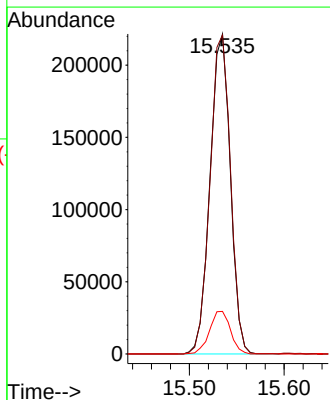
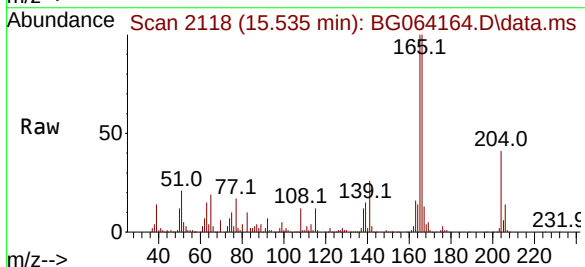
APPROVED

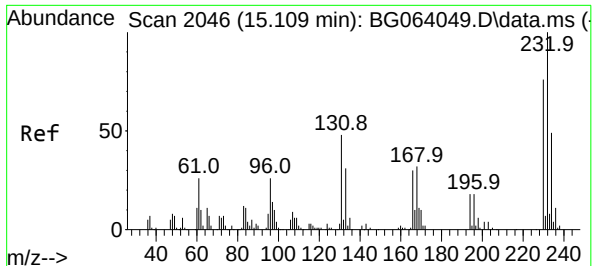
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#58  
Fluorene  
Concen: 39.423 ng  
RT: 15.535 min Scan# 2118  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

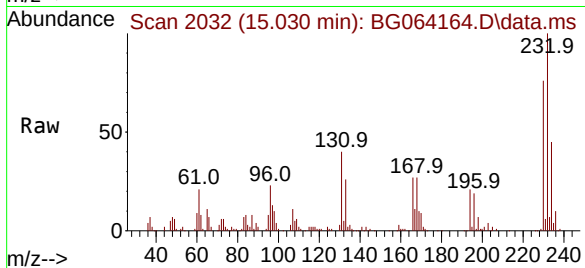
Tgt Ion:166 Resp: 328800  
Ion Ratio Lower Upper  
166 100  
165 99.7 81.8 122.8  
167 13.3 10.8 16.2





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 45.389 ng  
RT: 15.030 min Scan# 2046  
Delta R.T. -0.080 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

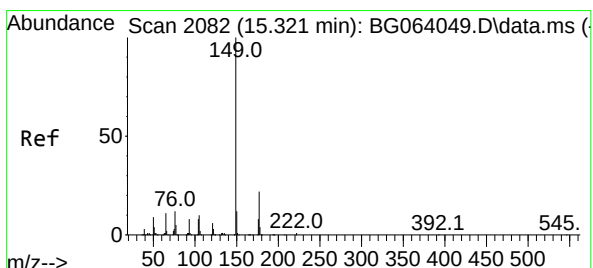
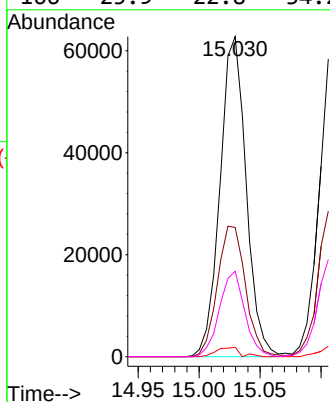
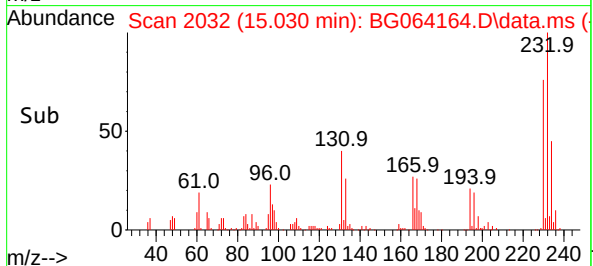
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:232 Resp: 93492  
Ion Ratio Lower Upper  
232 100  
131 44.0 36.3 54.5  
130 2.6 1.9 2.9  
166 25.9 22.8 34.2

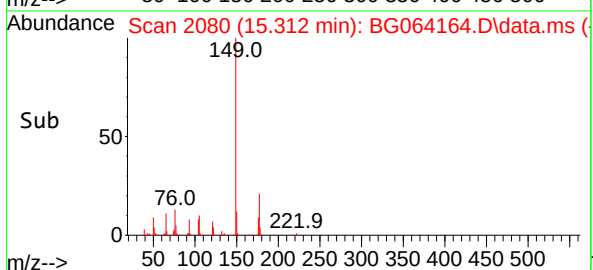
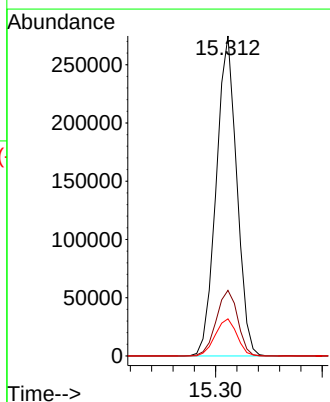
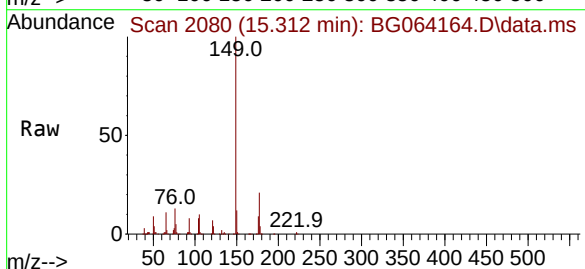
Manual Integrations  
APPROVED

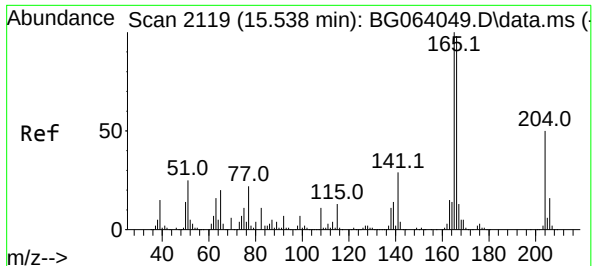
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#60  
Diethylphthalate  
Concen: 40.534 ng  
RT: 15.312 min Scan# 2080  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

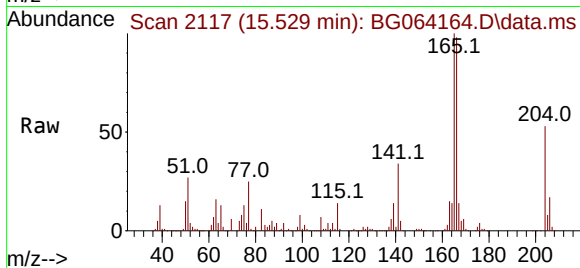
Tgt Ion:149 Resp: 367087  
Ion Ratio Lower Upper  
149 100  
177 20.5 17.4 26.2  
150 11.6 9.4 14.2





#61  
4-Chlorophenyl-phenylether  
Concen: 39.373 ng  
RT: 15.529 min Scan# 2119  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

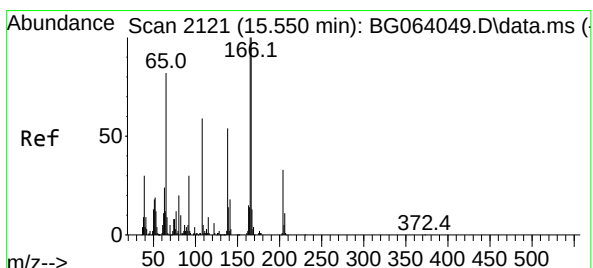
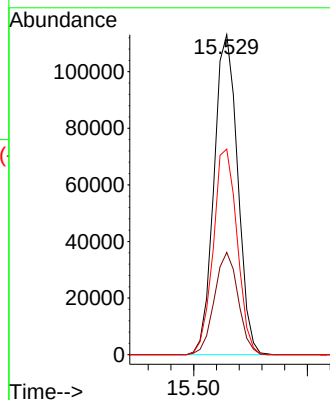
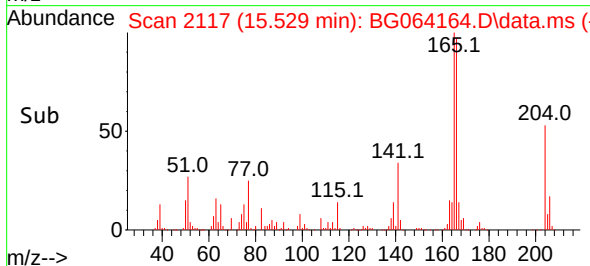
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:204 Resp: 16318  
Ion Ratio Lower Upper  
204 100  
206 32.0 25.5 38.3  
141 64.3 45.4 68.0

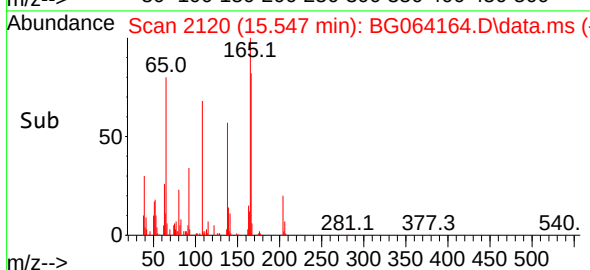
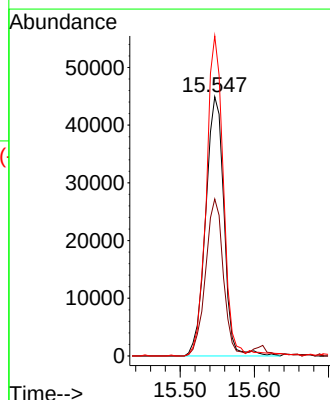
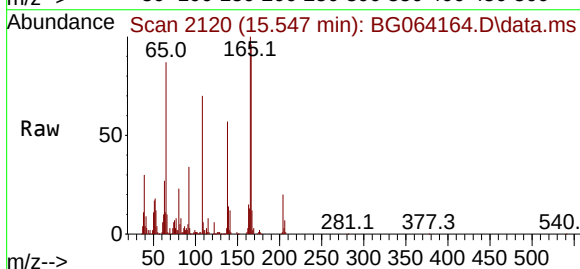
Manual Integrations  
APPROVED

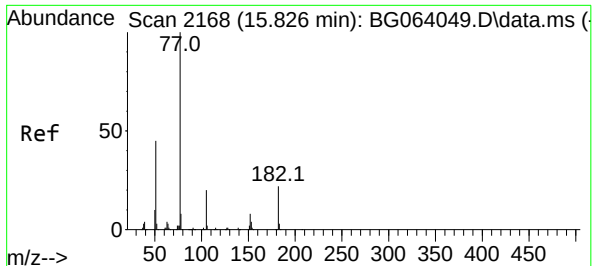
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#62  
4-Nitroaniline  
Concen: 44.300 ng  
RT: 15.547 min Scan# 2120  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

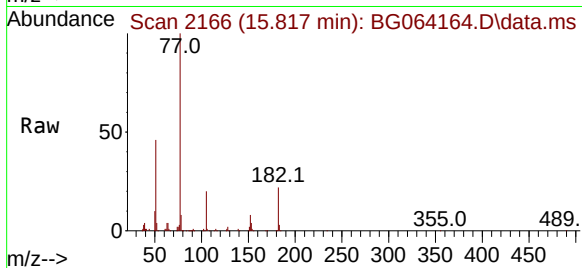
Tgt Ion:138 Resp: 77114  
Ion Ratio Lower Upper  
138 100  
92 60.5 36.1 76.1  
108 123.4 87.9 127.9





#63  
Azobenzene  
Concen: 38.258 ng  
RT: 15.817 min Scan# 2166  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

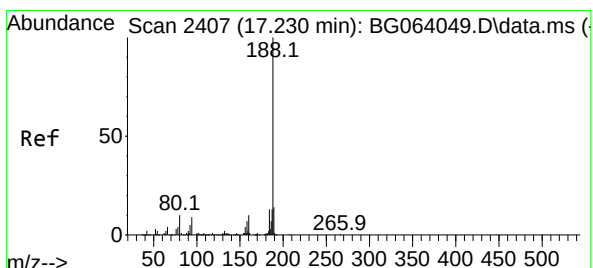
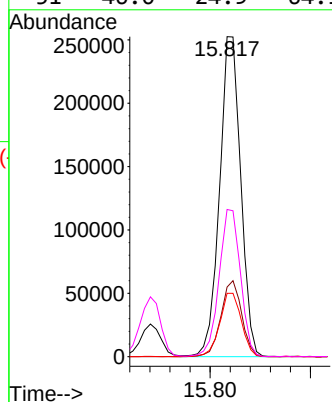
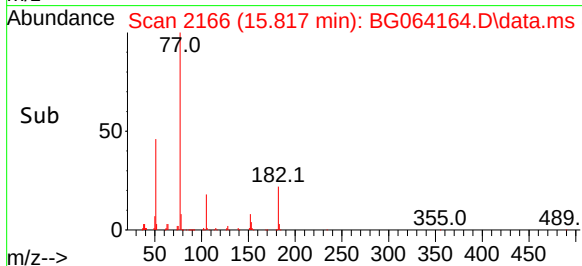
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion: 77 Resp: 36972  
Ion Ratio Lower Upper  
77 100  
182 21.8 2.4 42.4  
105 19.8 0.0 40.0  
51 46.0 24.9 64.9

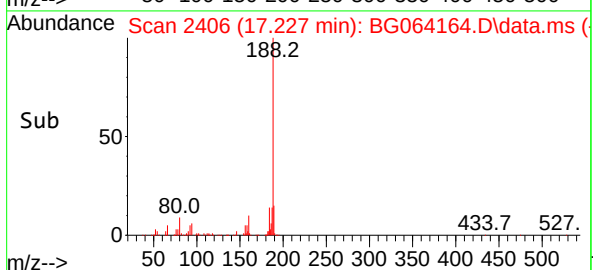
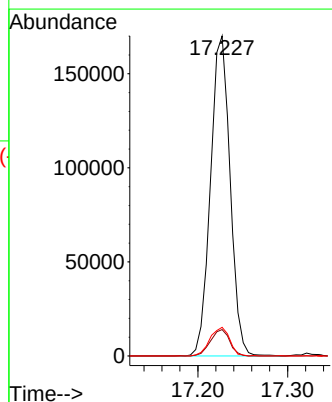
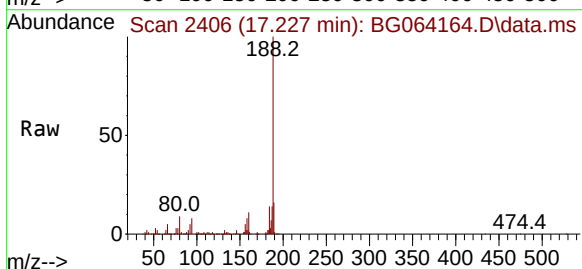
Manual Integrations  
APPROVED

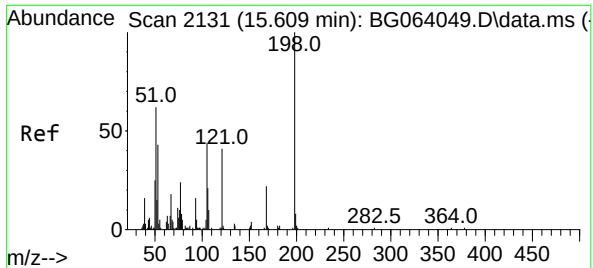
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.227 min Scan# 2406  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

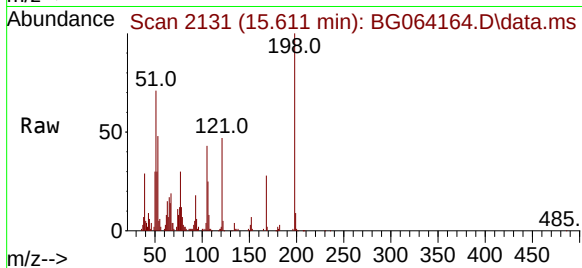
Tgt Ion:188 Resp: 257861  
Ion Ratio Lower Upper  
188 100  
94 8.2 6.9 10.3  
80 9.0 8.1 12.1





#65  
4,6-Dinitro-2-methylphenol  
Concen: 51.147 ng  
RT: 15.611 min Scan# 2131  
Delta R.T. 0.002 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

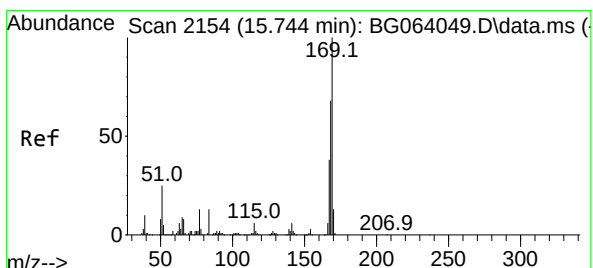
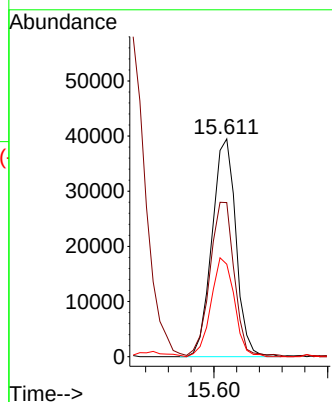
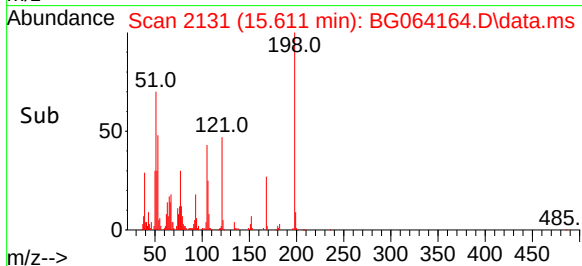
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



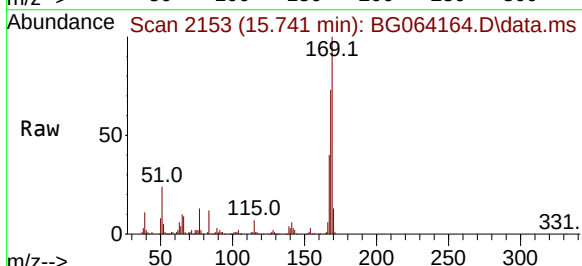
Tgt Ion:198 Resp: 57690  
Ion Ratio Lower Upper  
198 100  
51 70.7 45.6 85.6  
105 42.5 25.3 65.3

Manual Integrations  
APPROVED

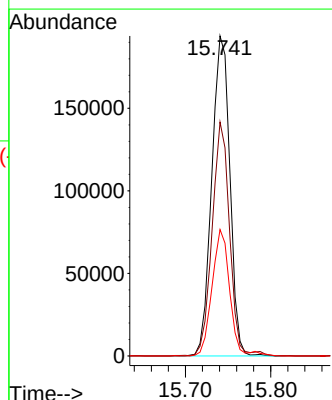
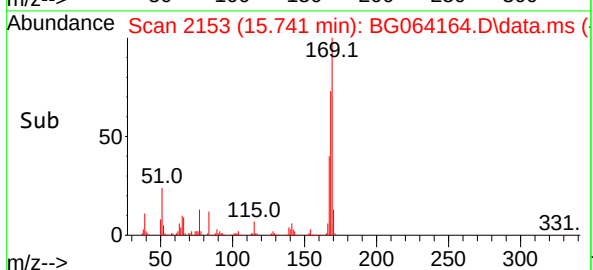
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



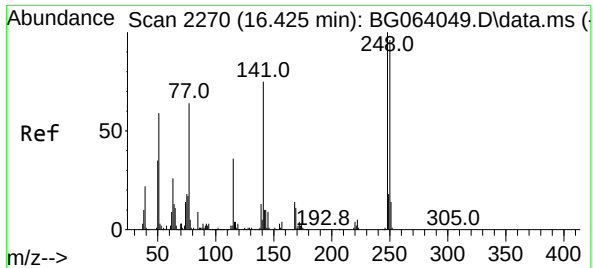
#66  
n-Nitrosodiphenylamine  
Concen: 39.119 ng  
RT: 15.741 min Scan# 2153  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04



Tgt Ion:169 Resp: 285532  
Ion Ratio Lower Upper  
169 100  
168 73.1 54.1 81.1  
167 39.5 30.3 45.5

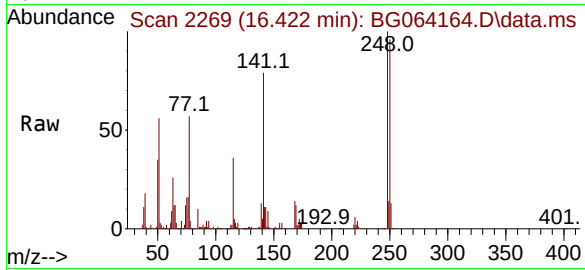






#67  
4-Bromophenyl-phenylether  
Concen: 41.251 ng  
RT: 16.422 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

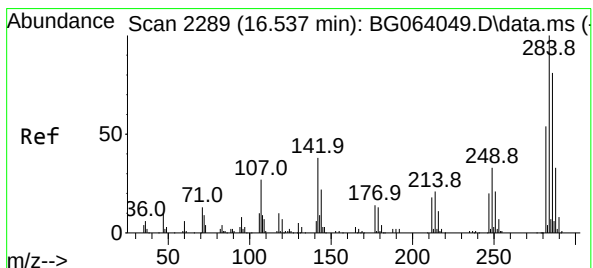
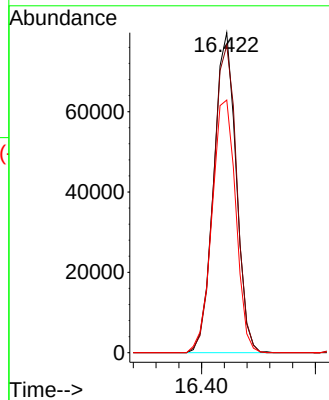
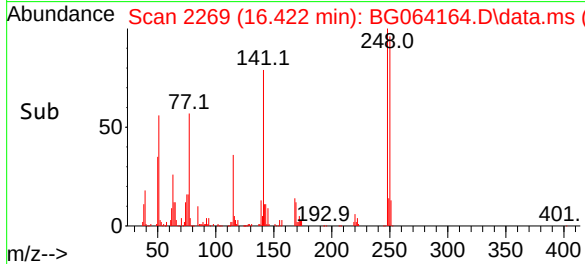
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



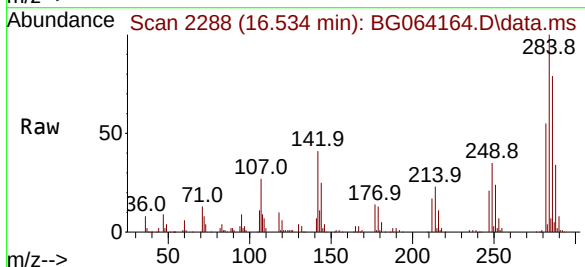
Tgt Ion:248 Resp: 10894  
Ion Ratio Lower Upper  
248 100  
250 96.1 77.1 115.7  
141 78.9 59.8 89.8

Manual Integrations  
APPROVED

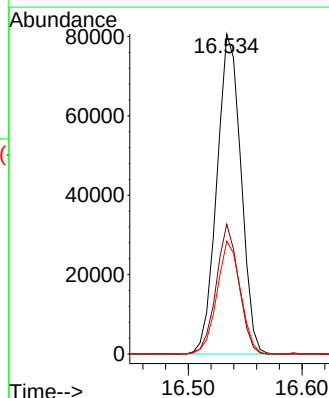
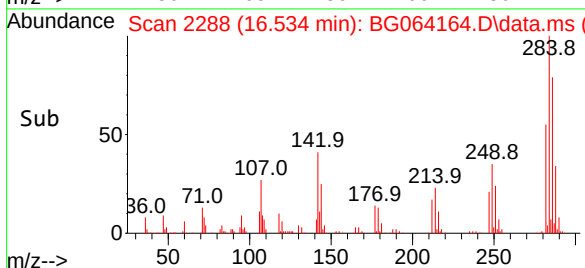
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

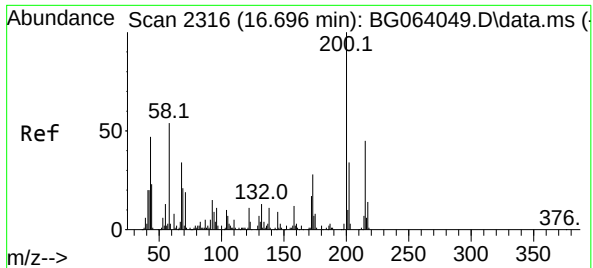


#68  
Hexachlorobenzene  
Concen: 40.062 ng  
RT: 16.534 min Scan# 2288  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04



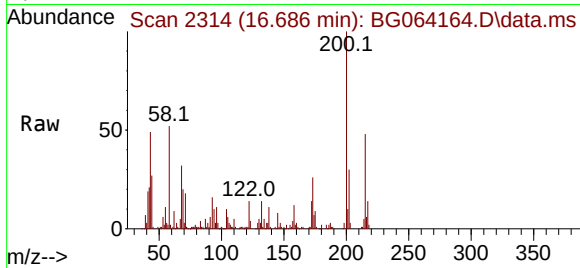
Tgt Ion:284 Resp: 118452  
Ion Ratio Lower Upper  
284 100  
142 40.6 30.6 45.8  
249 35.2 26.6 39.8





#69  
 Atrazine  
 Concen: 34.708 ng  
 RT: 16.686 min Scan# 21  
 Delta R.T. -0.010 min  
 Lab File: BG064164.D  
 Acq: 3 Apr 2025 13:04

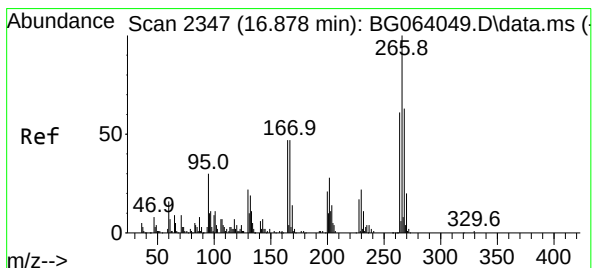
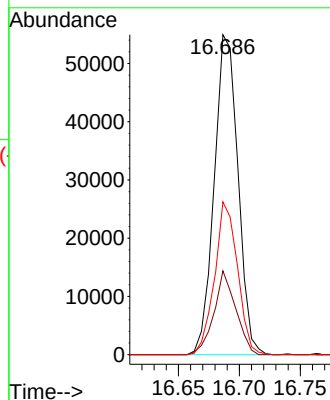
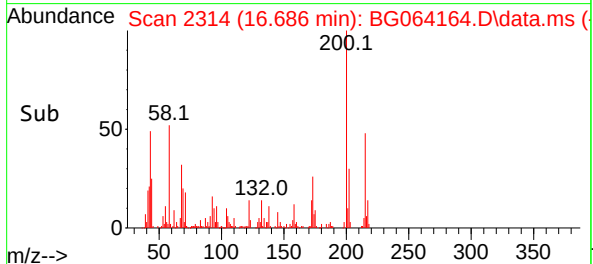
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTCCCC040



Tgt Ion:200 Resp: 74539  
 Ion Ratio Lower Upper  
 200 100  
 173 26.2 8.2 48.2  
 215 47.7 25.5 65.5

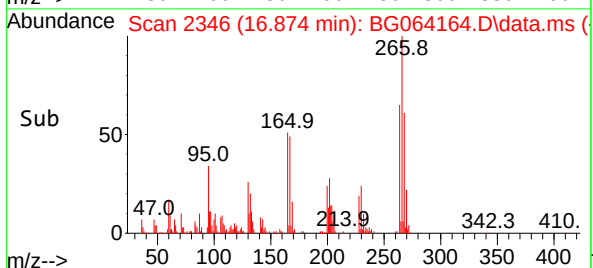
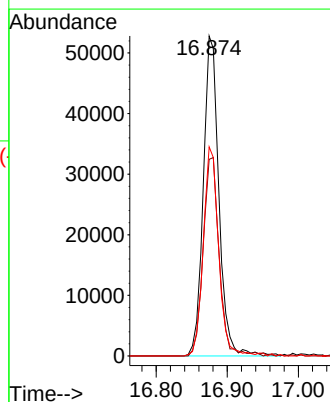
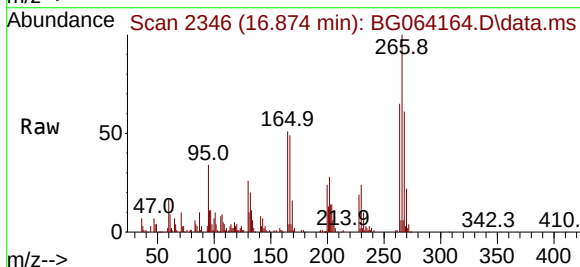
Manual Integrations  
 APPROVED

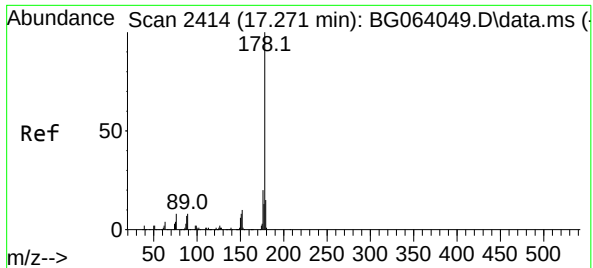
Reviewed By :Anahy Claudio 04/04/2025  
 Supervised By :Jagrut Upadhyay 04/04/2025



#70  
 Pentachlorophenol  
 Concen: 43.996 ng  
 RT: 16.874 min Scan# 2346  
 Delta R.T. -0.004 min  
 Lab File: BG064164.D  
 Acq: 3 Apr 2025 13:04

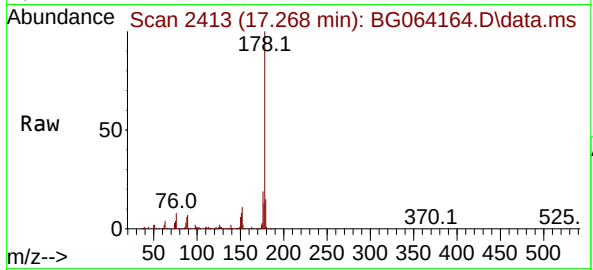
Tgt Ion:266 Resp: 80767  
 Ion Ratio Lower Upper  
 266 100  
 268 61.5 50.2 75.4  
 264 65.4 48.9 73.3





#71  
Phenanthrene  
Concen: 39.025 ng  
RT: 17.268 min Scan# 2414  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

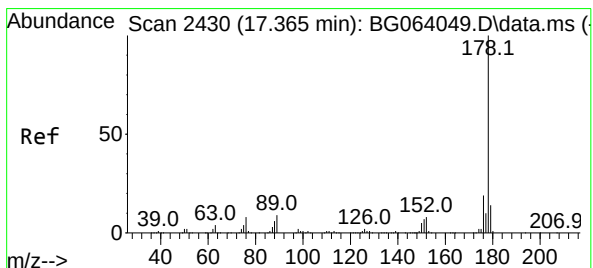
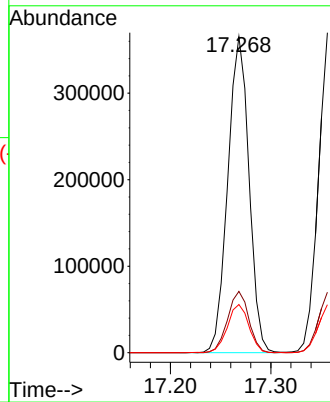
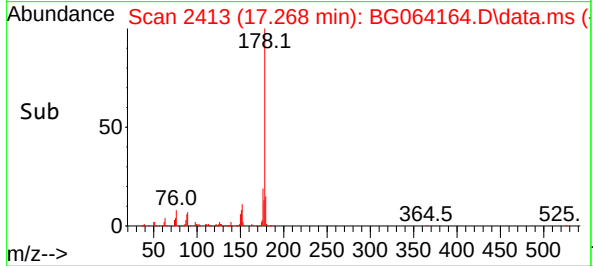
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:178 Resp: 536739  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.9 23.9  
179 15.3 12.2 18.2

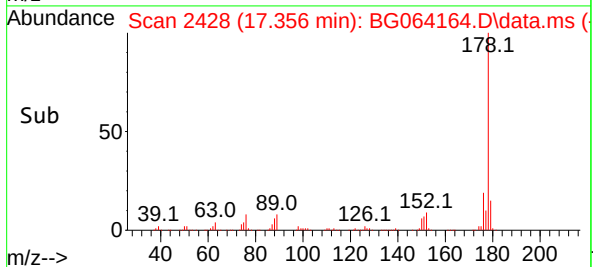
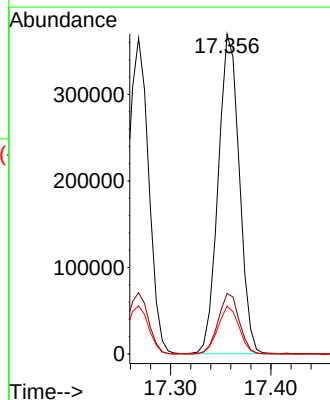
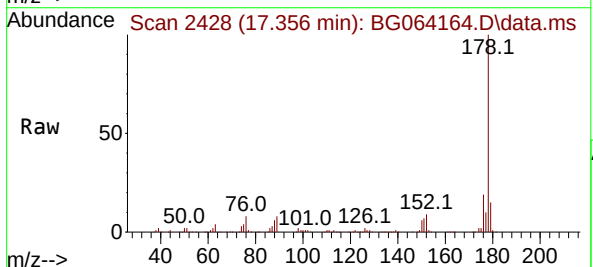
Manual Integrations  
APPROVED

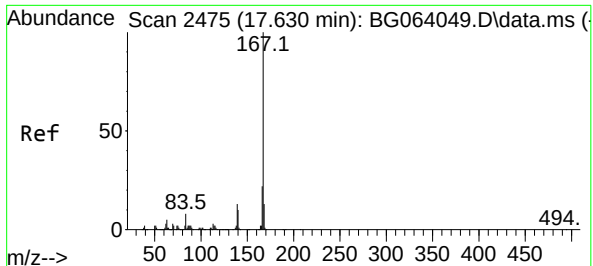
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#72  
Anthracene  
Concen: 39.484 ng  
RT: 17.356 min Scan# 2428  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Tgt Ion:178 Resp: 539984  
Ion Ratio Lower Upper  
178 100  
176 18.9 14.8 22.2  
179 15.0 11.5 17.3





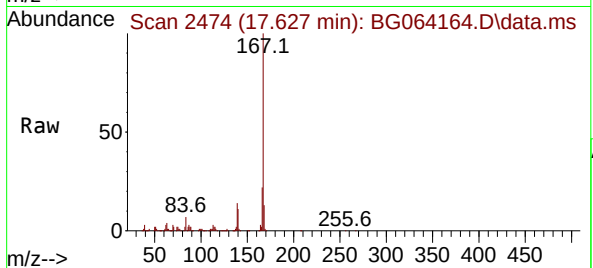
#73  
Carbazole  
Concen: 39.306 ng  
RT: 17.627 min Scan# 2475  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

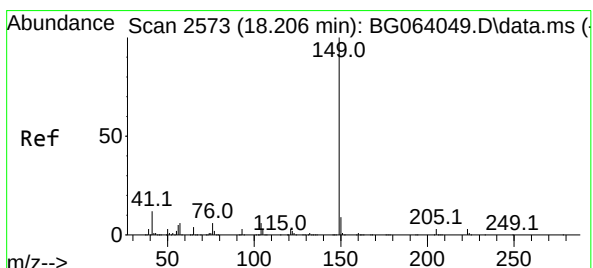
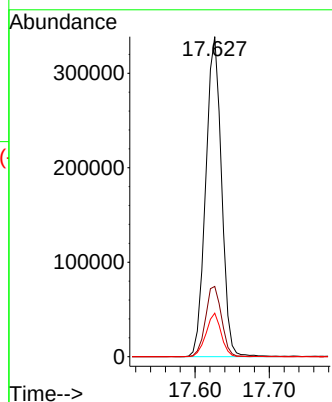
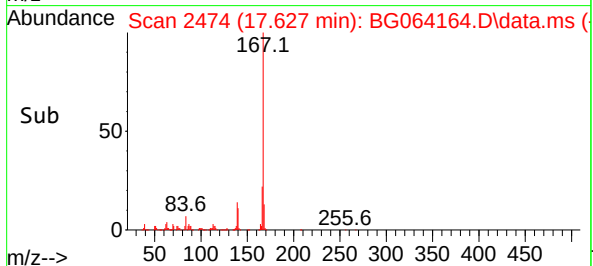


Tgt Ion:167 Resp: 50189  
Ion Ratio Lower Upper  
167 100  
166 21.9 18.0 27.0  
139 13.6 10.6 15.8

Manual Integrations

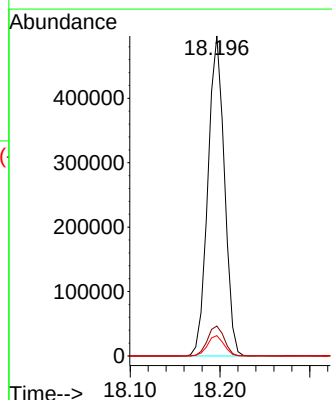
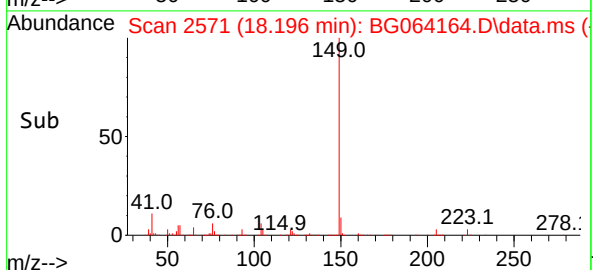
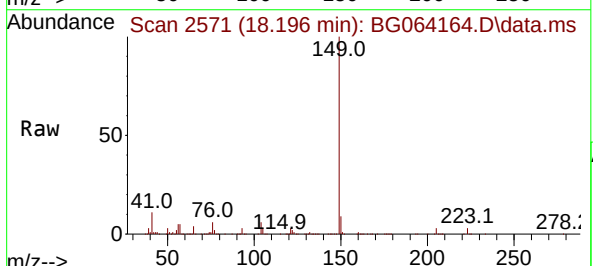
APPROVED

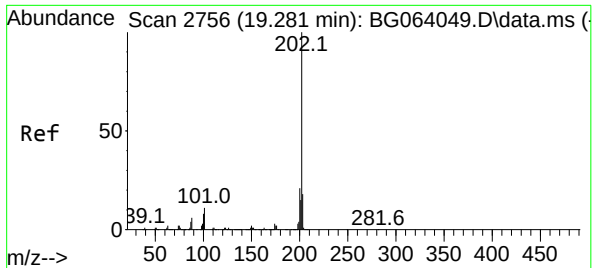
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#74  
Di-n-butylphthalate  
Concen: 42.194 ng  
RT: 18.196 min Scan# 2571  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

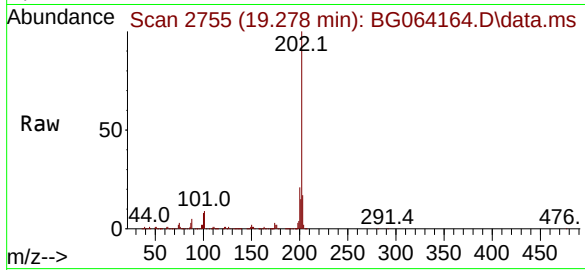
Tgt Ion:149 Resp: 634185  
Ion Ratio Lower Upper  
149 100  
150 9.3 7.4 11.0  
104 6.4 5.0 7.6





#75  
Fluoranthene  
Concen: 38.757 ng  
RT: 19.278 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

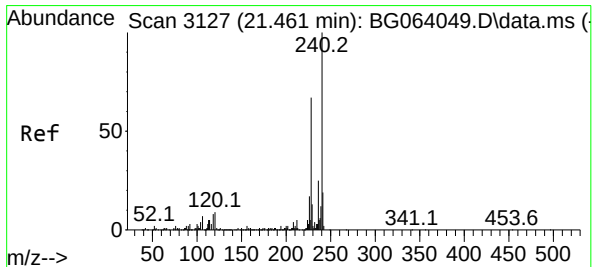
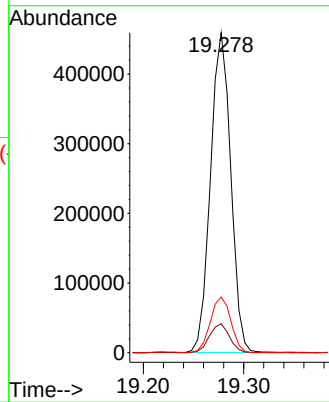
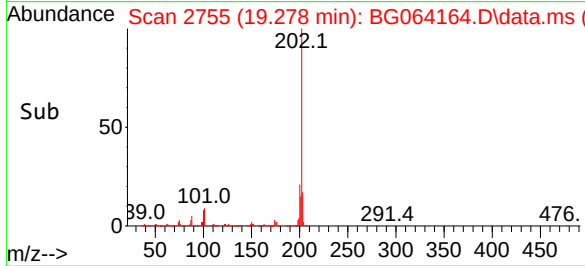
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:202 Resp: 642628  
Ion Ratio Lower Upper  
202 100  
101 9.1 0.0 30.5  
203 17.4 0.0 38.3

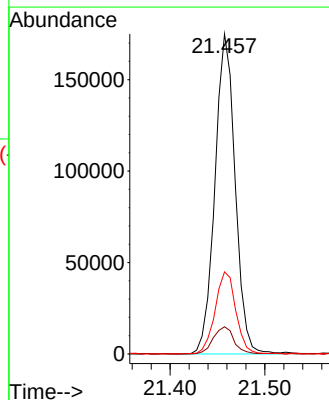
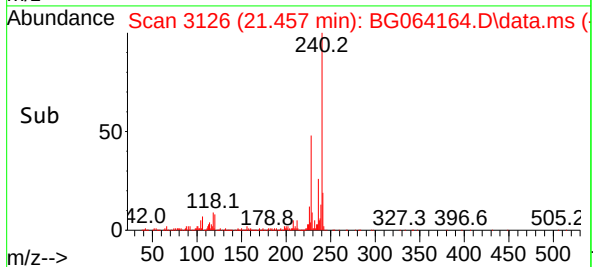
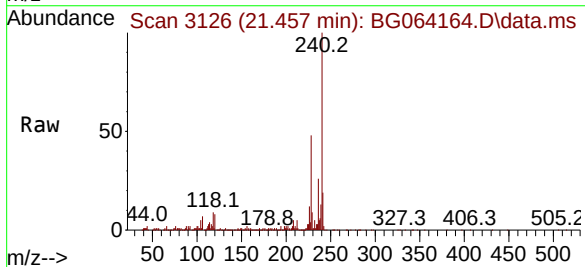
Manual Integrations  
APPROVED

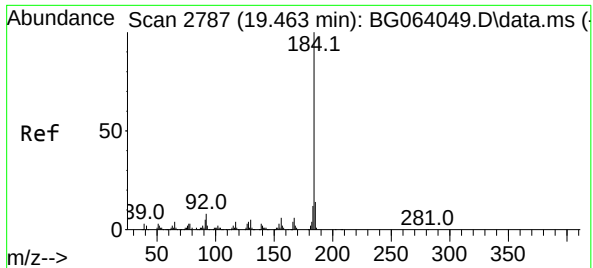
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.457 min Scan# 3126  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

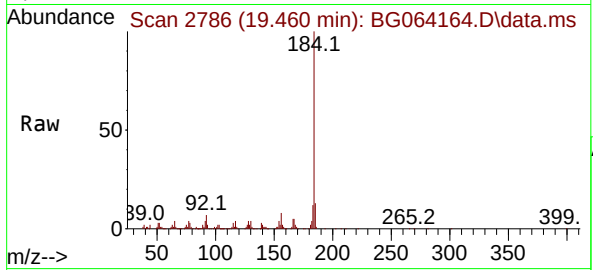
Tgt Ion:240 Resp: 259274  
Ion Ratio Lower Upper  
240 100  
120 8.5 7.2 10.8  
236 25.7 20.2 30.2





#77  
Benzidine  
Concen: 50.549 ng  
RT: 19.460 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

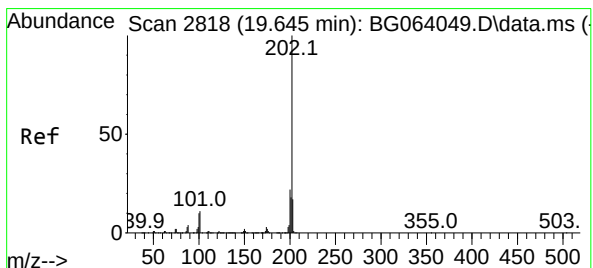
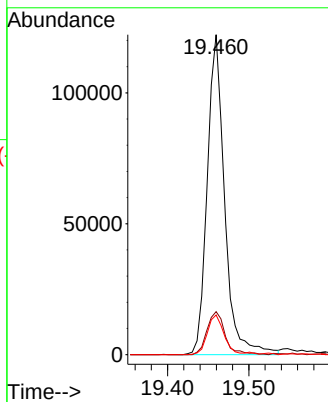
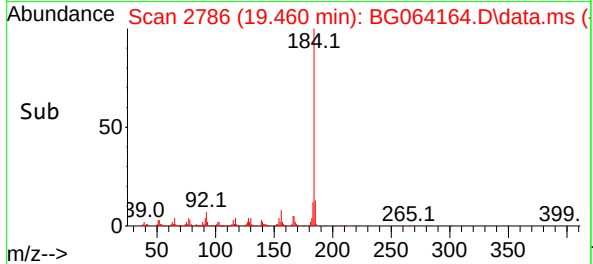
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:184 Resp: 18148  
Ion Ratio Lower Upper  
184 100  
185 13.5 11.3 16.9  
183 12.4 9.5 14.3

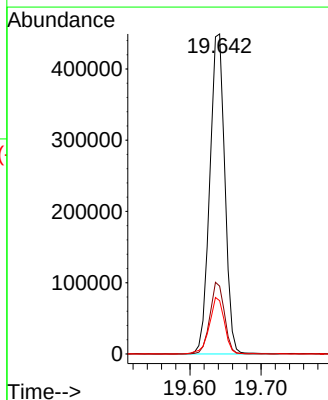
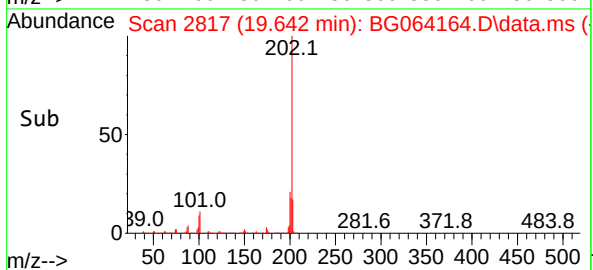
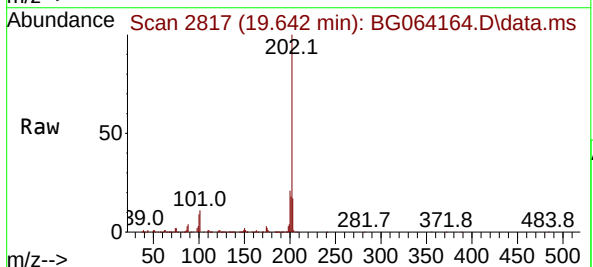
Manual Integrations  
**APPROVED**

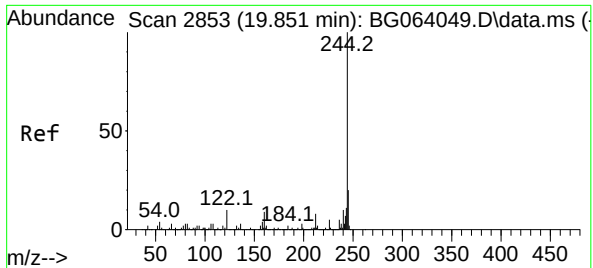
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#78  
Pyrene  
Concen: 39.487 ng  
RT: 19.642 min Scan# 2817  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

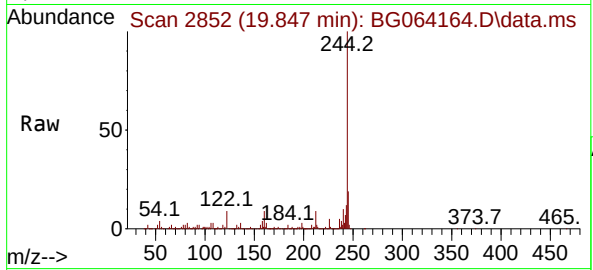
Tgt Ion:202 Resp: 659960  
Ion Ratio Lower Upper  
202 100  
200 21.2 17.3 25.9  
203 16.6 13.6 20.4





#79  
Terphenyl-d14  
Concen: 78.416 ng  
RT: 19.847 min Scan# 2853  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

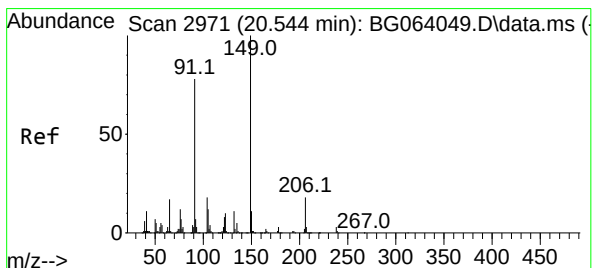
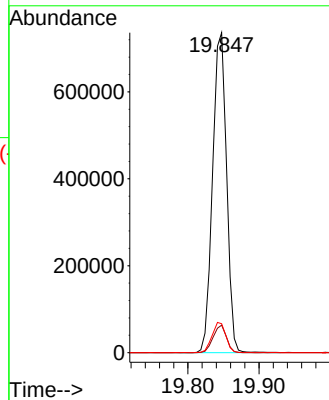
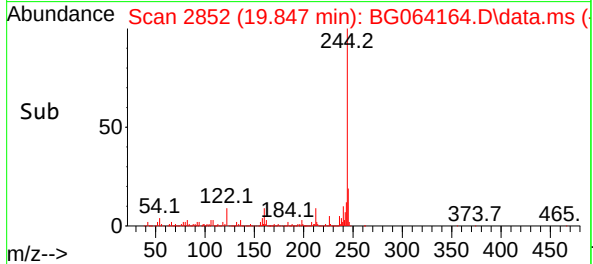
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:244 Resp: 1005500  
Ion Ratio Lower Upper  
244 100  
212 8.6 6.2 9.4  
122 9.1 8.0 12.0

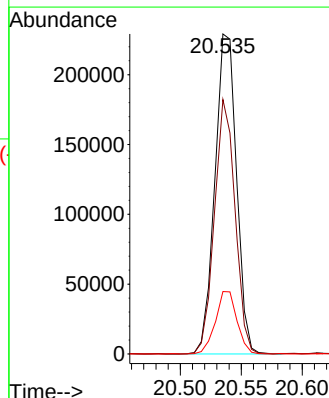
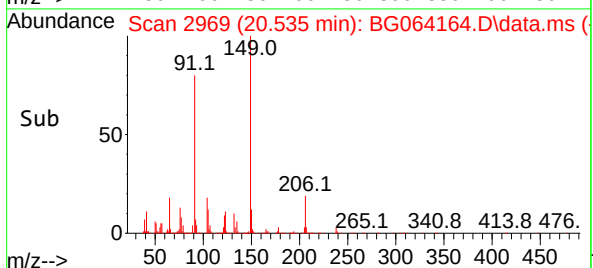
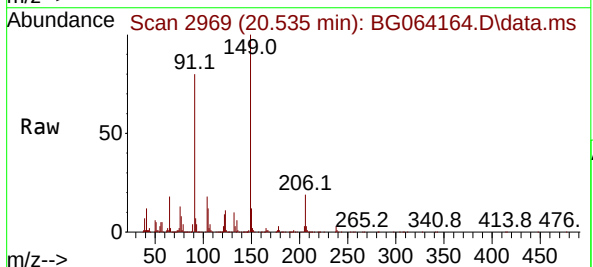
Manual Integrations  
APPROVED

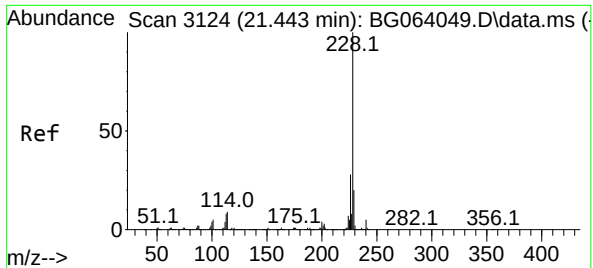
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#80  
Butylbenzylphthalate  
Concen: 45.382 ng  
RT: 20.535 min Scan# 2969  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

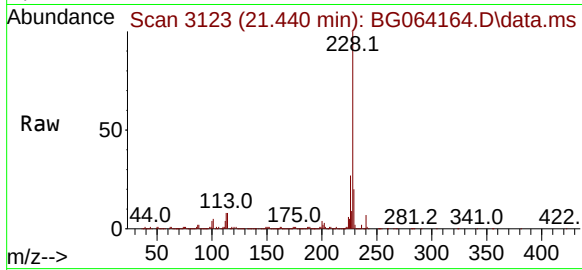
Tgt Ion:149 Resp: 283271  
Ion Ratio Lower Upper  
149 100  
91 79.5 62.0 93.0  
206 19.5 14.6 21.8





#81  
Benzo(a)anthracene  
Concen: 39.071 ng  
RT: 21.440 min Scan# 3124  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

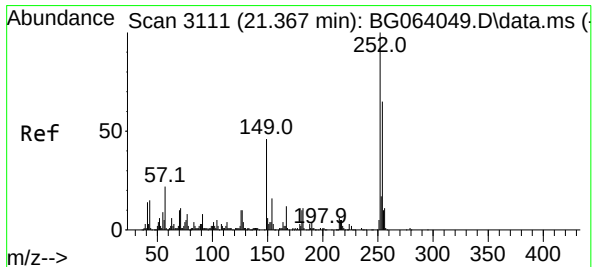
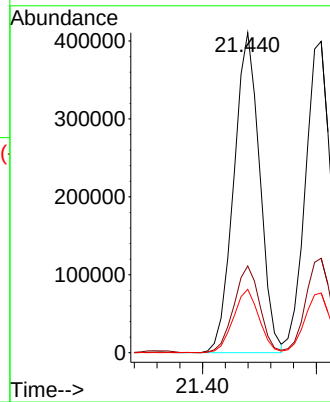
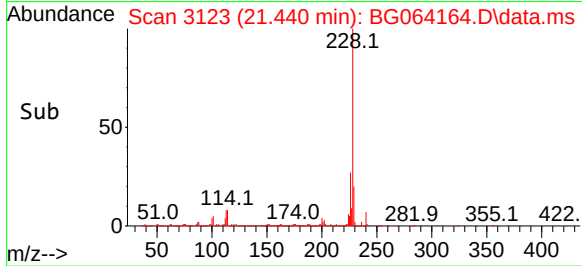
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:228 Resp: 64890  
Ion Ratio Lower Upper  
228 100  
226 27.1 22.2 33.2  
229 19.8 16.4 24.6

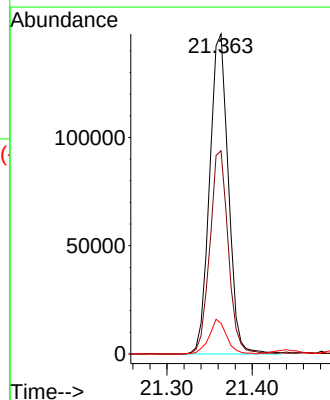
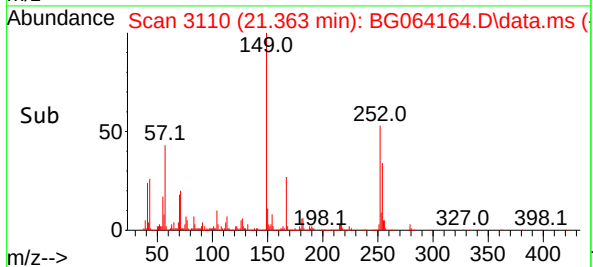
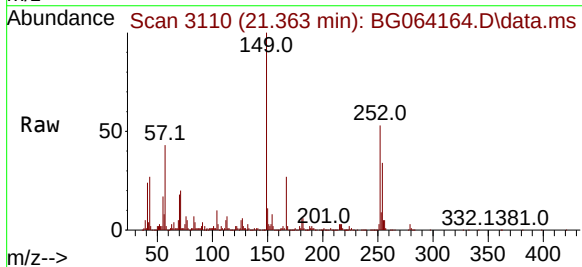
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

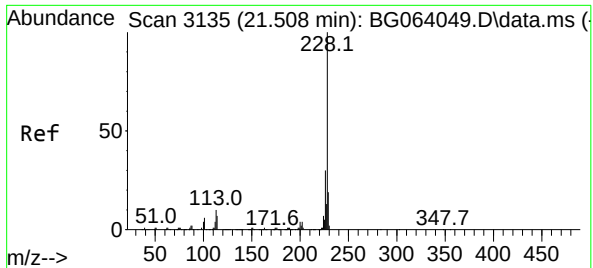


#82  
3,3'-Dichlorobenzidine  
Concen: 41.927 ng  
RT: 21.363 min Scan# 3110  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Tgt Ion:252 Resp: 225362  
Ion Ratio Lower Upper  
252 100  
254 63.5 52.1 78.1  
126 9.6 7.8 11.8

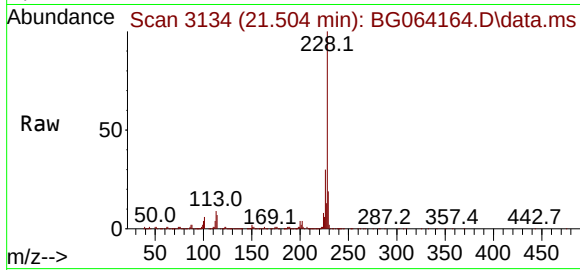






#83  
Chrysene  
Concen: 37.700 ng  
RT: 21.504 min Scan# 3111  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

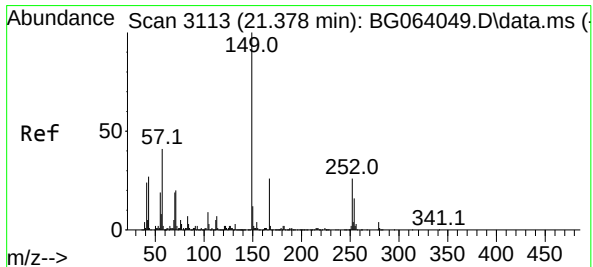
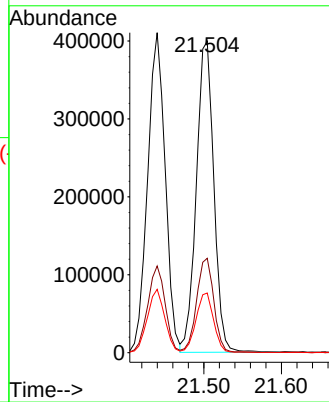
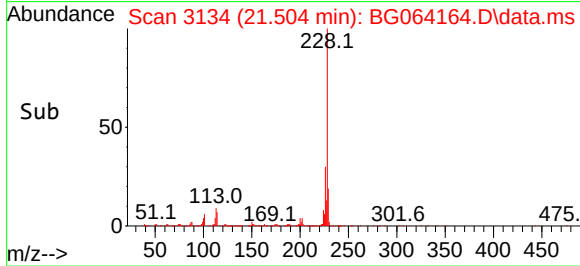
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:228 Resp: 624492  
Ion Ratio Lower Upper  
228 100  
226 30.3 23.9 35.9  
229 19.2 15.3 22.9

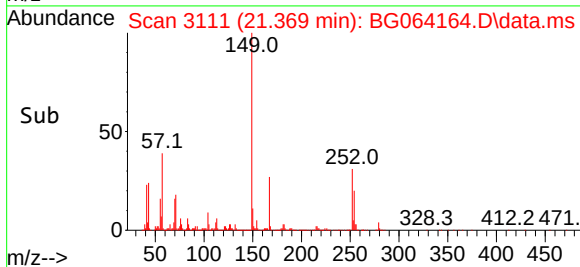
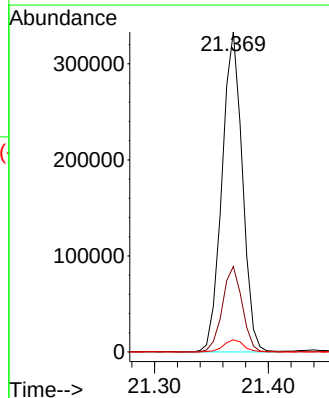
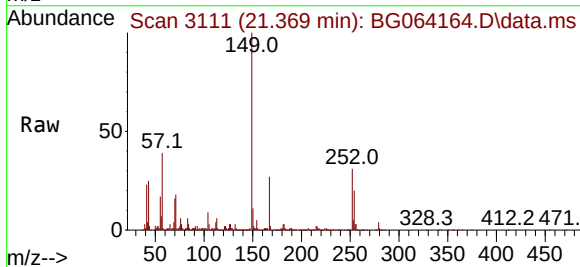
Manual Integrations  
APPROVED

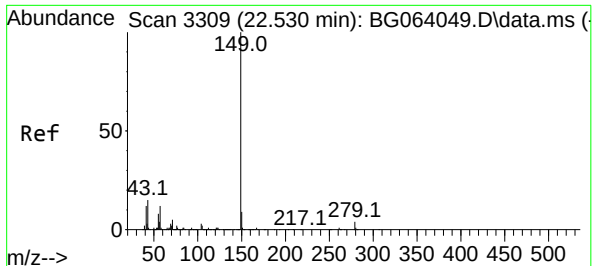
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 46.263 ng  
RT: 21.369 min Scan# 3111  
Delta R.T. -0.009 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

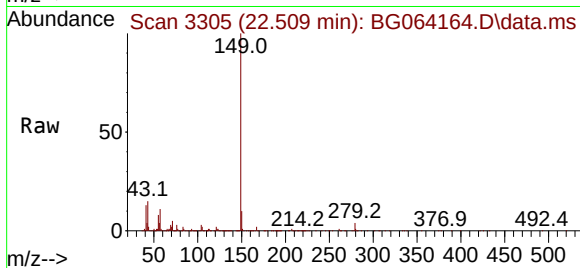
Tgt Ion:149 Resp: 415542  
Ion Ratio Lower Upper  
149 100  
167 26.7 21.0 31.6  
279 3.8 2.8 4.2





#85  
Di-n-octyl phthalate  
Concen: 46.390 ng  
RT: 22.509 min Scan# 31  
Delta R.T. -0.021 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

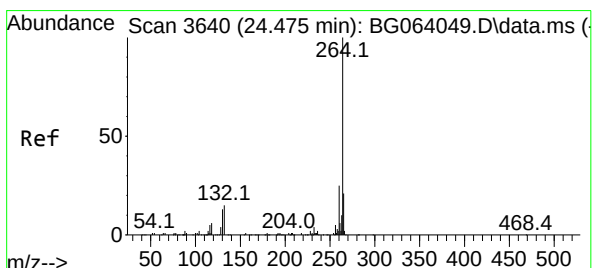
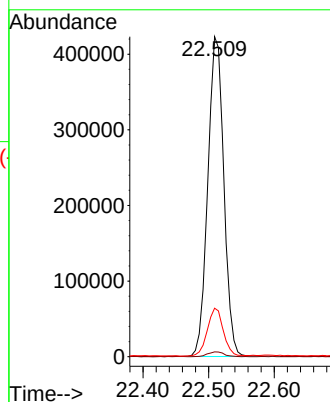
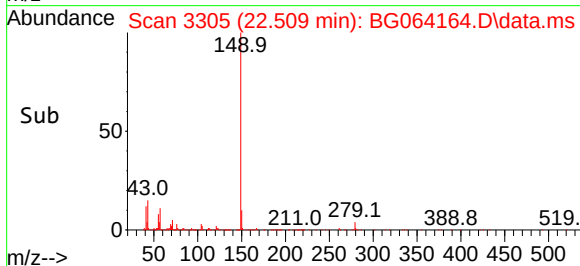
Instrument :  
BNA\_G  
ClientSampleId :  
SSTDCCC040



Tgt Ion:149 Resp: 718709  
Ion Ratio Lower Upper  
149 100  
167 1.6 1.2 1.8  
43 14.9 12.6 19.0

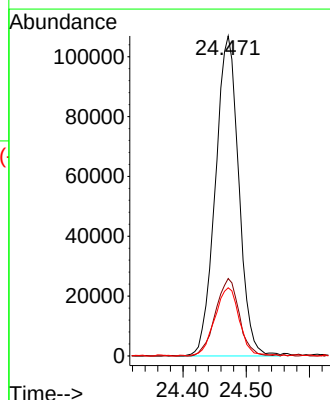
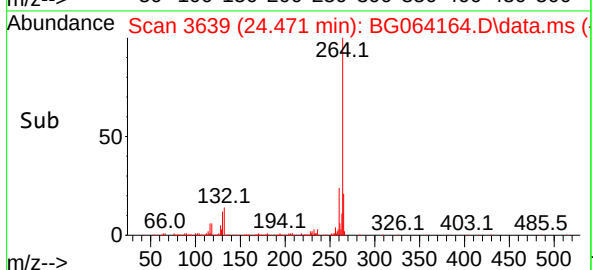
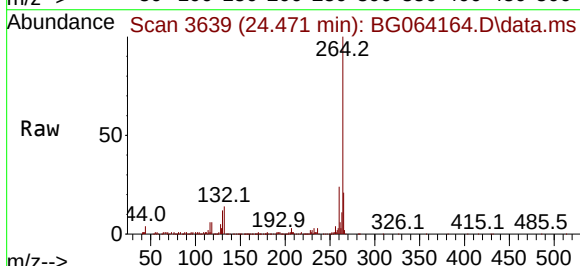
Manual Integrations  
APPROVED

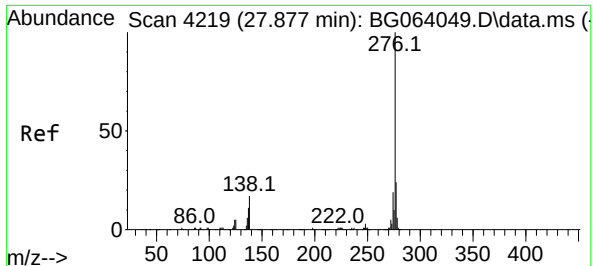
Reviewed By :Anahy Claudio 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.471 min Scan# 3639  
Delta R.T. -0.003 min  
Lab File: BG064164.D  
Acq: 3 Apr 2025 13:04

Tgt Ion:264 Resp: 274699  
Ion Ratio Lower Upper  
264 100  
260 24.2 19.6 29.4  
265 21.3 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 39.391 ng

RT: 27.867 min Scan# 41

Delta R.T. -0.009 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

Tgt Ion:276 Resp: 72399

Ion Ratio Lower Upper

276 100

138 13.3 12.1 18.1

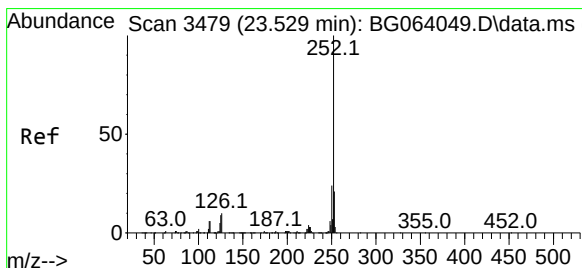
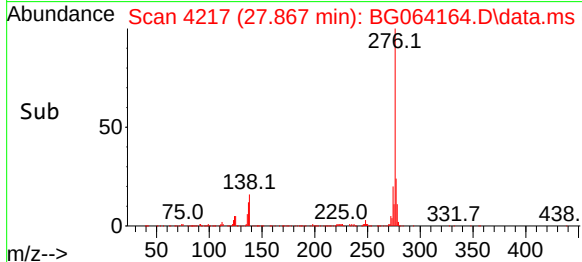
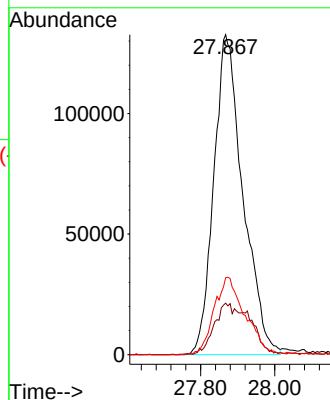
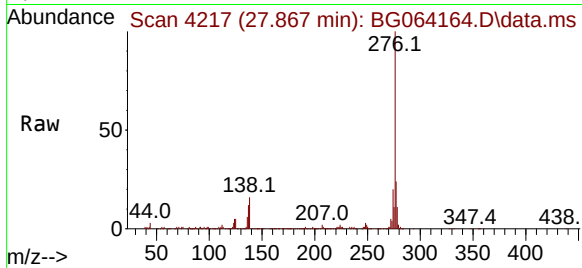
277 25.7 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#88

Benzo(b)fluoranthene

Concen: 40.004 ng

RT: 23.520 min Scan# 3477

Delta R.T. -0.009 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04

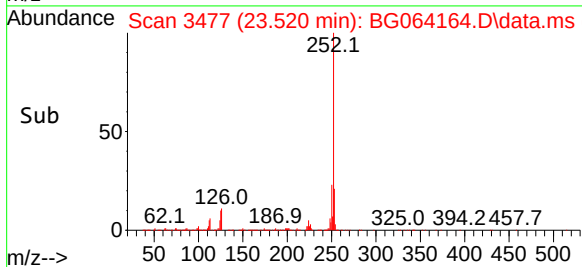
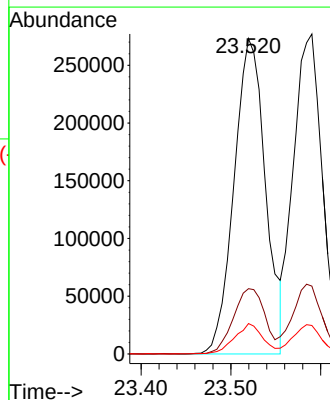
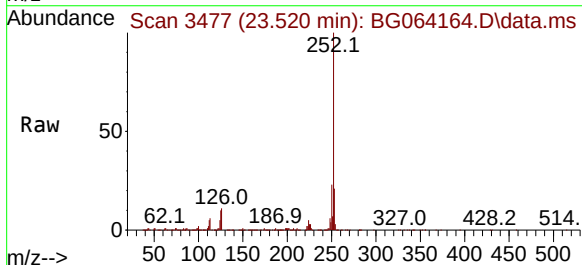
Tgt Ion:252 Resp: 664324

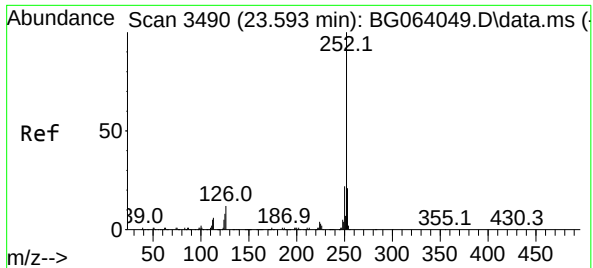
Ion Ratio Lower Upper

252 100

253 20.7 17.0 25.4

125 9.7 7.4 11.2





#89

Benzo(k)fluoranthene

Concen: 36.961 ng

RT: 23.590 min Scan# 34

Delta R.T. -0.003 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

Tgt Ion:252 Resp: 61575

Ion Ratio Lower Upper

252 100

253 21.2 16.8 25.2

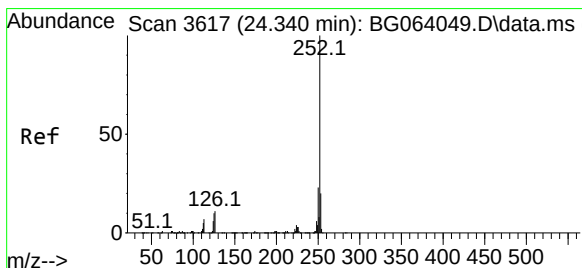
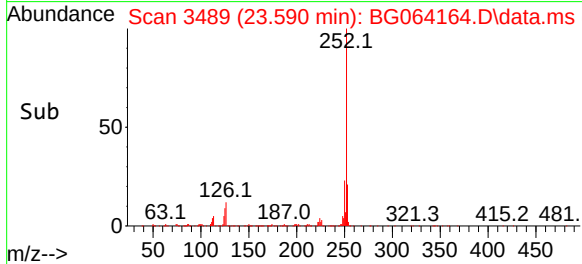
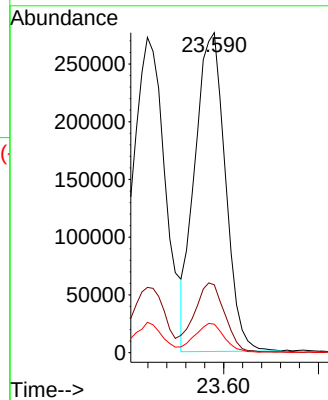
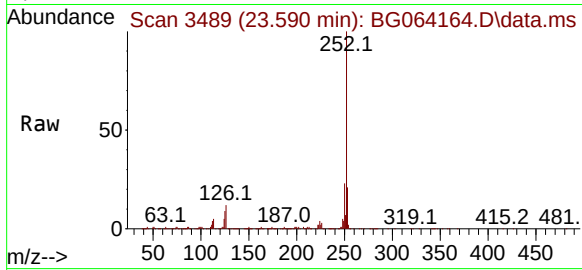
125 8.9 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#90

Benzo(a)pyrene

Concen: 39.239 ng

RT: 24.330 min Scan# 3615

Delta R.T. -0.009 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04

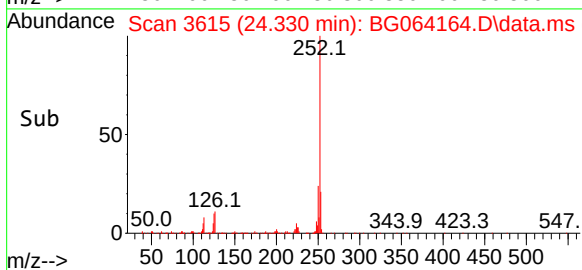
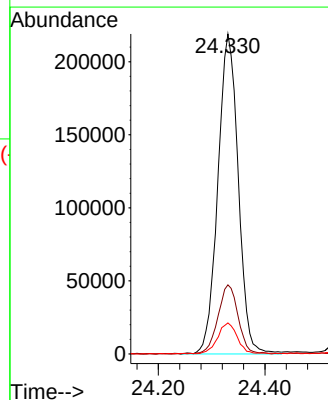
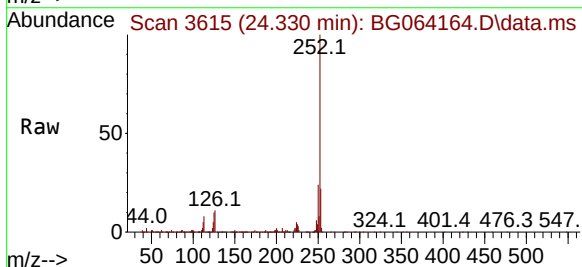
Tgt Ion:252 Resp: 580328

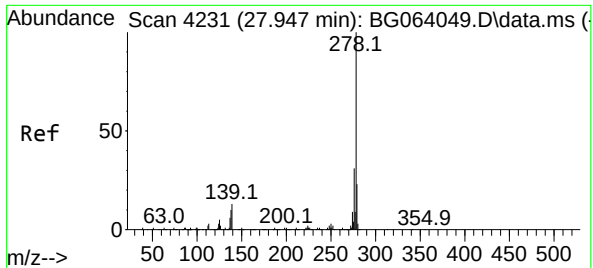
Ion Ratio Lower Upper

252 100

253 21.6 16.2 24.2

125 9.7 7.8 11.6





#91

Dibenzo(a,h)anthracene

Concen: 40.051 ng

RT: 27.932 min Scan# 41

Delta R.T. -0.015 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04

Instrument :

BNA\_G

ClientSampleId :

SSTDCCC040

Tgt Ion:278 Resp: 610274

Ion Ratio Lower Upper

278 100

139 12.5 10.2 15.2

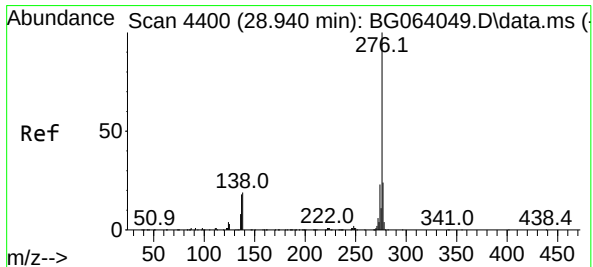
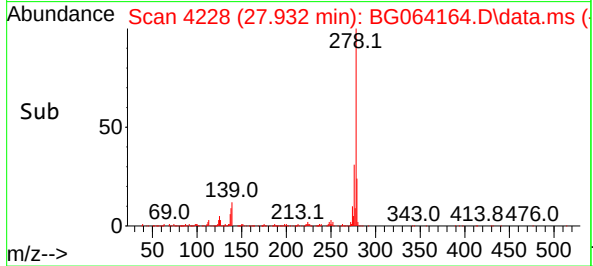
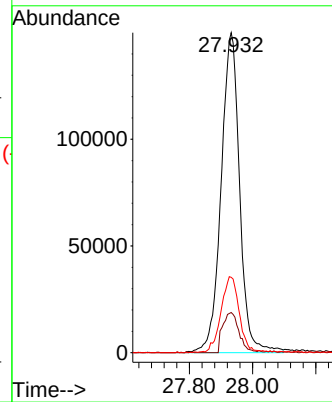
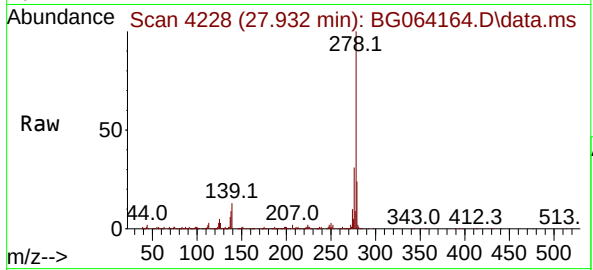
279 23.6 18.1 27.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#92

Benzo(g,h,i)perylene

Concen: 38.770 ng

RT: 28.931 min Scan# 4398

Delta R.T. -0.009 min

Lab File: BG064164.D

Acq: 3 Apr 2025 13:04

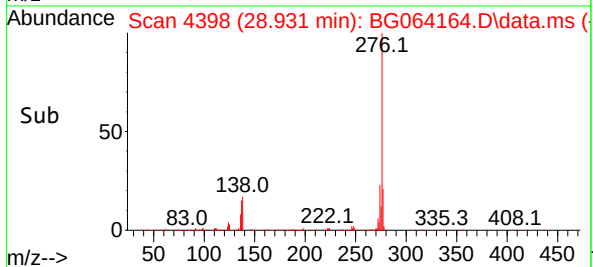
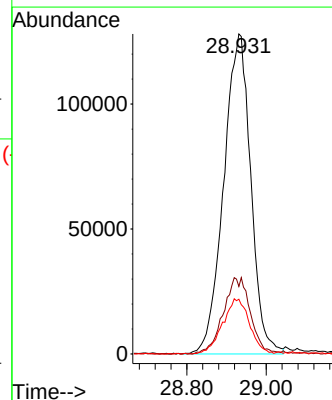
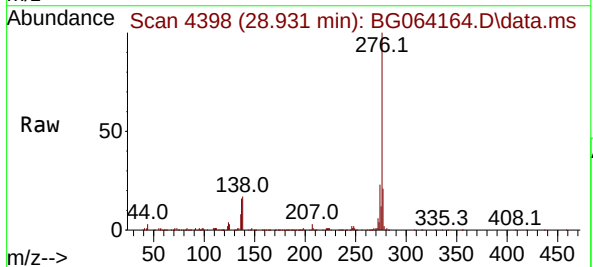
Tgt Ion:276 Resp: 606526

Ion Ratio Lower Upper

276 100

277 21.1 19.5 29.3

138 17.1 15.4 23.0



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
 Data File : BG064164.D  
 Acq On : 3 Apr 2025 13:04  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 03 13:40:21 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 2    | 1,4-Dioxane                 | 0.580 | 0.514 | 11.4   | 80    | 0.00     |
| 3    | Pyridine                    | 1.412 | 1.238 | 12.3   | 72    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 1.009 | 0.934 | 7.4    | 80    | 0.00     |
| 5 S  | 2-Fluorophenol              | 1.281 | 1.216 | 5.1    | 82    | 0.00     |
| 6    | Aniline                     | 1.710 | 1.587 | 7.2    | 80    | 0.00     |
| 7 S  | Phenol-d6                   | 1.742 | 1.737 | 0.3    | 86    | 0.00     |
| 8    | 2-Chlorophenol              | 1.376 | 1.358 | 1.3    | 86    | 0.00     |
| 9    | Benzaldehyde                | 1.013 | 0.930 | 8.2    | 85    | 0.00     |
| 10 C | Phenol                      | 1.784 | 1.707 | 4.3    | 83    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 1.399 | 1.271 | 9.1    | 82    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 1.511 | 1.428 | 5.5    | 84    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 1.548 | 1.451 | 6.3    | 83    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 1.493 | 1.437 | 3.8    | 86    | 0.00     |
| 15   | Benzyl Alcohol              | 1.346 | 1.446 | -7.4   | 92    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 3.145 | 2.896 | 7.9    | 81    | 0.00     |
| 17   | 2-Methylphenol              | 1.184 | 1.221 | -3.1   | 88    | 0.00     |
| 18   | Hexachloroethane            | 0.542 | 0.568 | -4.8   | 90    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 1.223 | 1.233 | -0.8   | 85    | 0.00     |
| 20   | 3+4-Methylphenols           | 1.630 | 1.653 | -1.4   | 88    | 0.00     |
| 21 I | Naphthalene-d8              | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 22   | Acetophenone                | 0.548 | 0.522 | 4.7    | 85    | 0.00     |
| 23 S | Nitrobenzene-d5             | 0.362 | 0.386 | -6.6   | 92    | 0.00     |
| 24   | Nitrobenzene                | 0.374 | 0.395 | -5.6   | 91    | 0.00     |
| 25   | Isophorone                  | 0.724 | 0.678 | 6.4    | 83    | 0.00     |
| 26 C | 2-Nitrophenol               | 0.112 | 0.158 | -41.1# | 118   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 0.217 | 0.222 | -2.3   | 89    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 0.439 | 0.418 | 4.8    | 86    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 0.274 | 0.292 | -6.6   | 93    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 0.331 | 0.325 | 1.8    | 89    | 0.00     |
| 31   | Naphthalene                 | 1.078 | 1.071 | 0.6    | 91    | 0.00     |
| 32   | Benzoic acid                | 0.170 | 0.252 | -48.2# | 134   | 0.00     |
| 33   | 4-Chloroaniline             | 0.394 | 0.399 | -1.3   | 87    | 0.00     |
| 34 C | Hexachlorobutadiene         | 0.217 | 0.220 | -1.4   | 92    | 0.00     |
| 35   | Caprolactam                 | 0.105 | 0.111 | -5.7   | 92    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 0.359 | 0.397 | -10.6  | 97    | 0.00     |
| 37   | 2-Methylnaphthalene         | 0.761 | 0.798 | -4.9   | 95    | 0.00     |
| 38   | 1-Methylnaphthalene         | 0.746 | 0.785 | -5.2   | 95    | 0.00     |
| 39 I | Acenaphthene-d10            | 1.000 | 1.000 | 0.0    | 100   | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 0.571 | 0.557 | 2.5    | 95    | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 0.161 | 0.224 | -39.1# | 128   | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 0.222 | 0.261 | -17.6  | 108   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 0.337 | 0.362 | -7.4   | 101   | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 0.374 | 0.411 | -9.9   | 101   | 0.00     |
| 45 S | 2-Fluorobiphenyl            | 1.318 | 1.287 | 2.4    | 94    | 0.00     |
| 46   | 1,1'-Biphenyl               | 1.511 | 1.451 | 4.0    | 94    | 0.00     |
| 47   | 2-Chloronaphthalene         | 1.102 | 1.045 | 5.2    | 92    | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
 Data File : BG064164.D  
 Acq On : 3 Apr 2025 13:04  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 03 13:40:21 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|----------------------------|-------|-------|--------|-------|----------|
| 48   | 2-Nitroaniline             | 0.318 | 0.396 | -24.5  | 113   | 0.00     |
| 49   | Acenaphthylene             | 1.743 | 1.673 | 4.0    | 93    | 0.00     |
| 50   | Dimethylphthalate          | 1.476 | 1.455 | 1.4    | 95    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 0.261 | 0.309 | -18.4  | 105   | 0.00     |
| 52 C | Acenaphthene               | 1.170 | 1.118 | 4.4    | 94    | 0.00     |
| 53   | 3-Nitroaniline             | 0.285 | 0.312 | -9.5   | 98    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 0.102 | 0.153 | -50.0# | 152#  | 0.00     |
| 55   | Dibenzofuran               | 1.895 | 1.831 | 3.4    | 94    | 0.00     |
| 56 P | 4-Nitrophenol              | 0.239 | 0.264 | -10.5  | 102   | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 0.357 | 0.438 | -22.7  | 108   | 0.00     |
| 58   | Fluorene                   | 1.476 | 1.455 | 1.4    | 98    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 0.365 | 0.414 | -13.4  | 104   | -0.08    |
| 60   | Diethylphthalate           | 1.603 | 1.624 | -1.3   | 97    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 0.733 | 0.722 | 1.5    | 98    | 0.00     |
| 62   | 4-Nitroaniline             | 0.308 | 0.341 | -10.7  | 98    | 0.00     |
| 63   | Azobenzene                 | 1.710 | 1.636 | 4.3    | 93    | 0.00     |
| 64 I | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 99    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 0.076 | 0.112 | -47.4# | 149   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 0.566 | 0.554 | 2.1    | 95    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 0.205 | 0.211 | -2.9   | 100   | 0.00     |
| 68   | Hexachlorobenzene          | 0.229 | 0.230 | -0.4   | 100   | 0.00     |
| 69   | Atrazine                   | 0.167 | 0.145 | 13.2   | 90    | 0.00     |
| 70 C | Pentachlorophenol          | 0.142 | 0.157 | -10.6  | 105   | 0.00     |
| 71   | Phenanthrene               | 1.067 | 1.041 | 2.4    | 96    | 0.00     |
| 72   | Anthracene                 | 1.061 | 1.047 | 1.3    | 96    | 0.00     |
| 73   | Carbazole                  | 0.990 | 0.973 | 1.7    | 94    | 0.00     |
| 74   | Di-n-butylphthalate        | 1.166 | 1.230 | -5.5   | 97    | 0.00     |
| 75 C | Fluoranthene               | 1.286 | 1.246 | 3.1    | 94    | 0.00     |
| 76 I | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 95    | 0.00     |
| 77   | Benzidine                  | 0.277 | 0.350 | -26.4# | 106   | 0.00     |
| 78   | Pyrene                     | 1.289 | 1.273 | 1.2    | 92    | 0.00     |
| 79 S | Terphenyl-d14              | 0.989 | 0.970 | 1.9    | 92    | 0.00     |
| 80   | Butylbenzylphthalate       | 0.423 | 0.546 | -29.1# | 112   | 0.00     |
| 81   | Benzo(a)anthracene         | 1.281 | 1.251 | 2.3    | 91    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 0.415 | 0.435 | -4.8   | 92    | 0.00     |
| 83   | Chrysene                   | 1.278 | 1.204 | 5.8    | 88    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 0.693 | 0.801 | -15.6  | 101   | 0.00     |
| 85 c | Di-n-octyl phthalate       | 1.195 | 1.386 | -16.0  | 106   | -0.02    |
| 86 I | Perylene-d12               | 1.000 | 1.000 | 0.0    | 95    | 0.00     |
| 87   | Indeno(1,2,3-cd)pyrene     | 1.338 | 1.318 | 1.5    | 91    | 0.00     |
| 88   | Benzo(b)fluoranthene       | 1.209 | 1.209 | 0.0    | 94    | 0.00     |
| 89   | Benzo(k)fluoranthene       | 1.213 | 1.121 | 7.6    | 85    | 0.00     |
| 90 C | Benzo(a)pyrene             | 1.077 | 1.056 | 1.9    | 90    | 0.00     |
| 91   | Dibenzo(a,h)anthracene     | 1.109 | 1.111 | -0.2   | 93    | -0.01    |
| 92   | Benzo(g,h,i)perylene       | 1.139 | 1.104 | 3.1    | 91    | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
Data File : BG064164.D  
Acq On : 3 Apr 2025 13:04  
Operator : RC/JU  
Sample : SSTDCCC040  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTDCCC040

Quant Time: Apr 03 13:40:21 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|----------|-------|------|------|-------|----------|
|----------|-------|------|------|-------|----------|

(#) = Out of Range

SPCC's out = 0 CCC's out = 1



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
 Data File : BG064164.D  
 Acq On : 3 Apr 2025 13:04  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 03 13:40:21 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|--------|--------|--------|-------|----------|
| 1 I  | 1,4-Dichlorobenzene-d4      | 20.000 | 20.000 | 0.0    | 91    | 0.00     |
| 2    | 1,4-Dioxane                 | 40.000 | 35.387 | 11.5   | 80    | 0.00     |
| 3    | Pyridine                    | 40.000 | 35.068 | 12.3   | 72    | 0.00     |
| 4    | n-Nitrosodimethylamine      | 40.000 | 37.032 | 7.4    | 80    | 0.00     |
| 5 S  | 2-Fluorophenol              | 80.000 | 75.960 | 5.1    | 82    | 0.00     |
| 6    | Aniline                     | 40.000 | 37.132 | 7.2    | 80    | 0.00     |
| 7 S  | Phenol-d6                   | 80.000 | 79.749 | 0.3    | 86    | 0.00     |
| 8    | 2-Chlorophenol              | 40.000 | 39.498 | 1.3    | 86    | 0.00     |
| 9    | Benzaldehyde                | 40.000 | 36.714 | 8.2    | 85    | 0.00     |
| 10 C | Phenol                      | 40.000 | 38.273 | 4.3    | 83    | 0.00     |
| 11   | bis(2-Chloroethyl)ether     | 40.000 | 36.356 | 9.1    | 82    | 0.00     |
| 12   | 1,3-Dichlorobenzene         | 40.000 | 37.811 | 5.5    | 84    | 0.00     |
| 13 C | 1,4-Dichlorobenzene         | 40.000 | 37.485 | 6.3    | 83    | 0.00     |
| 14   | 1,2-Dichlorobenzene         | 40.000 | 38.510 | 3.7    | 86    | 0.00     |
| 15   | Benzyl Alcohol              | 40.000 | 42.949 | -7.4   | 92    | 0.00     |
| 16   | 2,2'-oxybis(1-Chloropropane | 40.000 | 36.829 | 7.9    | 81    | 0.00     |
| 17   | 2-Methylphenol              | 40.000 | 41.235 | -3.1   | 88    | 0.00     |
| 18   | Hexachloroethane            | 40.000 | 41.940 | -4.8   | 90    | 0.00     |
| 19 P | n-Nitroso-di-n-propylamine  | 40.000 | 40.336 | -0.8   | 85    | 0.00     |
| 20   | 3+4-Methylphenols           | 40.000 | 40.565 | -1.4   | 88    | 0.00     |
| 21 I | Naphthalene-d8              | 20.000 | 20.000 | 0.0    | 91    | 0.00     |
| 22   | Acetophenone                | 40.000 | 38.113 | 4.7    | 85    | 0.00     |
| 23 S | Nitrobenzene-d5             | 80.000 | 85.429 | -6.8   | 92    | 0.00     |
| 24   | Nitrobenzene                | 40.000 | 42.235 | -5.6   | 91    | 0.00     |
| 25   | Isophorone                  | 40.000 | 37.430 | 6.4    | 83    | 0.00     |
| 26 C | 2-Nitrophenol               | 40.000 | 48.689 | -21.7# | 118   | 0.00     |
| 27   | 2,4-Dimethylphenol          | 40.000 | 40.907 | -2.3   | 89    | 0.00     |
| 28   | bis(2-Chloroethoxy)methane  | 40.000 | 38.083 | 4.8    | 86    | 0.00     |
| 29 C | 2,4-Dichlorophenol          | 40.000 | 42.643 | -6.6   | 93    | 0.00     |
| 30   | 1,2,4-Trichlorobenzene      | 40.000 | 39.309 | 1.7    | 89    | 0.00     |
| 31   | Naphthalene                 | 40.000 | 39.722 | 0.7    | 91    | 0.00     |
| 32   | Benzoic acid                | 40.000 | 50.168 | -25.4# | 134   | 0.00     |
| 33   | 4-Chloroaniline             | 40.000 | 40.475 | -1.2   | 87    | 0.00     |
| 34 C | Hexachlorobutadiene         | 40.000 | 40.574 | -1.4   | 92    | 0.00     |
| 35   | Caprolactam                 | 40.000 | 42.361 | -5.9   | 92    | 0.00     |
| 36 C | 4-Chloro-3-methylphenol     | 40.000 | 44.169 | -10.4  | 97    | 0.00     |
| 37   | 2-Methylnaphthalene         | 40.000 | 41.937 | -4.8   | 95    | 0.00     |
| 38   | 1-Methylnaphthalene         | 40.000 | 42.088 | -5.2   | 95    | 0.00     |
| 39 I | Acenaphthene-d10            | 20.000 | 20.000 | 0.0    | 100   | 0.00     |
| 40   | 1,2,4,5-Tetrachlorobenzene  | 40.000 | 39.010 | 2.5    | 95    | 0.00     |
| 41 P | Hexachlorocyclopentadiene   | 40.000 | 55.656 | -39.1# | 128   | 0.00     |
| 42 S | 2,4,6-Tribromophenol        | 80.000 | 93.837 | -17.3  | 108   | 0.00     |
| 43 C | 2,4,6-Trichlorophenol       | 40.000 | 42.978 | -7.4   | 101   | 0.00     |
| 44   | 2,4,5-Trichlorophenol       | 40.000 | 43.945 | -9.9   | 101   | 0.00     |
| 45 S | 2-Fluorobiphenyl            | 80.000 | 78.142 | 2.3    | 94    | 0.00     |
| 46   | 1,1'-Biphenyl               | 40.000 | 38.424 | 3.9    | 94    | 0.00     |
| 47   | 2-Chloronaphthalene         | 40.000 | 37.945 | 5.1    | 92    | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
 Data File : BG064164.D  
 Acq On : 3 Apr 2025 13:04  
 Operator : RC/JU  
 Sample : SSTDCCC040  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTDCCC040

Quant Time: Apr 03 13:40:21 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                   | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|----------------------------|--------|--------|--------|-------|----------|
| 48   | 2-Nitroaniline             | 40.000 | 44.074 | -10.2  | 113   | 0.00     |
| 49   | Acenaphthylene             | 40.000 | 38.382 | 4.0    | 93    | 0.00     |
| 50   | Dimethylphthalate          | 40.000 | 39.426 | 1.4    | 95    | 0.00     |
| 51   | 2,6-Dinitrotoluene         | 40.000 | 41.696 | -4.2   | 105   | 0.00     |
| 52 C | Acenaphthene               | 40.000 | 38.229 | 4.4    | 94    | 0.00     |
| 53   | 3-Nitroaniline             | 40.000 | 43.696 | -9.2   | 98    | 0.00     |
| 54 P | 2,4-Dinitrophenol          | 40.000 | 51.990 | -30.0# | 152   | 0.00     |
| 55   | Dibenzofuran               | 40.000 | 38.644 | 3.4    | 94    | 0.00     |
| 56 P | 4-Nitrophenol              | 40.000 | 44.070 | -10.2  | 102   | 0.00     |
| 57   | 2,4-Dinitrotoluene         | 40.000 | 42.785 | -7.0   | 108   | 0.00     |
| 58   | Fluorene                   | 40.000 | 39.423 | 1.4    | 98    | 0.00     |
| 59   | 2,3,4,6-Tetrachlorophenol  | 40.000 | 45.389 | -13.5  | 104   | -0.08    |
| 60   | Diethylphthalate           | 40.000 | 40.534 | -1.3   | 97    | 0.00     |
| 61   | 4-Chlorophenyl-phenylether | 40.000 | 39.373 | 1.6    | 98    | 0.00     |
| 62   | 4-Nitroaniline             | 40.000 | 44.300 | -10.7  | 98    | 0.00     |
| 63   | Azobenzene                 | 40.000 | 38.258 | 4.4    | 93    | 0.00     |
| 64 I | Phenanthrene-d10           | 20.000 | 20.000 | 0.0    | 99    | 0.00     |
| 65   | 4,6-Dinitro-2-methylphenol | 40.000 | 51.147 | -27.9# | 149   | 0.00     |
| 66 c | n-Nitrosodiphenylamine     | 40.000 | 39.119 | 2.2    | 95    | 0.00     |
| 67   | 4-Bromophenyl-phenylether  | 40.000 | 41.251 | -3.1   | 100   | 0.00     |
| 68   | Hexachlorobenzene          | 40.000 | 40.062 | -0.2   | 100   | 0.00     |
| 69   | Atrazine                   | 40.000 | 34.708 | 13.2   | 90    | 0.00     |
| 70 C | Pentachlorophenol          | 40.000 | 43.996 | -10.0  | 105   | 0.00     |
| 71   | Phenanthrene               | 40.000 | 39.025 | 2.4    | 96    | 0.00     |
| 72   | Anthracene                 | 40.000 | 39.484 | 1.3    | 96    | 0.00     |
| 73   | Carbazole                  | 40.000 | 39.306 | 1.7    | 94    | 0.00     |
| 74   | Di-n-butylphthalate        | 40.000 | 42.194 | -5.5   | 97    | 0.00     |
| 75 C | Fluoranthene               | 40.000 | 38.757 | 3.1    | 94    | 0.00     |
| 76 I | Chrysene-d12               | 20.000 | 20.000 | 0.0    | 95    | 0.00     |
| 77   | Benzydine                  | 40.000 | 50.549 | -26.4# | 106   | 0.00     |
| 78   | Pyrene                     | 40.000 | 39.487 | 1.3    | 92    | 0.00     |
| 79 S | Terphenyl-d14              | 80.000 | 78.416 | 2.0    | 92    | 0.00     |
| 80   | Butylbenzylphthalate       | 40.000 | 45.382 | -13.5  | 112   | 0.00     |
| 81   | Benzo(a)anthracene         | 40.000 | 39.071 | 2.3    | 91    | 0.00     |
| 82   | 3,3'-Dichlorobenzidine     | 40.000 | 41.927 | -4.8   | 92    | 0.00     |
| 83   | Chrysene                   | 40.000 | 37.700 | 5.7    | 88    | 0.00     |
| 84   | Bis(2-ethylhexyl)phthalate | 40.000 | 46.263 | -15.7  | 101   | 0.00     |
| 85 c | Di-n-octyl phthalate       | 40.000 | 46.390 | -16.0  | 106   | -0.02    |
| 86 I | Perylene-d12               | 20.000 | 20.000 | 0.0    | 95    | 0.00     |
| 87   | Indeno(1,2,3-cd)pyrene     | 40.000 | 39.391 | 1.5    | 91    | 0.00     |
| 88   | Benzo(b)fluoranthene       | 40.000 | 40.004 | -0.0   | 94    | 0.00     |
| 89   | Benzo(k)fluoranthene       | 40.000 | 36.961 | 7.6    | 85    | 0.00     |
| 90 C | Benzo(a)pyrene             | 40.000 | 39.239 | 1.9    | 90    | 0.00     |
| 91   | Dibenzo(a,h)anthracene     | 40.000 | 40.051 | -0.1   | 93    | -0.01    |
| 92   | Benzo(g,h,i)perylene       | 40.000 | 38.770 | 3.1    | 91    | 0.00     |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
Data File : BG064164.D  
Acq On : 3 Apr 2025 13:04  
Operator : RC/JU  
Sample : SSTDCCC040  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTDCCC040

Quant Time: Apr 03 13:40:21 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

| Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|----------|--------|-------|------|-------|----------|
|----------|--------|-------|------|-------|----------|

(#) = Out of Range

SPCC's out = 0 CCC's out = 1



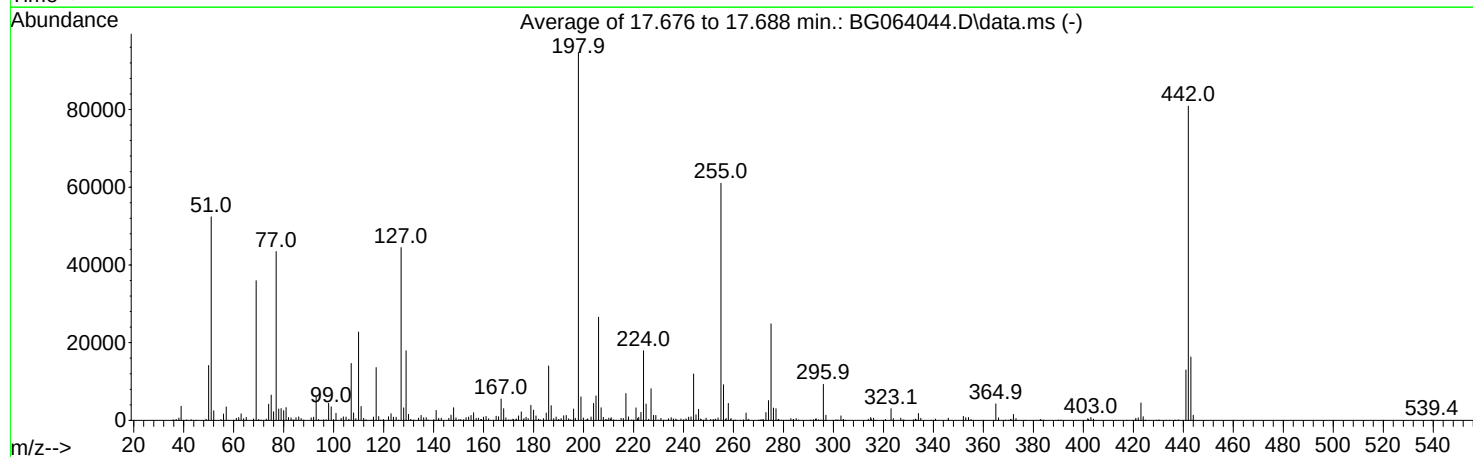
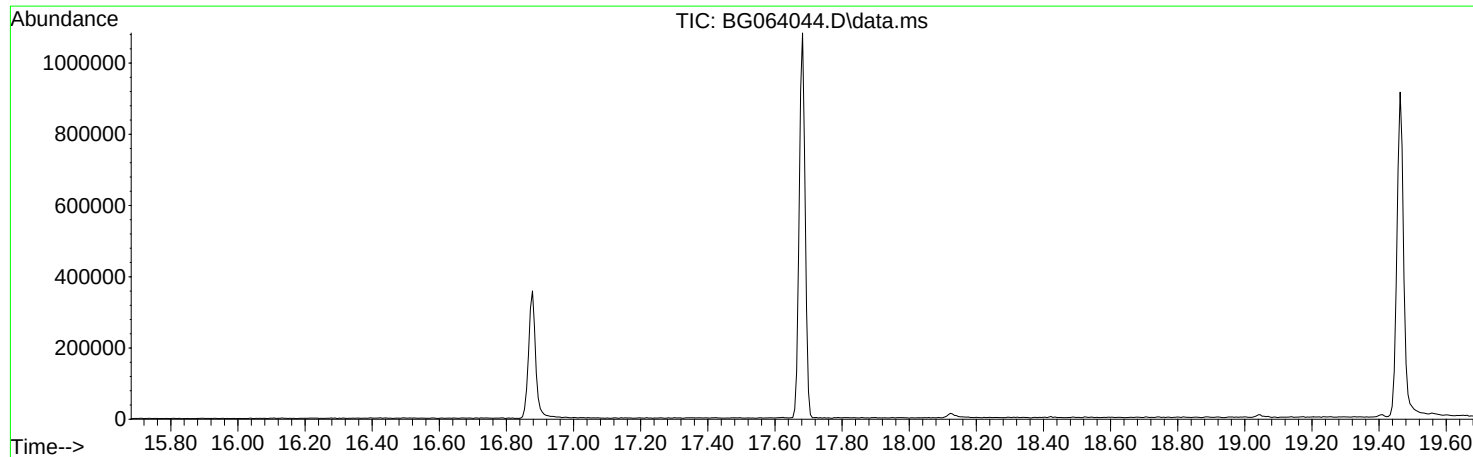
# QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
Data File : BG064044.D  
Acq On : 5 Mar 2025 8:15  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Mar 05 15:39:19 2025



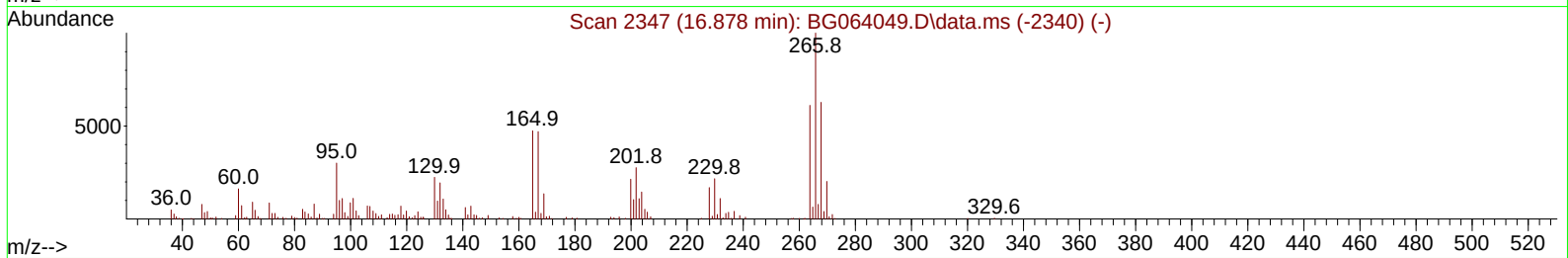
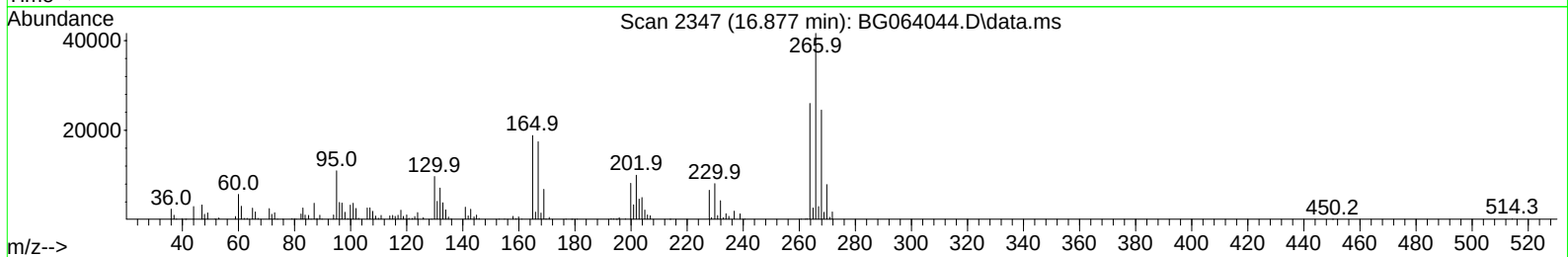
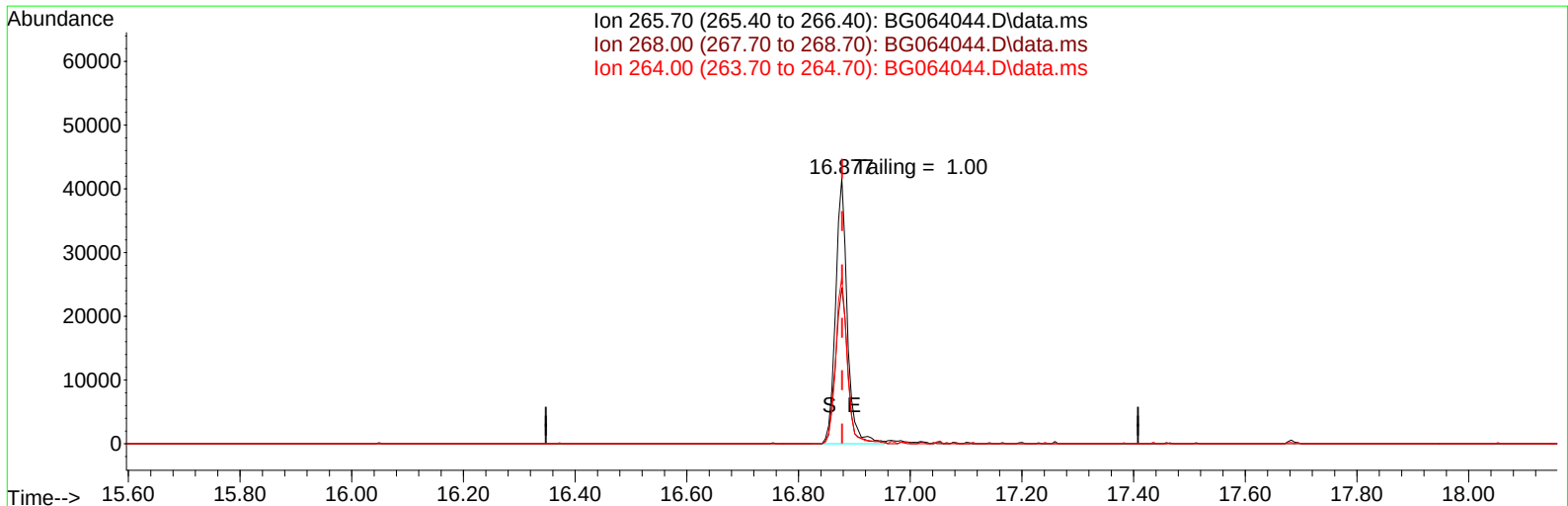
AutoFind: Scans 2483, 2484, 2485; Background Corrected with Scan 2476

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 51             | 198             | 10              | 80              | 55.3         | 52392      | PASS                |
| 68             | 69              | 0.00            | 2               | 1.1          | 386        | PASS                |
| 69             | 198             | 0.00            | 100             | 38.0         | 35944      | PASS                |
| 70             | 69              | 0.00            | 2               | 0.5          | 177        | PASS                |
| 127            | 198             | 10              | 80              | 47.0         | 44448      | PASS                |
| 197            | 198             | 0.00            | 2               | 0.6          | 541        | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 94661      | PASS                |
| 199            | 198             | 5               | 9               | 6.4          | 6065       | PASS                |
| 275            | 198             | 10              | 60              | 26.2         | 24824      | PASS                |
| 365            | 198             | 1               | 100             | 4.5          | 4228       | PASS                |
| 441            | 198             | 0.01            | 100             | 13.7         | 12975      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 80851      | PASS                |
| 443            | 442             | 15              | 24              | 20.2         | 16317      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
Data File : BG064044.D  
Acq On : 5 Mar 2025 8:15  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DFTPP

Quant Time: Mar 05 15:40:12 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration



TIC: BG064044.D\data.ms

**(70) Pentachlorophenol (C)**

**16.877min (-0.001) 14067.66 ng**

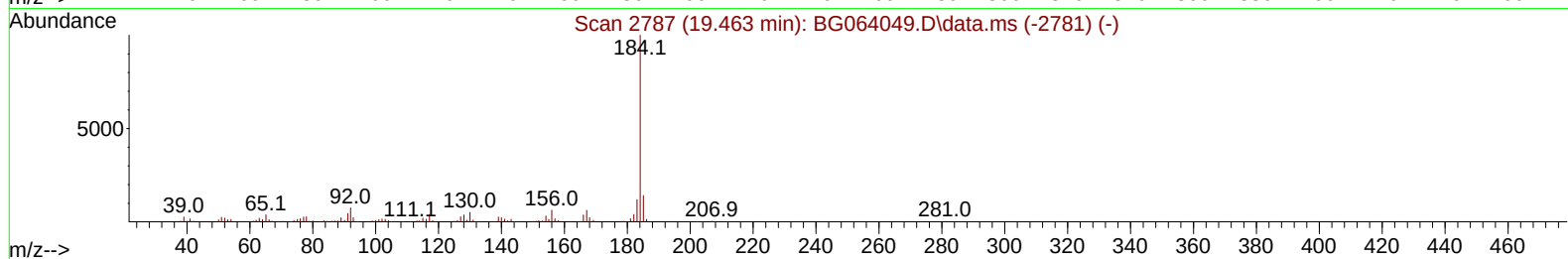
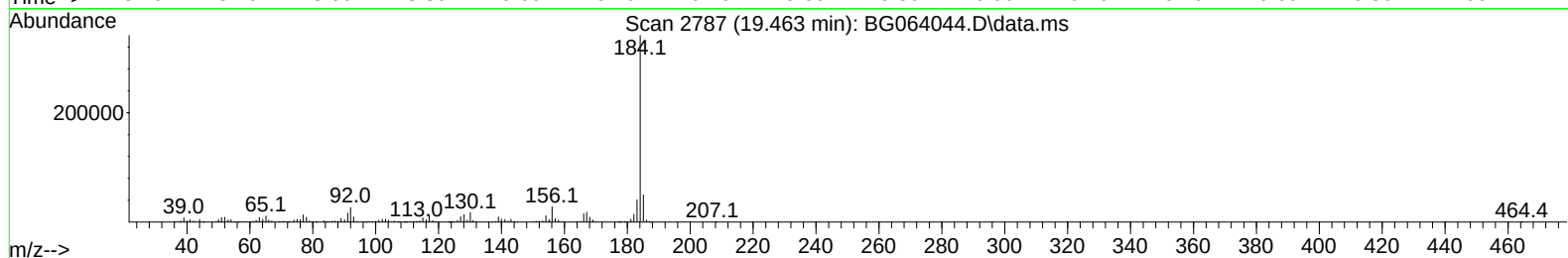
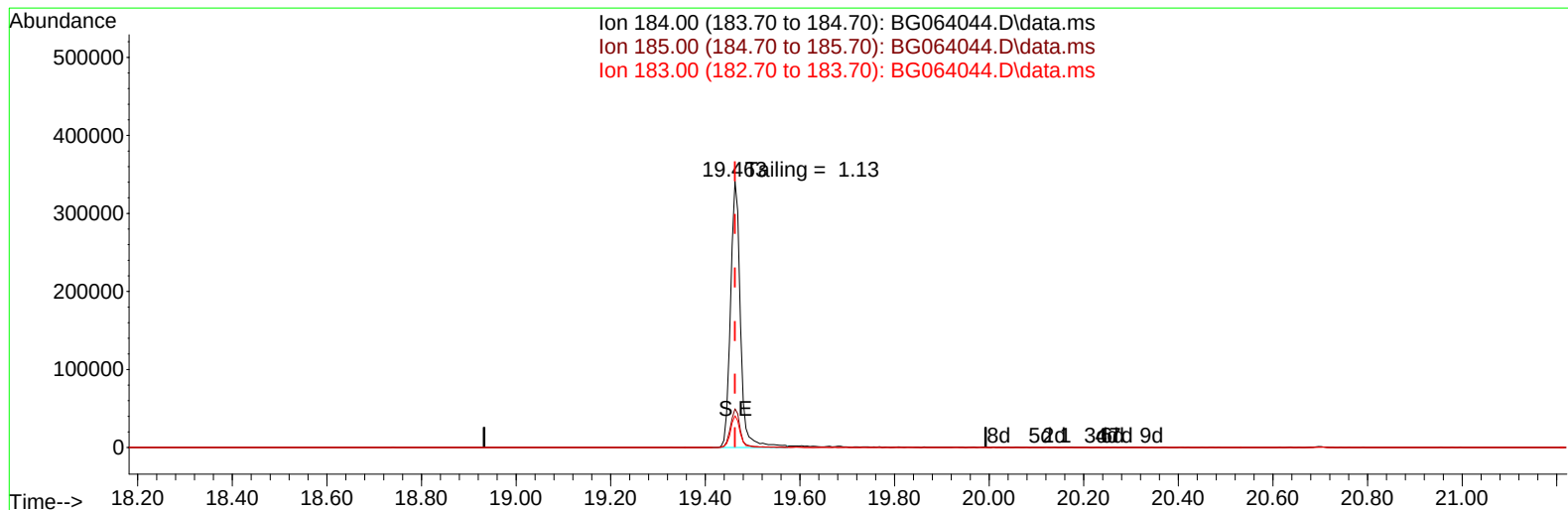
**response 60892**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.80  | 58.85  |
| 264.00 | 61.10  | 62.43  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG030525\  
Data File : BG064044.D  
Acq On : 5 Mar 2025 8:15  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DFTPP

Quant Time: Mar 05 15:40:12 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration



TIC: BG064044.D\data.ms

**(77) Benzidine**

19.463min (-0.000) 687177.88 ng m

response 523350

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 14.10  | 14.57  |
| 183.00 | 11.90  | 11.97  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_G  
ClientSampleId :  
DFTPP

DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 3/5/2025      | BNA_G            | <u>BG064044.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 173171           | 20.702             |
| DDD           | 5056             | 20.256             |
| DDE           | 59               | 19.762             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 5115          | 178286           | 2.87               |
|               |                  |                    |

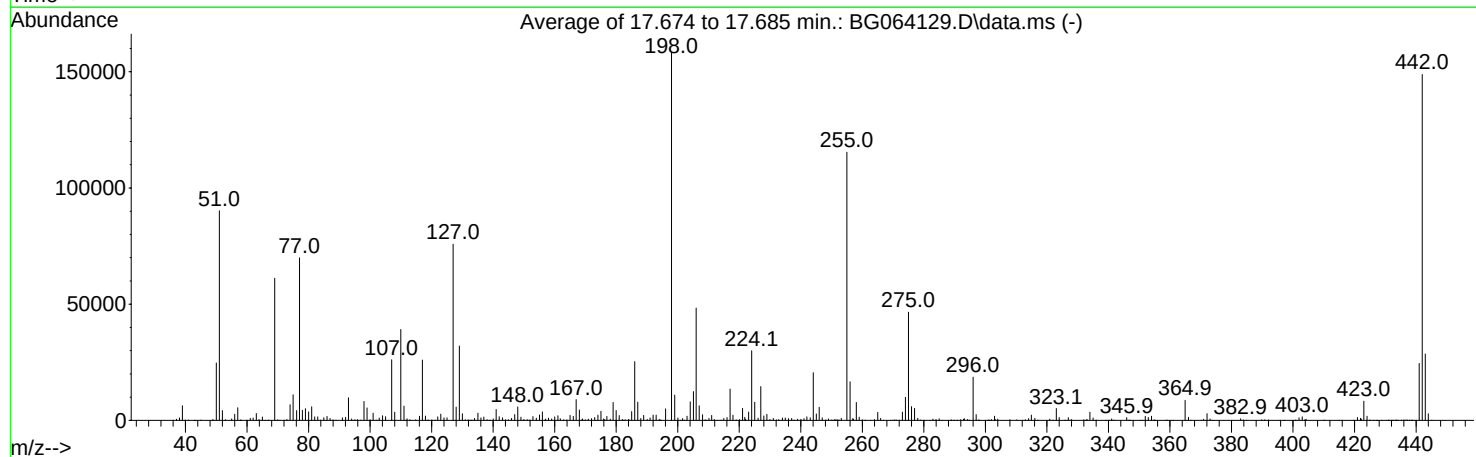
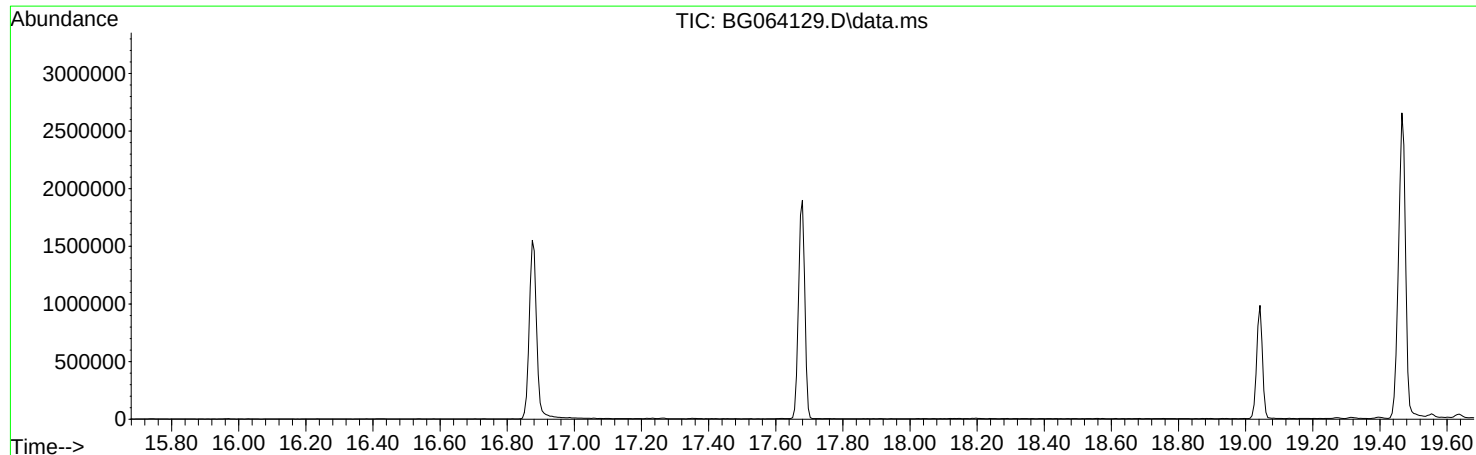


Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064129.D  
Acq On : 1 Apr 2025 10:13  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Mar 05 15:39:19 2025



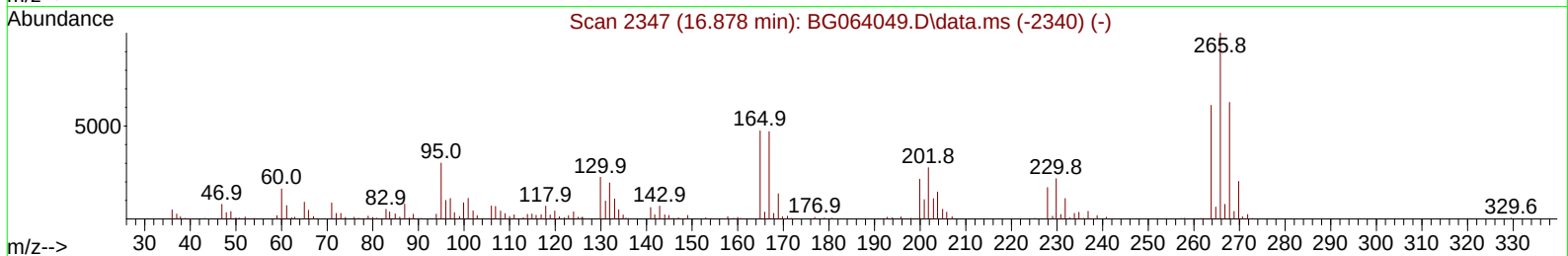
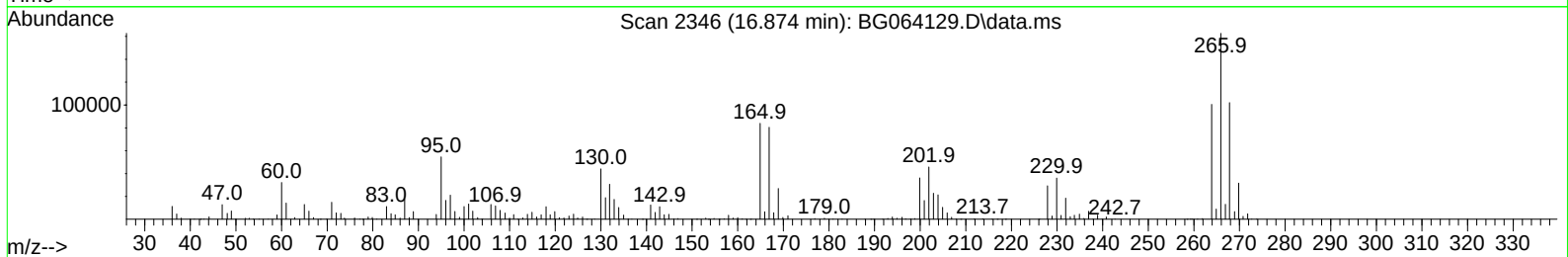
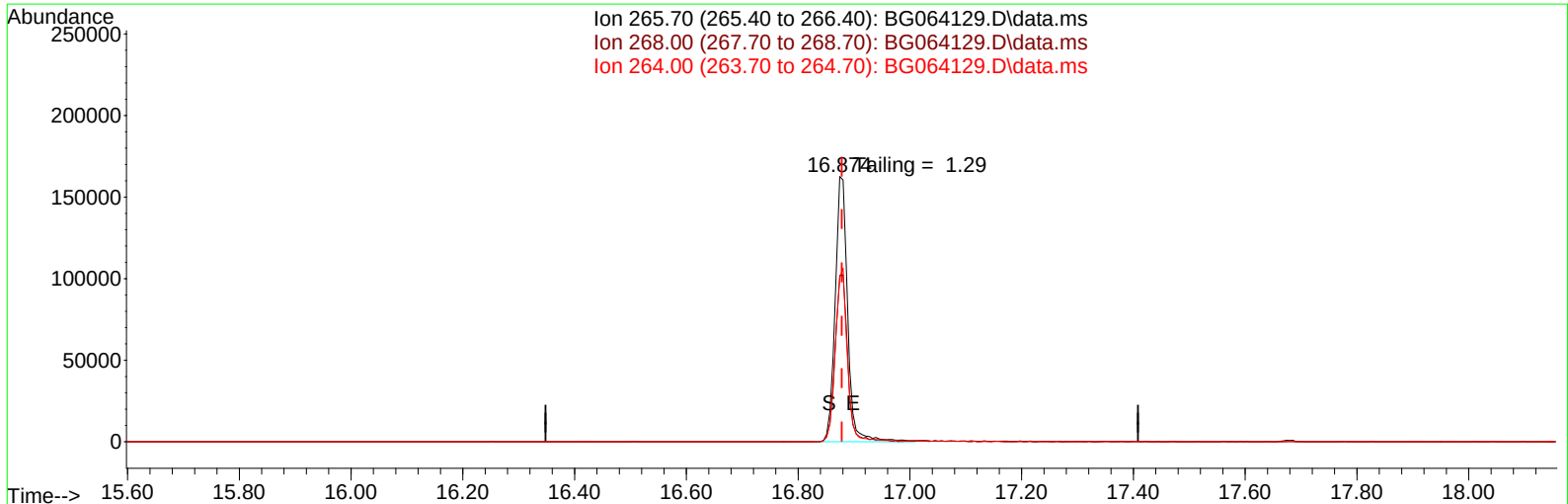
AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 51             | 198             | 10              | 80              | 57.0         | 90163      | PASS                |
| 68             | 69              | 0.00            | 2               | 0.0          | 0          | PASS                |
| 69             | 198             | 0.00            | 100             | 38.6         | 61120      | PASS                |
| 70             | 69              | 0.00            | 2               | 0.5          | 294        | PASS                |
| 127            | 198             | 10              | 80              | 47.9         | 75825      | PASS                |
| 197            | 198             | 0.00            | 2               | 0.0          | 0          | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 158291     | PASS                |
| 199            | 198             | 5               | 9               | 6.9          | 10872      | PASS                |
| 275            | 198             | 10              | 60              | 29.4         | 46560      | PASS                |
| 365            | 198             | 1               | 100             | 5.4          | 8613       | PASS                |
| 441            | 198             | 0.01            | 100             | 15.5         | 24488      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 148856     | PASS                |
| 443            | 442             | 15              | 24              | 19.2         | 28603      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064129.D  
Acq On : 1 Apr 2025 10:13  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DFTPP

Quant Time: Apr 01 12:38:11 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration



TIC: BG064129.D\data.ms

**(70) Pentachlorophenol (C)**

**16.874min (-0.004) 18192.74 ng**

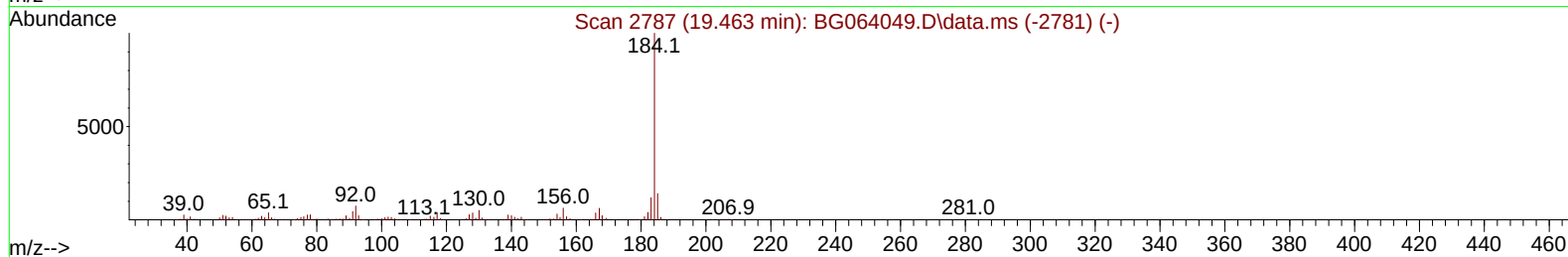
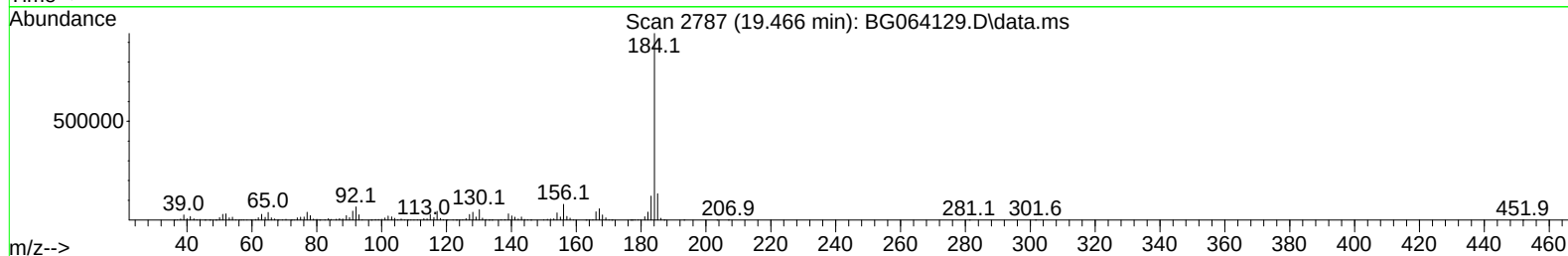
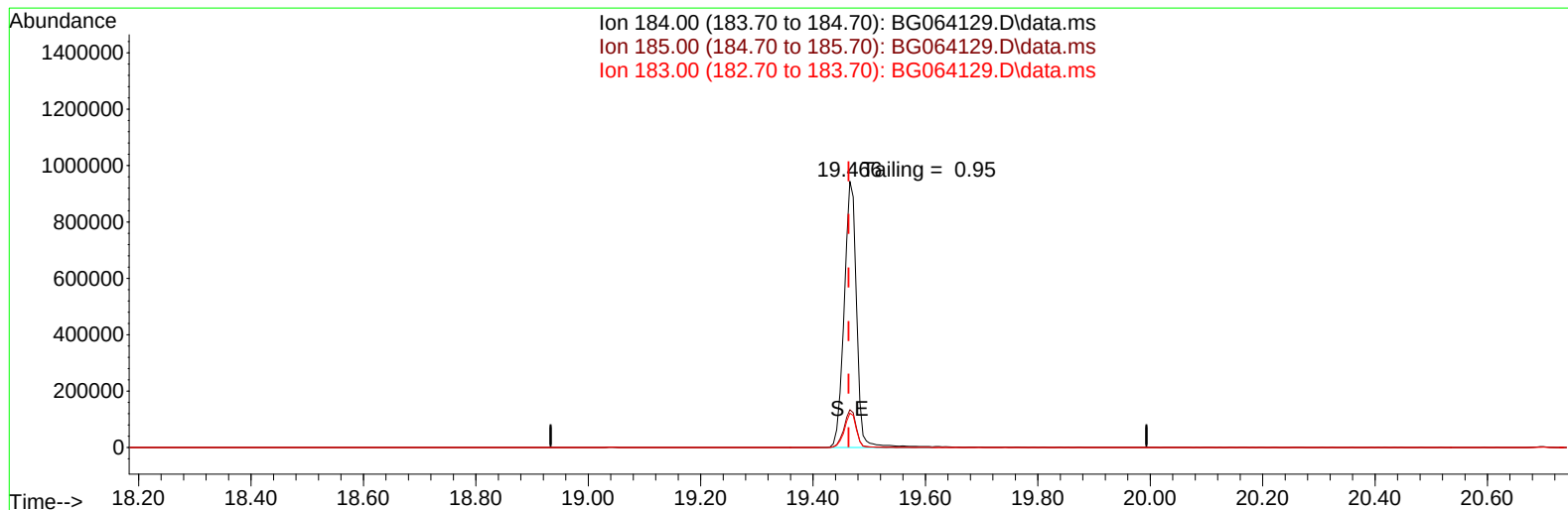
**response 250619**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.80  | 62.76  |
| 264.00 | 61.10  | 61.79  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064129.D  
Acq On : 1 Apr 2025 10:13  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DFTPP

Quant Time: Apr 01 12:38:11 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration



TIC: BG064129.D\data.ms

**(77) Benzidine****19.466min (+ 0.003) 44246.31 ng****response 1453902**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 14.10  | 14.18  |
| 183.00 | 11.90  | 12.89  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DFTPP

DDT Breakdown

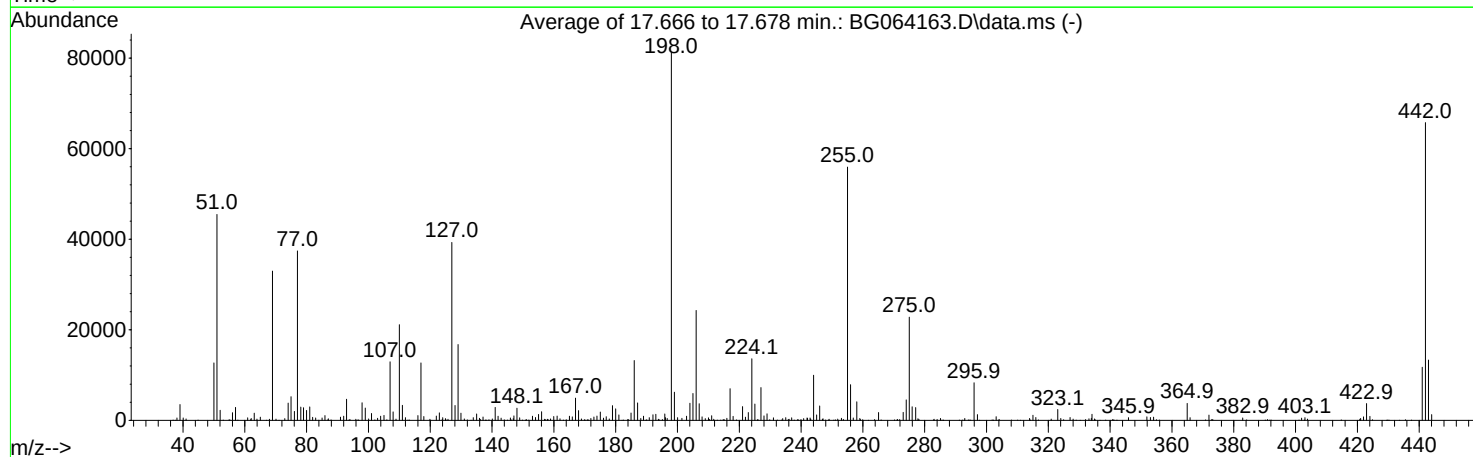
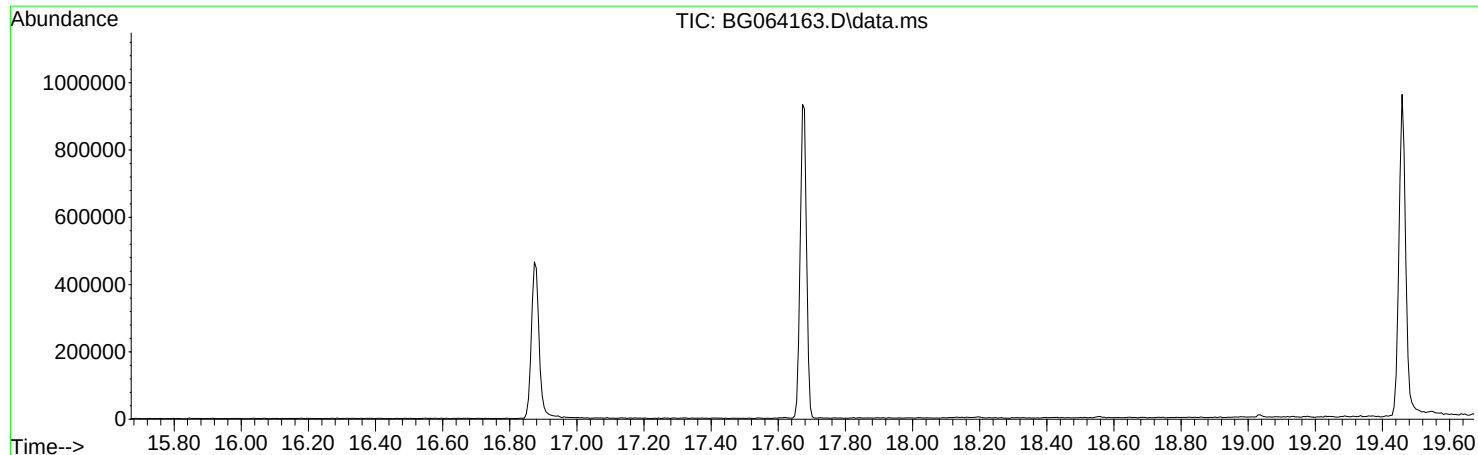
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 4/1/2025      | BNA_G            | <u>BG064129.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 689196           | 20.699             |
| DDD           | 16001            | 20.259             |
| DDE           | 856              | 19.753             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 16857         | 706053           | 2.39               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
Data File : BG064163.D  
Acq On : 3 Apr 2025 12:24  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Mar 05 15:39:19 2025



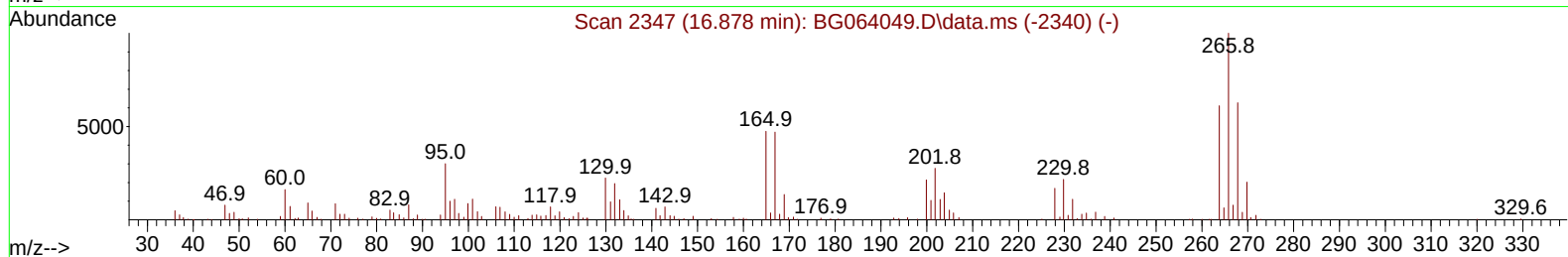
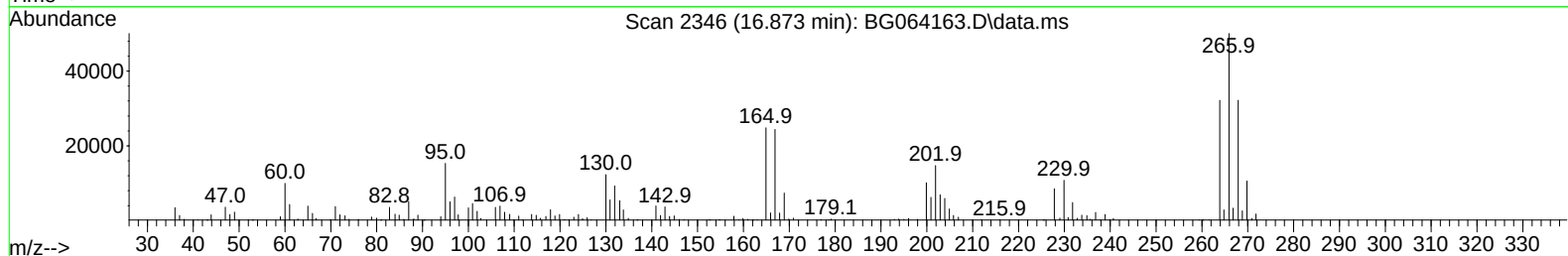
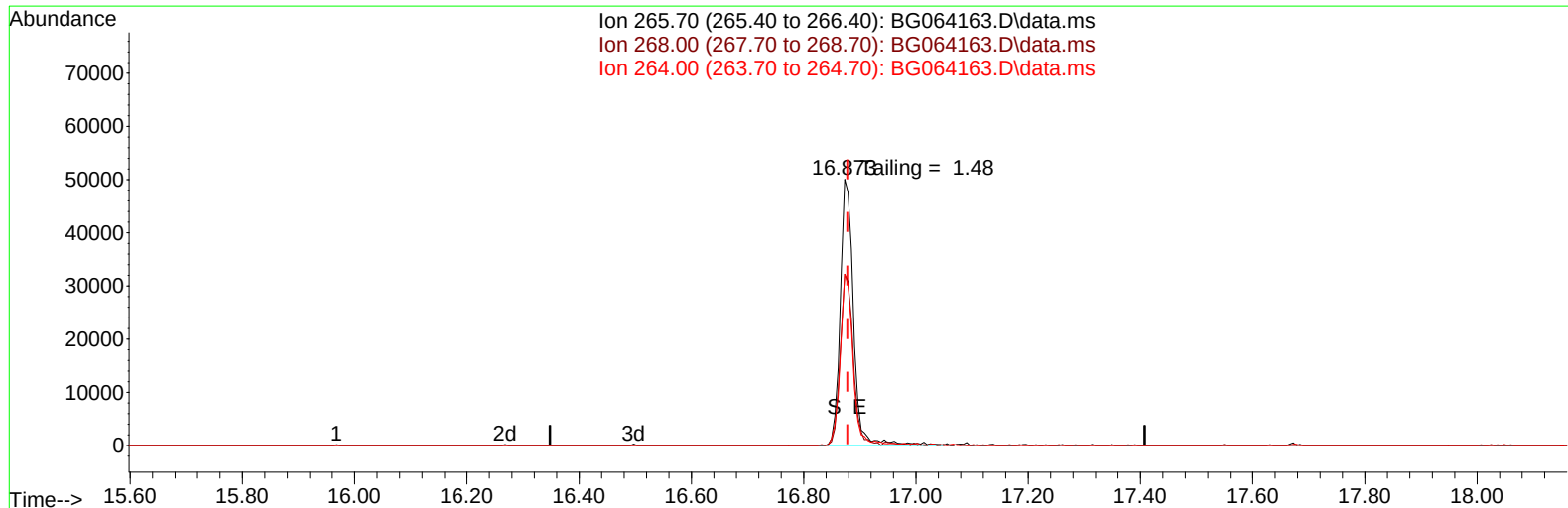
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2475

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 51             | 198             | 10              | 80              | 56.0         | 45483      | PASS                |
| 68             | 69              | 0.00            | 2               | 0.8          | 258        | PASS                |
| 69             | 198             | 0.00            | 100             | 40.6         | 32958      | PASS                |
| 70             | 69              | 0.00            | 2               | 0.8          | 268        | PASS                |
| 127            | 198             | 10              | 80              | 48.4         | 39301      | PASS                |
| 197            | 198             | 0.00            | 2               | 0.5          | 417        | PASS                |
| 198            | 198             | 100             | 100             | 100.0        | 81243      | PASS                |
| 199            | 198             | 5               | 9               | 7.7          | 6234       | PASS                |
| 275            | 198             | 10              | 60              | 28.1         | 22810      | PASS                |
| 365            | 198             | 1               | 100             | 4.6          | 3760       | PASS                |
| 441            | 198             | 0.01            | 100             | 14.4         | 11719      | PASS                |
| 442            | 442             | 50              | 100             | 100.0        | 65776      | PASS                |
| 443            | 442             | 15              | 24              | 20.2         | 13319      | PASS                |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
Data File : BG064163.D  
Acq On : 3 Apr 2025 12:24  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DFTPP

Quant Time: Apr 03 13:51:30 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration



TIC: BG064163.D\data.ms

**(70) Pentachlorophenol (C)**

16.873min (-0.005) 143328.78 ng m

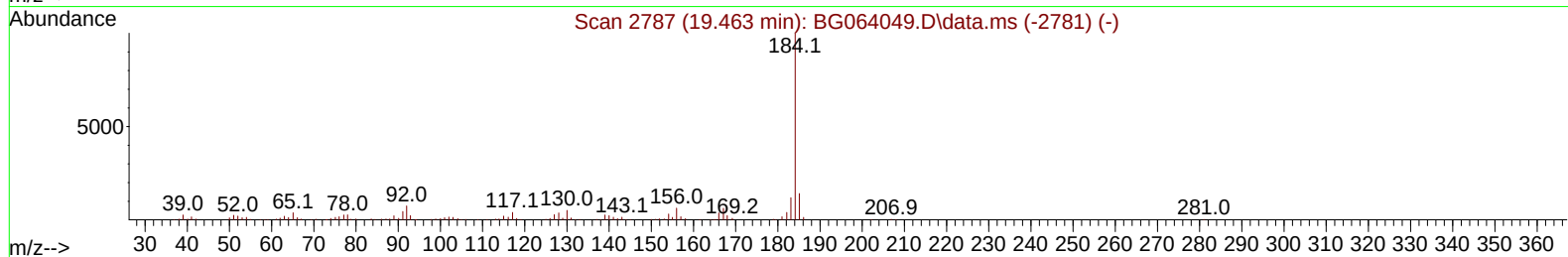
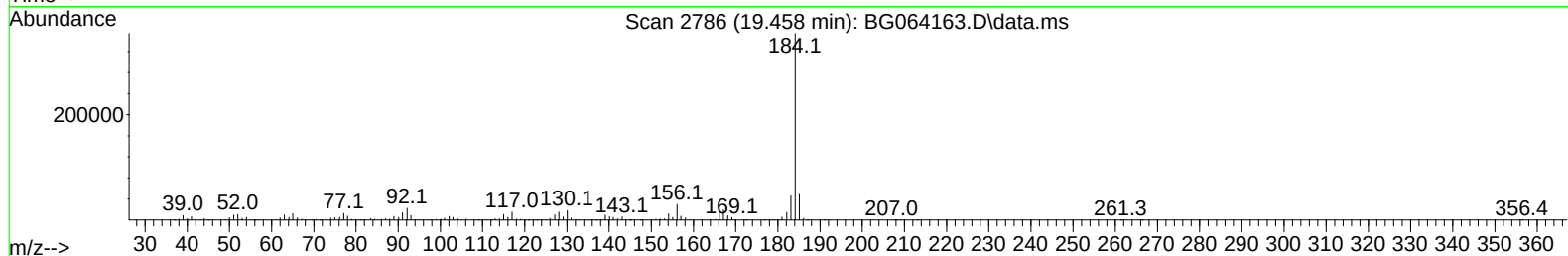
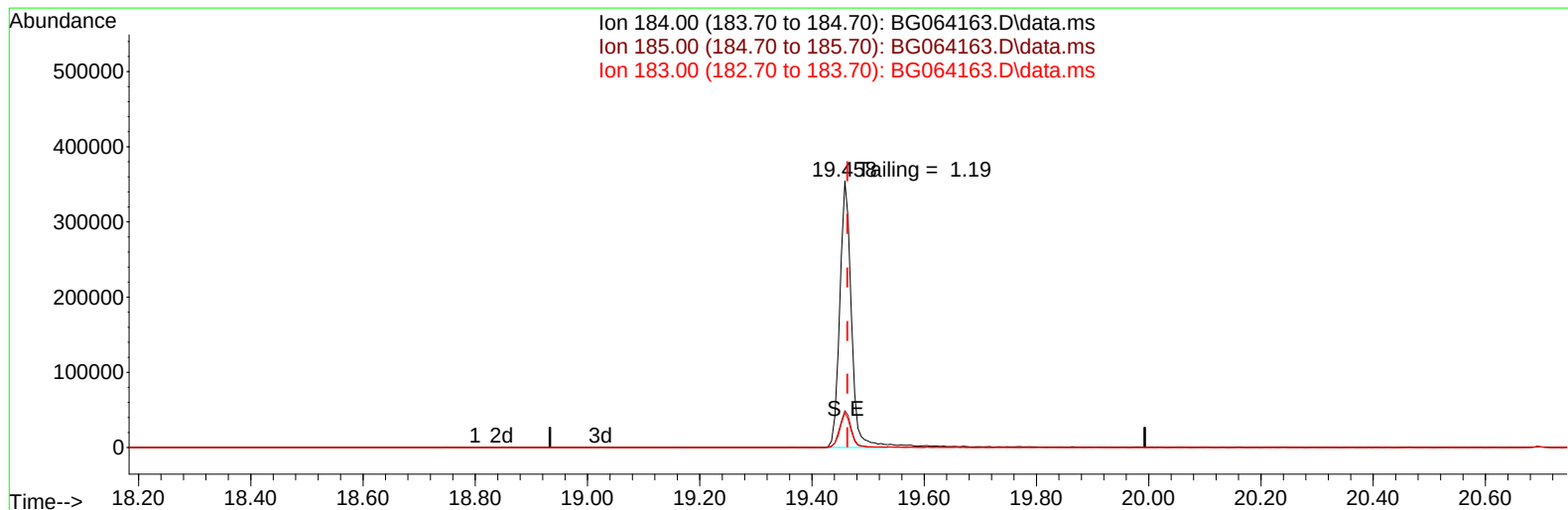
response 82652

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.80  | 64.32  |
| 264.00 | 61.10  | 64.32  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
Data File : BG064163.D  
Acq On : 3 Apr 2025 12:24  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DFTPP

Quant Time: Apr 03 13:51:30 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration



TIC: BG064163.D\data.ms

**(77) Benzidine**

19.458min (-0.005) 9423.30 ng m

response 527163

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 14.10  | 13.84  |
| 183.00 | 11.90  | 13.02  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DFTPP

DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 4/3/2025      | BNA_G            | <u>BG064163.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 247452           | 20.698             |
| DDD           | 6772             | 20.257             |
| DDE           | 773              | 19.752             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 7545          | 254997           | 2.96               |
|               |                  |                    |



## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: |          |
| Project:           | RFP 905                | Date Received:  |          |
| Client Sample ID:  | PB167393BL             | SDG No.:        | Q1664    |
| Lab Sample ID:     | PB167393BL             | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064171.D        | 1         | 03/31/25 11:00 | 04/03/25 17:56 | PB167393      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|-----------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                             |       |           |      |            |       |
| 100-52-7       | Benzaldehyde                | 3.90  | U         | 3.90 | 10.0       | ug/L  |
| 108-95-2       | Phenol                      | 0.91  | U         | 0.91 | 5.00       | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.81  | U         | 0.81 | 5.00       | ug/L  |
| 95-57-8        | 2-Chlorophenol              | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 95-48-7        | 2-Methylphenol              | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 98-86-2        | Acetophenone                | 0.74  | U         | 0.74 | 5.00       | ug/L  |
| 65794-96-9     | 3+4-Methylphenols           | 1.10  | U         | 1.10 | 10.0       | ug/L  |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 1.40  | U         | 1.40 | 2.50       | ug/L  |
| 67-72-1        | Hexachloroethane            | 0.65  | U         | 0.65 | 5.00       | ug/L  |
| 98-95-3        | Nitrobenzene                | 0.76  | U         | 0.76 | 5.00       | ug/L  |
| 78-59-1        | Isophorone                  | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 88-75-5        | 2-Nitrophenol               | 1.80  | U         | 1.80 | 5.00       | ug/L  |
| 105-67-9       | 2,4-Dimethylphenol          | 1.90  | U         | 1.90 | 5.00       | ug/L  |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 120-83-2       | 2,4-Dichlorophenol          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 91-20-3        | Naphthalene                 | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 106-47-8       | 4-Chloroaniline             | 0.84  | U         | 0.84 | 5.00       | ug/L  |
| 87-68-3        | Hexachlorobutadiene         | 0.54  | U         | 0.54 | 5.00       | ug/L  |
| 105-60-2       | Caprolactam                 | 1.10  | U         | 1.10 | 10.0       | ug/L  |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.59  | U         | 0.59 | 5.00       | ug/L  |
| 91-57-6        | 2-Methylnaphthalene         | 0.56  | U         | 0.56 | 5.00       | ug/L  |
| 77-47-4        | Hexachlorocyclopentadiene   | 3.60  | U         | 3.60 | 10.0       | ug/L  |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.51  | U         | 0.51 | 5.00       | ug/L  |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.62  | U         | 0.62 | 5.00       | ug/L  |
| 92-52-4        | 1,1-Biphenyl                | 0.53  | U         | 0.53 | 5.00       | ug/L  |
| 91-58-7        | 2-Chloronaphthalene         | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 88-74-4        | 2-Nitroaniline              | 1.30  | U         | 1.30 | 5.00       | ug/L  |
| 131-11-3       | Dimethylphthalate           | 0.61  | U         | 0.61 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: |          |
| Project:           | RFP 905                | Date Received:  |          |
| Client Sample ID:  | PB167393BL             | SDG No.:        | Q1664    |
| Lab Sample ID:     | PB167393BL             | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064171.D        | 1         | 03/31/25 11:00 | 04/03/25 17:56 | PB167393      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|------------|----------------------------|-------|-----------|------|------------|-------|
| 208-96-8   | Acenaphthylene             | 0.75  | U         | 0.75 | 5.00       | ug/L  |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.92  | U         | 0.92 | 5.00       | ug/L  |
| 99-09-2    | 3-Nitroaniline             | 1.10  | U         | 1.10 | 5.00       | ug/L  |
| 83-32-9    | Acenaphthene               | 0.55  | U         | 0.55 | 5.00       | ug/L  |
| 51-28-5    | 2,4-Dinitrophenol          | 6.00  | U         | 6.00 | 10.0       | ug/L  |
| 100-02-7   | 4-Nitrophenol              | 2.40  | U         | 2.40 | 10.0       | ug/L  |
| 132-64-9   | Dibenzofuran               | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 121-14-2   | 2,4-Dinitrotoluene         | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 84-66-2    | Diethylphthalate           | 0.69  | U         | 0.69 | 5.00       | ug/L  |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.68  | U         | 0.68 | 5.00       | ug/L  |
| 86-73-7    | Fluorene                   | 0.63  | U         | 0.63 | 5.00       | ug/L  |
| 100-01-6   | 4-Nitroaniline             | 1.50  | U         | 1.50 | 5.00       | ug/L  |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 2.90  | U         | 2.90 | 10.0       | ug/L  |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.58  | U         | 0.58 | 5.00       | ug/L  |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.40  | U         | 0.40 | 5.00       | ug/L  |
| 118-74-1   | Hexachlorobenzene          | 0.52  | U         | 0.52 | 5.00       | ug/L  |
| 1912-24-9  | Atrazine                   | 1.00  | U         | 1.00 | 5.00       | ug/L  |
| 87-86-5    | Pentachlorophenol          | 1.60  | U         | 1.60 | 10.0       | ug/L  |
| 85-01-8    | Phenanthrene               | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 120-12-7   | Anthracene                 | 0.61  | U         | 0.61 | 5.00       | ug/L  |
| 86-74-8    | Carbazole                  | 0.72  | U         | 0.72 | 5.00       | ug/L  |
| 84-74-2    | Di-n-butylphthalate        | 1.20  | U         | 1.20 | 5.00       | ug/L  |
| 206-44-0   | Fluoranthene               | 0.82  | U         | 0.82 | 5.00       | ug/L  |
| 129-00-0   | Pyrene                     | 0.50  | U         | 0.50 | 5.00       | ug/L  |
| 85-68-7    | Butylbenzylphthalate       | 1.90  | U         | 1.90 | 5.00       | ug/L  |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.93  | U         | 0.93 | 10.0       | ug/L  |
| 56-55-3    | Benzo(a)anthracene         | 0.45  | U         | 0.45 | 5.00       | ug/L  |
| 218-01-9   | Chrysene                   | 0.44  | U         | 0.44 | 5.00       | ug/L  |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 1.60  | U         | 1.60 | 5.00       | ug/L  |
| 117-84-0   | Di-n-octyl phthalate       | 2.30  | U         | 2.30 | 10.0       | ug/L  |
| 205-99-2   | Benzo(b)fluoranthene       | 0.49  | U         | 0.49 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: |          |
| Project:           | RFP 905                | Date Received:  |          |
| Client Sample ID:  | PB167393BL             | SDG No.:        | Q1664    |
| Lab Sample ID:     | PB167393BL             | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064171.D        | 1         | 03/31/25 11:00 | 04/03/25 17:56 | PB167393      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|----------------------------|--------|-----------|----------|------------|----------|
| 207-08-9                  | Benzo(k)fluoranthene       | 0.48   | U         | 0.48     | 5.00       | ug/L     |
| 50-32-8                   | Benzo(a)pyrene             | 0.55   | U         | 0.55     | 5.00       | ug/L     |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 0.59   | U         | 0.59     | 5.00       | ug/L     |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 0.67   | U         | 0.67     | 5.00       | ug/L     |
| 191-24-2                  | Benzo(g,h,i)perylene       | 0.69   | U         | 0.69     | 5.00       | ug/L     |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 0.52   | U         | 0.52     | 5.00       | ug/L     |
| 123-91-1                  | 1,4-Dioxane                | 1.00   | U         | 1.00     | 5.00       | ug/L     |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 0.72   | U         | 0.72     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                            |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol             | 138    |           | 10 - 139 | 92%        | SPK: 150 |
| 13127-88-3                | Phenol-d6                  | 139    |           | 10 - 134 | 93%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5            | 98.8   |           | 49 - 133 | 99%        | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl           | 85.7   |           | 52 - 132 | 86%        | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol       | 164    |           | 44 - 137 | 109%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14              | 91.8   |           | 48 - 125 | 92%        | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 25700  | 7.862     |          |            |          |
| 1146-65-2                 | Naphthalene-d8             | 119000 | 10.646    |          |            |          |
| 15067-26-2                | Acenaphthene-d10           | 97300  | 14.483    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10           | 235000 | 17.221    |          |            |          |
| 1719-03-5                 | Chrysene-d12               | 246000 | 21.451    |          |            |          |
| 1520-96-3                 | Perylene-d12               | 259000 | 24.466    |          |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
Data File : BG064171.D  
Acq On : 3 Apr 2025 17:56  
Operator : RC/JU  
Sample : PB167393BL  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BL

Quant Time: Apr 04 01:44:57 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.862  | 152  | 25692    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.646 | 136  | 118561   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.483 | 164  | 97336    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.221 | 188  | 234504   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.451 | 240  | 246421   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 24.466 | 264  | 258720   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.447  | 112  | 226578   | 137.704 | ng    | 0.00     |
| 7) Phenol-d6                | 7.027  | 99   | 311166   | 139.014 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.007  | 82   | 211883   | 98.760  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.970 | 330  | 177238   | 163.812 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.108 | 172  | 549402   | 85.675  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.847 | 244  | 1118423  | 91.772  | ng    | 0.00     |

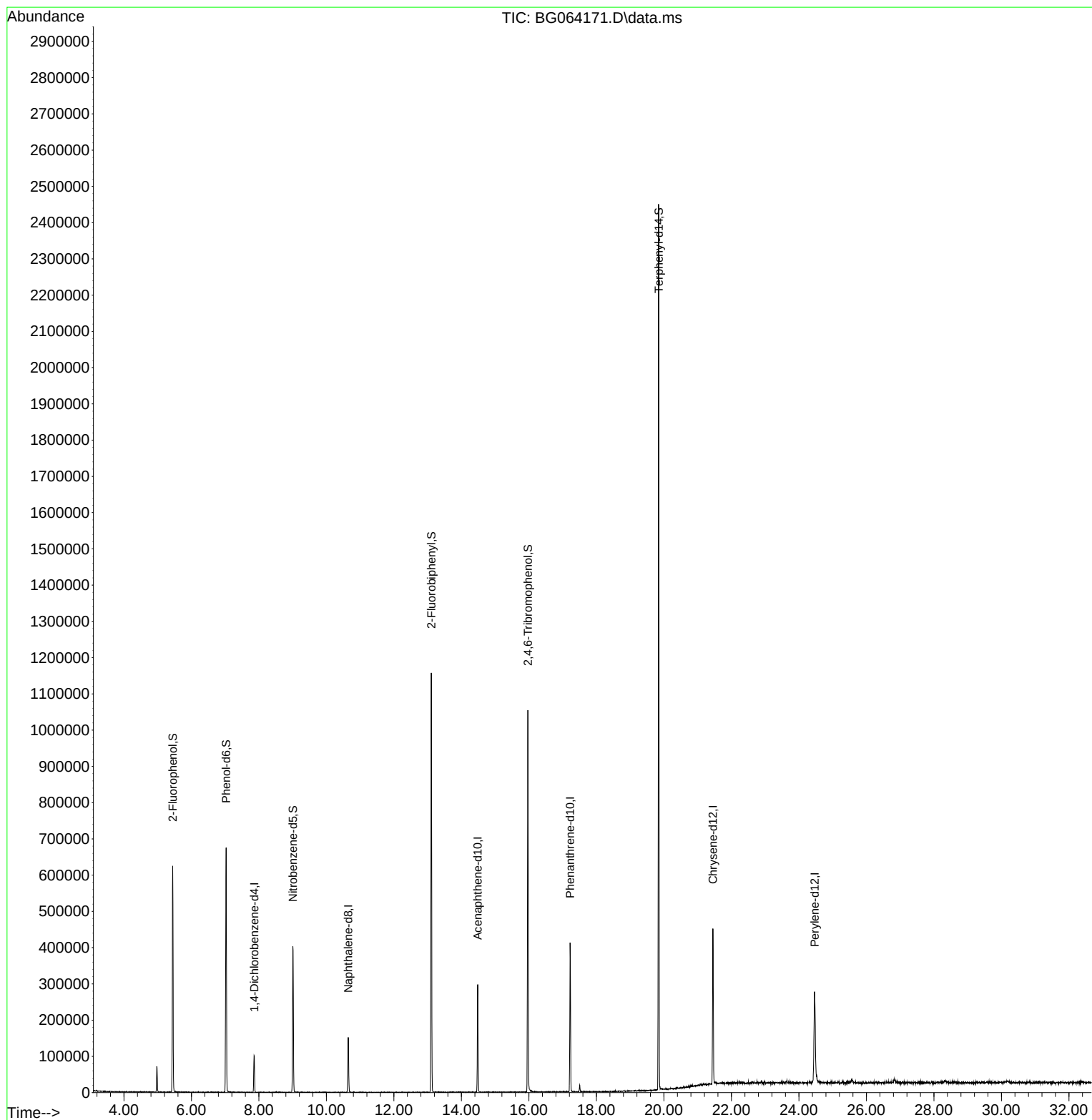
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

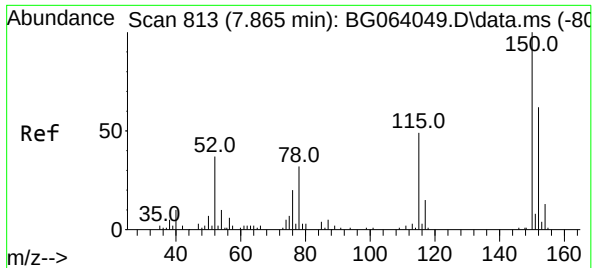
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BG064171.D  
Acq On : 3 Apr 2025 17:56  
Operator : RC/JU  
Sample : PB167393BL  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BL

Quant Time: Apr 04 01:44:57 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration

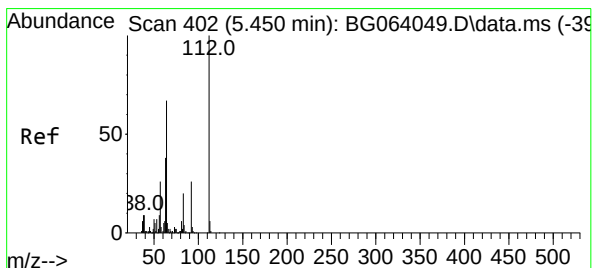
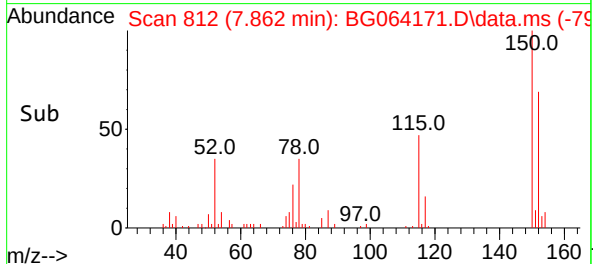
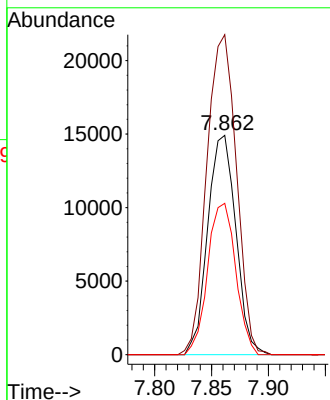
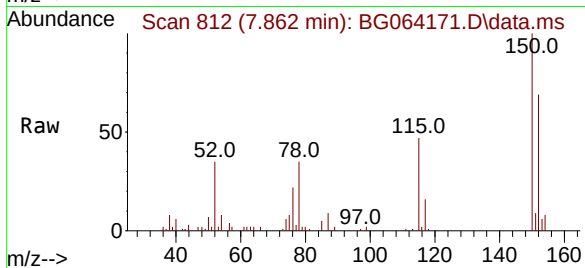




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.862 min Scan# 813  
Delta R.T. -0.003 min  
Lab File: BG064171.D  
Acq: 3 Apr 2025 17:56

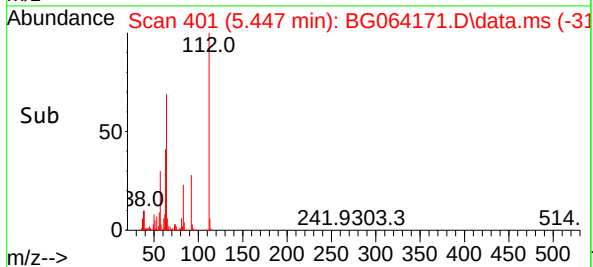
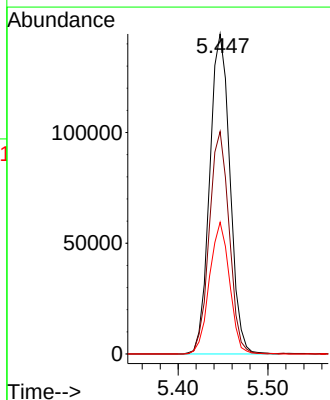
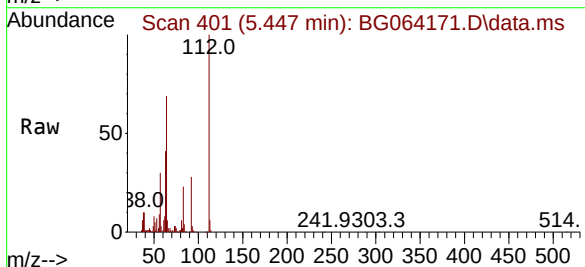
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BL

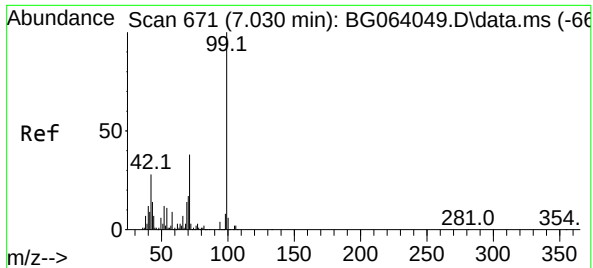
Tgt Ion:152 Resp: 25692  
Ion Ratio Lower Upper  
152 100  
150 145.9 129.2 193.8  
115 69.0 63.0 94.6



#5  
2-Fluorophenol  
Concen: 137.704 ng  
RT: 5.447 min Scan# 401  
Delta R.T. -0.003 min  
Lab File: BG064171.D  
Acq: 3 Apr 2025 17:56

Tgt Ion:112 Resp: 226578  
Ion Ratio Lower Upper  
112 100  
64 69.5 53.7 80.5  
63 41.1 30.2 45.4

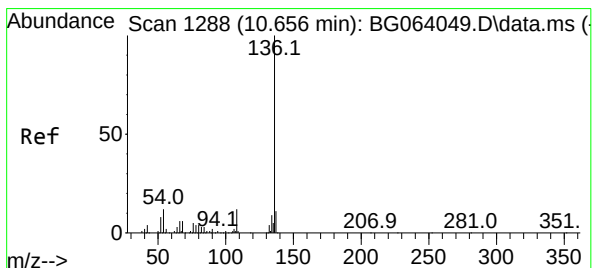
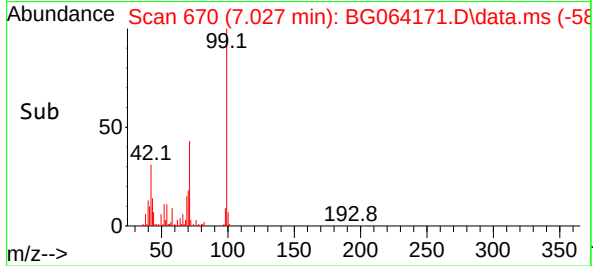
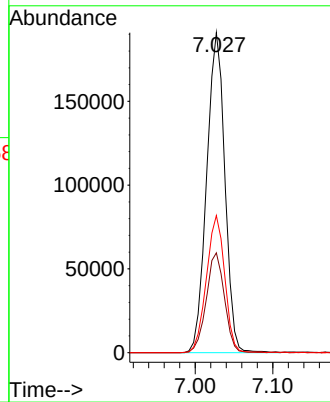
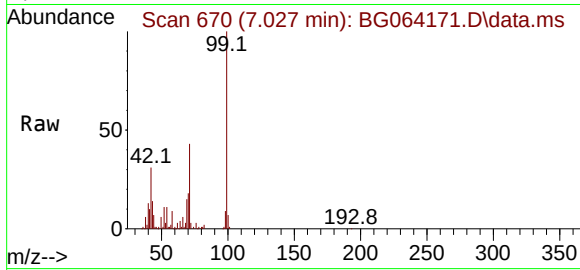




#7  
Phenol-d6  
Concen: 139.014 ng  
RT: 7.027 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: BG064171.D  
Acq: 3 Apr 2025 17:56

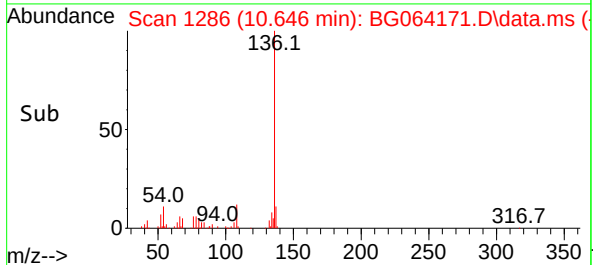
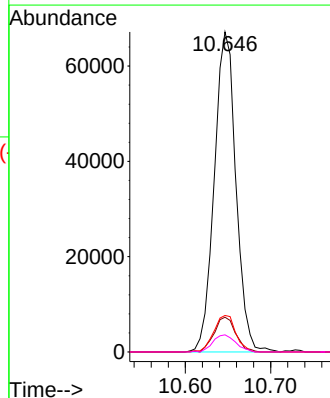
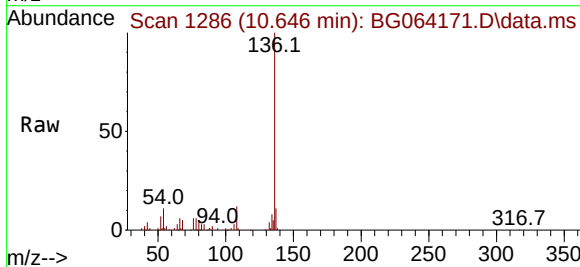
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BL

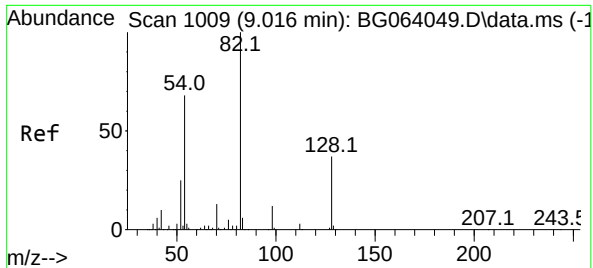
Tgt Ion: 99 Resp: 311166  
Ion Ratio Lower Upper  
99 100  
42 31.2 22.7 34.1  
71 42.8 30.6 46.0



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.646 min Scan# 1286  
Delta R.T. -0.010 min  
Lab File: BG064171.D  
Acq: 3 Apr 2025 17:56

Tgt Ion: 136 Resp: 118561  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.5 12.7  
54 11.4 9.9 14.9  
68 5.3 4.6 6.8





#23

Nitrobenzene-d5

Concen: 98.760 ng

RT: 9.007 min Scan# 1007

Delta R.T. -0.009 min

Lab File: BG064171.D

Acq: 3 Apr 2025 17:56

Instrument :

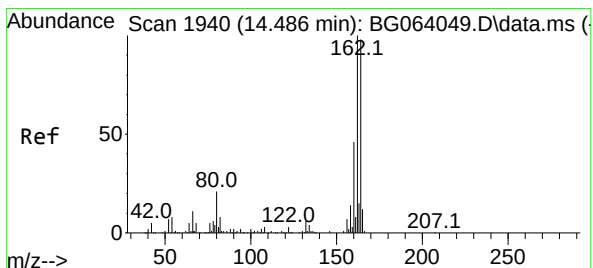
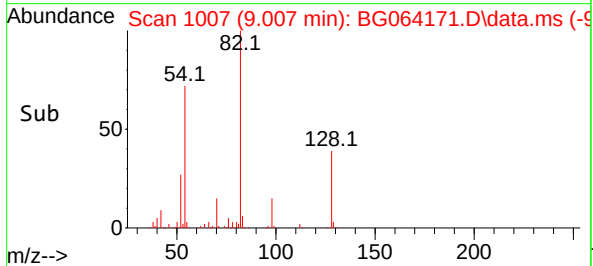
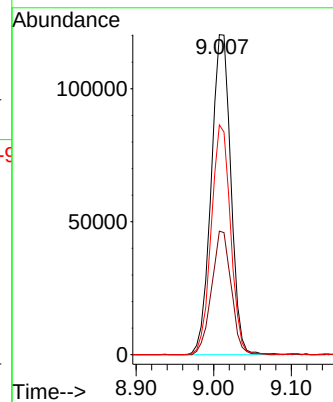
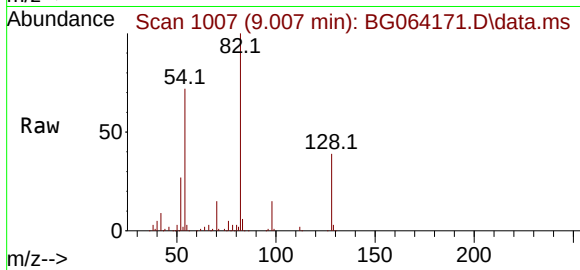
BNA\_G

ClientSampleId :

PB167393BL

Tgt Ion: 82 Resp: 211883

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 38.6  | 30.0  | 45.0  |
| 54  | 71.8  | 54.7  | 82.1  |



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.483 min Scan# 1939

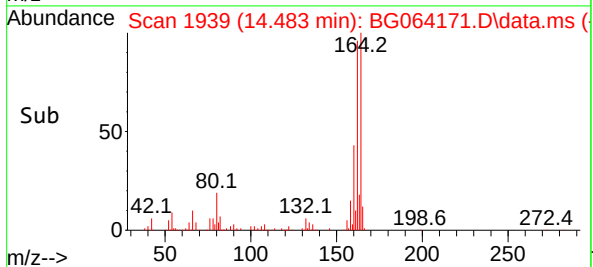
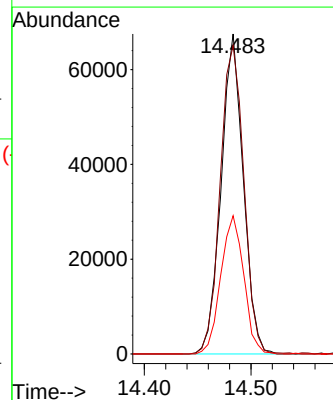
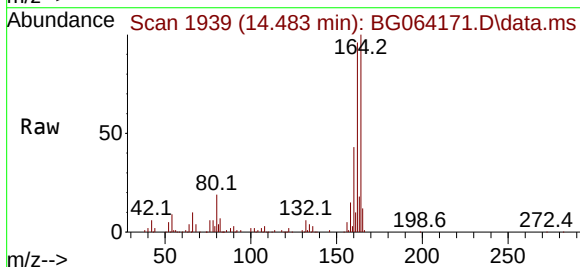
Delta R.T. -0.003 min

Lab File: BG064171.D

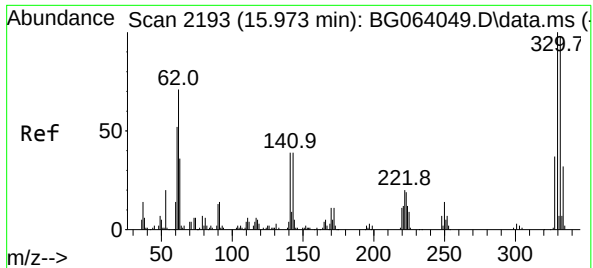
Acq: 3 Apr 2025 17:56

Tgt Ion: 164 Resp: 97336

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 96.4  | 81.4  | 122.0 |
| 160 | 43.2  | 37.0  | 55.6  |

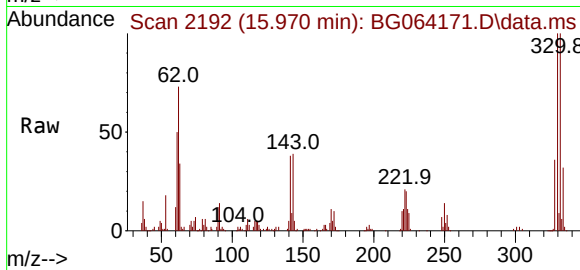




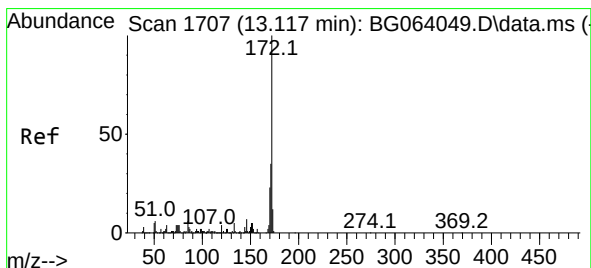
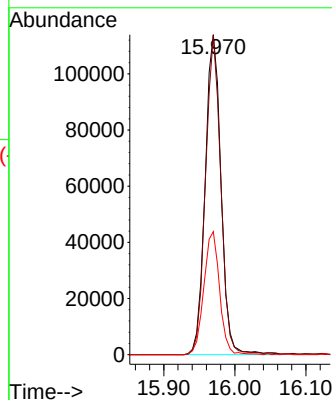
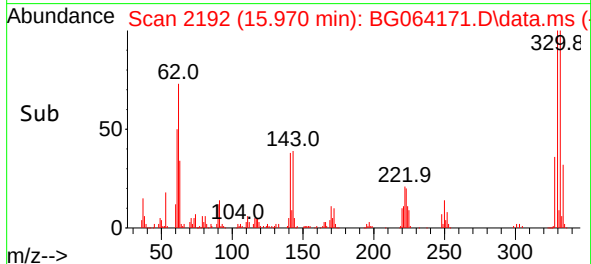


#42  
2,4,6-Tribromophenol  
Concen: 163.812 ng  
RT: 15.970 min Scan# 2193  
Delta R.T. -0.003 min  
Lab File: BG064171.D  
Acq: 3 Apr 2025 17:56

Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BL

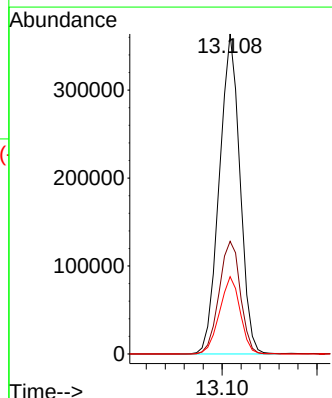
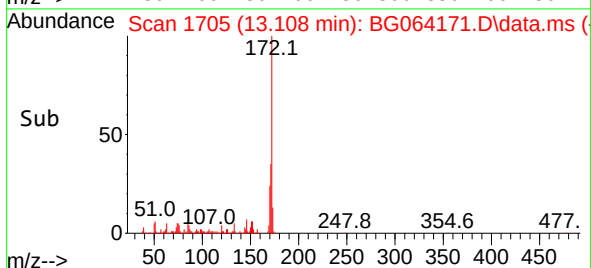
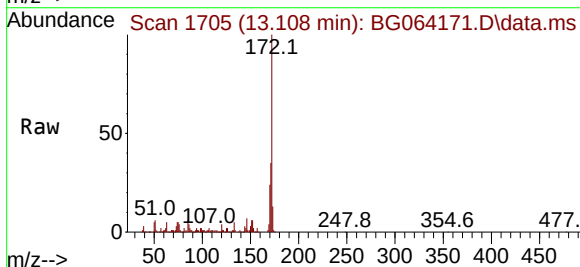


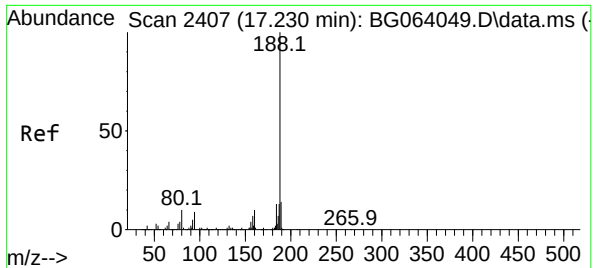
Tgt Ion:330 Resp: 177238  
Ion Ratio Lower Upper  
330 100  
332 95.9 76.7 115.1  
141 38.2 29.7 44.5



#45  
2-Fluorobiphenyl  
Concen: 85.675 ng  
RT: 13.108 min Scan# 1705  
Delta R.T. -0.009 min  
Lab File: BG064171.D  
Acq: 3 Apr 2025 17:56

Tgt Ion:172 Resp: 549402  
Ion Ratio Lower Upper  
172 100  
171 35.2 28.0 42.0  
170 24.2 18.7 28.1

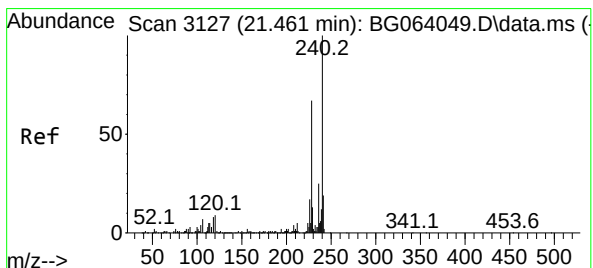
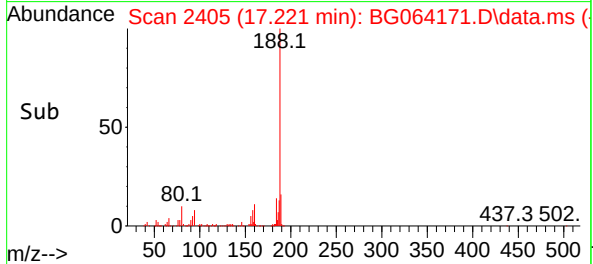
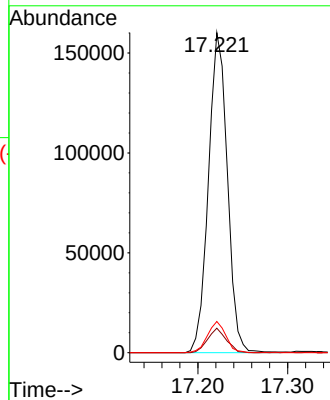
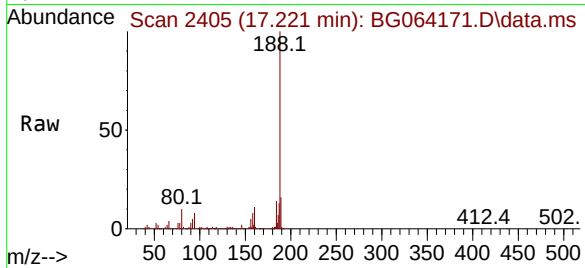




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.221 min Scan# 2405  
Delta R.T. -0.009 min  
Lab File: BG064171.D  
Acq: 3 Apr 2025 17:56

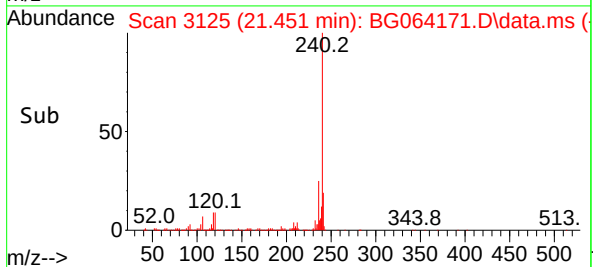
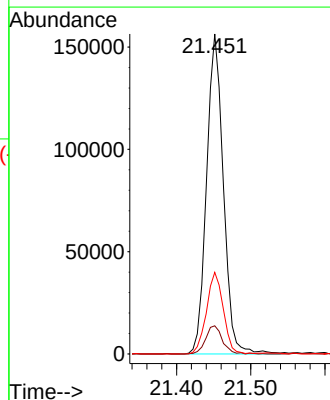
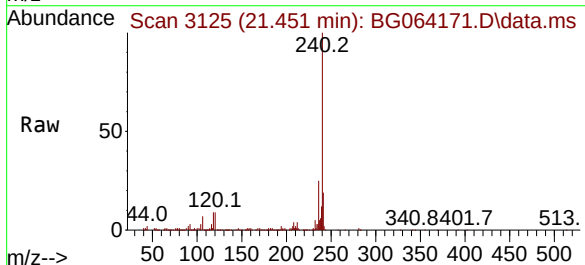
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BL

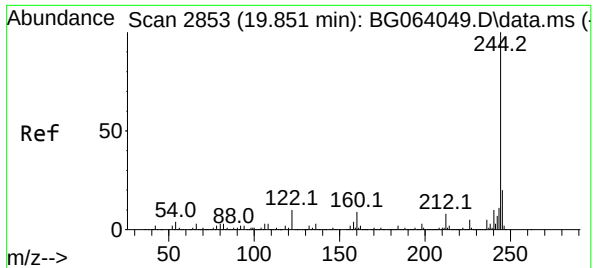
Tgt Ion:188 Resp: 234504  
Ion Ratio Lower Upper  
188 100  
94 7.7 6.9 10.3  
80 9.7 8.1 12.1



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.451 min Scan# 3125  
Delta R.T. -0.009 min  
Lab File: BG064171.D  
Acq: 3 Apr 2025 17:56

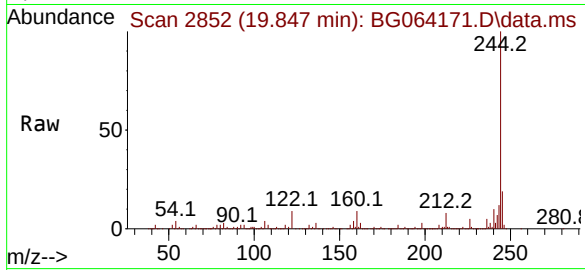
Tgt Ion:240 Resp: 246421  
Ion Ratio Lower Upper  
240 100  
120 8.8 7.2 10.8  
236 25.5 20.2 30.2



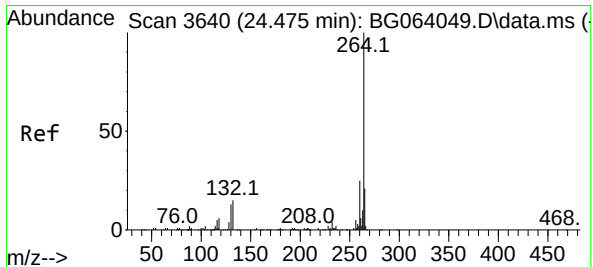
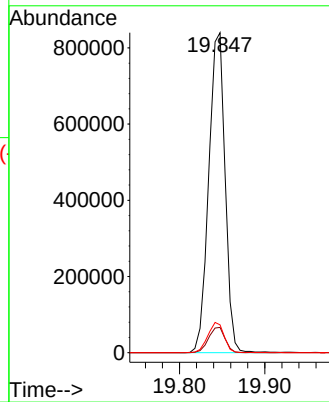
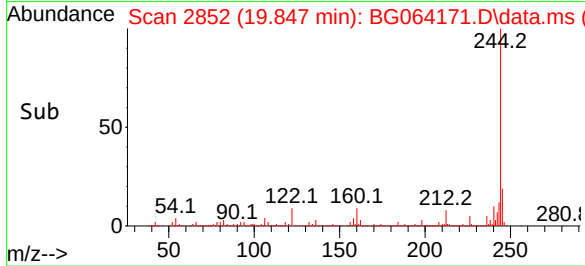


#79  
Terphenyl-d14  
Concen: 91.772 ng  
RT: 19.847 min Scan# 2852  
Delta R.T. -0.003 min  
Lab File: BG064171.D  
Acq: 3 Apr 2025 17:56

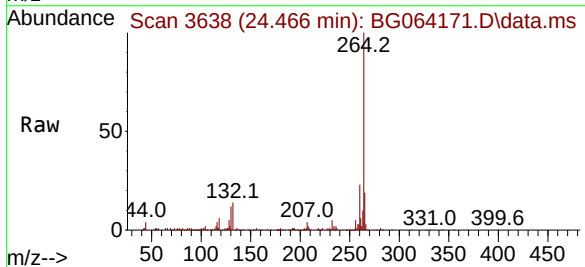
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BL



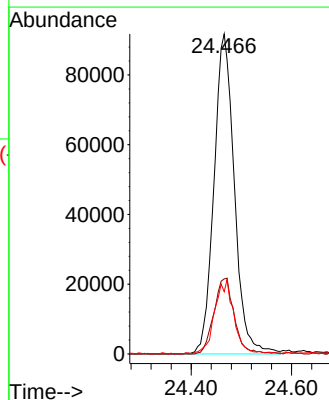
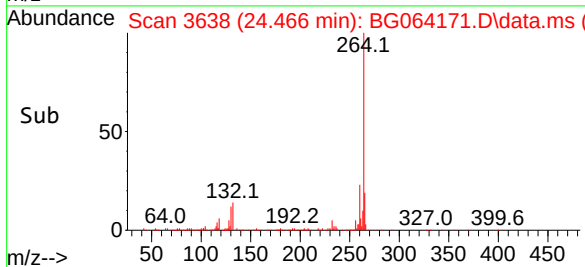
Tgt Ion:244 Resp: 1118423  
Ion Ratio Lower Upper  
244 100  
212 7.9 6.2 9.4  
122 8.7 8.0 12.0



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.466 min Scan# 3638  
Delta R.T. -0.009 min  
Lab File: BG064171.D  
Acq: 3 Apr 2025 17:56



Tgt Ion:264 Resp: 258720  
Ion Ratio Lower Upper  
264 100  
260 23.4 19.6 29.4  
265 19.5 16.6 25.0



## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: |          |
| Project:           | RFP 905                | Date Received:  |          |
| Client Sample ID:  | PB167393BS             | SDG No.:        | Q1664    |
| Lab Sample ID:     | PB167393BS             | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064173.D        | 1         | 03/31/25 11:00 | 04/03/25 19:17 | PB167393      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|-----------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                             |       |           |      |            |       |
| 100-52-7       | Benzaldehyde                | 44.2  |           | 3.90 | 10.0       | ug/L  |
| 108-95-2       | Phenol                      | 51.7  |           | 0.91 | 5.00       | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether     | 43.9  |           | 0.81 | 5.00       | ug/L  |
| 95-57-8        | 2-Chlorophenol              | 51.6  |           | 0.58 | 5.00       | ug/L  |
| 95-48-7        | 2-Methylphenol              | 53.6  |           | 1.10 | 5.00       | ug/L  |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 46.6  |           | 1.30 | 5.00       | ug/L  |
| 98-86-2        | Acetophenone                | 42.2  |           | 0.74 | 5.00       | ug/L  |
| 65794-96-9     | 3+4-Methylphenols           | 54.3  |           | 1.10 | 10.0       | ug/L  |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 47.6  |           | 1.40 | 2.50       | ug/L  |
| 67-72-1        | Hexachloroethane            | 52.8  |           | 0.65 | 5.00       | ug/L  |
| 98-95-3        | Nitrobenzene                | 48.0  |           | 0.76 | 5.00       | ug/L  |
| 78-59-1        | Isophorone                  | 46.4  |           | 0.75 | 5.00       | ug/L  |
| 88-75-5        | 2-Nitrophenol               | 58.8  |           | 1.80 | 5.00       | ug/L  |
| 105-67-9       | 2,4-Dimethylphenol          | 71.2  |           | 1.90 | 5.00       | ug/L  |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 44.9  |           | 0.68 | 5.00       | ug/L  |
| 120-83-2       | 2,4-Dichlorophenol          | 53.9  |           | 0.52 | 5.00       | ug/L  |
| 91-20-3        | Naphthalene                 | 44.0  |           | 0.50 | 5.00       | ug/L  |
| 106-47-8       | 4-Chloroaniline             | 11.0  |           | 0.84 | 5.00       | ug/L  |
| 87-68-3        | Hexachlorobutadiene         | 47.2  |           | 0.54 | 5.00       | ug/L  |
| 105-60-2       | Caprolactam                 | 54.6  |           | 1.10 | 10.0       | ug/L  |
| 59-50-7        | 4-Chloro-3-methylphenol     | 55.4  |           | 0.59 | 5.00       | ug/L  |
| 91-57-6        | 2-Methylnaphthalene         | 43.1  |           | 0.56 | 5.00       | ug/L  |
| 77-47-4        | Hexachlorocyclopentadiene   | 230   | E         | 3.60 | 10.0       | ug/L  |
| 88-06-2        | 2,4,6-Trichlorophenol       | 51.7  |           | 0.51 | 5.00       | ug/L  |
| 95-95-4        | 2,4,5-Trichlorophenol       | 53.5  |           | 0.62 | 5.00       | ug/L  |
| 92-52-4        | 1,1-Biphenyl                | 44.4  |           | 0.53 | 5.00       | ug/L  |
| 91-58-7        | 2-Chloronaphthalene         | 44.9  |           | 0.61 | 5.00       | ug/L  |
| 88-74-4        | 2-Nitroaniline              | 52.9  |           | 1.30 | 5.00       | ug/L  |
| 131-11-3       | Dimethylphthalate           | 47.5  |           | 0.61 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: |          |
| Project:           | RFP 905                | Date Received:  |          |
| Client Sample ID:  | PB167393BS             | SDG No.:        | Q1664    |
| Lab Sample ID:     | PB167393BS             | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064173.D        | 1         | 03/31/25 11:00 | 04/03/25 19:17 | PB167393      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|------------|----------------------------|-------|-----------|------|------------|-------|
| 208-96-8   | Acenaphthylene             | 49.4  |           | 0.75 | 5.00       | ug/L  |
| 606-20-2   | 2,6-Dinitrotoluene         | 49.7  |           | 0.92 | 5.00       | ug/L  |
| 99-09-2    | 3-Nitroaniline             | 20.6  |           | 1.10 | 5.00       | ug/L  |
| 83-32-9    | Acenaphthene               | 45.0  |           | 0.55 | 5.00       | ug/L  |
| 51-28-5    | 2,4-Dinitrophenol          | 140   | E         | 6.00 | 10.0       | ug/L  |
| 100-02-7   | 4-Nitrophenol              | 110   | E         | 2.40 | 10.0       | ug/L  |
| 132-64-9   | Dibenzofuran               | 44.1  |           | 0.61 | 5.00       | ug/L  |
| 121-14-2   | 2,4-Dinitrotoluene         | 54.2  |           | 1.20 | 5.00       | ug/L  |
| 84-66-2    | Diethylphthalate           | 48.4  |           | 0.69 | 5.00       | ug/L  |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 46.3  |           | 0.68 | 5.00       | ug/L  |
| 86-73-7    | Fluorene                   | 47.0  |           | 0.63 | 5.00       | ug/L  |
| 100-01-6   | 4-Nitroaniline             | 50.5  |           | 1.50 | 5.00       | ug/L  |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 66.5  |           | 2.90 | 10.0       | ug/L  |
| 86-30-6    | n-Nitrosodiphenylamine     | 48.6  |           | 0.58 | 5.00       | ug/L  |
| 101-55-3   | 4-Bromophenyl-phenylether  | 50.8  |           | 0.40 | 5.00       | ug/L  |
| 118-74-1   | Hexachlorobenzene          | 48.8  |           | 0.52 | 5.00       | ug/L  |
| 1912-24-9  | Atrazine                   | 67.3  |           | 1.00 | 5.00       | ug/L  |
| 87-86-5    | Pentachlorophenol          | 100   | E         | 1.60 | 10.0       | ug/L  |
| 85-01-8    | Phenanthrene               | 47.4  |           | 0.50 | 5.00       | ug/L  |
| 120-12-7   | Anthracene                 | 49.3  |           | 0.61 | 5.00       | ug/L  |
| 86-74-8    | Carbazole                  | 46.7  |           | 0.72 | 5.00       | ug/L  |
| 84-74-2    | Di-n-butylphthalate        | 49.4  |           | 1.20 | 5.00       | ug/L  |
| 206-44-0   | Fluoranthene               | 45.8  |           | 0.82 | 5.00       | ug/L  |
| 129-00-0   | Pyrene                     | 47.4  |           | 0.50 | 5.00       | ug/L  |
| 85-68-7    | Butylbenzylphthalate       | 53.8  |           | 1.90 | 5.00       | ug/L  |
| 91-94-1    | 3,3-Dichlorobenzidine      | 23.4  |           | 0.93 | 10.0       | ug/L  |
| 56-55-3    | Benzo(a)anthracene         | 48.1  |           | 0.45 | 5.00       | ug/L  |
| 218-01-9   | Chrysene                   | 45.7  |           | 0.44 | 5.00       | ug/L  |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 54.5  |           | 1.60 | 5.00       | ug/L  |
| 117-84-0   | Di-n-octyl phthalate       | 54.4  |           | 2.30 | 10.0       | ug/L  |
| 205-99-2   | Benzo(b)fluoranthene       | 47.7  |           | 0.49 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: |          |
| Project:           | RFP 905                | Date Received:  |          |
| Client Sample ID:  | PB167393BS             | SDG No.:        | Q1664    |
| Lab Sample ID:     | PB167393BS             | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064173.D        | 1         | 03/31/25 11:00 | 04/03/25 19:17 | PB167393      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|----------------------------|--------|-----------|----------|------------|----------|
| 207-08-9                  | Benzo(k)fluoranthene       | 45.3   |           | 0.48     | 5.00       | ug/L     |
| 50-32-8                   | Benzo(a)pyrene             | 51.0   |           | 0.55     | 5.00       | ug/L     |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 50.8   |           | 0.59     | 5.00       | ug/L     |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 51.0   |           | 0.67     | 5.00       | ug/L     |
| 191-24-2                  | Benzo(g,h,i)perylene       | 47.1   |           | 0.69     | 5.00       | ug/L     |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 43.3   |           | 0.52     | 5.00       | ug/L     |
| 123-91-1                  | 1,4-Dioxane                | 28.2   |           | 1.00     | 5.00       | ug/L     |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 55.5   |           | 0.72     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                            |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol             | 143    |           | 10 - 139 | 96%        | SPK: 150 |
| 13127-88-3                | Phenol-d6                  | 141    |           | 10 - 134 | 94%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5            | 97.8   |           | 49 - 133 | 98%        | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl           | 85.6   |           | 52 - 132 | 86%        | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol       | 171    |           | 44 - 137 | 114%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14              | 93.3   |           | 48 - 125 | 93%        | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 28300  |           | 7.858    |            |          |
| 1146-65-2                 | Naphthalene-d8             | 137000 |           | 10.649   |            |          |
| 15067-26-2                | Acenaphthene-d10           | 107000 |           | 14.48    |            |          |
| 1517-22-2                 | Phenanthrene-d10           | 249000 |           | 17.224   |            |          |
| 1719-03-5                 | Chrysene-d12               | 249000 |           | 21.454   |            |          |
| 1520-96-3                 | Perylene-d12               | 264000 |           | 24.468   |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
 Data File : BG064173.D  
 Acq On : 3 Apr 2025 19:17  
 Operator : RC/JU  
 Sample : PB167393BS  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

## Instrument :

BNA\_G

## ClientSampleId :

PB167393BS

## Manual Integrations

## APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025

Quant Time: Apr 04 01:45:53 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 05 15:39:19 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.858  | 152  | 28326    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.649 | 136  | 137392   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.480 | 164  | 107393   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.224 | 188  | 248813   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.454 | 240  | 248832   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 24.468 | 264  | 264036   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.450  | 112  | 260103   | 143.379 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.030  | 99   | 347089   | 140.643 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.010  | 82   | 243149   | 97.800  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.972 | 330  | 204481   | 171.293 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.111 | 172  | 605724   | 85.612  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.844 | 244  | 1147666  | 93.259  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.358  | 88   | 23146    | 28.153  | ng    | 95       |
| 3) Pyridine                   | 3.746  | 79   | 69029    | 34.524  | ng    | 94       |
| 4) n-Nitrosodimethylamine     | 3.663  | 42   | 58435    | 40.905  | ng    | 94       |
| 6) Aniline                    | 7.183  | 93   | 84082    | 34.721  | ng    | 99       |
| 8) 2-Chlorophenol             | 7.424  | 128  | 100517   | 51.591  | ng    | 95       |
| 9) Benzaldehyde               | 6.995  | 77   | 63458    | 44.213  | ng    | 97       |
| 10) Phenol                    | 7.054  | 94   | 130559   | 51.672  | ng    | 97       |
| 11) bis(2-Chloroethyl)ether   | 7.283  | 93   | 86962    | 43.900  | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 7.753  | 146  | 97597    | 45.616  | ng    | 95       |
| 13) 1,4-Dichlorobenzene       | 7.894  | 146  | 99360    | 45.307  | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 8.211  | 146  | 99453    | 47.030  | ng    | 97       |
| 15) Benzyl Alcohol            | 8.093  | 79   | 103300   | 54.167  | ng    | 96       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.387  | 45   | 207476   | 46.580  | ng    | 99       |
| 17) 2-Methylphenol            | 8.299  | 107  | 89909    | 53.615  | ng    | 98       |
| 18) Hexachloroethane          | 8.940  | 117  | 40527    | 52.819  | ng    | 94       |
| 19) n-Nitroso-di-n-propyla... | 8.663  | 70   | 82417    | 47.586  | ng    | 97       |
| 20) 3+4-Methylphenols         | 8.628  | 107  | 125453   | 54.340  | ng    | 95       |
| 22) Acetophenone              | 8.675  | 105  | 159135   | 42.244  | ng    | # 96     |
| 24) Nitrobenzene              | 9.051  | 77   | 123254   | 47.970  | ng    | 99       |
| 25) Isophorone                | 9.574  | 82   | 230706   | 46.361  | ng    | 95       |
| 26) 2-Nitrophenol             | 9.762  | 139  | 54963    | 58.817  | ng    | # 93     |
| 27) 2,4-Dimethylphenol        | 9.827  | 122  | 106232   | 71.211  | ng    | 95       |
| 28) bis(2-Chloroethoxy)met... | 10.062 | 93   | 135542   | 44.926  | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 10.297 | 162  | 101564   | 53.917  | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 10.508 | 180  | 103648   | 45.580  | ng    | 98       |
| 31) Naphthalene               | 10.696 | 128  | 325687   | 43.961  | ng    | 99       |
| 32) Benzoic acid              | 9.968  | 122  | 75930m   | 54.083  | ng    |          |
| 33) 4-Chloroaniline           | 10.802 | 127  | 29877    | 11.034  | ng    | # 89     |
| 34) Hexachlorobutadiene       | 10.990 | 225  | 70355    | 47.202  | ng    | 96       |
| 35) Caprolactam               | 11.578 | 113  | 39436m   | 54.631  | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 11.930 | 107  | 136856   | 55.426  | ng    | 99       |
| 37) 2-Methylnaphthalene       | 12.306 | 142  | 225381   | 43.093  | ng    | 97       |
| 38) 1-Methylnaphthalene       | 12.524 | 142  | 243729   | 47.566  | ng    | 97       |
| 40) 1,2,4,5-Tetrachloroben... | 12.676 | 216  | 132670   | 43.271  | ng    | # 97     |
| 41) Hexachlorocyclopentadiene | 12.659 | 237  | 194898   | 225.856 | ng    | 95       |
| 43) 2,4,6-Trichlorophenol     | 12.917 | 196  | 93345    | 51.657  | ng    | 92       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040325\  
 Data File : BG064173.D  
 Acq On : 3 Apr 2025 19:17  
 Operator : RC/JU  
 Sample : PB167393BS  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB167393BS

Quant Time: Apr 04 01:45:53 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

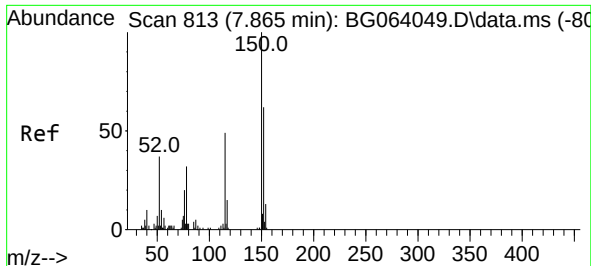
Reviewed By :Rahul Chavli 04/04/2025  
 Supervised By :Jagrut Upadhyay 04/04/2025

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.988 | 196  | 107368   | 53.475  | ng    | 97       |
| 46) 1,1'-Biphenyl             | 13.323 | 154  | 360456   | 44.426  | ng    | 95       |
| 47) 2-Chloronaphthalene       | 13.358 | 162  | 265674   | 44.896  | ng    | 97       |
| 48) 2-Nitroaniline            | 13.558 | 65   | 106132   | 52.905  | ng    | 96       |
| 49) Acenaphthylene            | 14.204 | 152  | 462687   | 49.433  | ng    | 99       |
| 50) Dimethylphthalate         | 13.945 | 163  | 376489   | 47.492  | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 14.057 | 165  | 80098    | 49.677  | ng    | 94       |
| 52) Acenaphthene              | 14.551 | 154  | 282611   | 44.991  | ng    | 94       |
| 53) 3-Nitroaniline            | 14.380 | 138  | 31565    | 20.602  | ng    | 91       |
| 54) 2,4-Dinitrophenol         | 14.592 | 184  | 100093   | 142.446 | ng    | # 72     |
| 55) Dibenzofuran              | 14.886 | 168  | 448500   | 44.074  | ng    | 98       |
| 56) 4-Nitrophenol             | 14.698 | 139  | 144648   | 112.568 | ng    | 87       |
| 57) 2,4-Dinitrotoluene        | 14.844 | 165  | 121433   | 54.211  | ng    | # 94     |
| 58) Fluorene                  | 15.532 | 166  | 372397   | 46.987  | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.109 | 232  | 108606   | 55.484  | ng    | 94       |
| 60) Diethylphthalate          | 15.309 | 149  | 416605   | 48.408  | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.526 | 204  | 182439   | 46.321  | ng    | # 88     |
| 62) 4-Nitroaniline            | 15.549 | 138  | 83572    | 50.522  | ng    | 90       |
| 63) Azobenzene                | 15.820 | 77   | 410884   | 44.742  | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 15.608 | 198  | 75522    | 66.467  | ng    | 98       |
| 66) n-Nitrosodiphenylamine    | 15.743 | 169  | 342099   | 48.573  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.419 | 248  | 129419   | 50.786  | ng    | 96       |
| 68) Hexachlorobenzene         | 16.537 | 284  | 139145   | 48.772  | ng    | 96       |
| 69) Atrazine                  | 16.695 | 200  | 139441   | 67.290  | ng    | 97       |
| 70) Pentachlorophenol         | 16.877 | 266  | 183831   | 103.779 | ng    | 97       |
| 71) Phenanthrene              | 17.271 | 178  | 629352   | 47.423  | ng    | 99       |
| 72) Anthracene                | 17.359 | 178  | 650102   | 49.264  | ng    | 99       |
| 73) Carbazole                 | 17.624 | 167  | 575340   | 46.696  | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.193 | 149  | 717070   | 49.443  | ng    | 99       |
| 75) Fluoranthene              | 19.275 | 202  | 732555   | 45.787  | ng    | 97       |
| 77) Benzidine                 | 19.457 | 184  | 173862   | 50.459  | ng    | 99       |
| 78) Pyrene                    | 19.639 | 202  | 759775   | 47.367  | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.538 | 149  | 326610   | 53.789  | ng    | 97       |
| 81) Benzo(a)anthracene        | 21.437 | 228  | 766772   | 48.105  | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.360 | 252  | 120638   | 23.386  | ng    | 98       |
| 83) Chrysene                  | 21.501 | 228  | 727012   | 45.731  | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 21.366 | 149  | 469749   | 54.493  | ng    | 100      |
| 85) Di-n-octyl phthalate      | 22.512 | 149  | 808712   | 54.390  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 27.870 | 276  | 898254   | 50.846  | ng    | # 96     |
| 88) Benzo(b)fluoranthene      | 23.522 | 252  | 761654   | 47.717  | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 23.581 | 252  | 725723   | 45.321  | ng    | 98       |
| 90) Benzo(a)pyrene            | 24.327 | 252  | 724310   | 50.952  | ng    | 97       |
| 91) Dibenzo(a,h)anthracene    | 27.929 | 278  | 747239   | 51.021  | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 28.922 | 276  | 708548   | 47.120  | ng    | 97       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

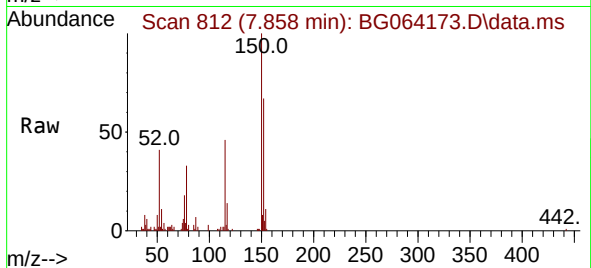






#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.858 min Scan# 81  
Delta R.T. -0.007 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

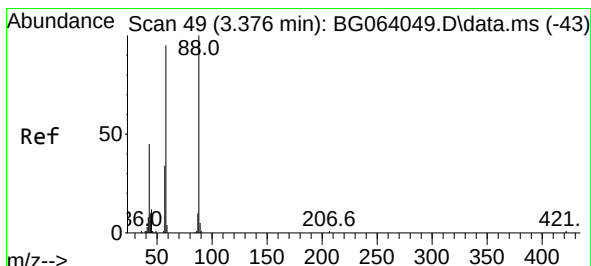
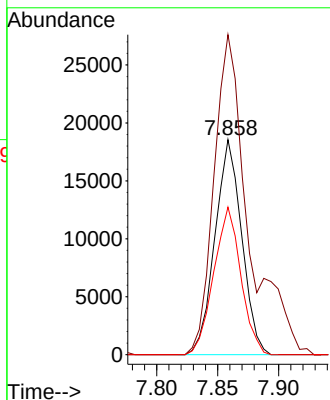
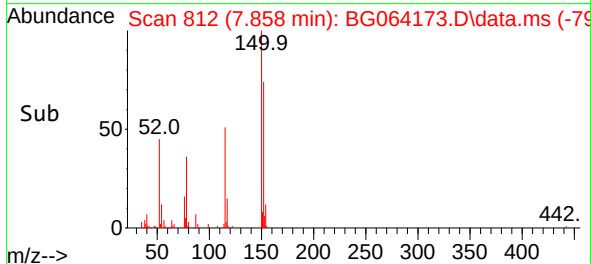
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



Tgt Ion:152 Resp: 28320  
Ion Ratio Lower Upper  
152 100  
150 148.8 129.2 193.8  
115 68.6 63.0 94.6

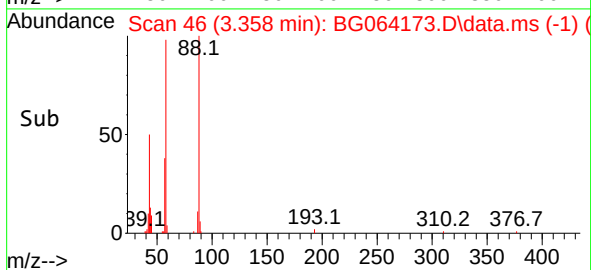
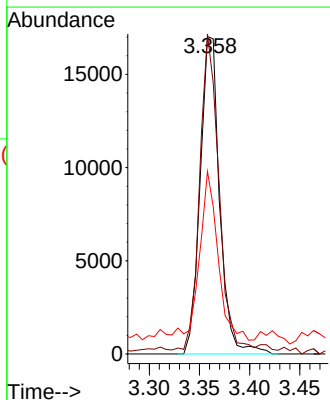
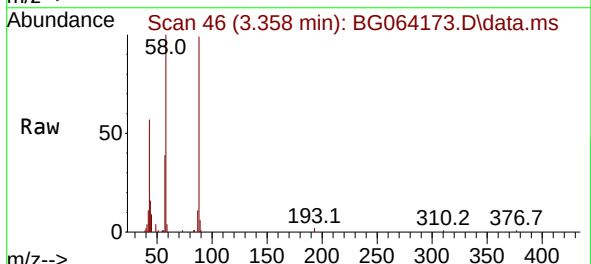
Manual Integrations  
APPROVED

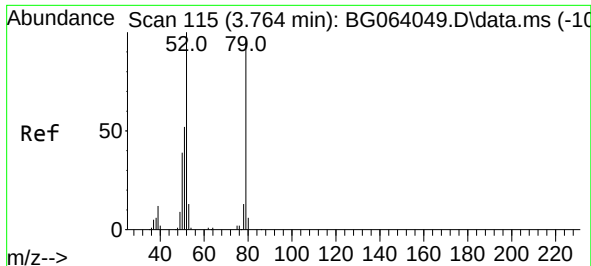
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#2  
1,4-Dioxane  
Concen: 28.153 ng  
RT: 3.358 min Scan# 46  
Delta R.T. -0.018 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

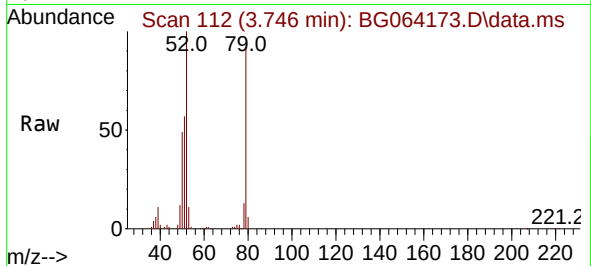
Tgt Ion: 88 Resp: 23146  
Ion Ratio Lower Upper  
88 100  
58 96.0 74.6 111.8  
43 50.0 35.5 53.3





#3  
Pyridine  
Concen: 34.524 ng  
RT: 3.746 min Scan# 115  
Delta R.T. -0.018 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

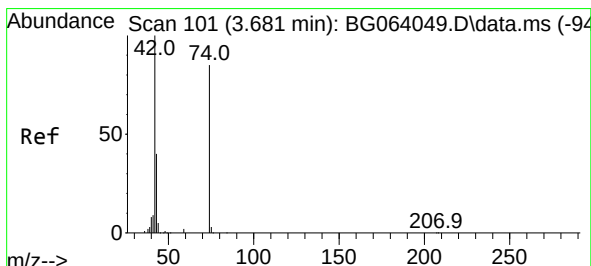
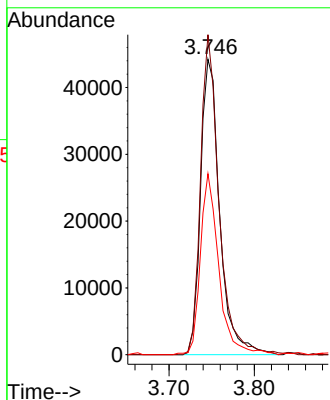
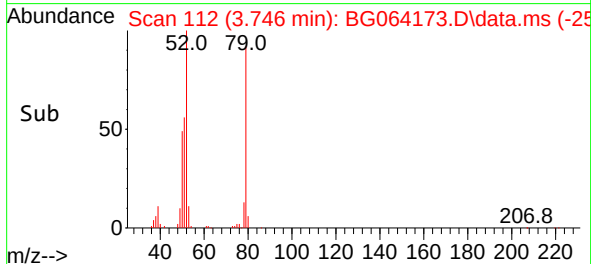
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



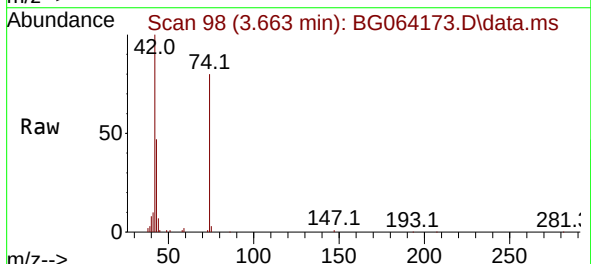
Tgt Ion: 79 Resp: 69029  
Ion Ratio Lower Upper  
79 100  
52 108.3 83.0 124.6  
51 61.2 44.3 66.5

Manual Integrations  
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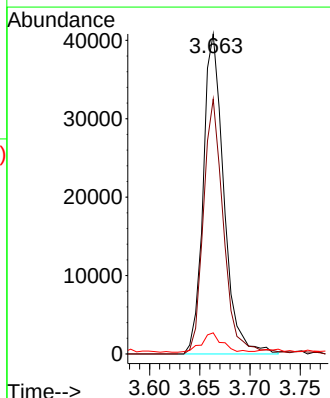
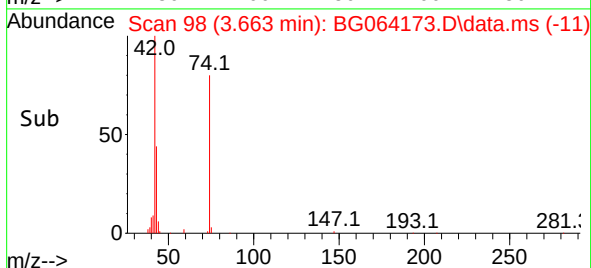
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

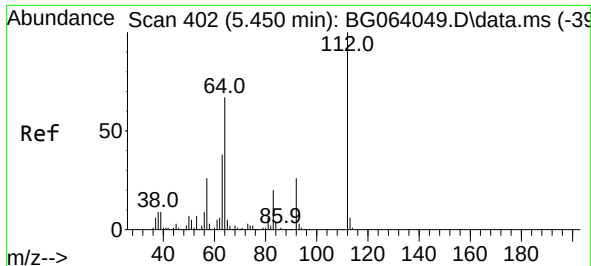


#4  
n-Nitrosodimethylamine  
Concen: 40.905 ng  
RT: 3.663 min Scan# 98  
Delta R.T. -0.018 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17



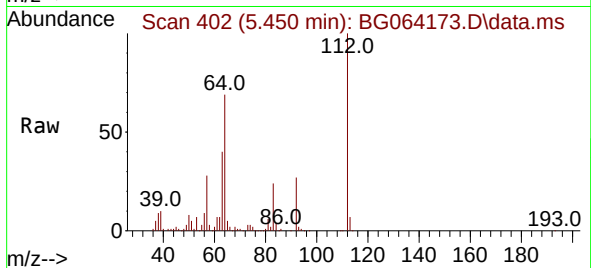
Tgt Ion: 42 Resp: 58435  
Ion Ratio Lower Upper  
42 100  
74 79.6 68.0 102.0  
44 6.6 4.9 7.3





#5  
2-Fluorophenol  
Concen: 143.379 ng  
RT: 5.450 min Scan# 402  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

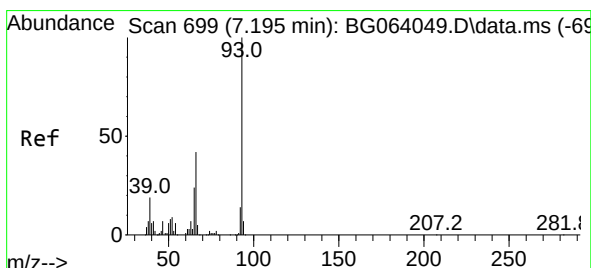
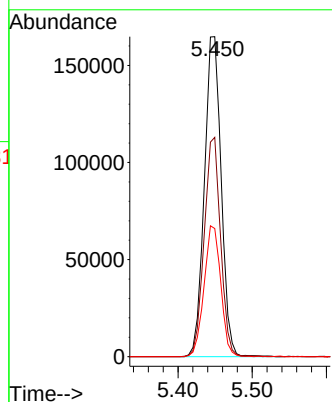
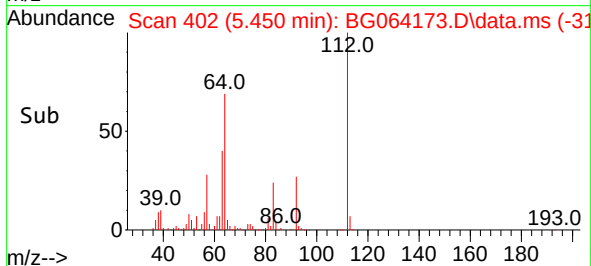
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



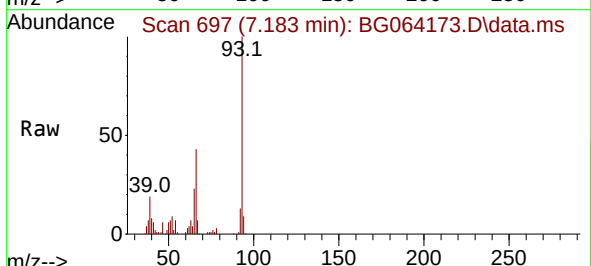
Tgt Ion:112 Resp: 26010  
Ion Ratio Lower Upper  
112 100  
64 68.5 53.7 80.5  
63 40.1 30.2 45.4

Manual Integrations  
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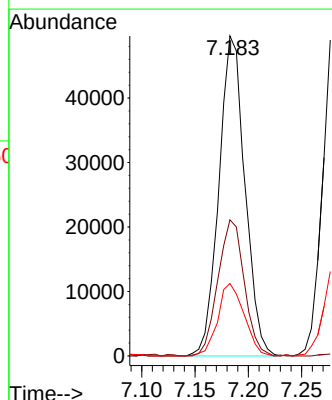
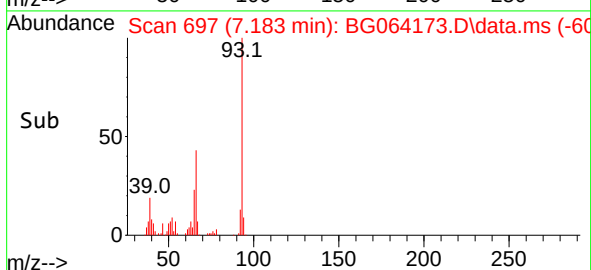
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

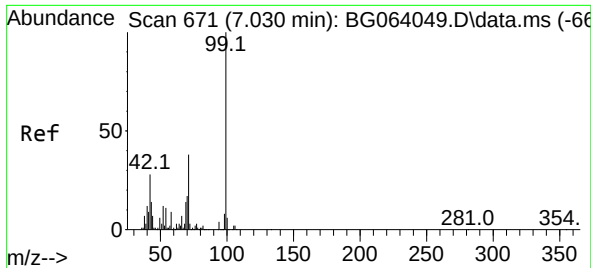


#6  
Aniline  
Concen: 34.721 ng  
RT: 7.183 min Scan# 697  
Delta R.T. -0.012 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17



Tgt Ion: 93 Resp: 84082  
Ion Ratio Lower Upper  
93 100  
66 42.6 33.7 50.5  
65 22.6 19.1 28.7





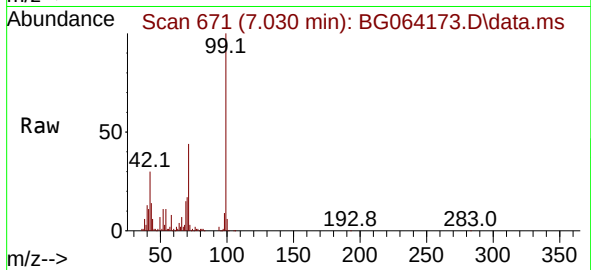
#7  
Phenol-d6  
Concen: 140.643 ng  
RT: 7.030 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS



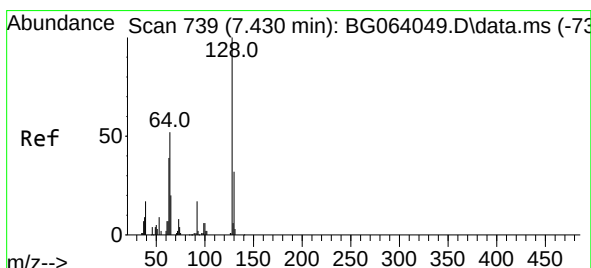
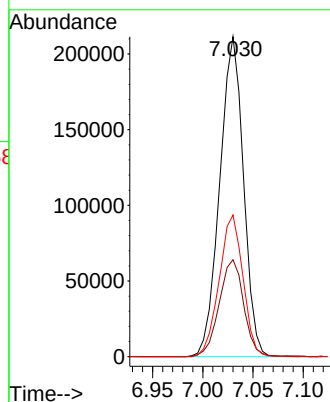
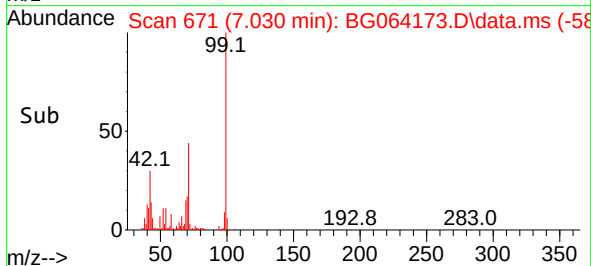
Tgt Ion: 99 Resp: 347089  
Ion Ratio Lower Upper  
99 100  
42 30.3 22.7 34.1  
71 44.3 30.6 46.0

Manual Integrations

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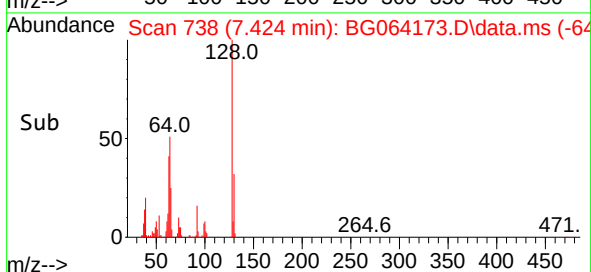
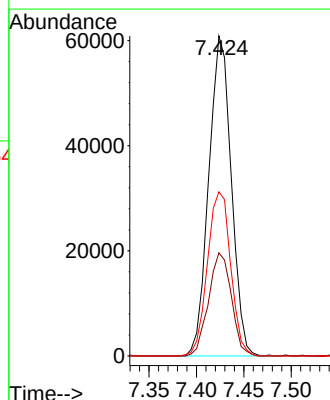
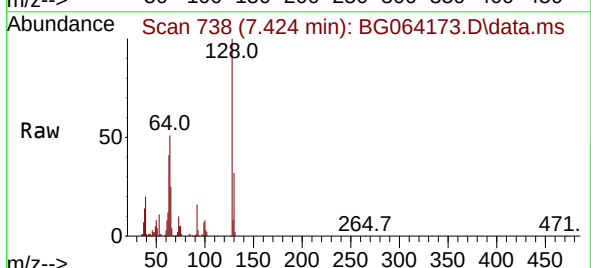
Reviewed By :Rahul Chavli 04/04/2025

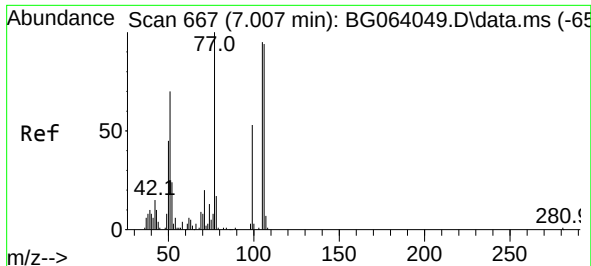
Supervised By :Jagrut Upadhyay 04/04/2025



#8  
2-Chlorophenol  
Concen: 51.591 ng  
RT: 7.424 min Scan# 738  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Tgt Ion:128 Resp: 100517  
Ion Ratio Lower Upper  
128 100  
130 32.2 12.3 52.3  
64 51.3 37.0 77.0





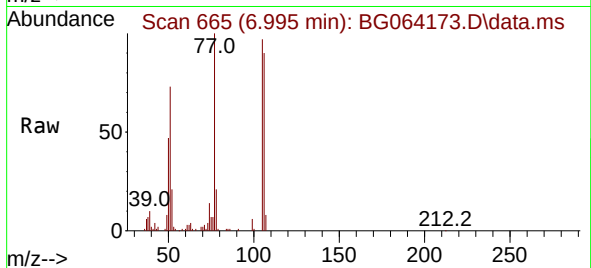
#9  
Benzaldehyde  
Concen: 44.213 ng  
RT: 6.995 min Scan# 665  
Delta R.T. -0.012 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS



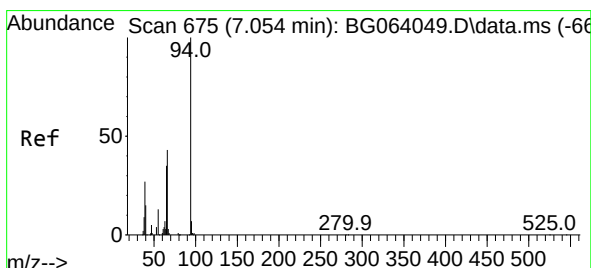
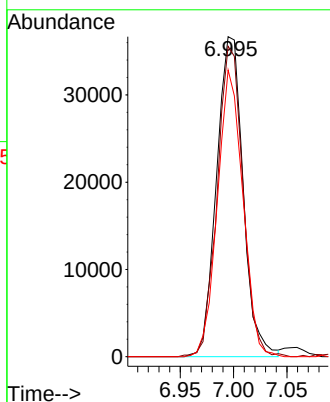
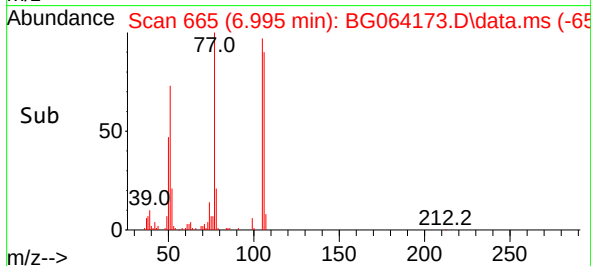
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Ion Ratio Lower Upper  
77 100  
105 97.0 75.5 115.5  
106 89.6 74.2 114.2

Manual Integrations

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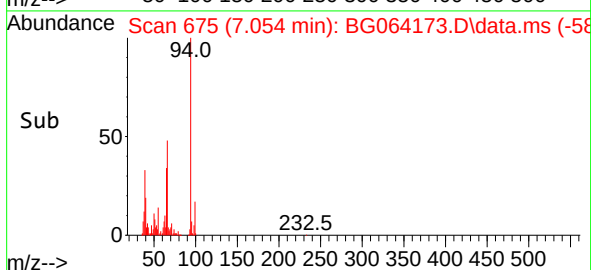
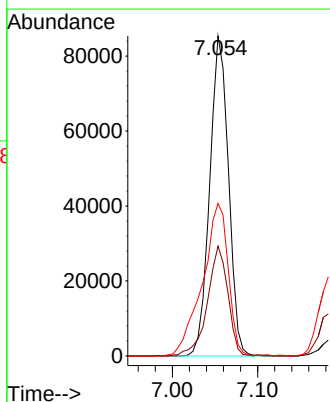
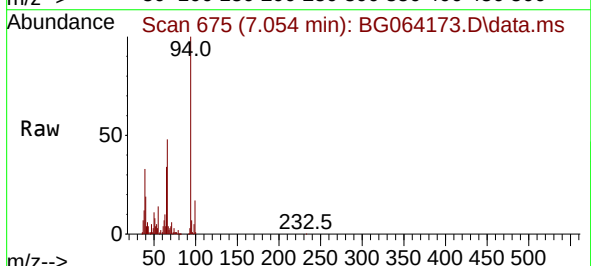
Reviewed By :Rahul Chavli 04/04/2025

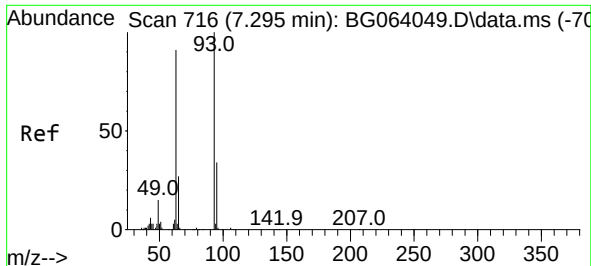
Supervised By :Jagrut Upadhyay 04/04/2025



#10  
Phenol  
Concen: 51.672 ng  
RT: 7.054 min Scan# 675  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

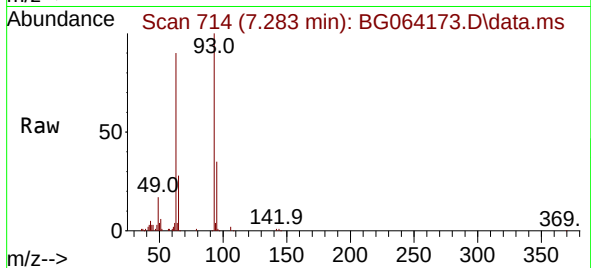
Tgt Ion: 94 Resp: 130559  
Ion Ratio Lower Upper  
94 100  
65 34.3 15.2 55.2  
66 47.6 25.1 65.1





#11  
bis(2-Chloroethyl)ether  
Concen: 43.900 ng  
RT: 7.283 min Scan# 716  
Delta R.T. -0.012 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

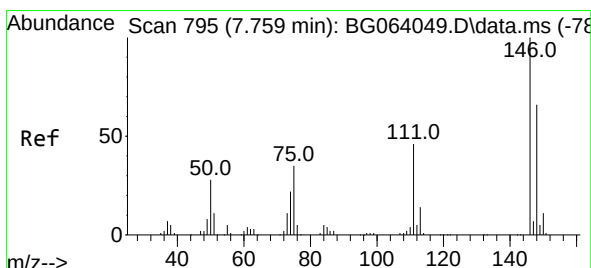
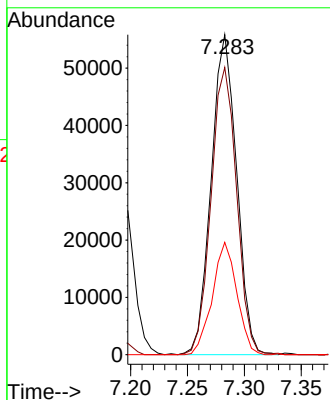
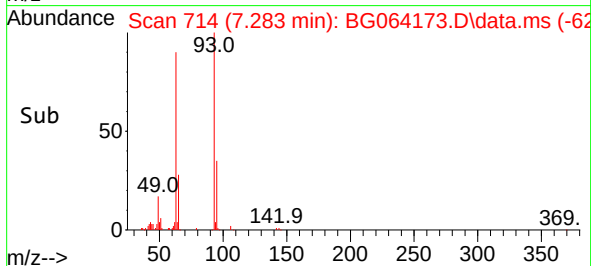
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



Tgt Ion: 93 Resp: 86962  
Ion Ratio Lower Upper  
93 100  
63 89.8 70.0 110.0  
95 35.1 13.7 53.7

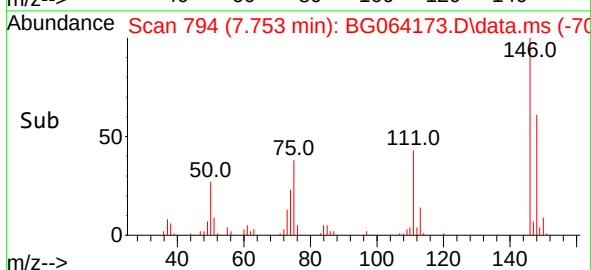
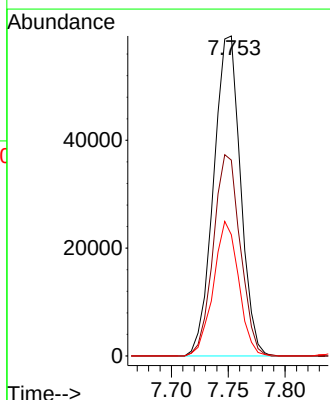
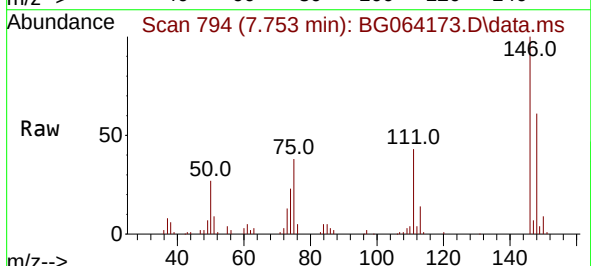
Manual Integrations  
APPROVED

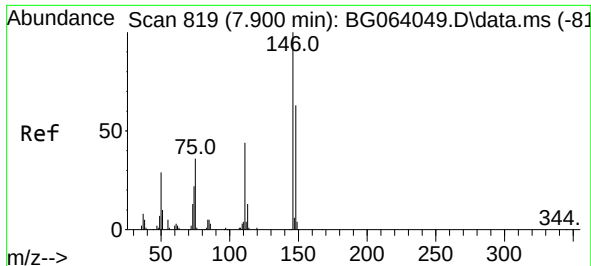
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#12  
1,3-Dichlorobenzene  
Concen: 45.616 ng  
RT: 7.753 min Scan# 794  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

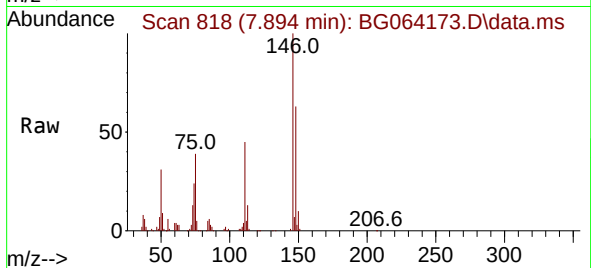
Tgt Ion:146 Resp: 97597  
Ion Ratio Lower Upper  
146 100  
148 61.2 52.6 78.8  
75 37.9 28.1 42.1





#13  
1,4-Dichlorobenzene  
Concen: 45.307 ng  
RT: 7.894 min Scan# 819  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

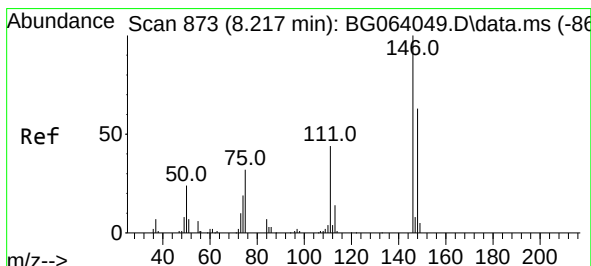
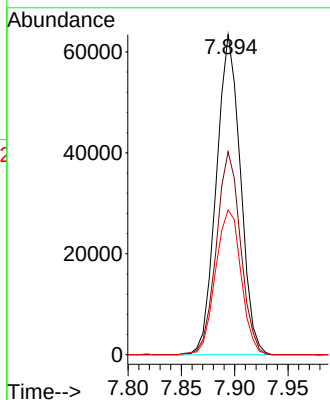
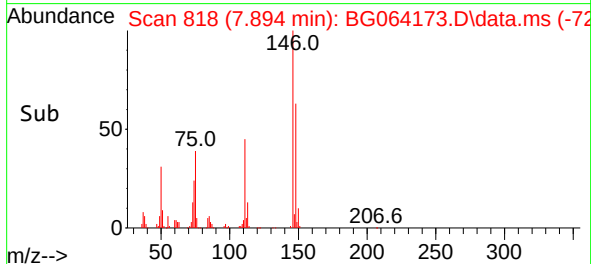
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



Tgt Ion:146 Resp: 99360  
Ion Ratio Lower Upper  
146 100  
148 63.5 50.6 75.8  
111 45.3 35.1 52.7

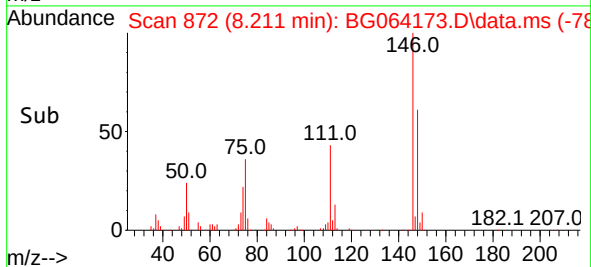
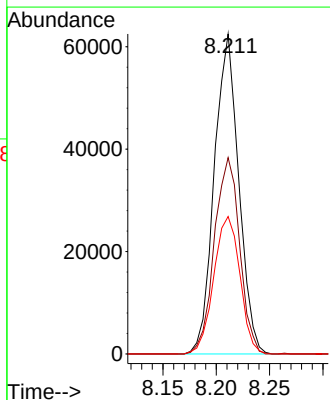
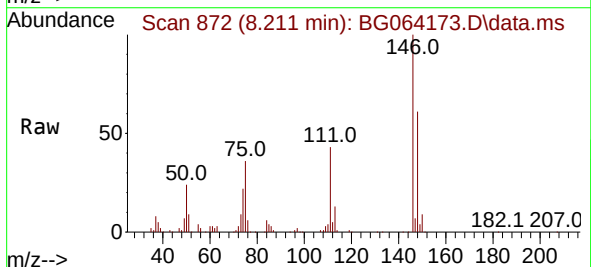
Manual Integrations  
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Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

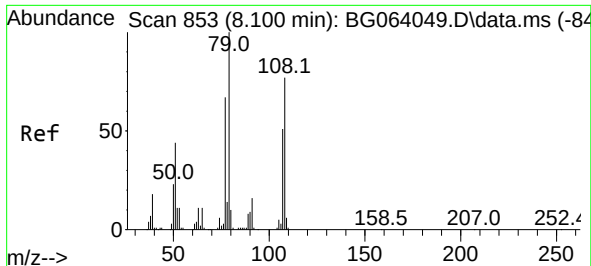


#14  
1,2-Dichlorobenzene  
Concen: 47.030 ng  
RT: 8.211 min Scan# 872  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Tgt Ion:146 Resp: 99453  
Ion Ratio Lower Upper  
146 100  
148 61.3 50.2 75.2  
111 42.9 36.4 54.6

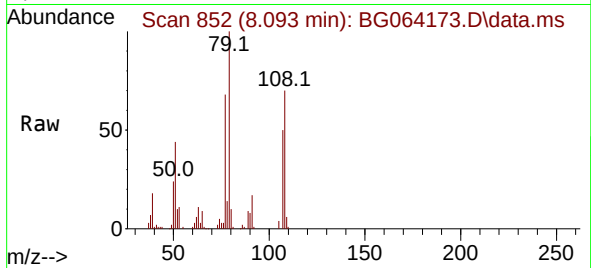






#15  
Benzyl Alcohol  
Concen: 54.167 ng  
RT: 8.093 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

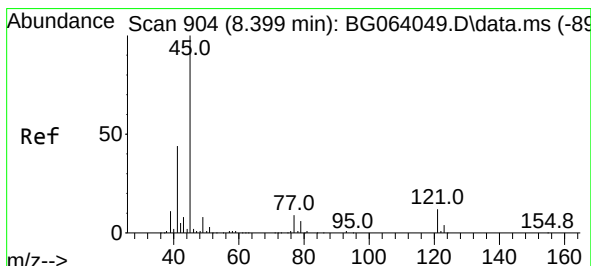
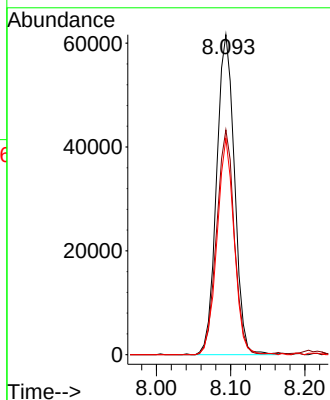
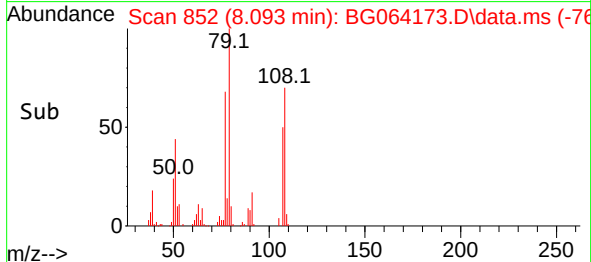
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



Tgt Ion: 79 Resp: 103300  
Ion Ratio Lower Upper  
79 100  
108 70.3 61.7 92.5  
77 67.7 53.9 80.9

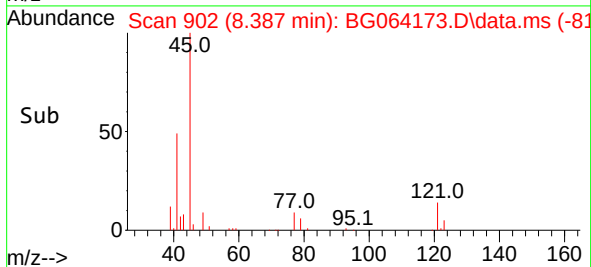
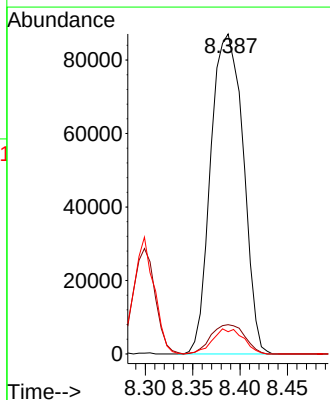
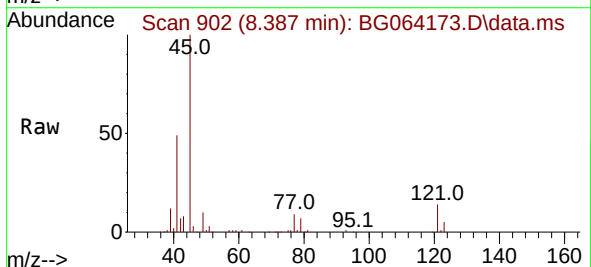
Manual Integrations  
APPROVED

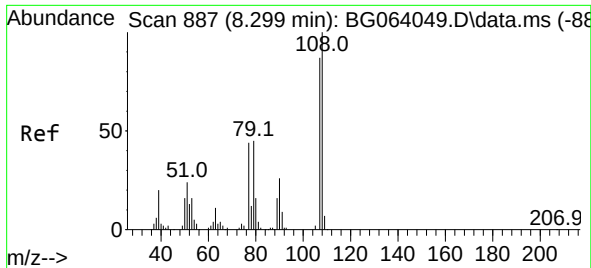
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 46.580 ng  
RT: 8.387 min Scan# 902  
Delta R.T. -0.012 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Tgt Ion: 45 Resp: 207476  
Ion Ratio Lower Upper  
45 100  
77 9.1 0.0 29.0  
79 6.9 0.0 26.6





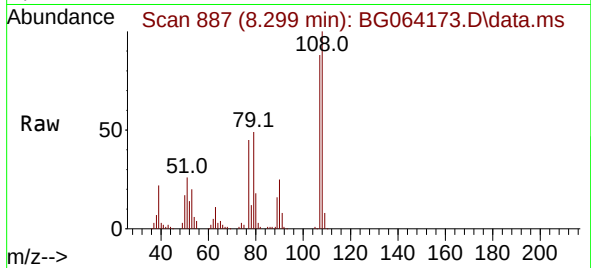
#17  
2-Methylphenol  
Concen: 53.615 ng  
RT: 8.299 min Scan# 887  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS

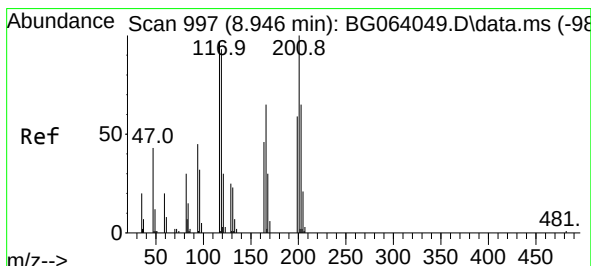
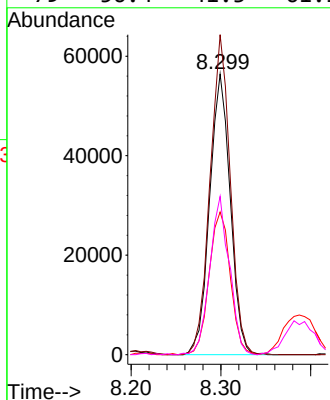
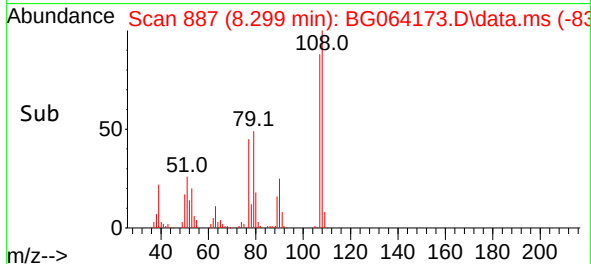


|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 8990  |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 114.0 | 92.5  | 138.7 |
| 77       | 50.9  | 40.5  | 60.7  |
| 79       | 56.4  | 41.3  | 61.9  |

Manual Integrations

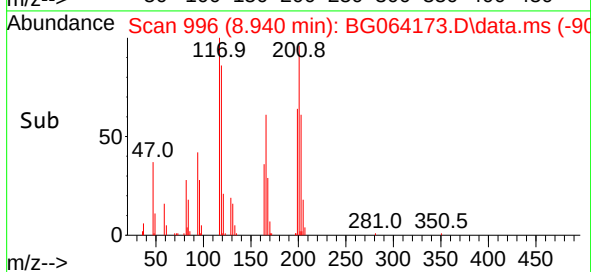
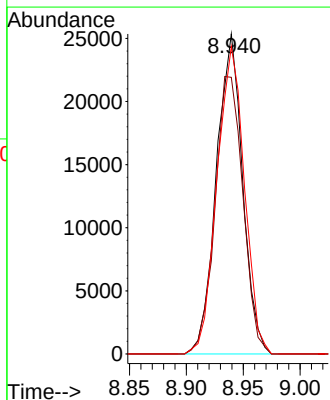
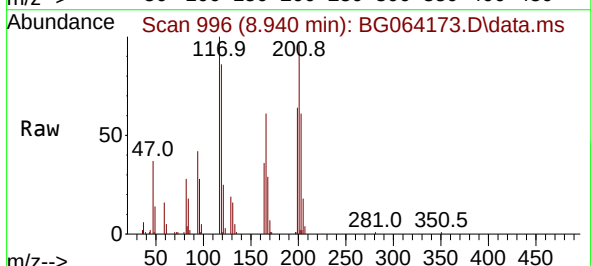
APPROVED

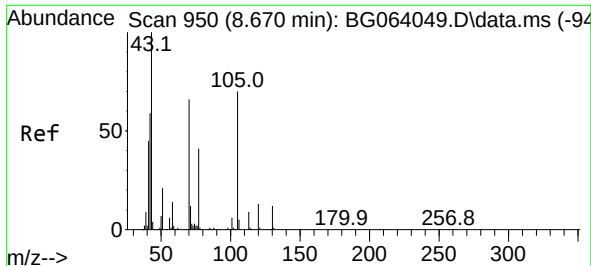
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#18  
Hexachloroethane  
Concen: 52.819 ng  
RT: 8.940 min Scan# 996  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 40527 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 86.5  | 76.2  | 114.2 |
| 201      | 98.4  | 81.5  | 122.3 |





#19

n-Nitroso-di-n-propylamine

Concen: 47.586 ng

RT: 8.663 min Scan# 949

Delta R.T. -0.006 min

Lab File: BG064173.D

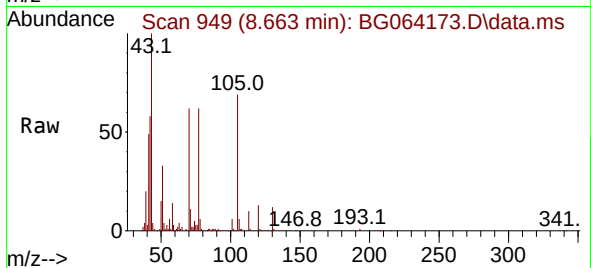
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS



Tgt Ion: 70 Resp: 8241

Ion Ratio Lower Upper

70 100

42 93.7 72.1 108.1

101 10.0 7.2 10.8

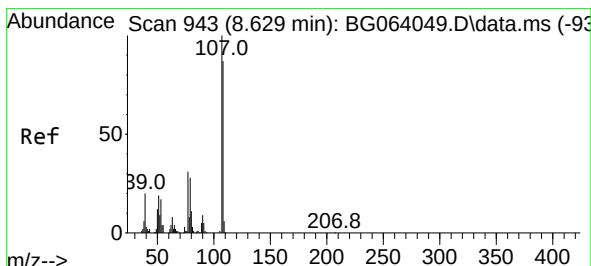
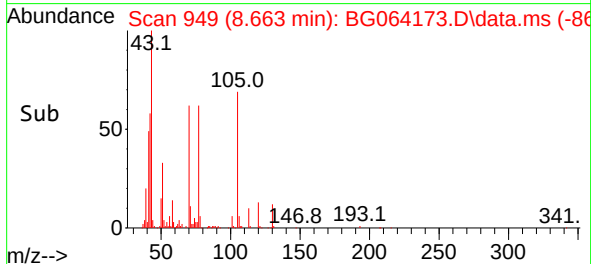
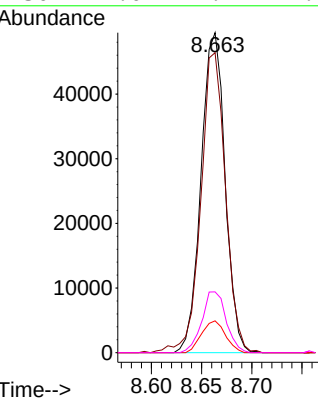
130 19.0 14.7 22.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#20

3+4-Methylphenols

Concen: 54.340 ng

RT: 8.628 min Scan# 943

Delta R.T. -0.000 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

Tgt Ion:107 Resp: 125453

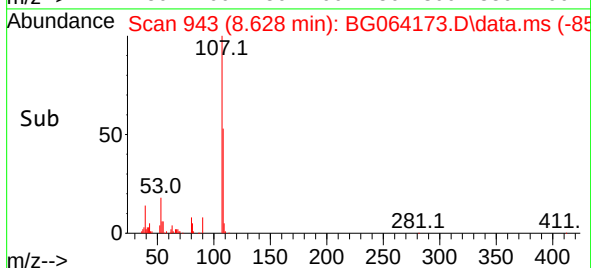
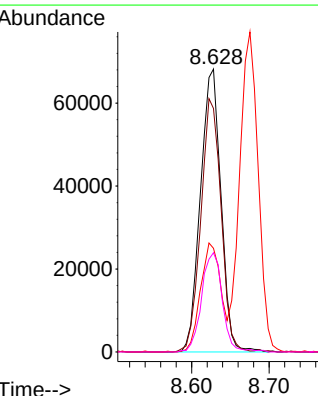
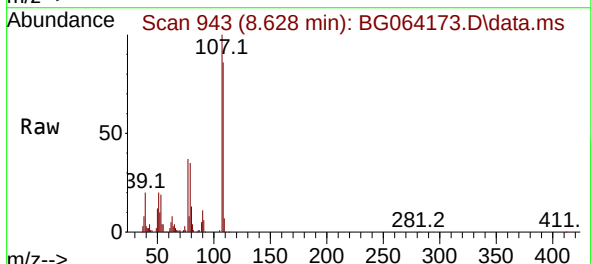
Ion Ratio Lower Upper

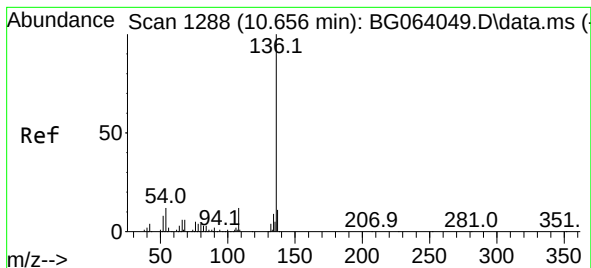
107 100

108 86.1 67.0 107.0

77 36.7 11.2 51.2

79 35.1 7.7 47.7





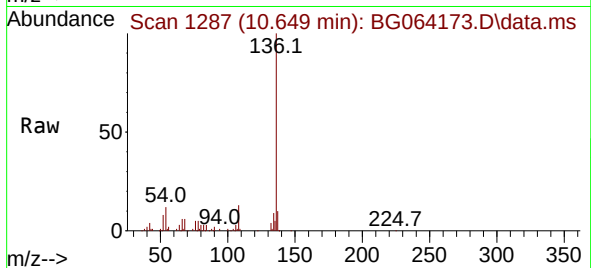
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.649 min Scan# 1287  
Delta R.T. -0.007 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS

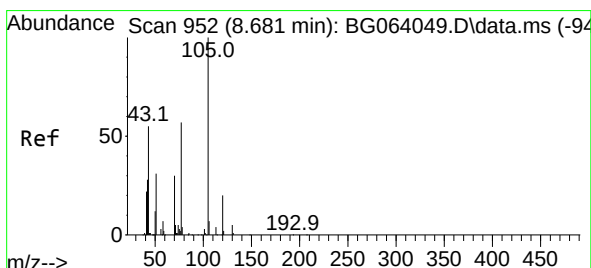
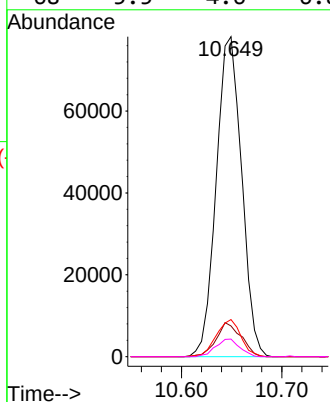
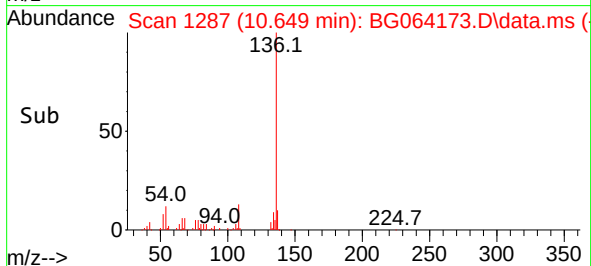


Tgt Ion:136 Resp: 137392  
Ion Ratio Lower Upper  
136 100  
137 9.6 8.5 12.7  
54 11.6 9.9 14.9  
68 5.5 4.6 6.8

Manual Integrations

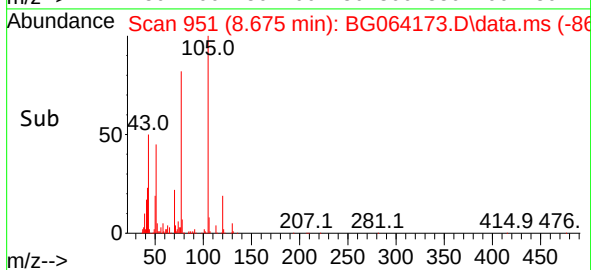
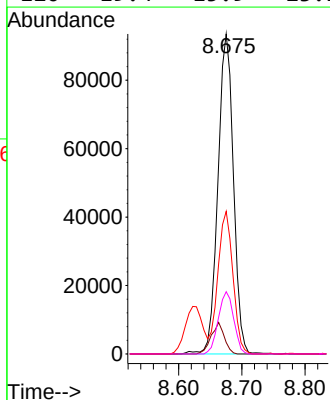
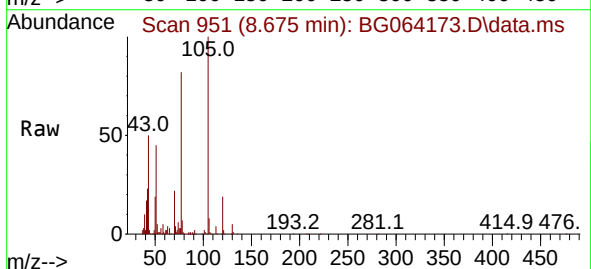
APPROVED

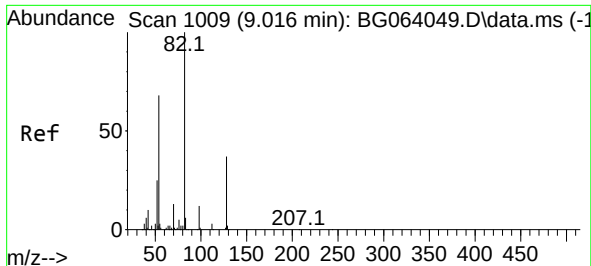
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#22  
Acetophenone  
Concen: 42.244 ng  
RT: 8.675 min Scan# 951  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Tgt Ion:105 Resp: 159135  
Ion Ratio Lower Upper  
105 100  
71 3.6 4.2 6.4#  
51 44.5 33.3 49.9  
120 19.4 15.9 23.9





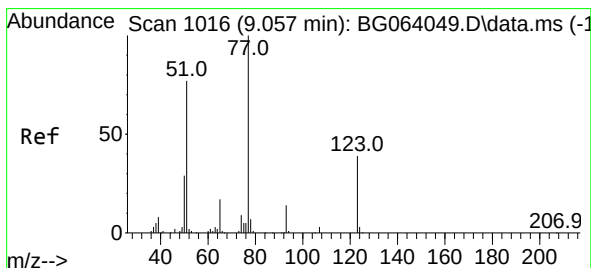
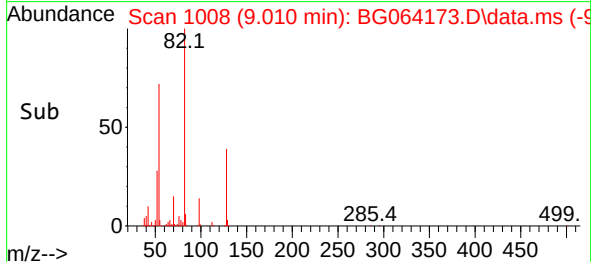
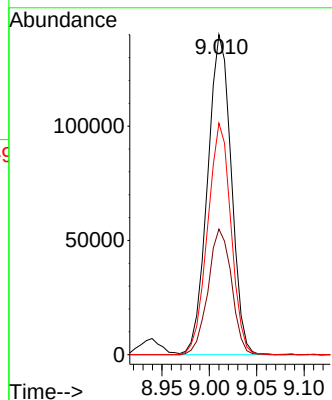
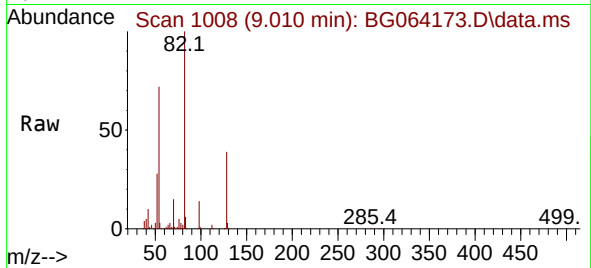
#23  
Nitrobenzene-d5  
Concen: 97.800 ng  
RT: 9.010 min Scan# 1008  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS

Tgt Ion: 82 Resp: 243149  
Ion Ratio Lower Upper  
82 100  
128 39.3 30.0 45.0  
54 72.4 54.7 82.1

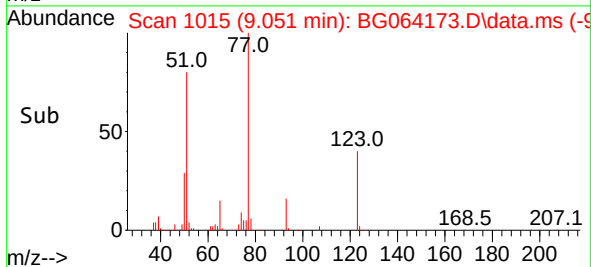
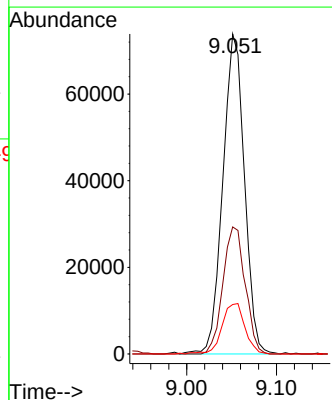
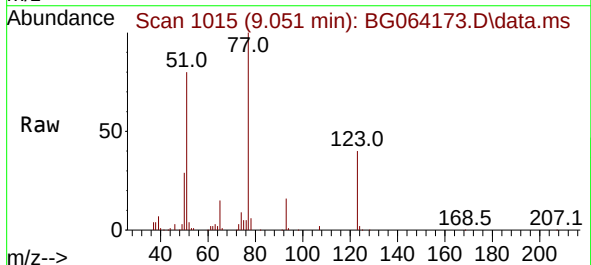
Manual Integrations  
APPROVED

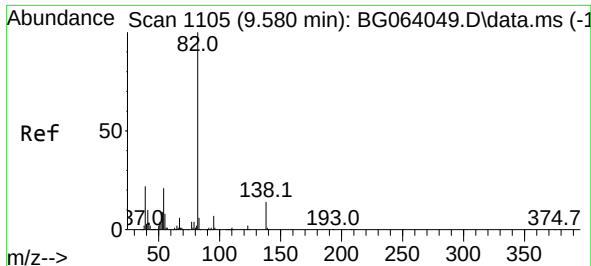
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#24  
Nitrobenzene  
Concen: 47.970 ng  
RT: 9.051 min Scan# 1015  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

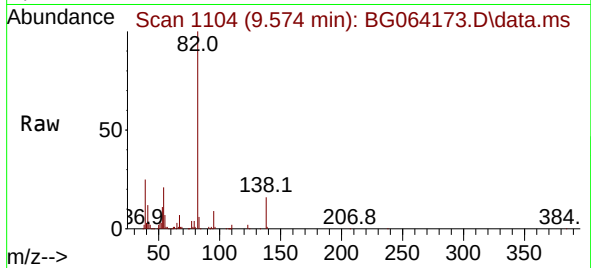
Tgt Ion: 77 Resp: 123254  
Ion Ratio Lower Upper  
77 100  
123 39.7 31.4 47.2  
65 15.4 13.4 20.0





#25  
Isophorone  
Concen: 46.361 ng  
RT: 9.574 min Scan# 1104  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

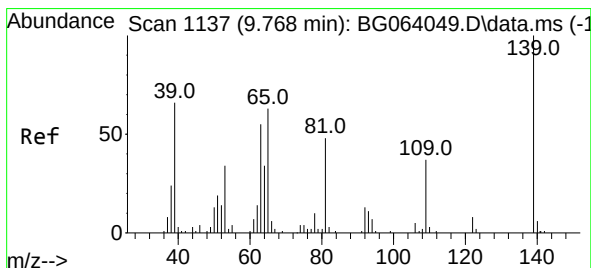
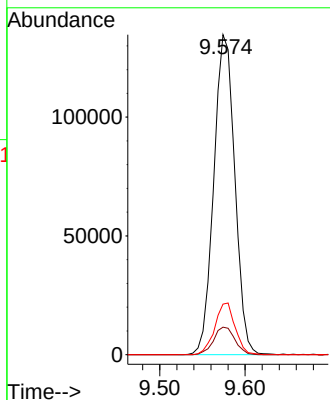
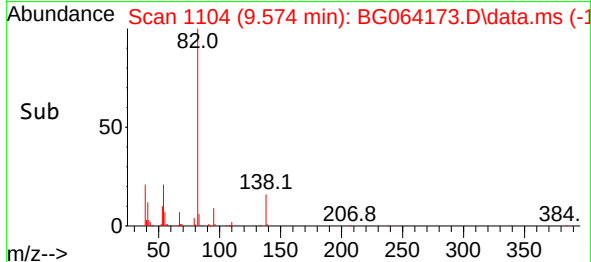
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



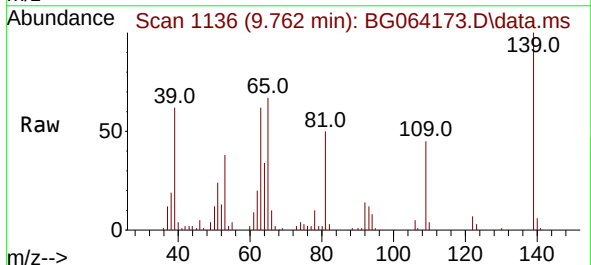
Tgt Ion: 82 Resp: 230700  
Ion Ratio Lower Upper  
82 100  
95 8.6 5.8 8.8  
138 15.8 10.9 16.3

Manual Integrations  
APPROVED

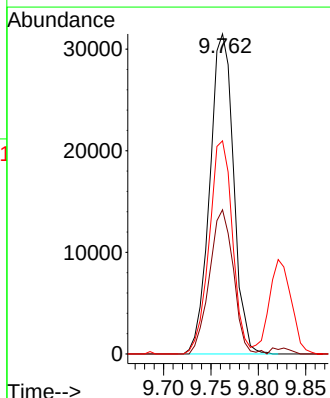
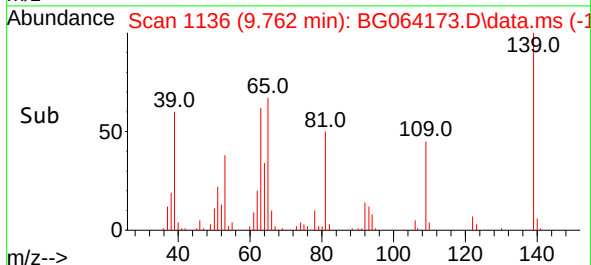
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

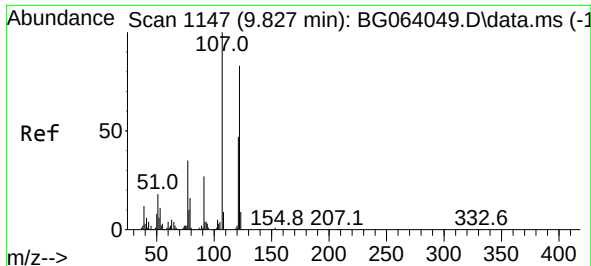


#26  
2-Nitrophenol  
Concen: 58.817 ng  
RT: 9.762 min Scan# 1136  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17



Tgt Ion:139 Resp: 54963  
Ion Ratio Lower Upper  
139 100  
109 45.1 29.9 44.9#  
65 66.6 50.6 76.0





#27

2,4-Dimethylphenol

Concen: 71.211 ng

RT: 9.827 min Scan# 1147

Delta R.T. -0.000 min

Lab File: BG064173.D

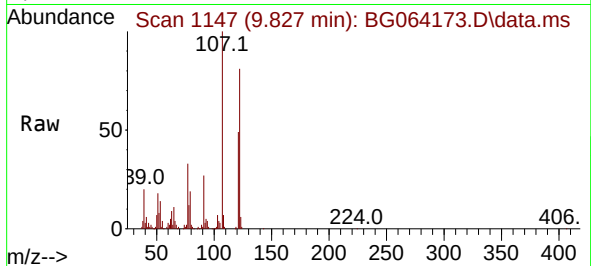
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS



Tgt Ion:122 Resp: 10623

Ion Ratio Lower Upper

122 100

107 124.0 95.4 143.0

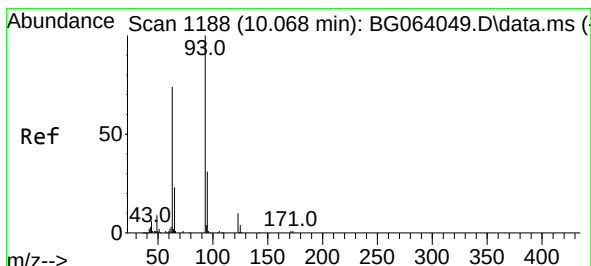
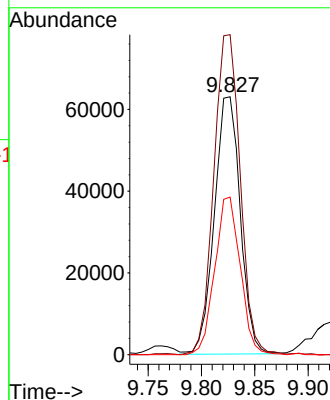
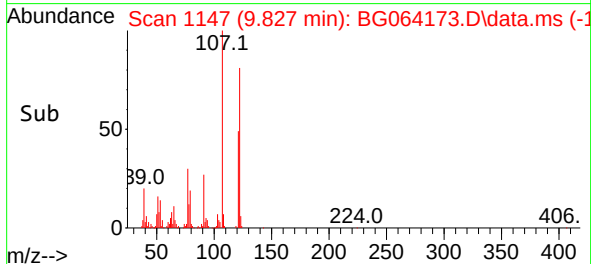
121 61.1 44.9 67.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#28

bis(2-Chloroethoxy)methane

Concen: 44.926 ng

RT: 10.062 min Scan# 1187

Delta R.T. -0.006 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

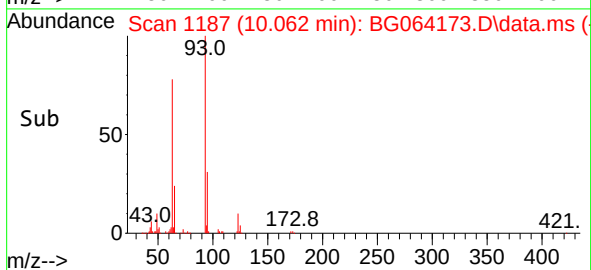
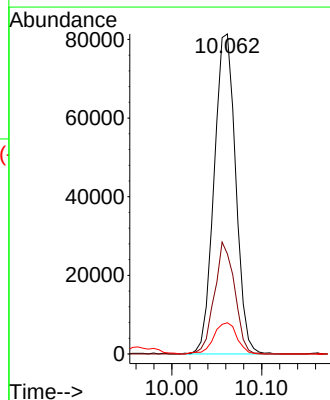
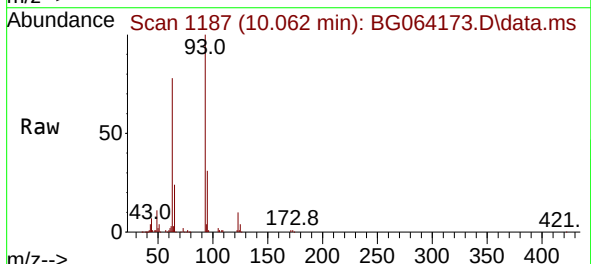
Tgt Ion: 93 Resp: 135542

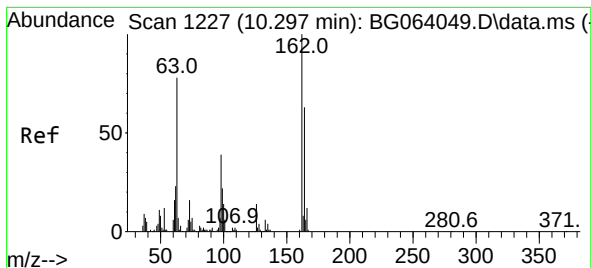
Ion Ratio Lower Upper

93 100

95 31.3 25.0 37.4

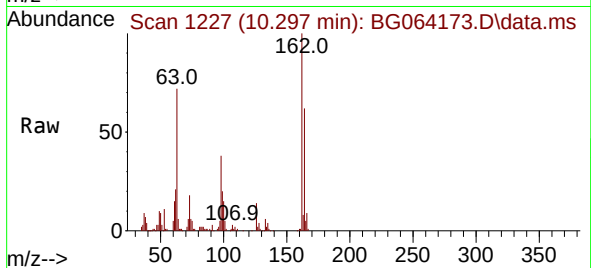
123 9.8 7.6 11.4





#29  
2,4-Dichlorophenol  
Concen: 53.917 ng  
RT: 10.297 min Scan# 1227  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

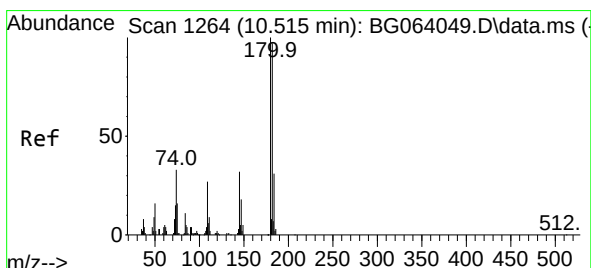
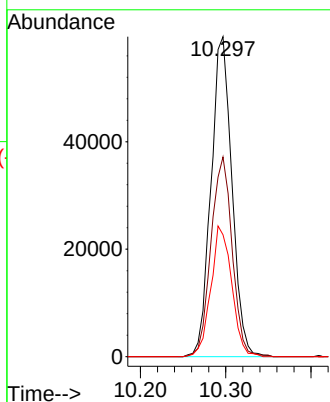
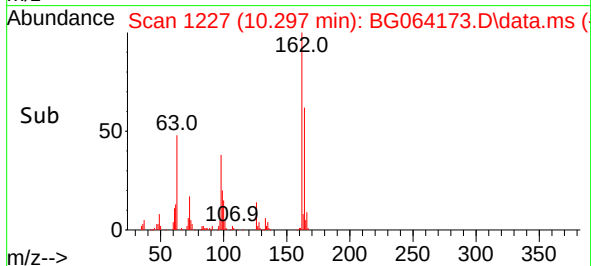
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



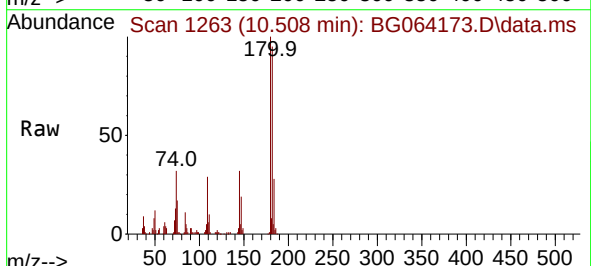
Tgt Ion:162 Resp: 101564  
Ion Ratio Lower Upper  
162 100  
164 62.4 42.8 82.8  
98 38.1 19.1 59.1

Manual Integrations  
APPROVED

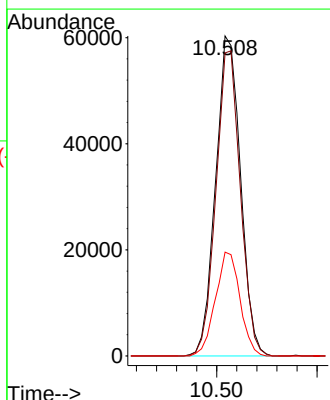
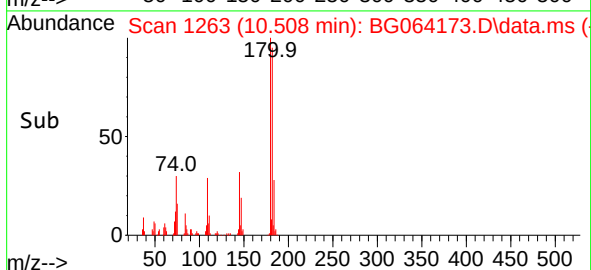
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



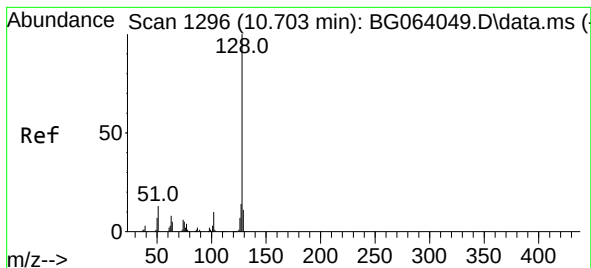
#30  
1,2,4-Trichlorobenzene  
Concen: 45.580 ng  
RT: 10.508 min Scan# 1263  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17



Tgt Ion:180 Resp: 103648  
Ion Ratio Lower Upper  
180 100  
182 94.7 77.3 115.9  
145 32.4 25.2 37.8







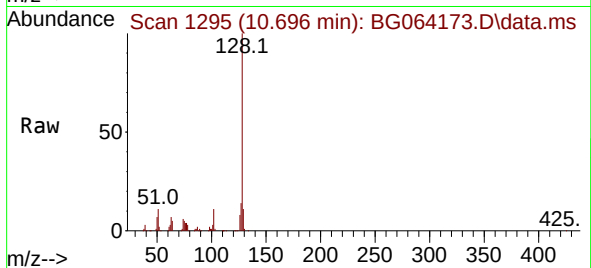
#31  
Naphthalene  
Concen: 43.961 ng  
RT: 10.696 min Scan# 1295  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS



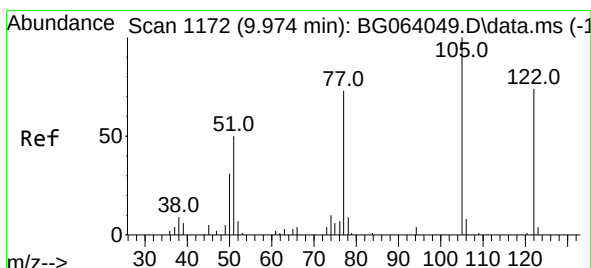
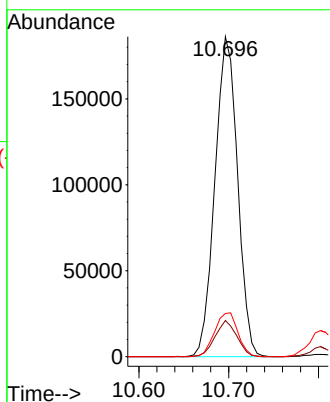
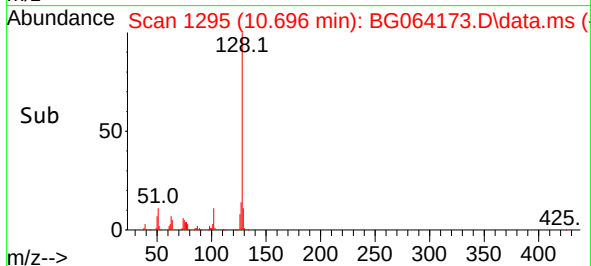
Tgt Ion:128 Resp: 32568  
Ion Ratio Lower Upper  
128 100  
129 11.3 8.4 12.6  
127 13.5 11.1 16.7

Manual Integrations

APPROVED

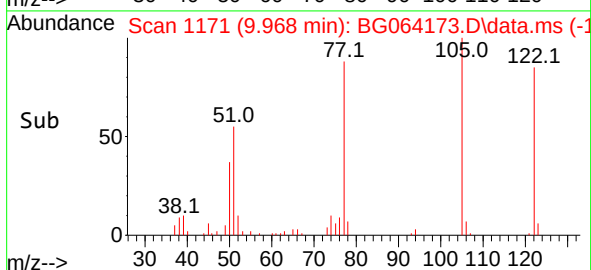
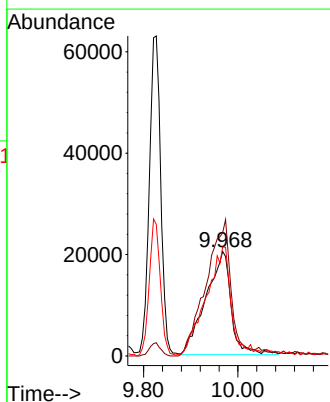
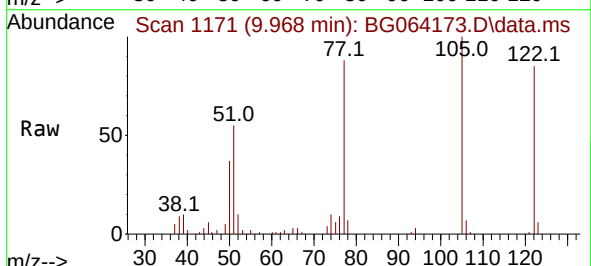
Reviewed By :Rahul Chavli 04/04/2025

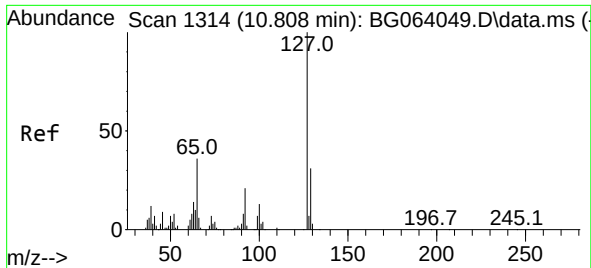
Supervised By :Jagrut Upadhyay 04/04/2025



#32  
Benzoic acid  
Concen: 54.083 ng m  
RT: 9.968 min Scan# 1171  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Tgt Ion:122 Resp: 75930  
Ion Ratio Lower Upper  
122 100  
105 118.0 115.0 155.0  
77 104.3 80.9 120.9





#33  
4-Chloroaniline  
Concen: 11.034 ng  
RT: 10.802 min Scan# 1313  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS

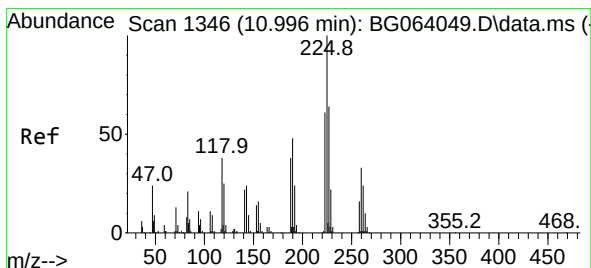
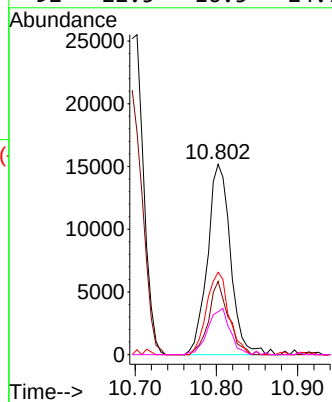
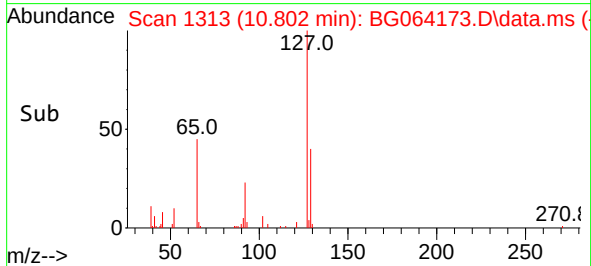
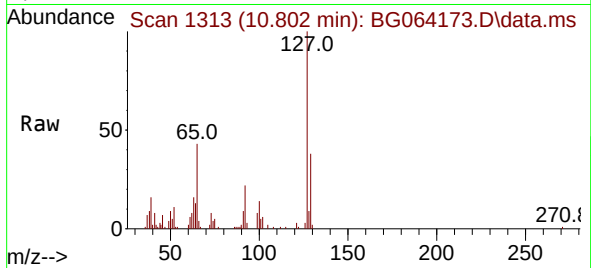
Tgt Ion:127 Resp: 2987  
Ion Ratio Lower Upper  
127 100  
129 38.5 25.0 37.4  
65 43.3 28.5 42.7  
92 22.5 16.5 24.7

Manual Integrations

APPROVED

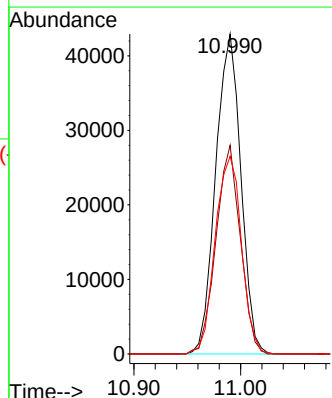
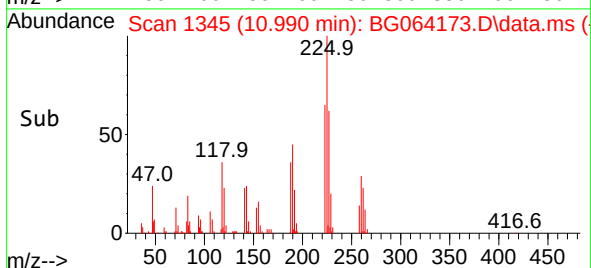
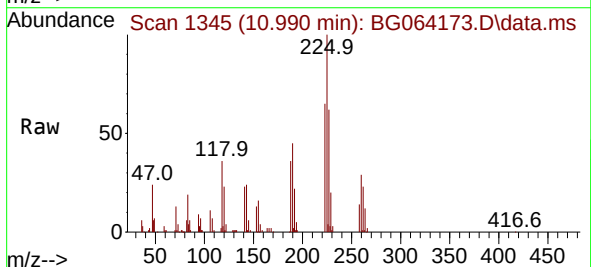
Reviewed By :Rahul Chavli 04/04/2025

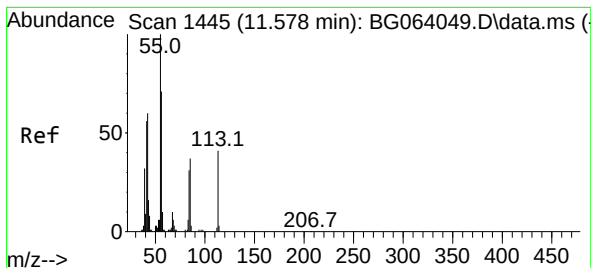
Supervised By :Jagrut Upadhyay 04/04/2025



#34  
Hexachlorobutadiene  
Concen: 47.202 ng  
RT: 10.990 min Scan# 1345  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

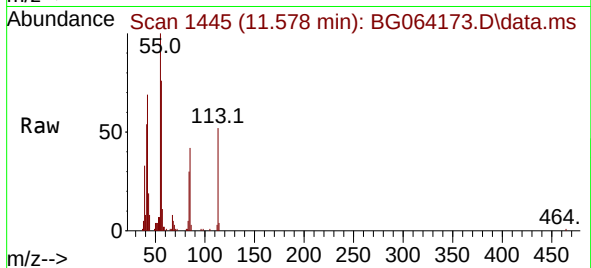
Tgt Ion:225 Resp: 70355  
Ion Ratio Lower Upper  
225 100  
223 65.2 48.5 72.7  
227 61.8 51.0 76.6





#35  
Caprolactam  
Concen: 54.631 ng m  
RT: 11.578 min Scan# 1445  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

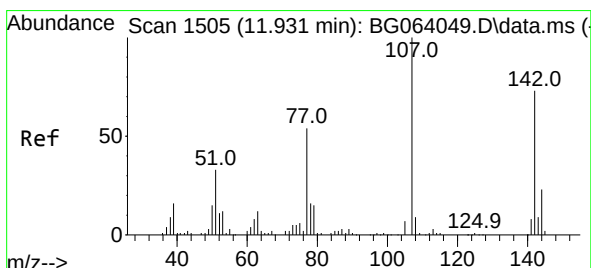
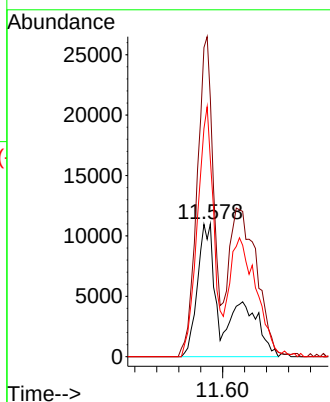
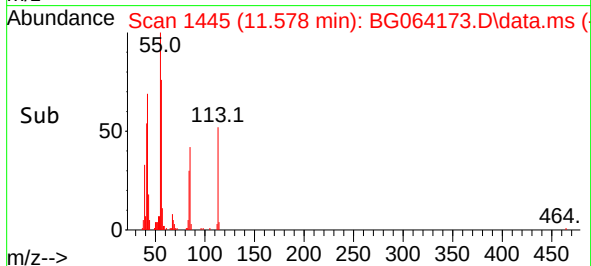
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



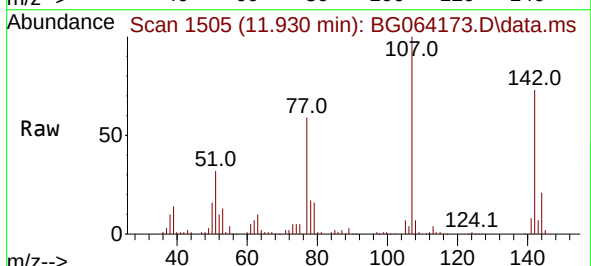
Tgt Ion:113 Resp: 39430  
Ion Ratio Lower Upper  
113 100  
55 194.0 225.2 265.2  
56 148.2 153.4 193.4

Manual Integrations  
APPROVED

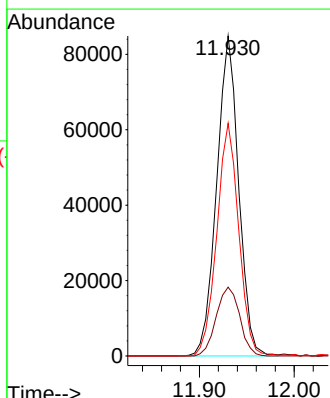
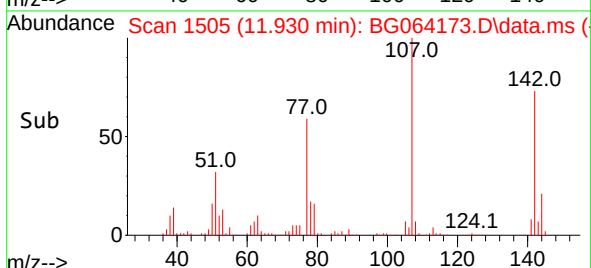
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

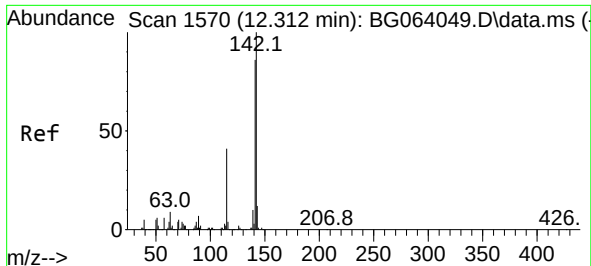


#36  
4-Chloro-3-methylphenol  
Concen: 55.426 ng  
RT: 11.930 min Scan# 1505  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17



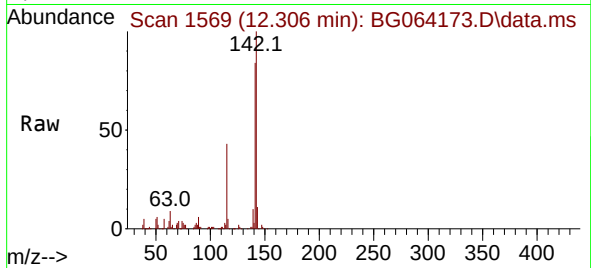
Tgt Ion:107 Resp: 136856  
Ion Ratio Lower Upper  
107 100  
144 21.5 18.6 28.0  
142 72.7 58.0 87.0





#37  
2-Methylnaphthalene  
Concen: 43.093 ng  
RT: 12.306 min Scan# 1569  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

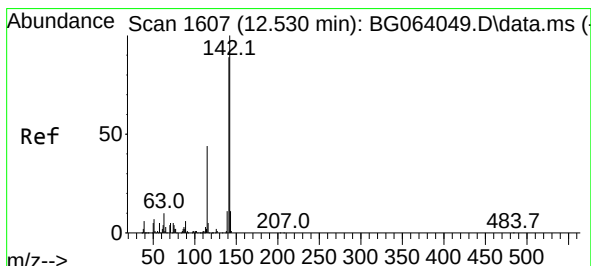
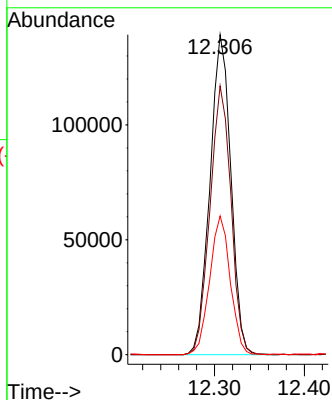
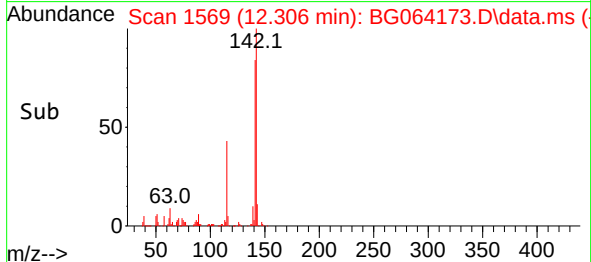
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



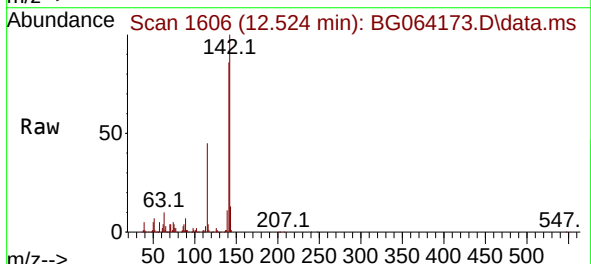
Tgt Ion:142 Resp: 22538  
Ion Ratio Lower Upper  
142 100  
141 84.0 68.6 103.0  
115 43.3 32.8 49.2

Manual Integrations  
APPROVED

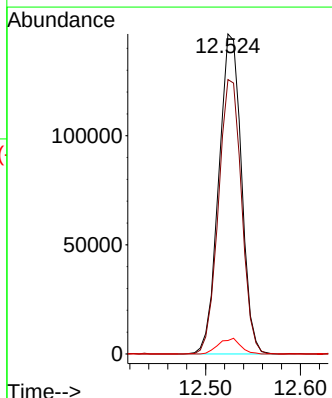
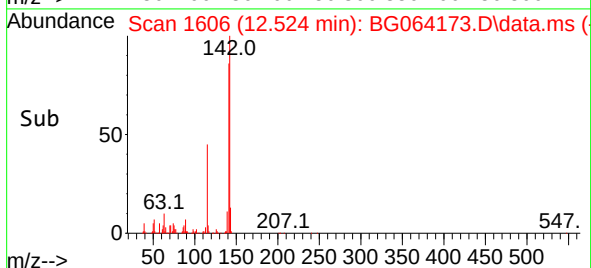
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

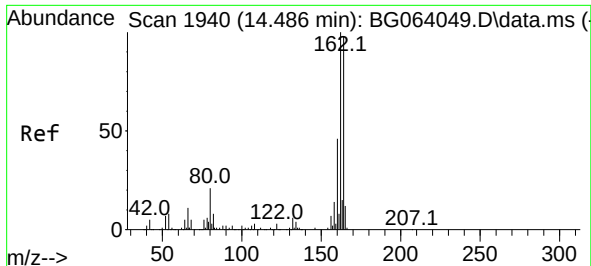


#38  
1-Methylnaphthalene  
Concen: 47.566 ng  
RT: 12.524 min Scan# 1606  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17



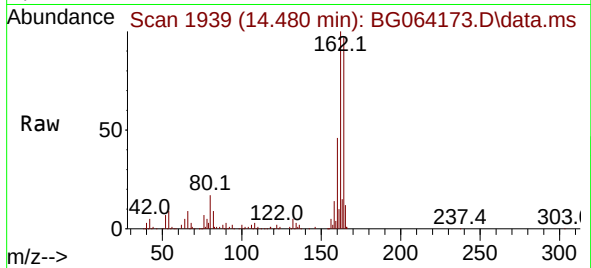
Tgt Ion:142 Resp: 243729  
Ion Ratio Lower Upper  
142 100  
141 85.8 71.2 106.8  
116 4.2 3.6 5.4





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.480 min Scan# 1939  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

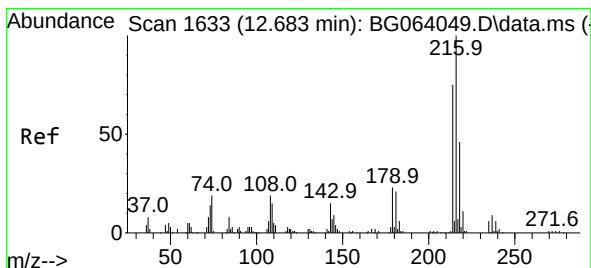
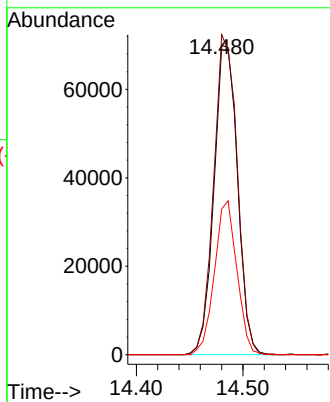
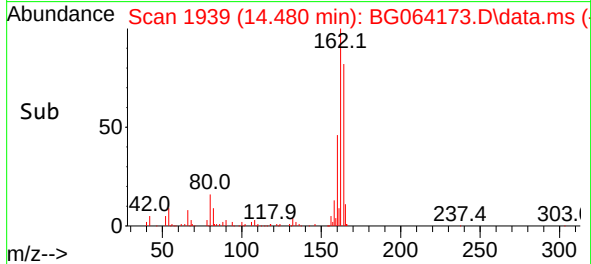
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



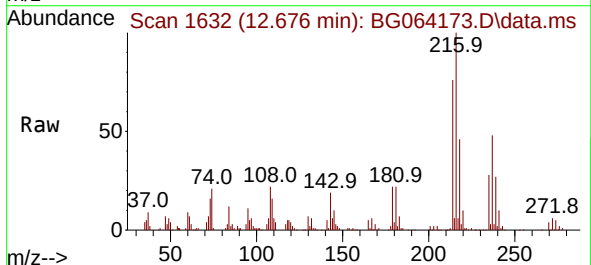
Tgt Ion:164 Resp: 10739  
Ion Ratio Lower Upper  
164 100  
162 103.5 81.4 122.0  
160 47.2 37.0 55.6

Manual Integrations  
APPROVED

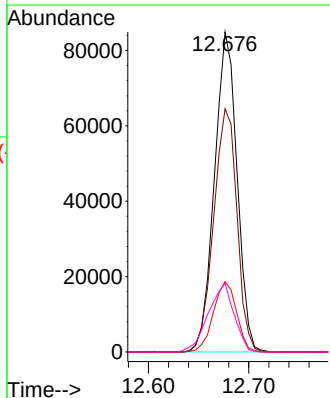
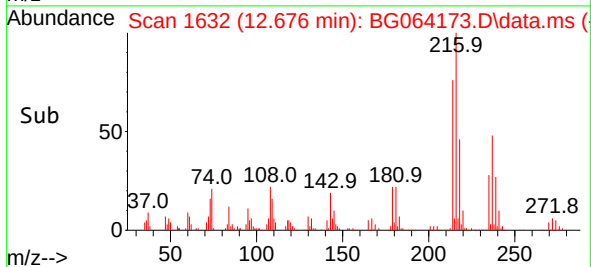
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

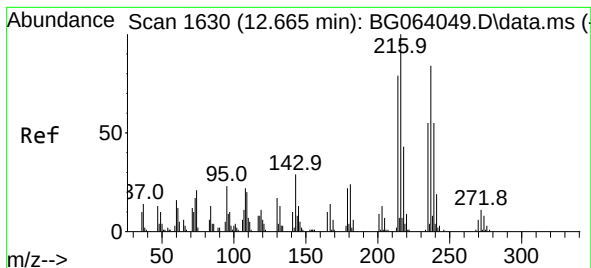


#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 43.271 ng  
RT: 12.676 min Scan# 1632  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17



Tgt Ion:216 Resp: 132670  
Ion Ratio Lower Upper  
216 100  
214 78.3 61.7 92.5  
179 22.5 17.9 26.9  
108 24.5 15.9 23.9#





#41

Hexachlorocyclopentadiene

Concen: 225.856 ng

RT: 12.659 min Scan# 1

Delta R.T. -0.006 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS

Tgt Ion:237 Resp: 19489

Ion Ratio Lower Upper

237 100

235 61.8 46.0 86.0

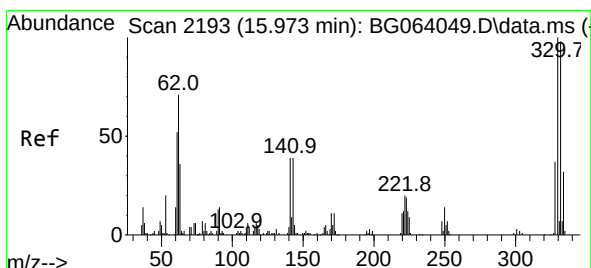
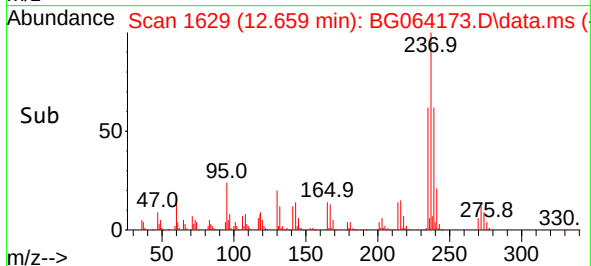
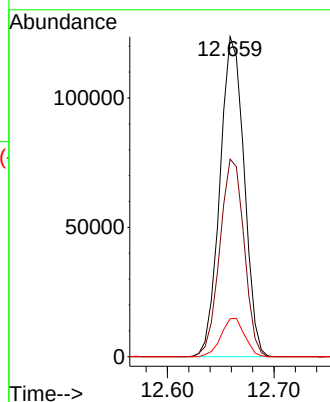
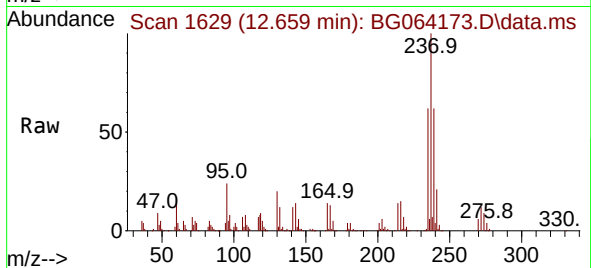
272 11.8 0.0 32.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#42

2,4,6-Tribromophenol

Concen: 171.293 ng

RT: 15.972 min Scan# 2193

Delta R.T. -0.000 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

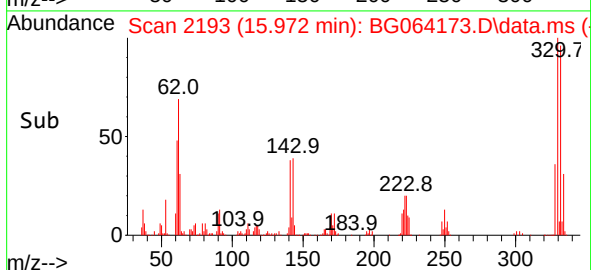
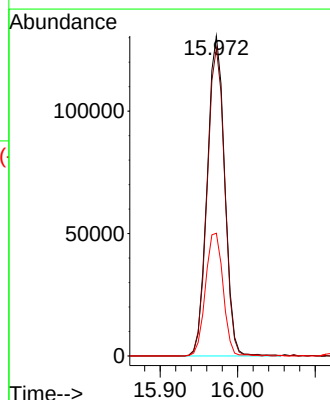
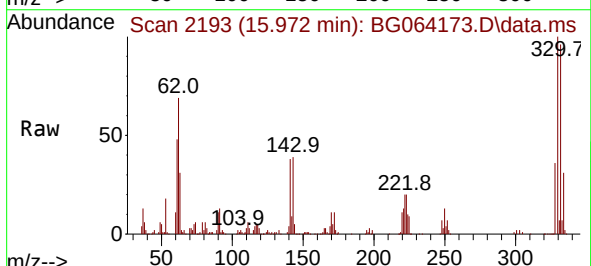
Tgt Ion:330 Resp: 204481

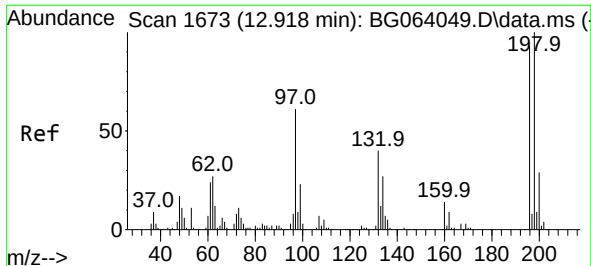
Ion Ratio Lower Upper

330 100

332 96.6 76.7 115.1

141 38.8 29.7 44.5





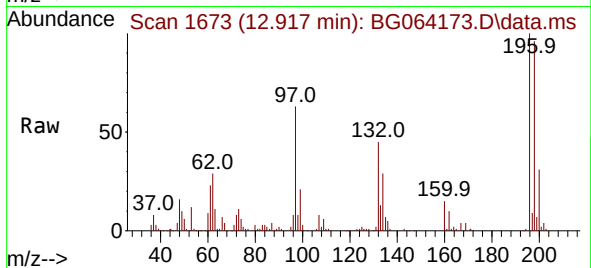
#43  
2,4,6-Trichlorophenol  
Concen: 51.657 ng  
RT: 12.917 min Scan# 1673  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS



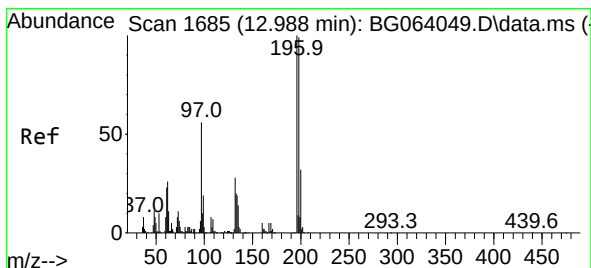
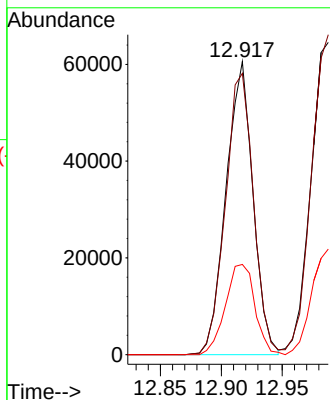
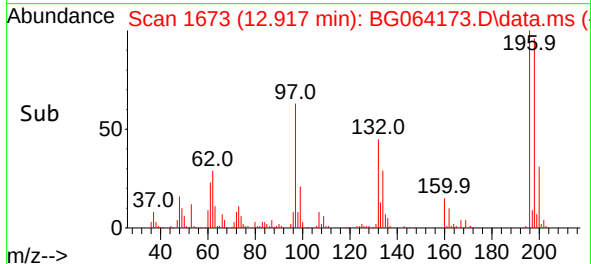
Tgt Ion:196 Resp: 9334  
Ion Ratio Lower Upper  
196 100  
198 96.0 85.6 128.4  
200 30.8 24.6 37.0

Manual Integrations

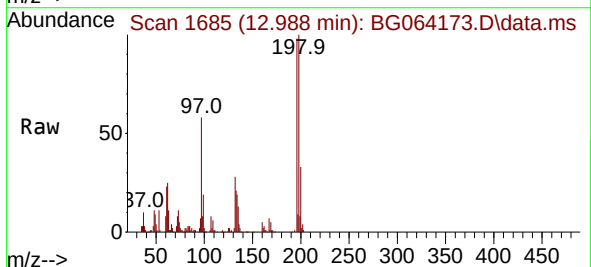
APPROVED

Reviewed By :Rahul Chavli 04/04/2025

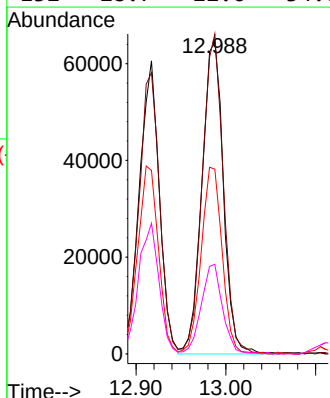
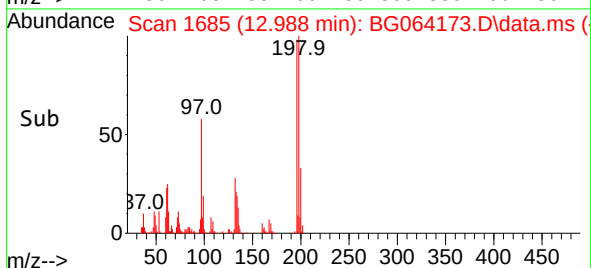
Supervised By :Jagrut Upadhyay 04/04/2025

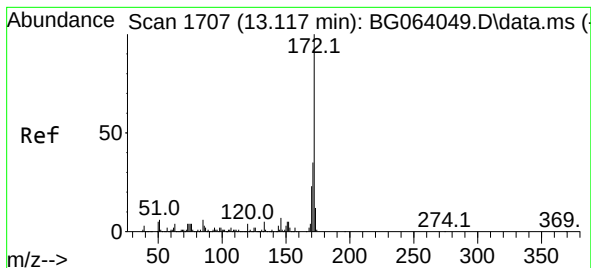


#44  
2,4,5-Trichlorophenol  
Concen: 53.475 ng  
RT: 12.988 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17



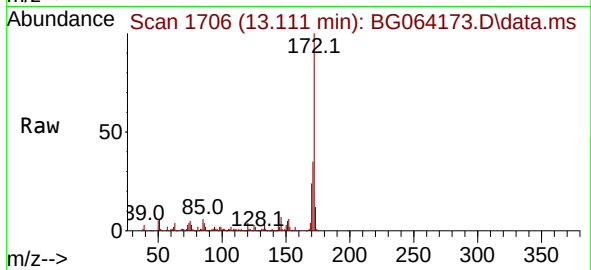
Tgt Ion:196 Resp: 107368  
Ion Ratio Lower Upper  
196 100  
198 102.5 79.5 119.3  
97 59.2 45.2 67.8  
132 28.7 22.6 34.0





#45  
2-Fluorobiphenyl  
Concen: 85.612 ng  
RT: 13.111 min Scan# 1706  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

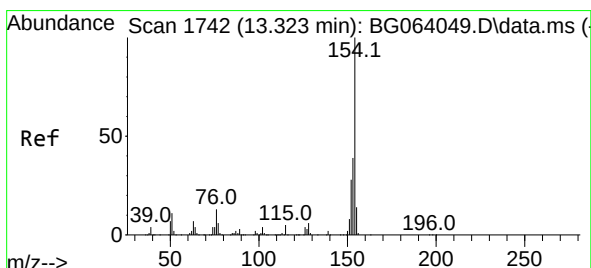
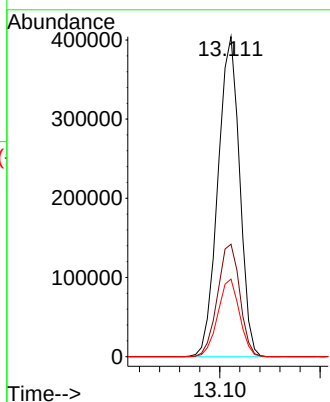
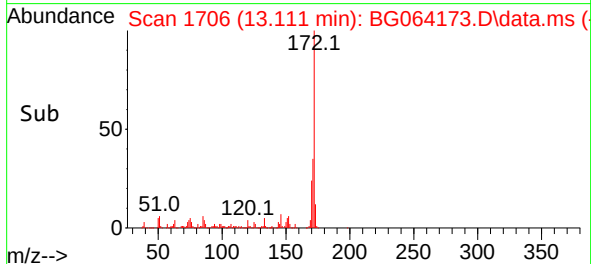
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



Tgt Ion:172 Resp: 605724  
Ion Ratio Lower Upper  
172 100  
171 35.2 28.0 42.0  
170 24.2 18.7 28.1

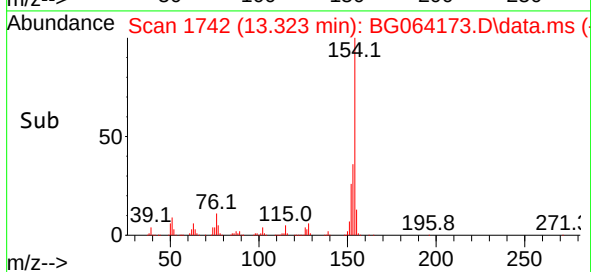
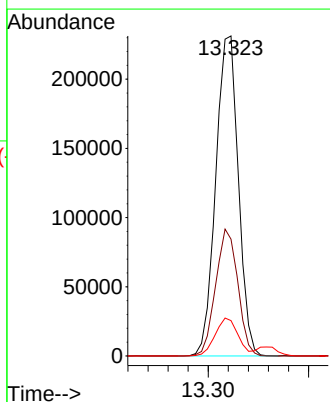
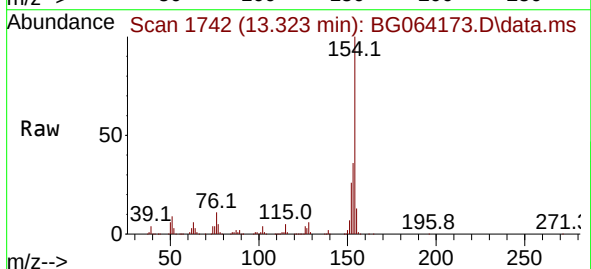
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

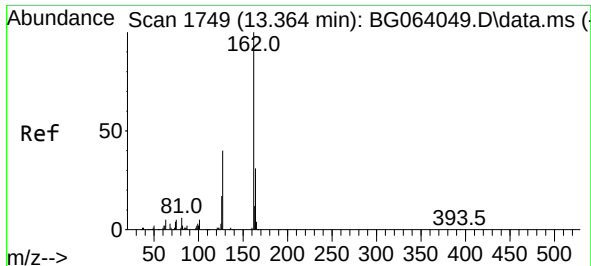


#46  
1,1'-Biphenyl  
Concen: 44.426 ng  
RT: 13.323 min Scan# 1742  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Tgt Ion:154 Resp: 360456  
Ion Ratio Lower Upper  
154 100  
153 36.5 19.5 59.5  
76 11.0 0.0 33.5

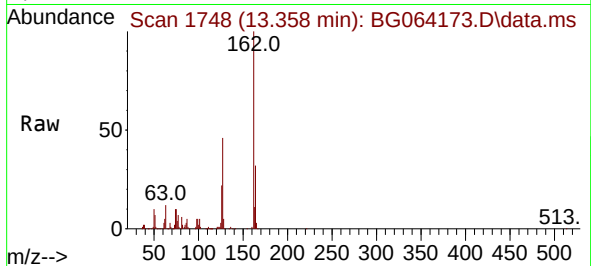






#47  
2-Chloronaphthalene  
Concen: 44.896 ng  
RT: 13.358 min Scan# 1748  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

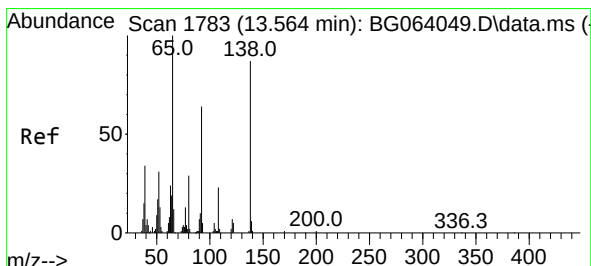
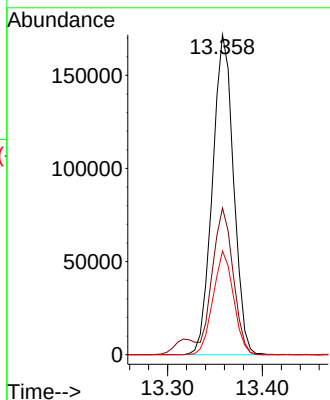
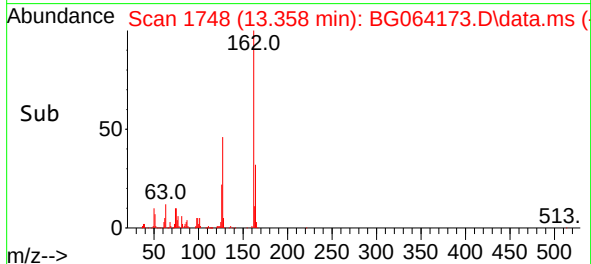
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



Tgt Ion:162 Resp: 265674  
Ion Ratio Lower Upper  
162 100  
127 45.9 35.0 52.4  
164 32.4 25.0 37.6

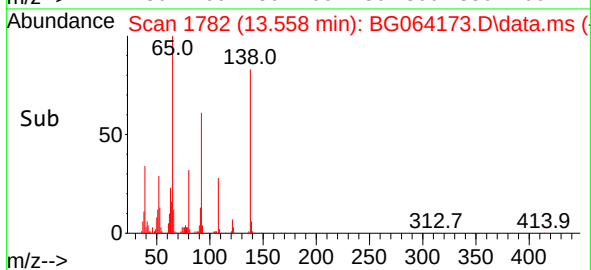
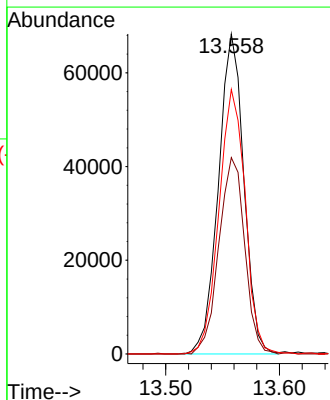
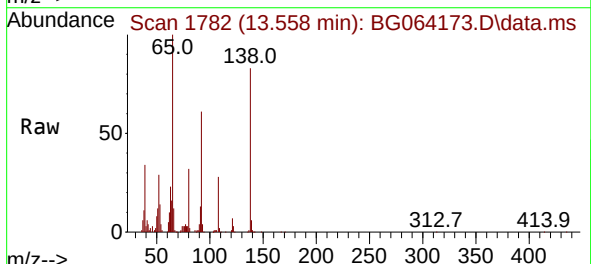
Manual Integrations  
APPROVED

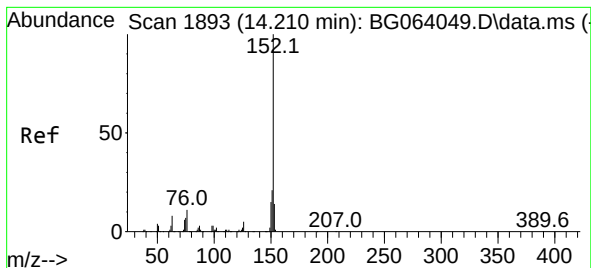
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#48  
2-Nitroaniline  
Concen: 52.905 ng  
RT: 13.558 min Scan# 1782  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Tgt Ion: 65 Resp: 106132  
Ion Ratio Lower Upper  
65 100  
92 61.3 51.2 76.8  
138 82.7 69.4 104.2





#49

Acenaphthylene

Concen: 49.433 ng

RT: 14.204 min Scan# 1892

Delta R.T. -0.006 min

Lab File: BG064173.D

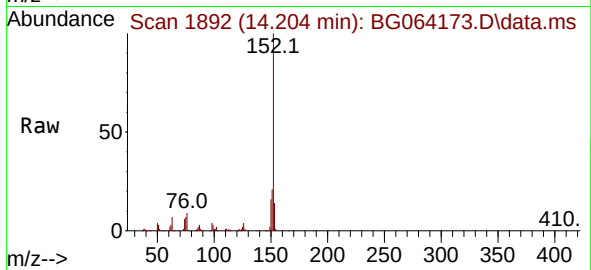
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS



Tgt Ion:152 Resp: 46268

Ion Ratio Lower Upper

152 100

151 21.4 16.4 24.6

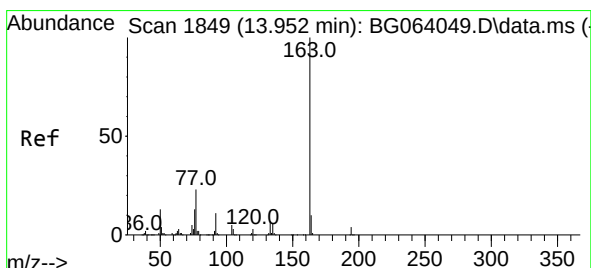
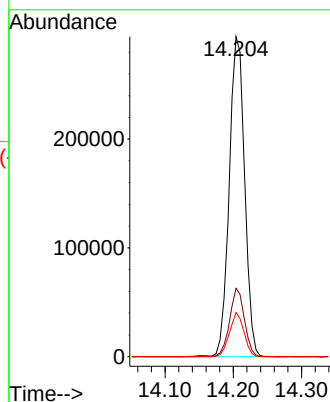
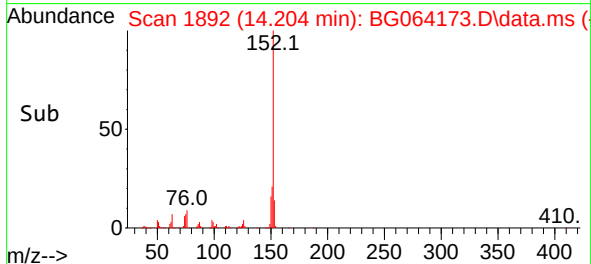
153 13.8 10.9 16.3

Manual Integrations

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Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#50

Dimethylphthalate

Concen: 47.492 ng

RT: 13.945 min Scan# 1848

Delta R.T. -0.006 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

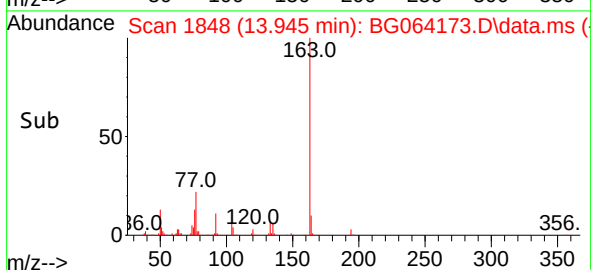
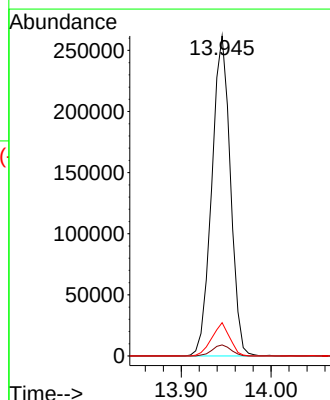
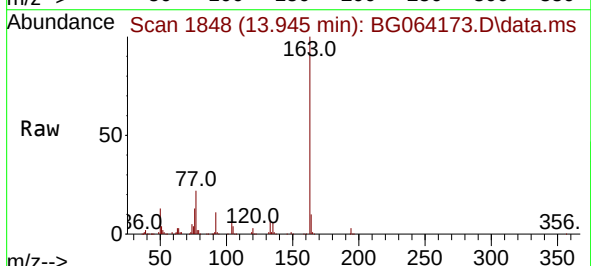
Tgt Ion:163 Resp: 376489

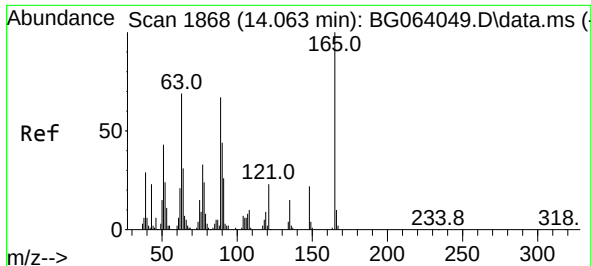
Ion Ratio Lower Upper

163 100

194 3.5 2.8 4.2

164 10.4 8.2 12.2





#51  
2,6-Dinitrotoluene  
Concen: 49.677 ng  
RT: 14.057 min Scan# 1867  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

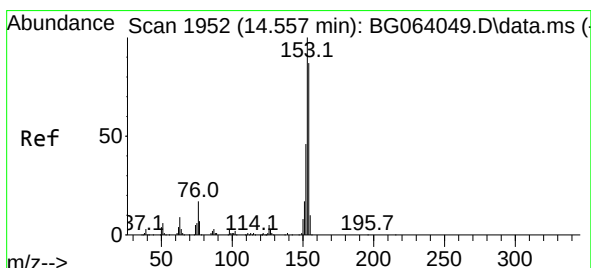
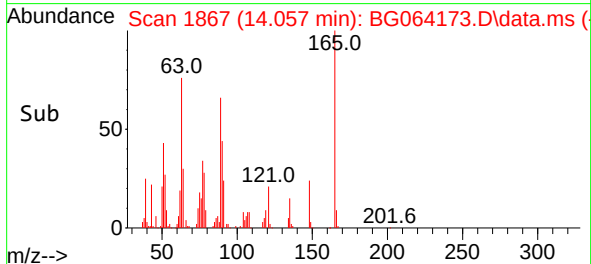
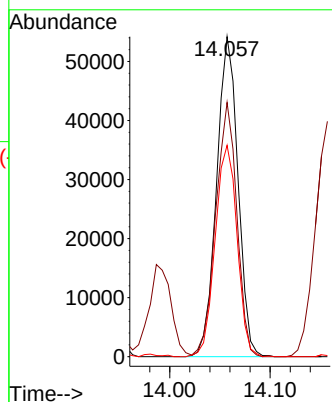
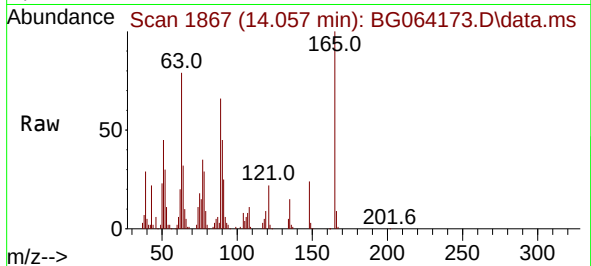
PB167393BS

Tgt Ion:165 Resp: 80098  
Ion Ratio Lower Upper  
165 100  
63 79.5 56.7 85.1  
89 66.1 53.7 80.5

Manual Integrations

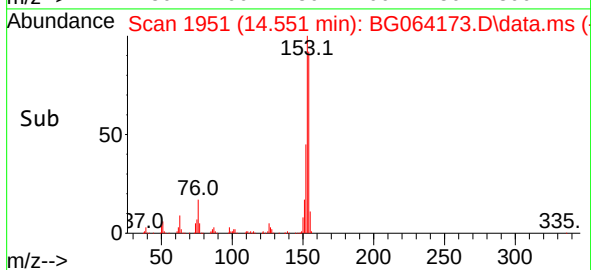
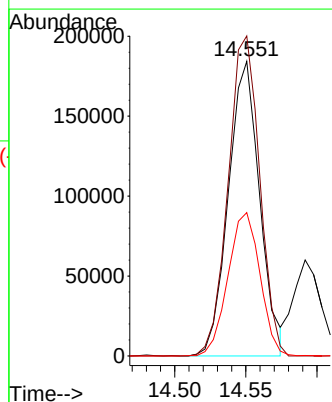
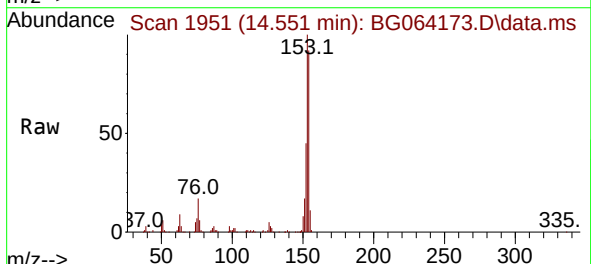
APPROVED

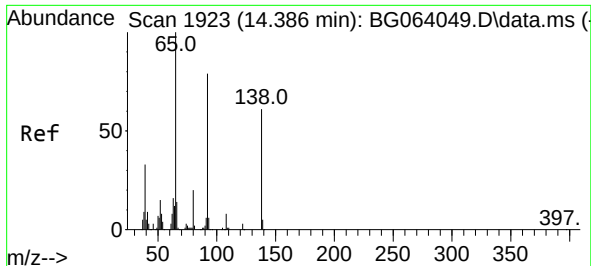
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#52  
Acenaphthene  
Concen: 44.991 ng  
RT: 14.551 min Scan# 1951  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

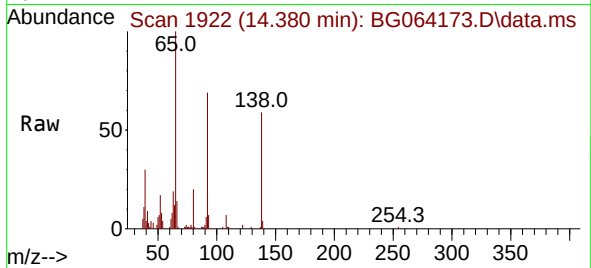
Tgt Ion:154 Resp: 282611  
Ion Ratio Lower Upper  
154 100  
153 108.6 91.6 137.4  
152 48.7 42.5 63.7





#53  
3-Nitroaniline  
Concen: 20.602 ng  
RT: 14.380 min Scan# 1923  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

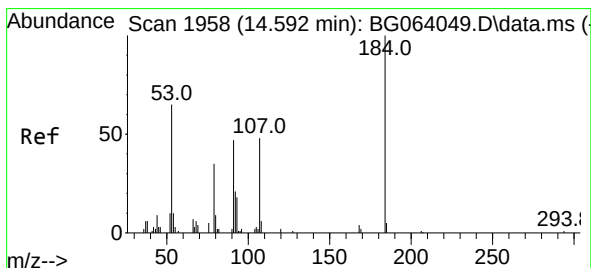
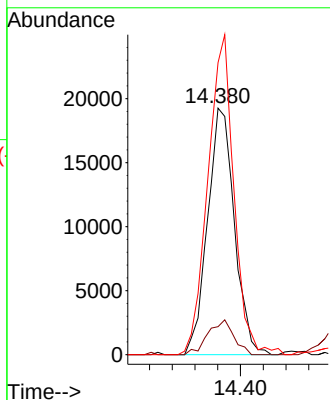
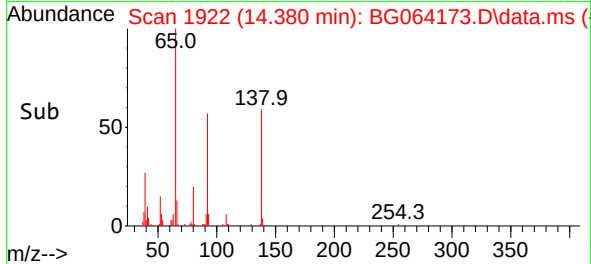
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



Tgt Ion:138 Resp: 3156  
Ion Ratio Lower Upper  
138 100  
108 11.3 10.1 15.1  
92 118.4 104.1 156.1

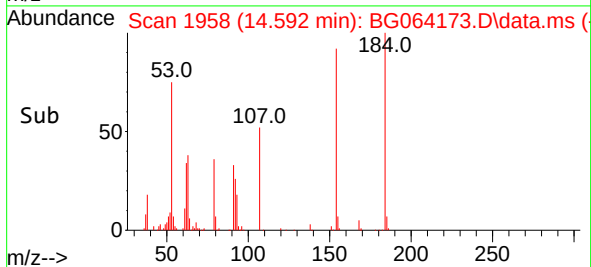
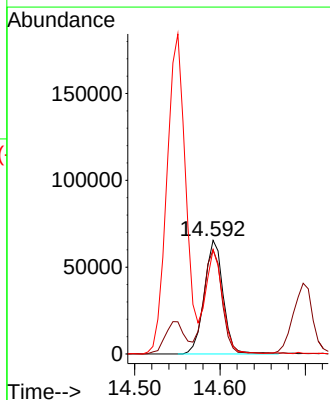
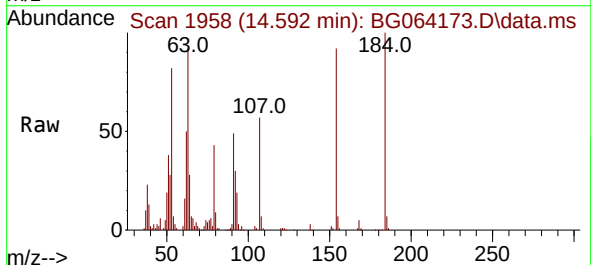
Manual Integrations  
APPROVED

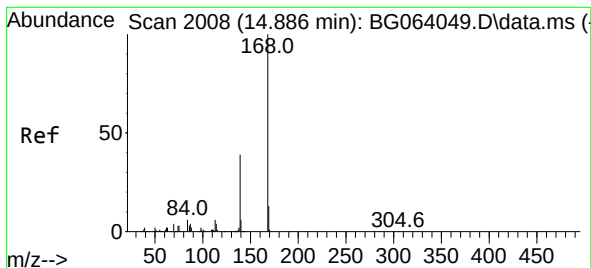
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#54  
2,4-Dinitrophenol  
Concen: 142.446 ng  
RT: 14.592 min Scan# 1958  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Tgt Ion:184 Resp: 100093  
Ion Ratio Lower Upper  
184 100  
63 91.8 57.5 86.3#  
154 91.9 52.3 78.5#





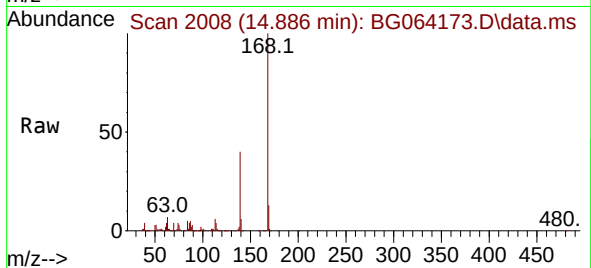
#55  
Dibenzofuran  
Concen: 44.074 ng  
RT: 14.886 min Scan# 2008  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS

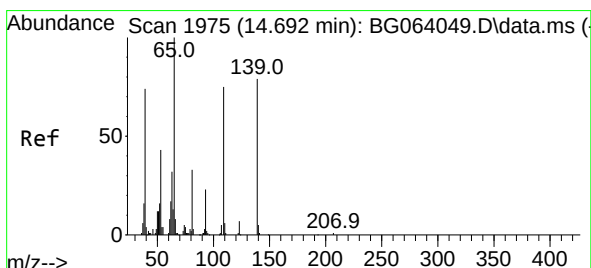
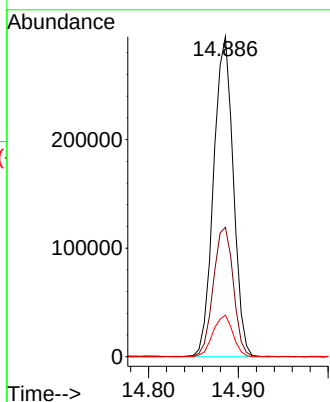
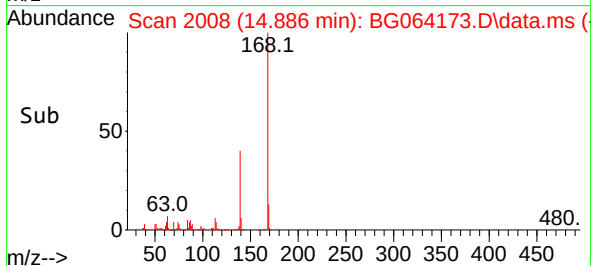


Tgt Ion:168 Resp: 448500  
Ion Ratio Lower Upper  
168 100  
139 40.4 31.1 46.7  
169 13.0 10.5 15.7

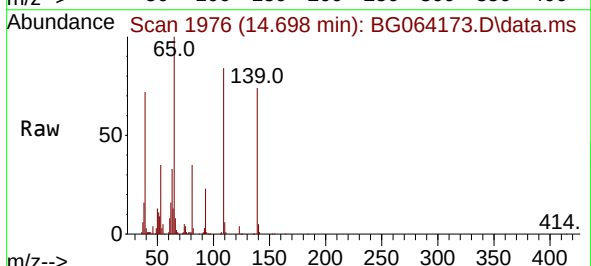
Manual Integrations

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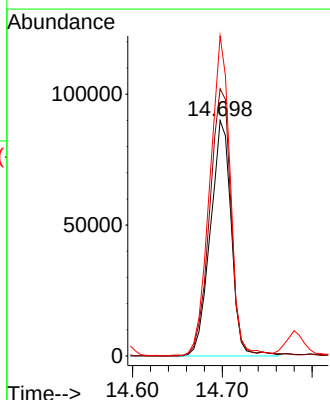
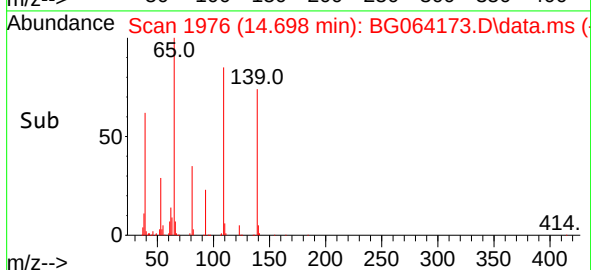
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

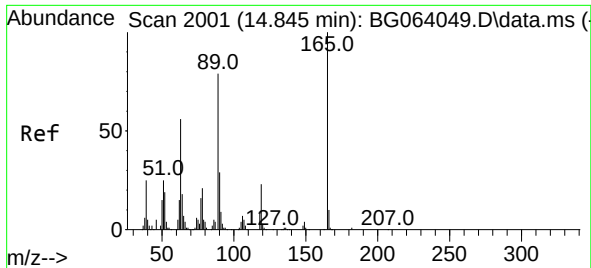


#56  
4-Nitrophenol  
Concen: 112.568 ng  
RT: 14.698 min Scan# 1976  
Delta R.T. 0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17



Tgt Ion:139 Resp: 144648  
Ion Ratio Lower Upper  
139 100  
109 113.5 74.9 114.9  
65 135.9 106.8 146.8





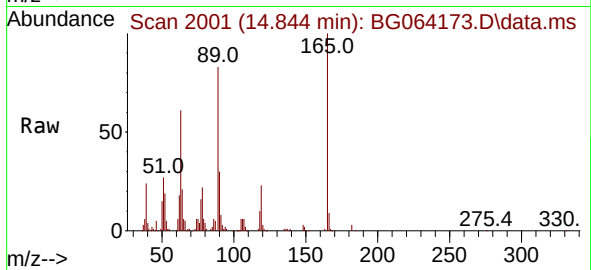
#57  
2,4-Dinitrotoluene  
Concen: 54.211 ng  
RT: 14.844 min Scan# 2001  
Delta R.T. -0.001 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS

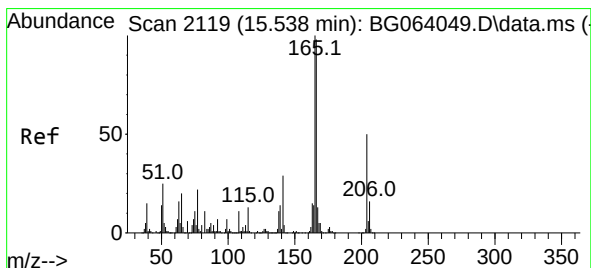
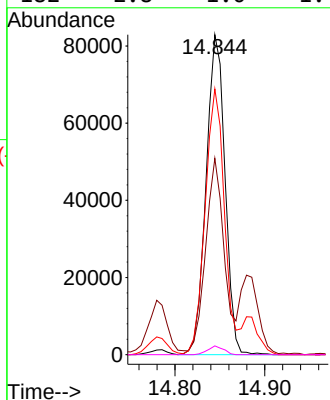
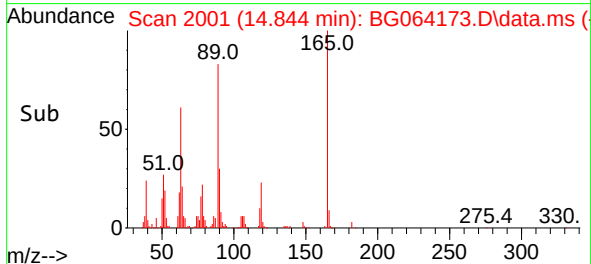


Tgt Ion:165 Resp: 12143  
Ion Ratio Lower Upper  
165 100  
63 61.4 45.0 67.6  
89 83.0 63.1 94.7  
182 2.8 1.0 1.4#

Manual Integrations

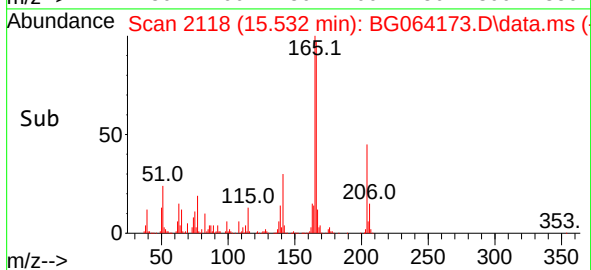
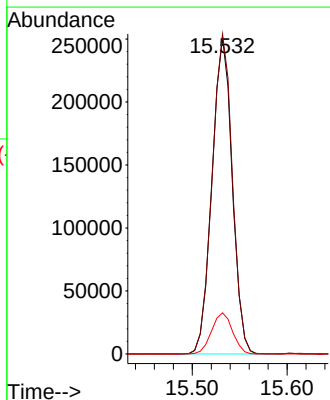
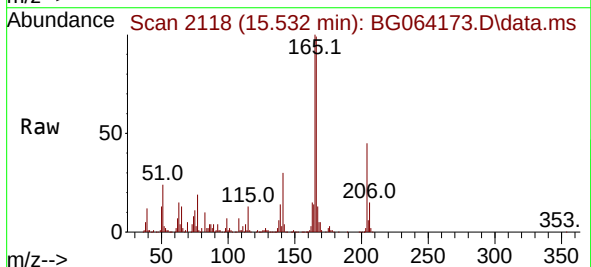
APPROVED

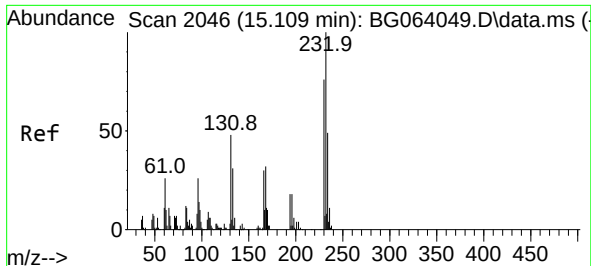
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#58  
Fluorene  
Concen: 46.987 ng  
RT: 15.532 min Scan# 2118  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

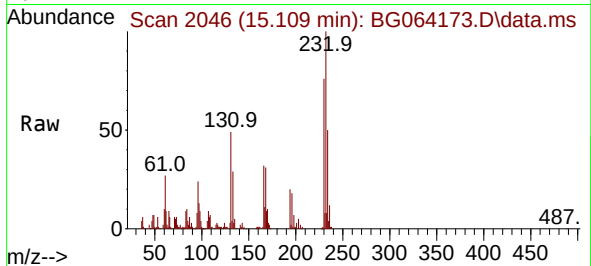
Tgt Ion:166 Resp: 372397  
Ion Ratio Lower Upper  
166 100  
165 101.1 81.8 122.8  
167 13.0 10.8 16.2





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 55.484 ng  
RT: 15.109 min Scan# 2046  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

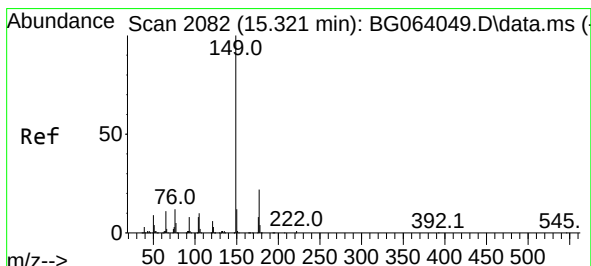
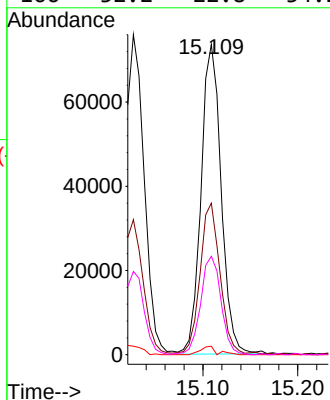
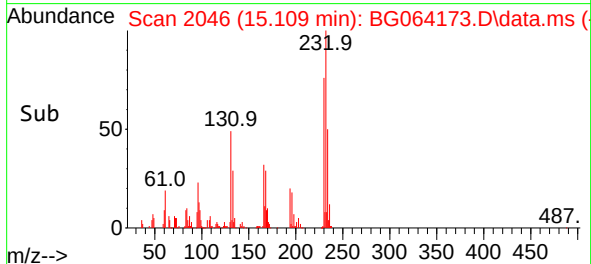
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



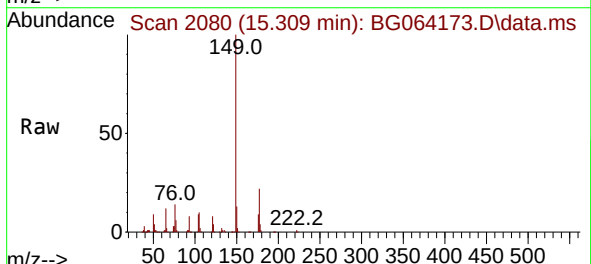
Tgt Ion:232 Resp: 108600  
Ion Ratio Lower Upper  
232 100  
131 49.2 36.3 54.5  
130 2.2 1.9 2.9  
166 32.2 22.8 34.2

Manual Integrations  
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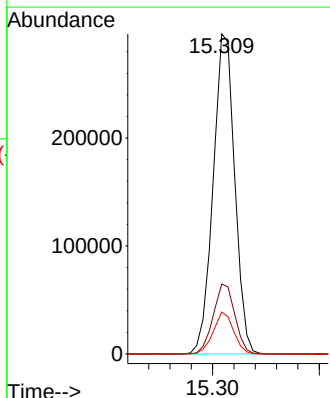
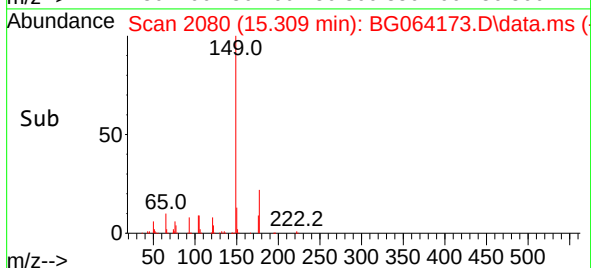
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

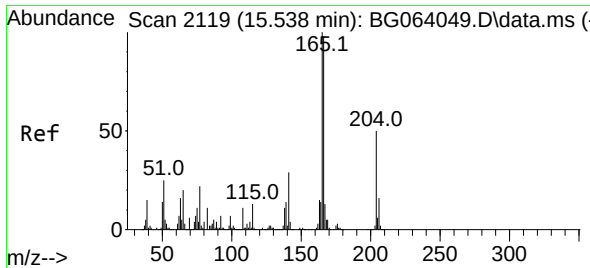


#60  
Diethylphthalate  
Concen: 48.408 ng  
RT: 15.309 min Scan# 2080  
Delta R.T. -0.012 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17



Tgt Ion:149 Resp: 416605  
Ion Ratio Lower Upper  
149 100  
177 21.8 17.4 26.2  
150 13.1 9.4 14.2





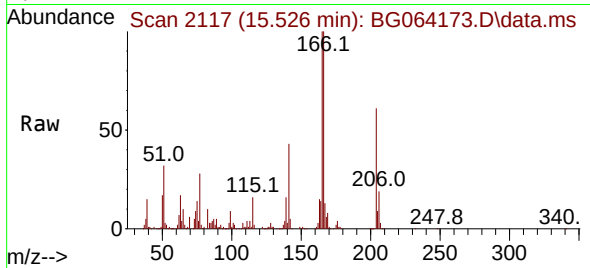
#61  
4-Chlorophenyl-phenylether  
Concen: 46.321 ng  
RT: 15.526 min Scan# 2117  
Delta R.T. -0.012 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS

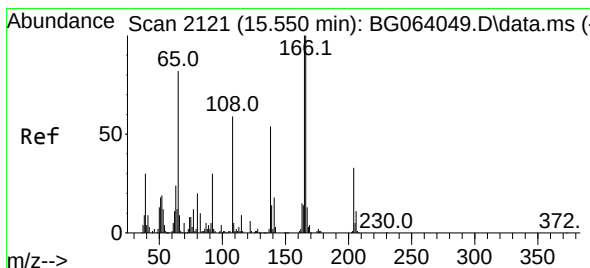
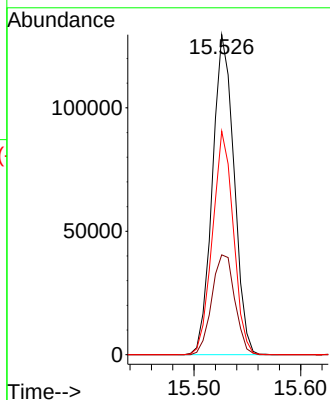
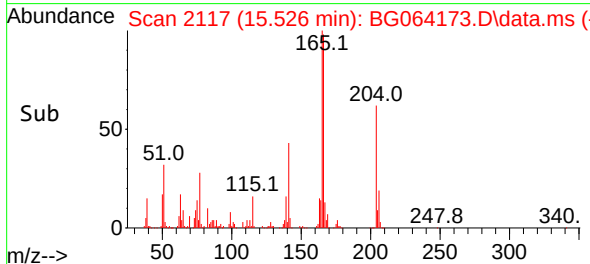


Tgt Ion:204 Resp: 182439  
Ion Ratio Lower Upper  
204 100  
206 31.2 25.5 38.3  
141 69.9 45.4 68.0

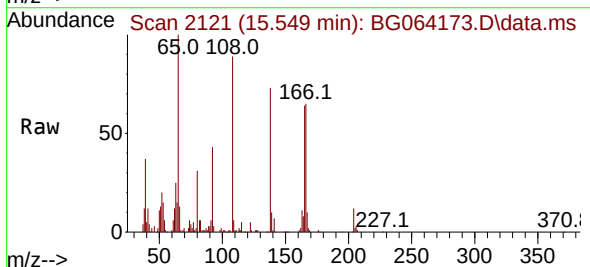
Manual Integrations

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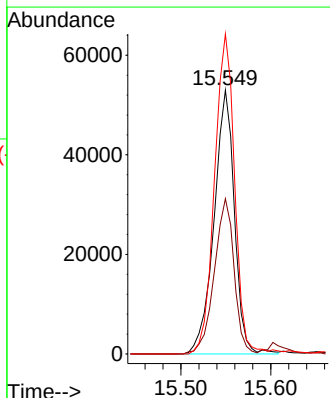
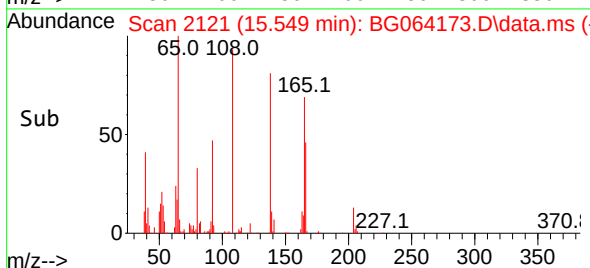
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



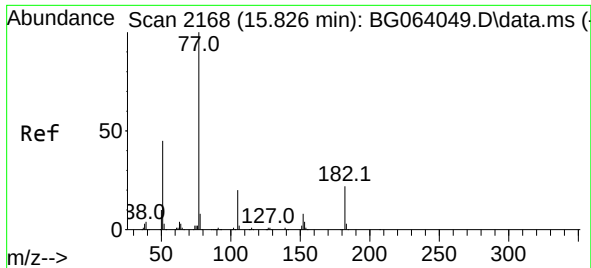
#62  
4-Nitroaniline  
Concen: 50.522 ng  
RT: 15.549 min Scan# 2121  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17



Tgt Ion:138 Resp: 83572  
Ion Ratio Lower Upper  
138 100  
92 58.9 36.1 76.1  
108 121.3 87.9 127.9

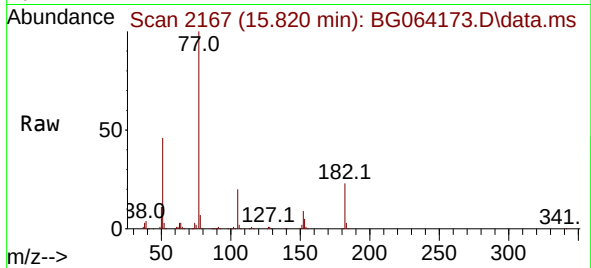






#63  
Azobenzene  
Concen: 44.742 ng  
RT: 15.820 min Scan# 2168  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

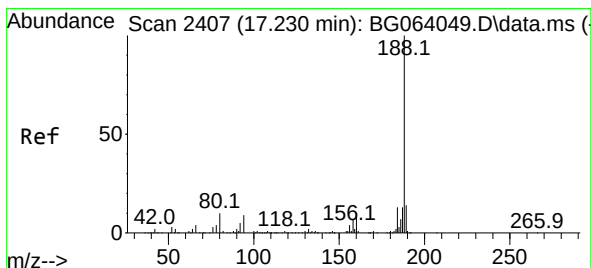
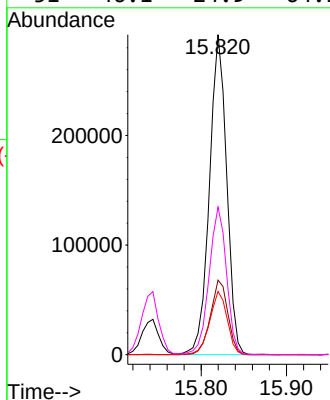
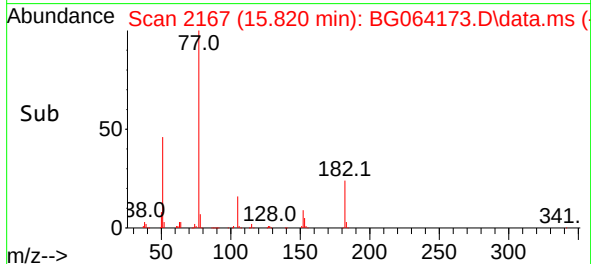
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



Tgt Ion: 77 Resp: 410884  
Ion Ratio Lower Upper  
77 100  
182 23.3 2.4 42.4  
105 19.8 0.0 40.0  
51 46.1 24.9 64.9

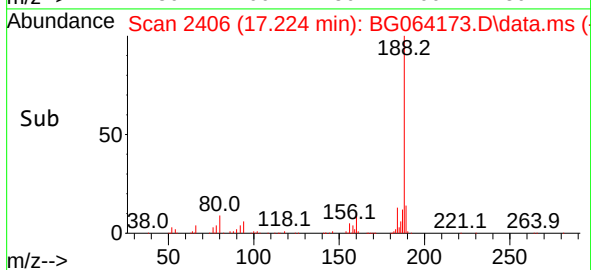
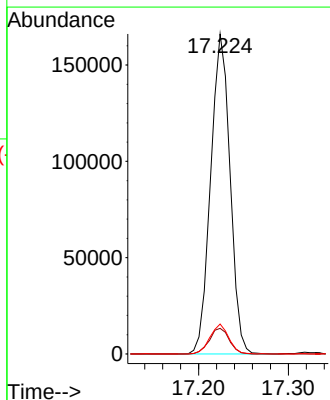
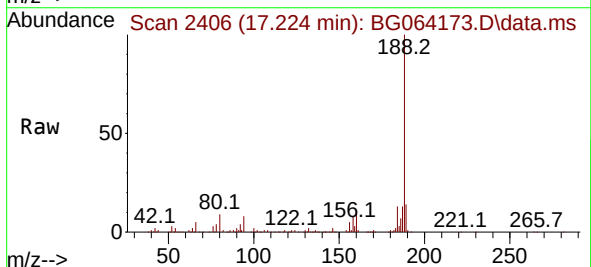
Manual Integrations  
APPROVED

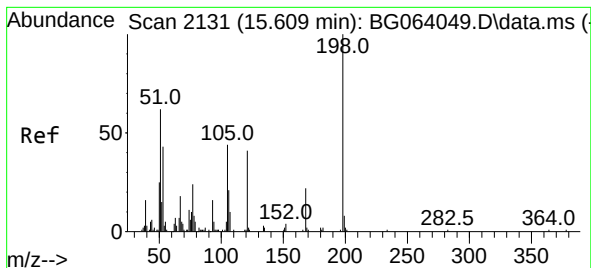
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.224 min Scan# 2406  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Tgt Ion:188 Resp: 248813  
Ion Ratio Lower Upper  
188 100  
94 8.0 6.9 10.3  
80 9.3 8.1 12.1





#65  
4,6-Dinitro-2-methylphenol  
Concen: 66.467 ng  
RT: 15.608 min Scan# 2131  
Delta R.T. -0.001 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

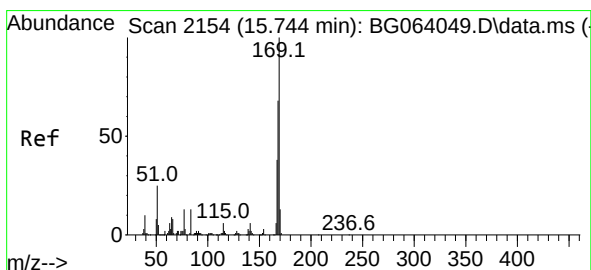
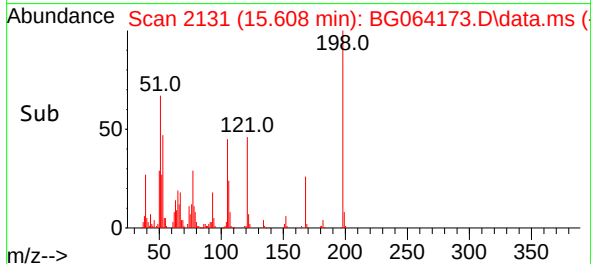
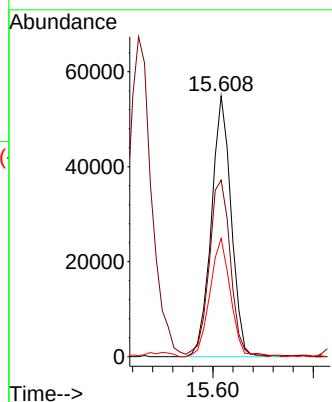
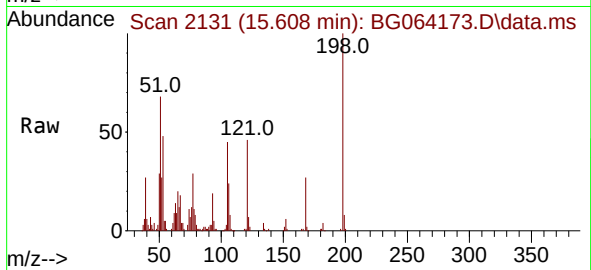
PB167393BS

Tgt Ion:198 Resp: 7552  
Ion Ratio Lower Upper  
198 100  
51 67.7 45.6 85.6  
105 45.4 25.3 65.3

Manual Integrations

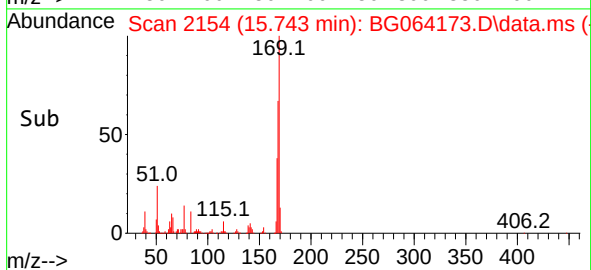
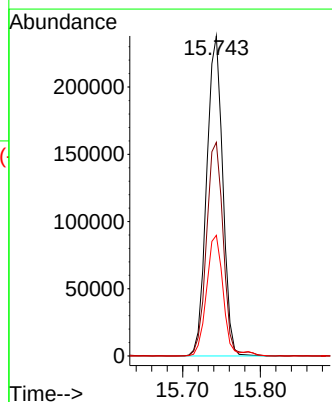
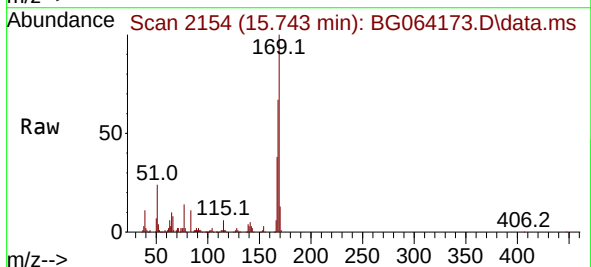
APPROVED

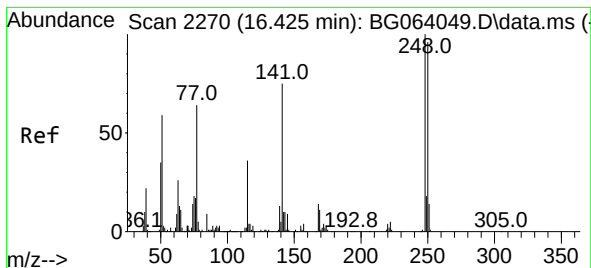
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#66  
n-Nitrosodiphenylamine  
Concen: 48.573 ng  
RT: 15.743 min Scan# 2154  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Tgt Ion:169 Resp: 342099  
Ion Ratio Lower Upper  
169 100  
168 66.7 54.1 81.1  
167 37.7 30.3 45.5





#67  
4-Bromophenyl-phenylether  
Concen: 50.786 ng  
RT: 16.419 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

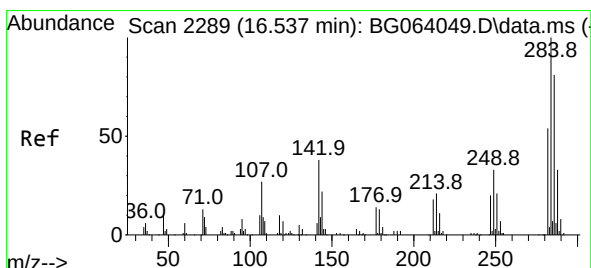
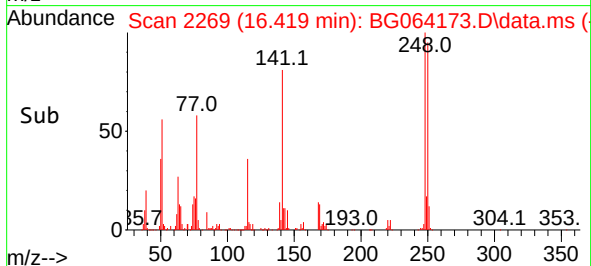
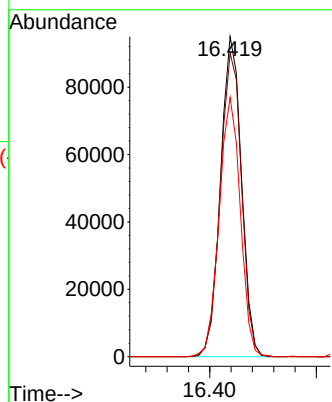
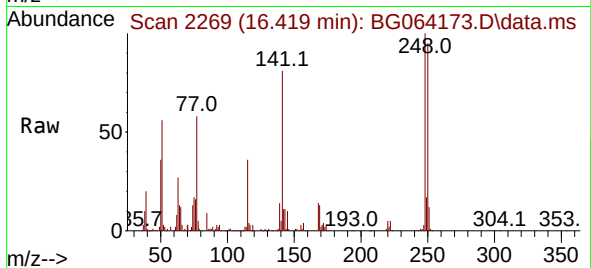
PB167393BS

Tgt Ion:248 Resp: 129419  
Ion Ratio Lower Upper  
248 100  
250 94.8 77.1 115.7  
141 81.0 59.8 89.8

Manual Integrations

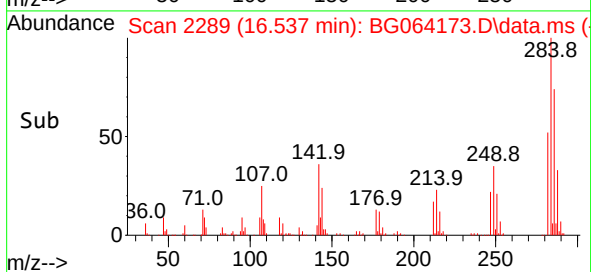
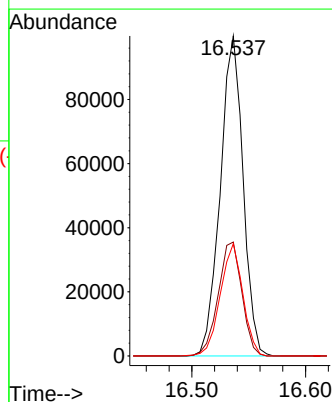
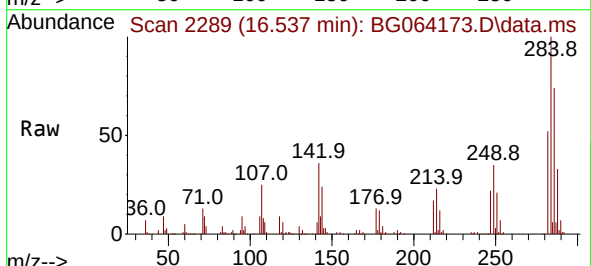
APPROVED

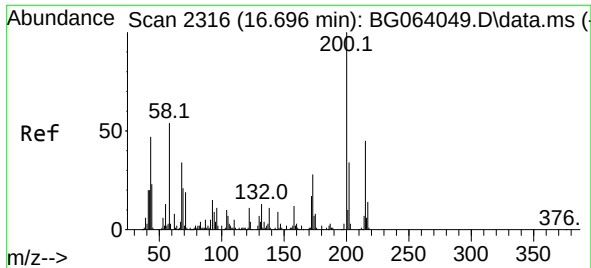
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#68  
Hexachlorobenzene  
Concen: 48.772 ng  
RT: 16.537 min Scan# 2289  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

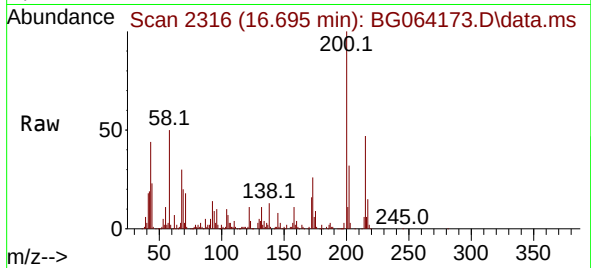
Tgt Ion:284 Resp: 139145  
Ion Ratio Lower Upper  
284 100  
142 35.6 30.6 45.8  
249 35.1 26.6 39.8





#69  
 Atrazine  
 Concen: 67.290 ng  
 RT: 16.695 min Scan# 21  
 Delta R.T. -0.001 min  
 Lab File: BG064173.D  
 Acq: 3 Apr 2025 19:17

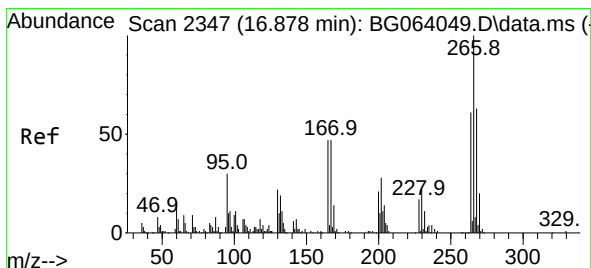
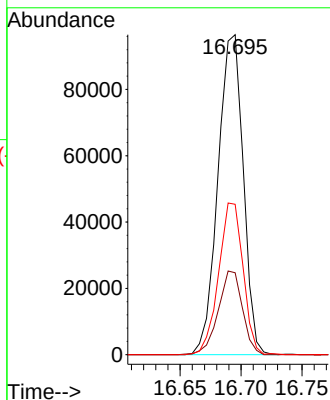
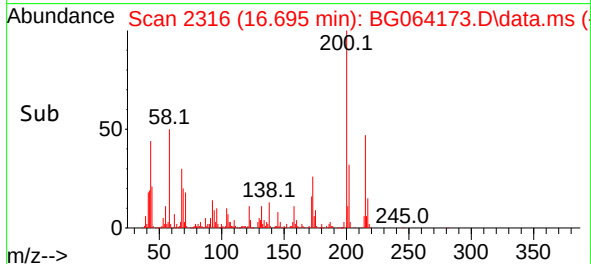
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB167393BS



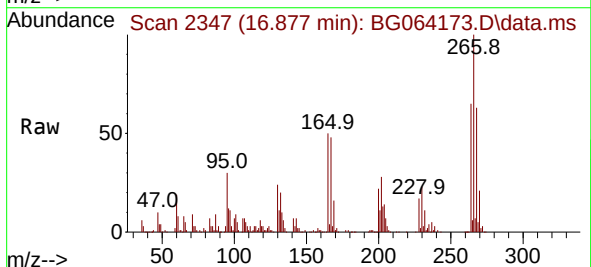
Tgt Ion:200 Resp: 13944  
 Ion Ratio Lower Upper  
 200 100  
 173 25.6 8.2 48.2  
 215 47.0 25.5 65.5

Manual Integrations  
 APPROVED

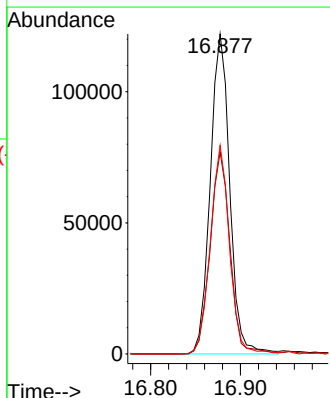
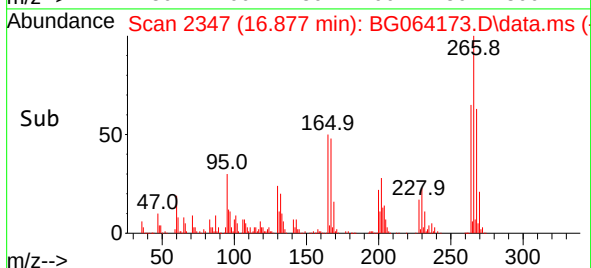
Reviewed By :Rahul Chavli 04/04/2025  
 Supervised By :Jagrut Upadhyay 04/04/2025

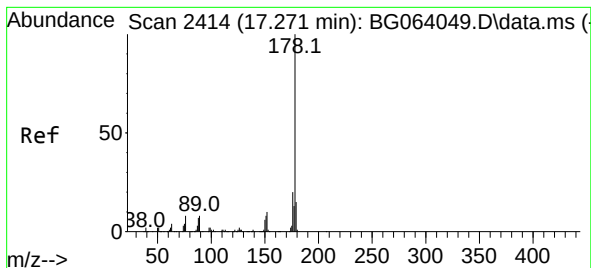


#70  
 Pentachlorophenol  
 Concen: 103.779 ng  
 RT: 16.877 min Scan# 2347  
 Delta R.T. -0.001 min  
 Lab File: BG064173.D  
 Acq: 3 Apr 2025 19:17



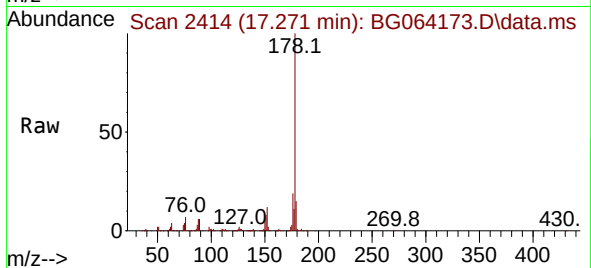
Tgt Ion:266 Resp: 183831  
 Ion Ratio Lower Upper  
 266 100  
 268 63.1 50.2 75.4  
 264 65.2 48.9 73.3





#71  
Phenanthrene  
Concen: 47.423 ng  
RT: 17.271 min Scan# 2414  
Delta R.T. -0.000 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

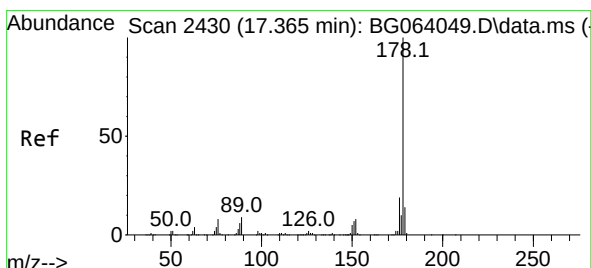
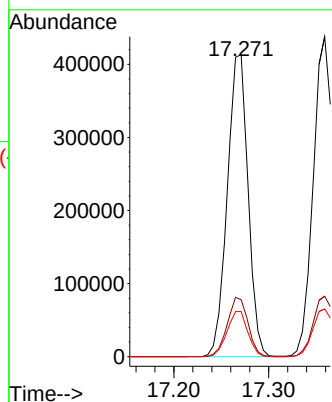
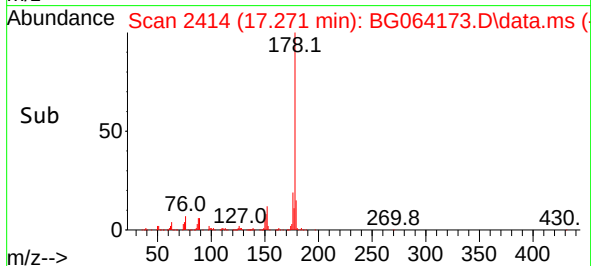
Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS



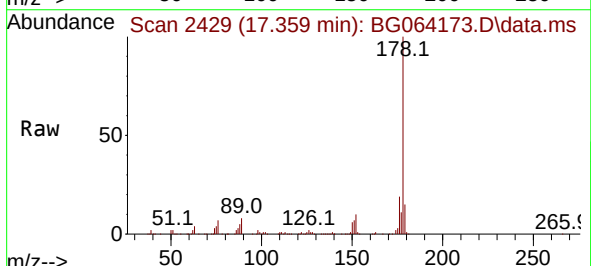
Tgt Ion:178 Resp: 629352  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.9 23.9  
179 15.0 12.2 18.2

Manual Integrations  
APPROVED

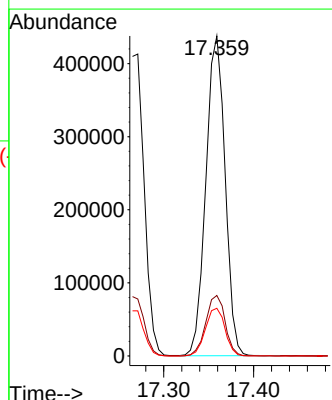
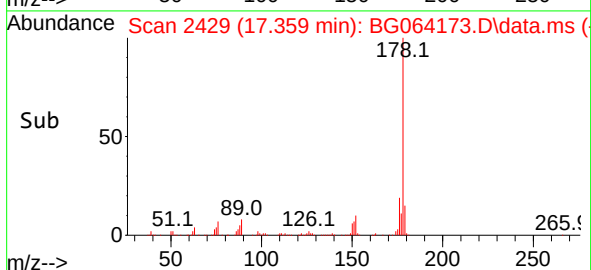
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025

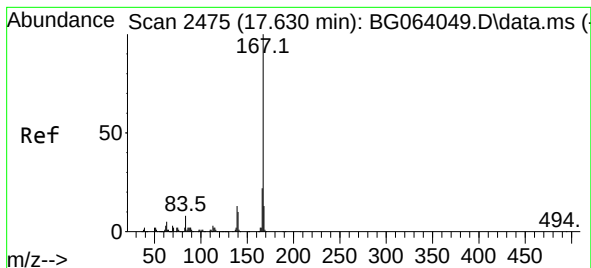


#72  
Anthracene  
Concen: 49.264 ng  
RT: 17.359 min Scan# 2429  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17



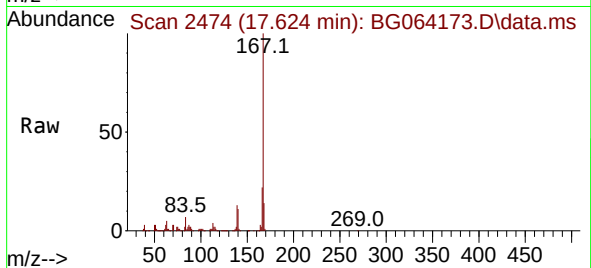
Tgt Ion:178 Resp: 650102  
Ion Ratio Lower Upper  
178 100  
176 18.9 14.8 22.2  
179 14.9 11.5 17.3





#73  
 Carbazole  
 Concen: 46.696 ng  
 RT: 17.624 min Scan# 2475  
 Delta R.T. -0.006 min  
 Lab File: BG064173.D  
 Acq: 3 Apr 2025 19:17

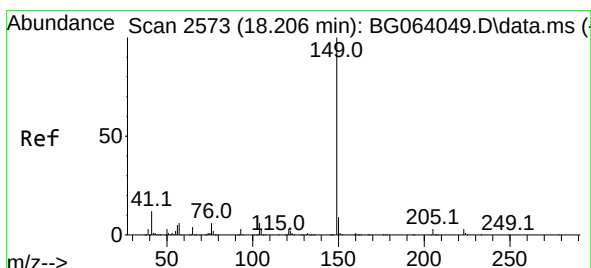
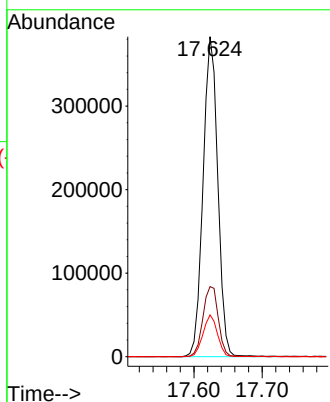
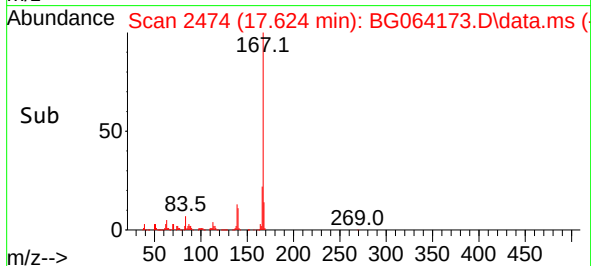
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB167393BS



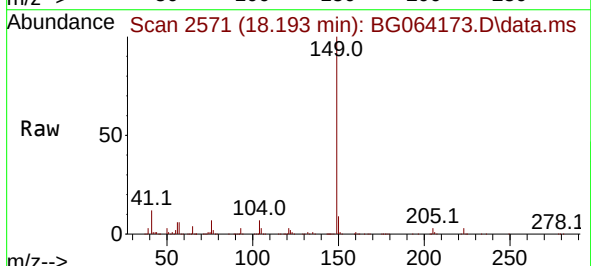
Tgt Ion:167 Resp: 575340  
 Ion Ratio Lower Upper  
 167 100  
 166 21.9 18.0 27.0  
 139 13.1 10.6 15.8

Manual Integrations  
 APPROVED

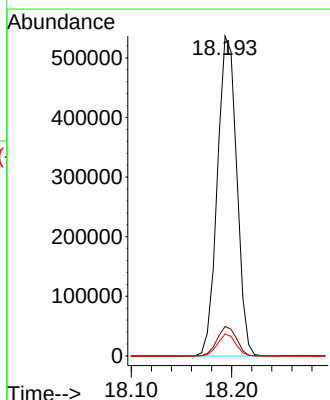
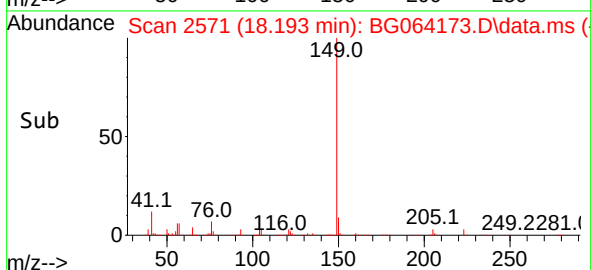
Reviewed By :Rahul Chavli 04/04/2025  
 Supervised By :Jagrut Upadhyay 04/04/2025

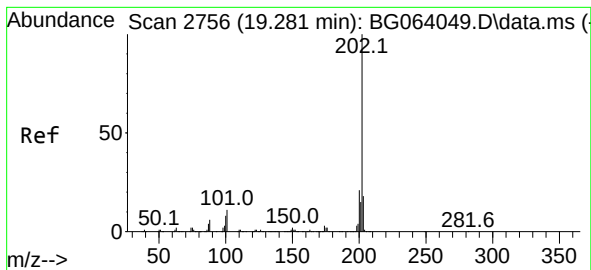


#74  
 Di-n-butylphthalate  
 Concen: 49.443 ng  
 RT: 18.193 min Scan# 2571  
 Delta R.T. -0.012 min  
 Lab File: BG064173.D  
 Acq: 3 Apr 2025 19:17



Tgt Ion:149 Resp: 717070  
 Ion Ratio Lower Upper  
 149 100  
 150 9.2 7.4 11.0  
 104 6.9 5.0 7.6





#75  
Fluoranthene  
Concen: 45.787 ng  
RT: 19.275 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

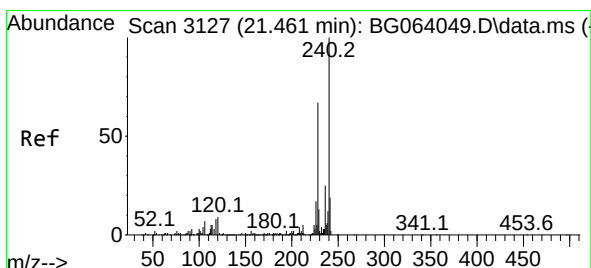
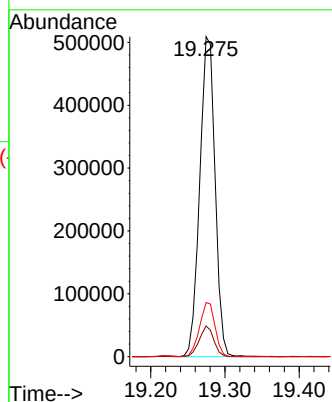
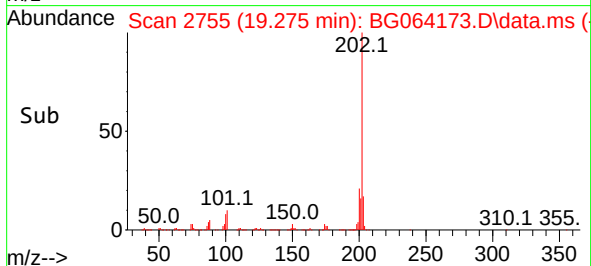
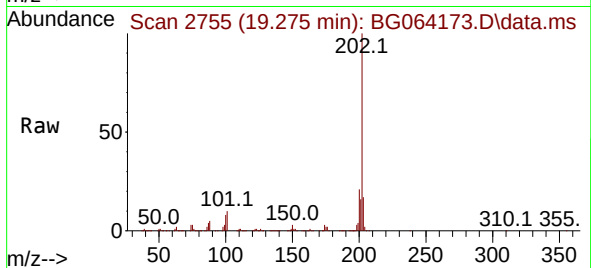
PB167393BS

Tgt Ion:202 Resp: 73255  
Ion Ratio Lower Upper  
202 100  
101 9.6 0.0 30.5  
203 16.9 0.0 38.3

Manual Integrations

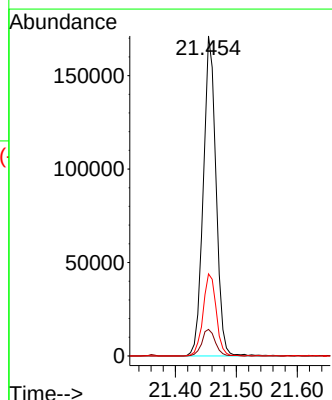
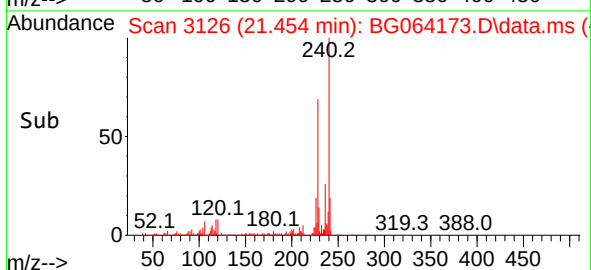
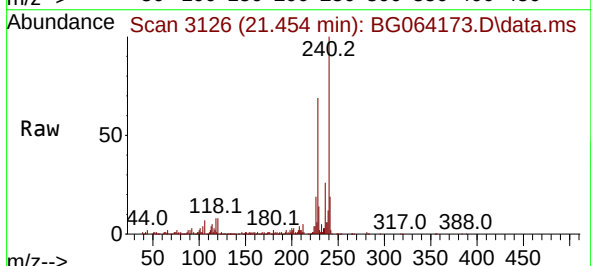
APPROVED

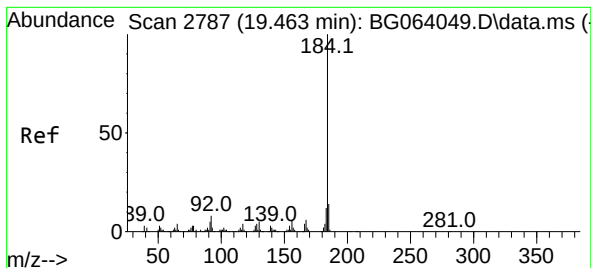
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.454 min Scan# 3126  
Delta R.T. -0.006 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Tgt Ion:240 Resp: 248832  
Ion Ratio Lower Upper  
240 100  
120 8.3 7.2 10.8  
236 25.7 20.2 30.2





#77

Benzidine

Concen: 50.459 ng

RT: 19.457 min Scan# 21

Delta R.T. -0.006 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS

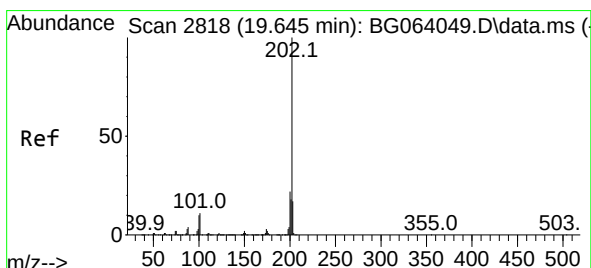
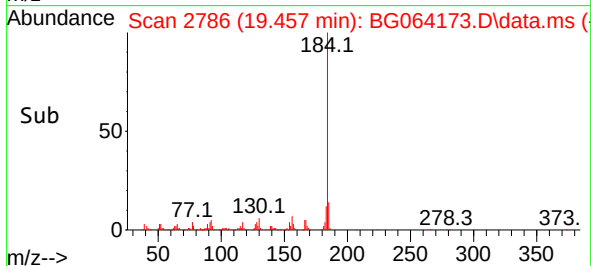
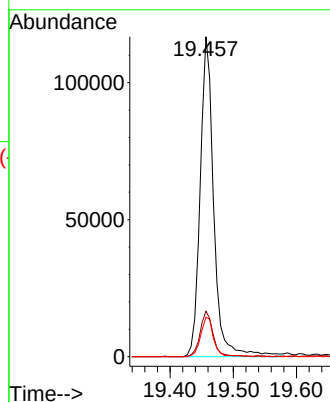
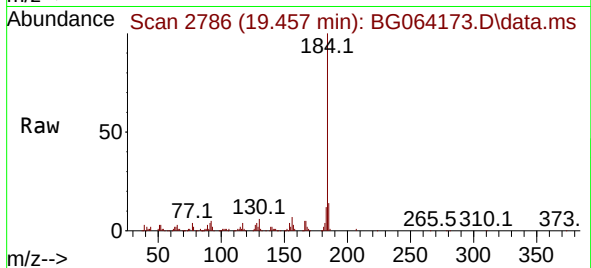
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 184   | Resp: | 173862 |
| Ion Ratio | Lower | Upper |        |
| 184       | 100   |       |        |
| 185       | 14.2  | 11.3  | 16.9   |
| 183       | 12.4  | 9.5   | 14.3   |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#78

Pyrene

Concen: 47.367 ng

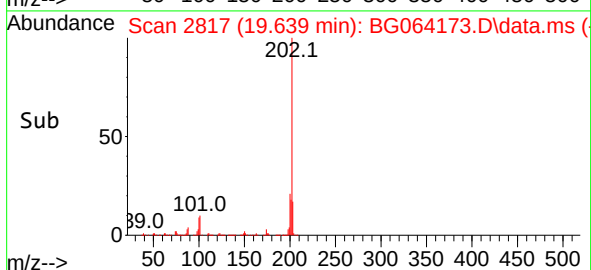
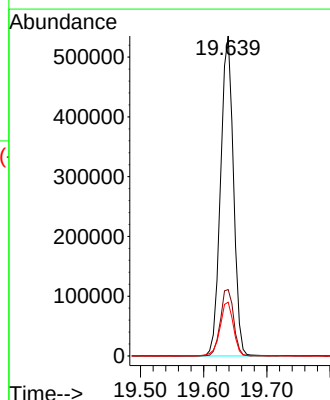
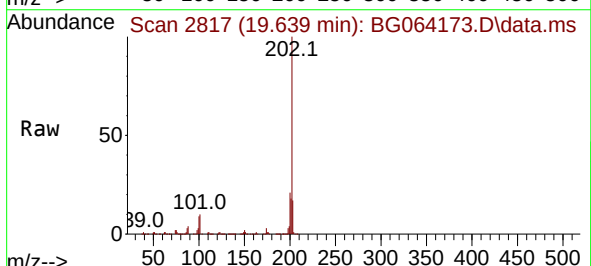
RT: 19.639 min Scan# 2817

Delta R.T. -0.006 min

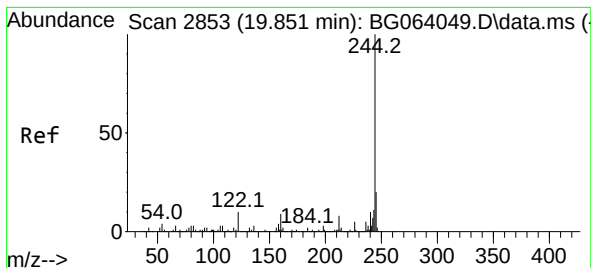
Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 759775 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.8  | 17.3  | 25.9   |
| 203       | 16.8  | 13.6  | 20.4   |







#79

Terphenyl-d14

Concen: 93.259 ng

RT: 19.844 min Scan# 21

Delta R.T. -0.006 min

Lab File: BG064173.D

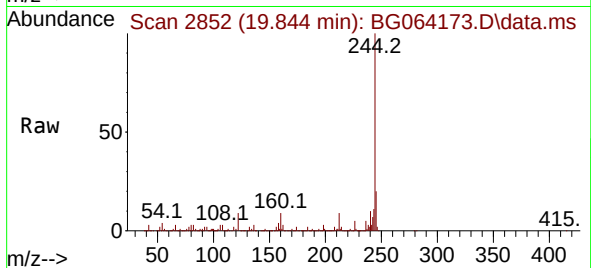
Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS



Tgt Ion:244 Resp: 114766

Ion Ratio Lower Upper

244 100

212 8.8 6.2 9.4

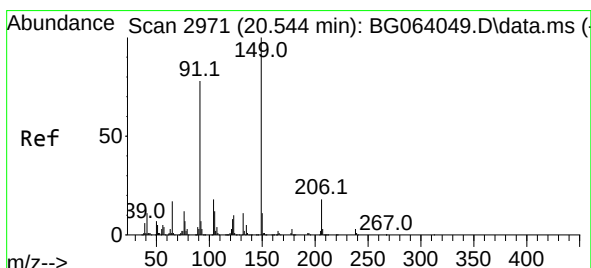
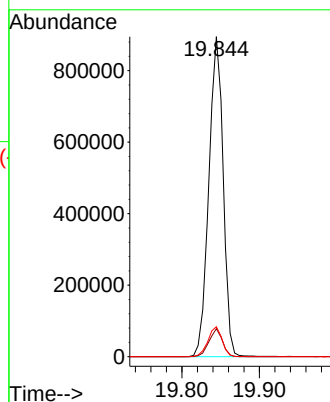
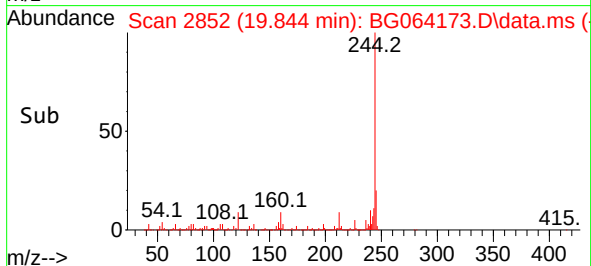
122 9.3 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#80

Butylbenzylphthalate

Concen: 53.789 ng

RT: 20.538 min Scan# 2970

Delta R.T. -0.006 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

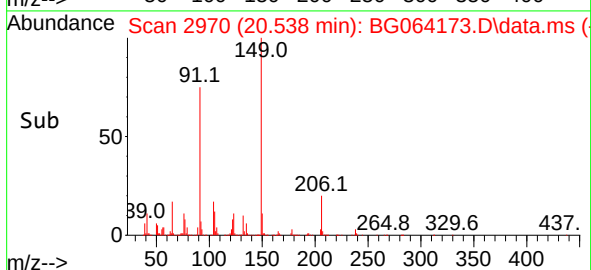
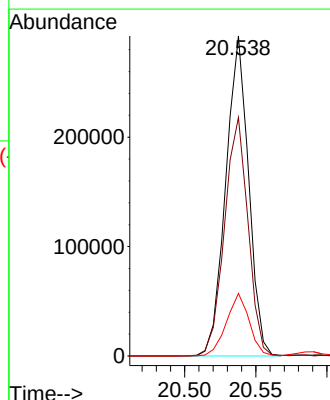
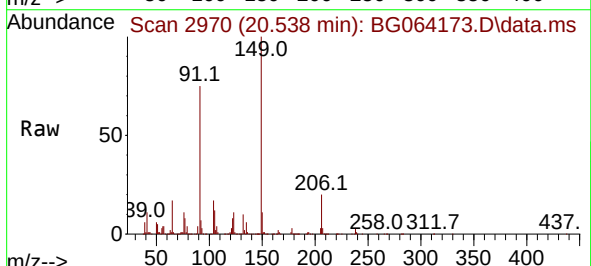
Tgt Ion:149 Resp: 326610

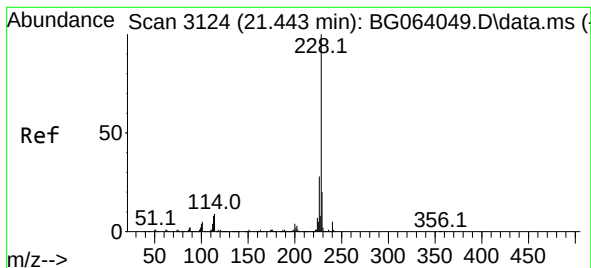
Ion Ratio Lower Upper

149 100

91 74.5 62.0 93.0

206 19.5 14.6 21.8





#81

Benzo(a)anthracene

Concen: 48.105 ng

RT: 21.437 min Scan# 3124

Delta R.T. -0.006 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS

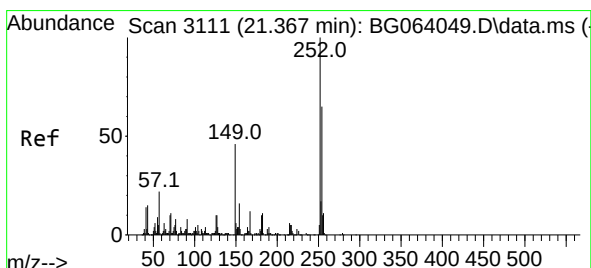
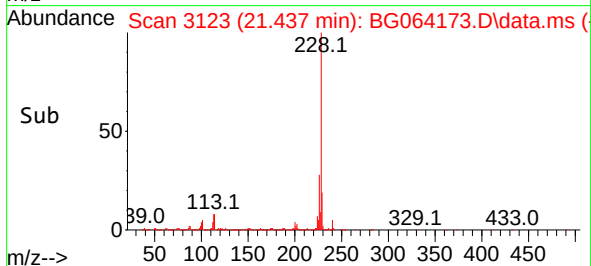
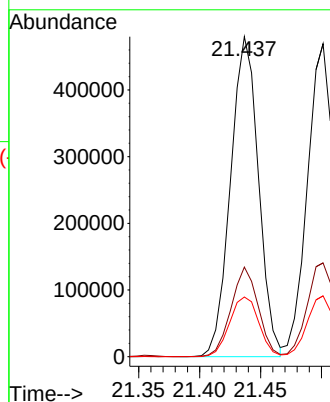
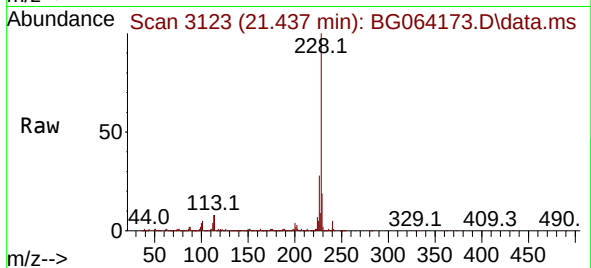
Tgt Ion:228 Resp: 766772  
 Ion Ratio Lower Upper  
 228 100  
 226 28.0 22.2 33.2  
 229 18.7 16.4 24.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#82

3,3'-Dichlorobenzidine

Concen: 23.386 ng

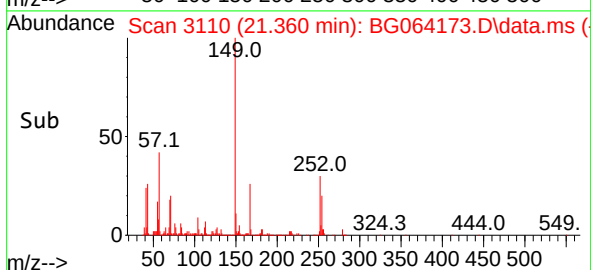
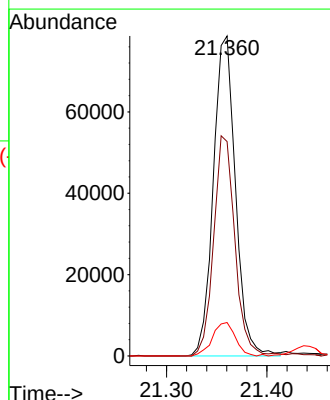
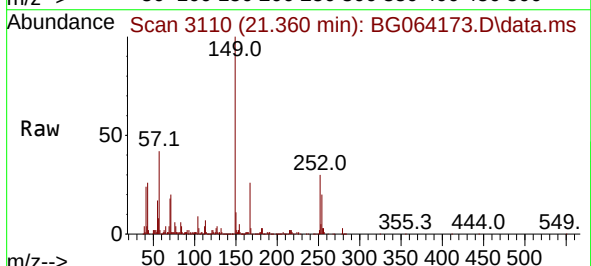
RT: 21.360 min Scan# 3110

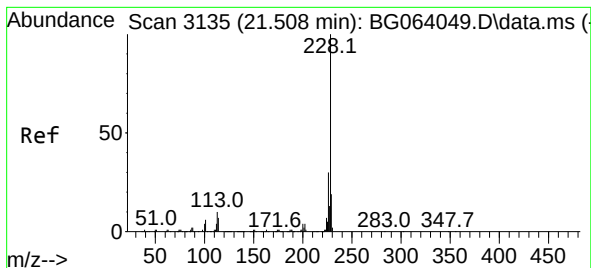
Delta R.T. -0.006 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

Tgt Ion:252 Resp: 120638  
 Ion Ratio Lower Upper  
 252 100  
 254 67.0 52.1 78.1  
 126 10.4 7.8 11.8





#83

Chrysene

Concen: 45.731 ng

RT: 21.501 min Scan# 3135

Delta R.T. -0.006 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

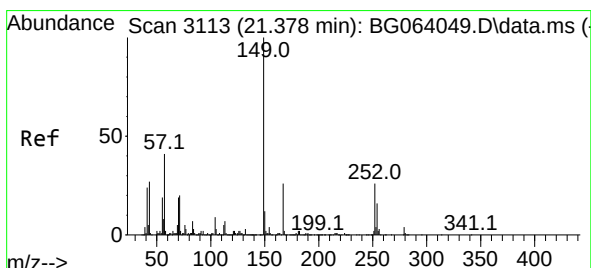
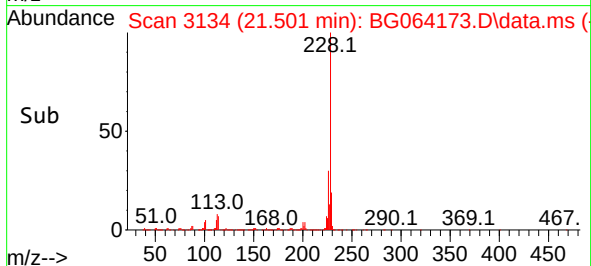
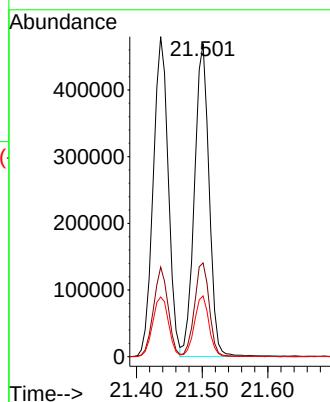
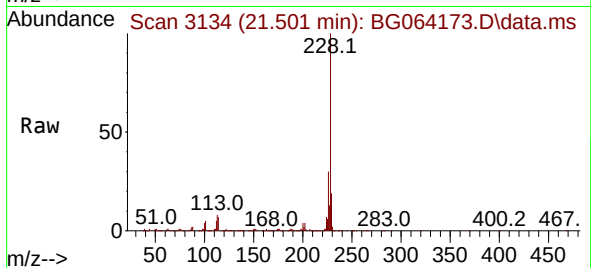
PB167393BS

Tgt Ion:228 Resp: 727012  
 Ion Ratio Lower Upper  
 228 100  
 226 30.0 23.9 35.9  
 229 19.4 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025  
 Supervised By :Jagrut Upadhyay 04/04/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 54.493 ng

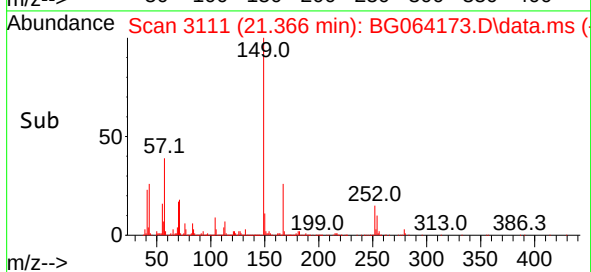
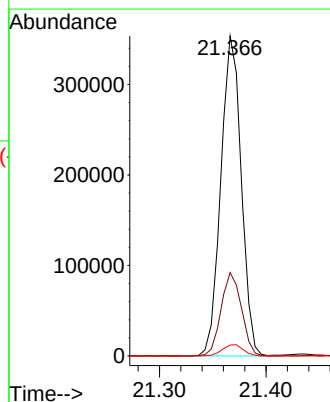
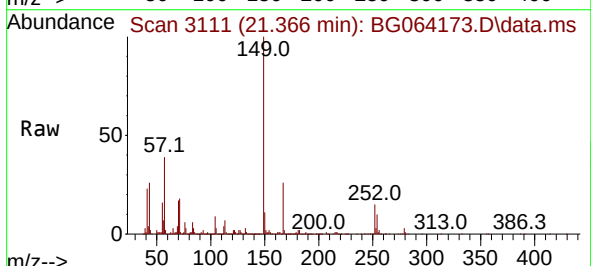
RT: 21.366 min Scan# 3111

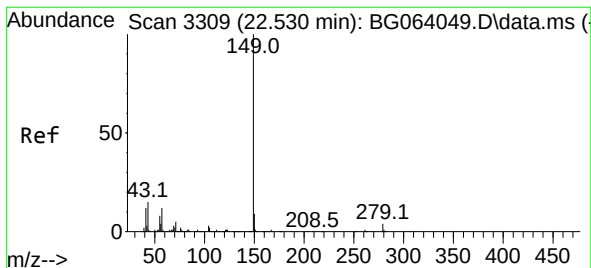
Delta R.T. -0.012 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

Tgt Ion:149 Resp: 469749  
 Ion Ratio Lower Upper  
 149 100  
 167 26.0 21.0 31.6  
 279 3.4 2.8 4.2





#85

Di-n-octyl phthalate

Concen: 54.390 ng

RT: 22.512 min Scan# 31

Delta R.T. -0.018 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS

Tgt Ion:149 Resp: 80871

Ion Ratio Lower Upper

149 100

167 1.5 1.2 1.8

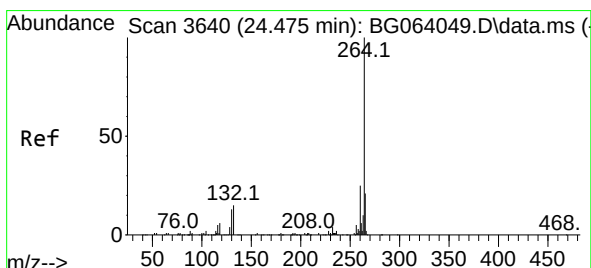
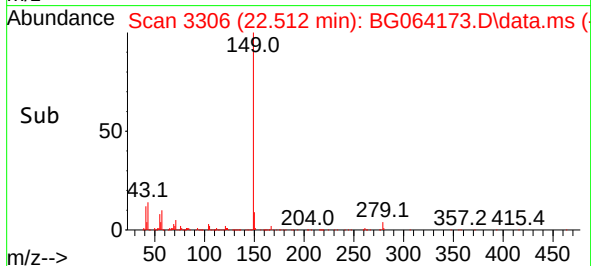
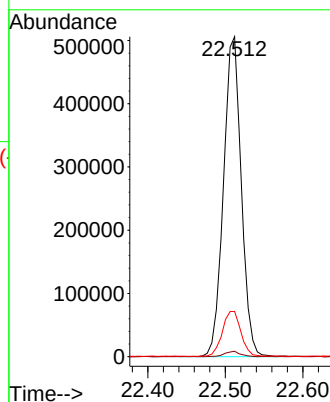
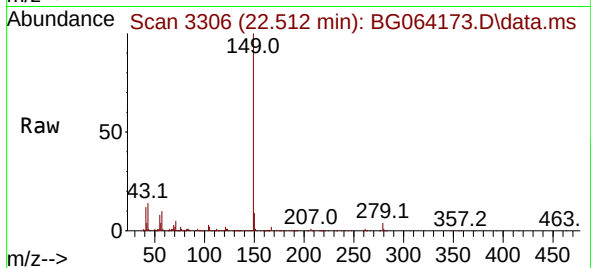
43 14.7 12.6 19.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.468 min Scan# 3639

Delta R.T. -0.006 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

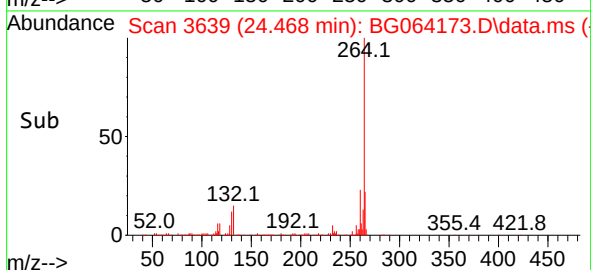
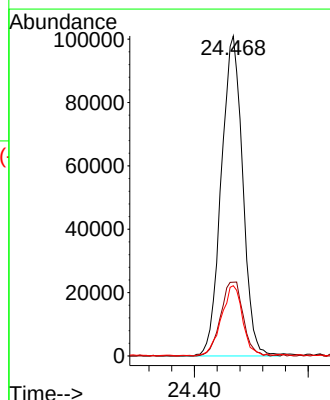
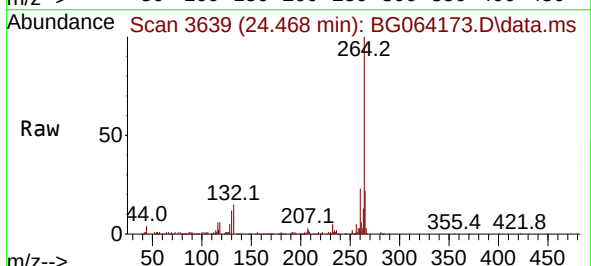
Tgt Ion:264 Resp: 264036

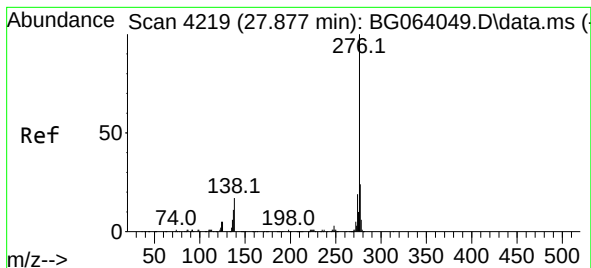
Ion Ratio Lower Upper

264 100

260 23.1 19.6 29.4

265 22.0 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 50.846 ng

RT: 27.870 min Scan# 41

Delta R.T. -0.006 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS

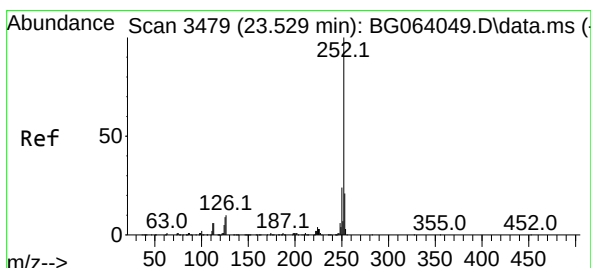
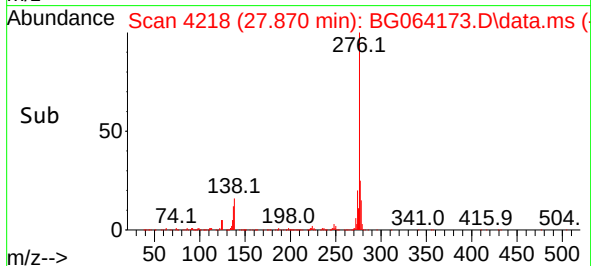
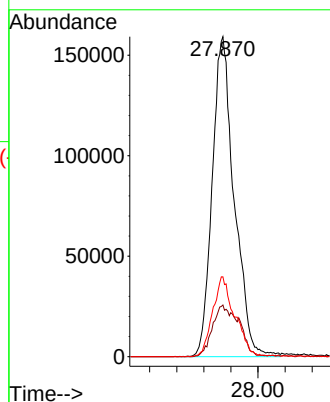
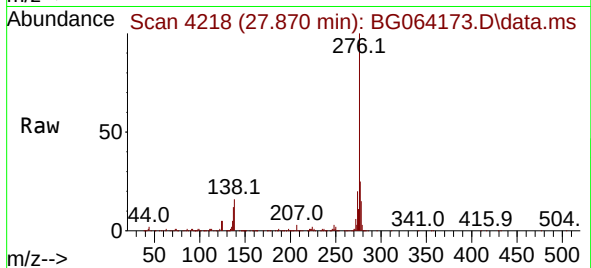
Tgt Ion:276 Resp: 898254  
 Ion Ratio Lower Upper  
 276 100  
 138 19.5 12.1 18.1  
 277 25.2 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#88

Benzo(b)fluoranthene

Concen: 47.717 ng

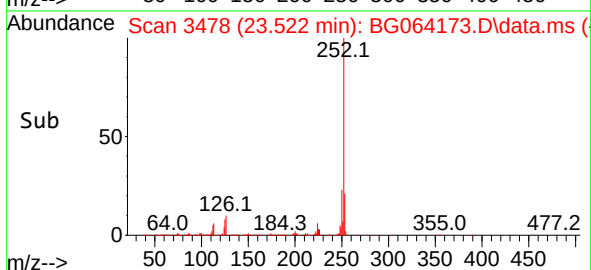
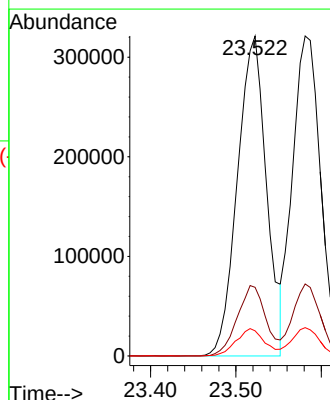
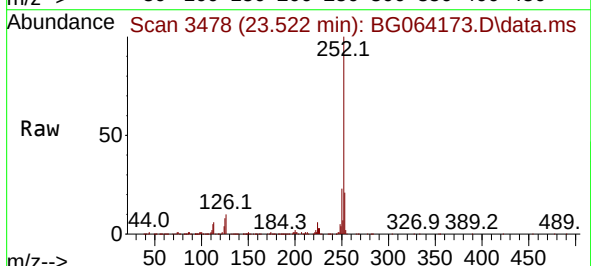
RT: 23.522 min Scan# 3478

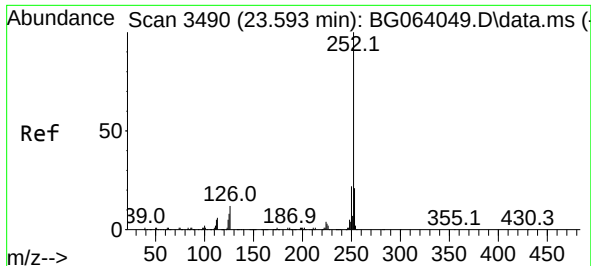
Delta R.T. -0.006 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

Tgt Ion:252 Resp: 761654  
 Ion Ratio Lower Upper  
 252 100  
 253 21.5 17.0 25.4  
 125 7.9 7.4 11.2





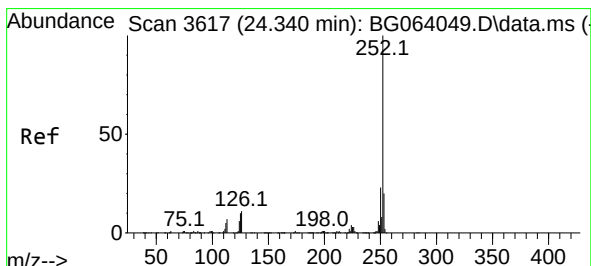
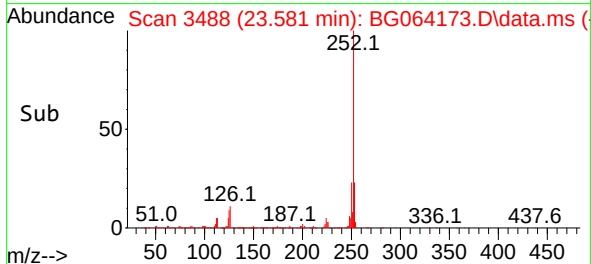
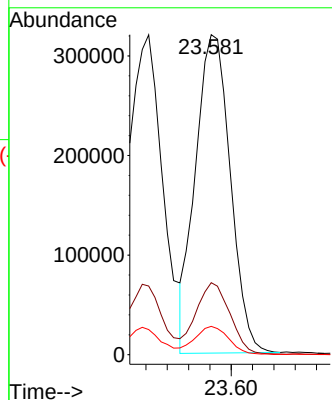
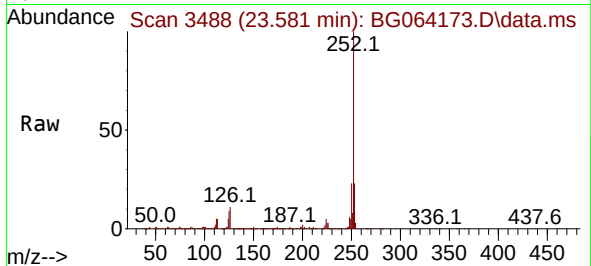
#89  
Benzo(k)fluoranthene  
Concen: 45.321 ng  
RT: 23.581 min Scan# 3490  
Delta R.T. -0.012 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Instrument :  
BNA\_G  
ClientSampleId :  
PB167393BS

Tgt Ion:252 Resp: 72572  
Ion Ratio Lower Upper  
252 100  
253 22.5 16.8 25.2  
125 8.9 6.9 10.3

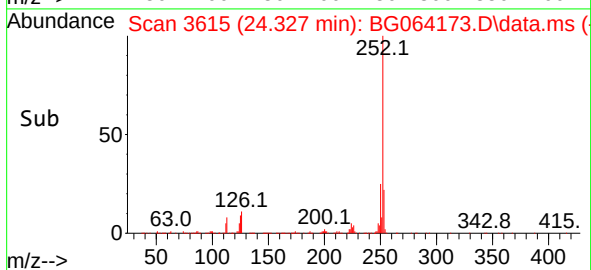
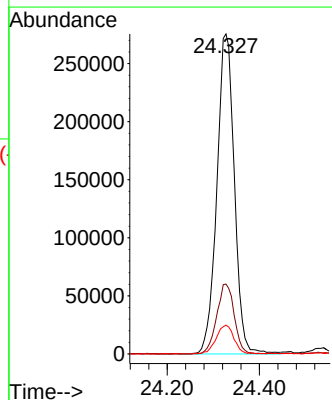
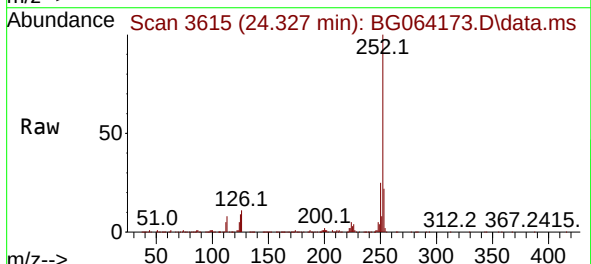
Manual Integrations  
APPROVED

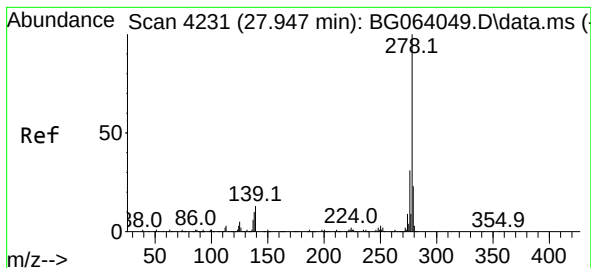
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#90  
Benzo(a)pyrene  
Concen: 50.952 ng  
RT: 24.327 min Scan# 3615  
Delta R.T. -0.012 min  
Lab File: BG064173.D  
Acq: 3 Apr 2025 19:17

Tgt Ion:252 Resp: 724310  
Ion Ratio Lower Upper  
252 100  
253 21.9 16.2 24.2  
125 9.0 7.8 11.6





#91

Dibenzo(a,h)anthracene

Concen: 51.021 ng

RT: 27.929 min Scan# 4397

Delta R.T. -0.018 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

Instrument :

BNA\_G

ClientSampleId :

PB167393BS

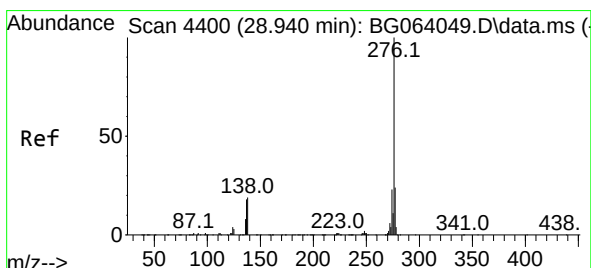
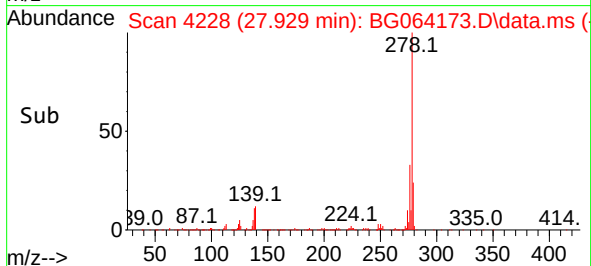
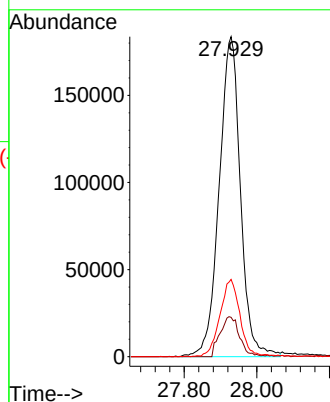
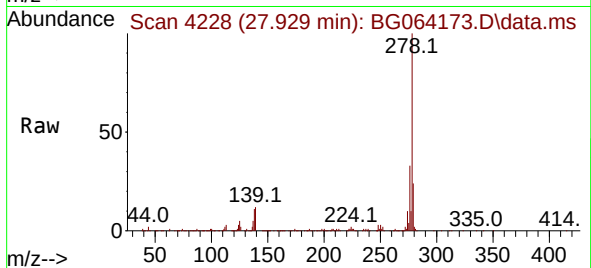
Tgt Ion:278 Resp: 747239  
 Ion Ratio Lower Upper  
 278 100  
 139 12.3 10.2 15.2  
 279 24.1 18.1 27.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#92

Benzo(g,h,i)perylene

Concen: 47.120 ng

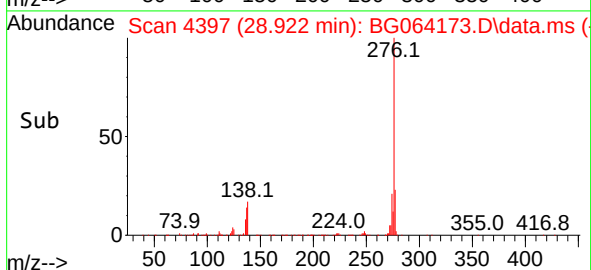
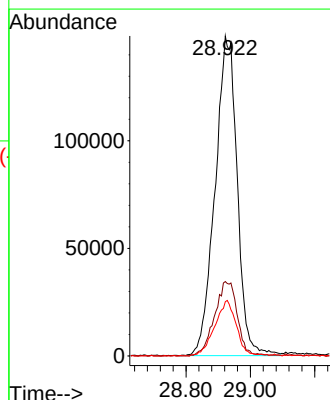
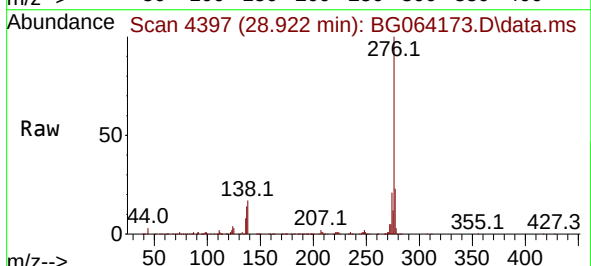
RT: 28.922 min Scan# 4397

Delta R.T. -0.018 min

Lab File: BG064173.D

Acq: 3 Apr 2025 19:17

Tgt Ion:276 Resp: 708548  
 Ion Ratio Lower Upper  
 276 100  
 277 23.3 19.5 29.3  
 138 16.9 15.4 23.0



## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-001-01-05MS | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-05MS             | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064135.D        | 1         | 03/31/25 11:00 | 04/01/25 15:03 | PB167393      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|-----------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                             |       |           |      |            |       |
| 100-52-7       | Benzaldehyde                | 46.4  |           | 3.90 | 10.0       | ug/L  |
| 108-95-2       | Phenol                      | 12.9  |           | 0.91 | 5.00       | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether     | 46.5  |           | 0.81 | 5.00       | ug/L  |
| 95-57-8        | 2-Chlorophenol              | 38.6  |           | 0.58 | 5.00       | ug/L  |
| 95-48-7        | 2-Methylphenol              | 32.9  |           | 1.10 | 5.00       | ug/L  |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 44.3  |           | 1.30 | 5.00       | ug/L  |
| 98-86-2        | Acetophenone                | 50.9  |           | 0.74 | 5.00       | ug/L  |
| 65794-96-9     | 3+4-Methylphenols           | 29.0  |           | 1.10 | 10.0       | ug/L  |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 49.7  |           | 1.40 | 2.50       | ug/L  |
| 67-72-1        | Hexachloroethane            | 38.0  |           | 0.65 | 5.00       | ug/L  |
| 98-95-3        | Nitrobenzene                | 55.6  |           | 0.76 | 5.00       | ug/L  |
| 78-59-1        | Isophorone                  | 54.7  |           | 0.75 | 5.00       | ug/L  |
| 88-75-5        | 2-Nitrophenol               | 59.0  |           | 1.80 | 5.00       | ug/L  |
| 105-67-9       | 2,4-Dimethylphenol          | 65.4  |           | 1.90 | 5.00       | ug/L  |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 51.1  |           | 0.68 | 5.00       | ug/L  |
| 120-83-2       | 2,4-Dichlorophenol          | 52.3  |           | 0.52 | 5.00       | ug/L  |
| 91-20-3        | Naphthalene                 | 45.7  |           | 0.50 | 5.00       | ug/L  |
| 106-47-8       | 4-Chloroaniline             | 21.1  |           | 0.84 | 5.00       | ug/L  |
| 87-68-3        | Hexachlorobutadiene         | 42.2  |           | 0.54 | 5.00       | ug/L  |
| 105-60-2       | Caprolactam                 | 9.40  | J         | 1.10 | 10.0       | ug/L  |
| 59-50-7        | 4-Chloro-3-methylphenol     | 47.8  |           | 0.59 | 5.00       | ug/L  |
| 91-57-6        | 2-Methylnaphthalene         | 45.4  |           | 0.56 | 5.00       | ug/L  |
| 77-47-4        | Hexachlorocyclopentadiene   | 230   | E         | 3.60 | 10.0       | ug/L  |
| 88-06-2        | 2,4,6-Trichlorophenol       | 61.6  |           | 0.51 | 5.00       | ug/L  |
| 95-95-4        | 2,4,5-Trichlorophenol       | 61.5  |           | 0.62 | 5.00       | ug/L  |
| 92-52-4        | 1,1-Biphenyl                | 53.0  |           | 0.53 | 5.00       | ug/L  |
| 91-58-7        | 2-Chloronaphthalene         | 53.4  |           | 0.61 | 5.00       | ug/L  |
| 88-74-4        | 2-Nitroaniline              | 59.1  |           | 1.30 | 5.00       | ug/L  |
| 131-11-3       | Dimethylphthalate           | 54.8  |           | 0.61 | 5.00       | ug/L  |



## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25     |
| Project:           | RFP 905                | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-001-01-05MS | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-05MS             | Matrix:         | Water        |
| Analytical Method: | SW8270                 | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N        | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0    | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064135.D        | 1         | 03/31/25 11:00 | 04/01/25 15:03 | PB167393      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|------------|----------------------------|-------|-----------|------|------------|-------|
| 208-96-8   | Acenaphthylene             | 56.3  |           | 0.75 | 5.00       | ug/L  |
| 606-20-2   | 2,6-Dinitrotoluene         | 55.4  |           | 0.92 | 5.00       | ug/L  |
| 99-09-2    | 3-Nitroaniline             | 27.7  |           | 1.10 | 5.00       | ug/L  |
| 83-32-9    | Acenaphthene               | 53.0  |           | 0.55 | 5.00       | ug/L  |
| 51-28-5    | 2,4-Dinitrophenol          | 140   | E         | 6.00 | 10.0       | ug/L  |
| 100-02-7   | 4-Nitrophenol              | 36.4  |           | 2.40 | 10.0       | ug/L  |
| 132-64-9   | Dibenzofuran               | 50.6  |           | 0.61 | 5.00       | ug/L  |
| 121-14-2   | 2,4-Dinitrotoluene         | 59.5  |           | 1.20 | 5.00       | ug/L  |
| 84-66-2    | Diethylphthalate           | 52.9  |           | 0.69 | 5.00       | ug/L  |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 51.1  |           | 0.68 | 5.00       | ug/L  |
| 86-73-7    | Fluorene                   | 53.7  |           | 0.63 | 5.00       | ug/L  |
| 100-01-6   | 4-Nitroaniline             | 53.7  |           | 1.50 | 5.00       | ug/L  |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 70.3  |           | 2.90 | 10.0       | ug/L  |
| 86-30-6    | n-Nitrosodiphenylamine     | 55.9  |           | 0.58 | 5.00       | ug/L  |
| 101-55-3   | 4-Bromophenyl-phenylether  | 57.4  |           | 0.40 | 5.00       | ug/L  |
| 118-74-1   | Hexachlorobenzene          | 55.4  |           | 0.52 | 5.00       | ug/L  |
| 1912-24-9  | Atrazine                   | 79.3  |           | 1.00 | 5.00       | ug/L  |
| 87-86-5    | Pentachlorophenol          | 130   | E         | 1.60 | 10.0       | ug/L  |
| 85-01-8    | Phenanthrene               | 56.7  |           | 0.50 | 5.00       | ug/L  |
| 120-12-7   | Anthracene                 | 57.6  |           | 0.61 | 5.00       | ug/L  |
| 86-74-8    | Carbazole                  | 58.7  |           | 0.72 | 5.00       | ug/L  |
| 84-74-2    | Di-n-butylphthalate        | 60.0  |           | 1.20 | 5.00       | ug/L  |
| 206-44-0   | Fluoranthene               | 58.8  |           | 0.82 | 5.00       | ug/L  |
| 129-00-0   | Pyrene                     | 53.3  |           | 0.50 | 5.00       | ug/L  |
| 85-68-7    | Butylbenzylphthalate       | 61.4  |           | 1.90 | 5.00       | ug/L  |
| 91-94-1    | 3,3-Dichlorobenzidine      | 33.0  |           | 0.93 | 10.0       | ug/L  |
| 56-55-3    | Benzo(a)anthracene         | 57.2  |           | 0.45 | 5.00       | ug/L  |
| 218-01-9   | Chrysene                   | 54.8  |           | 0.44 | 5.00       | ug/L  |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 65.3  |           | 1.60 | 5.00       | ug/L  |
| 117-84-0   | Di-n-octyl phthalate       | 64.8  |           | 2.30 | 10.0       | ug/L  |
| 205-99-2   | Benzo(b)fluoranthene       | 56.0  |           | 0.49 | 5.00       | ug/L  |

## Report of Analysis

|                    |                        |                 |          |
|--------------------|------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 03/26/25 |
| Project:           | RFP 905                | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-001-01-05MS | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-05MS             | Matrix:         | Water    |
| Analytical Method: | SW8270                 | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL         | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                     | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N           | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0       | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064135.D        | 1         | 03/31/25 11:00 | 04/01/25 15:03 | PB167393      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|----------------------------|--------|-----------|----------|------------|----------|
| 207-08-9                  | Benzo(k)fluoranthene       | 55.4   |           | 0.48     | 5.00       | ug/L     |
| 50-32-8                   | Benzo(a)pyrene             | 60.0   |           | 0.55     | 5.00       | ug/L     |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 59.7   |           | 0.59     | 5.00       | ug/L     |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 60.0   |           | 0.67     | 5.00       | ug/L     |
| 191-24-2                  | Benzo(g,h,i)perylene       | 56.7   |           | 0.69     | 5.00       | ug/L     |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 50.9   |           | 0.52     | 5.00       | ug/L     |
| 123-91-1                  | 1,4-Dioxane                | 15.1   |           | 1.00     | 5.00       | ug/L     |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 60.9   |           | 0.72     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                            |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol             | 59.4   |           | 10 - 139 | 40%        | SPK: 150 |
| 13127-88-3                | Phenol-d6                  | 33.5   |           | 10 - 134 | 22%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5            | 114    |           | 49 - 133 | 114%       | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl           | 105    |           | 52 - 132 | 105%       | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol       | 184    |           | 44 - 137 | 123%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14              | 102    |           | 48 - 125 | 102%       | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 35800  | 7.861     |          |            |          |
| 1146-65-2                 | Naphthalene-d8             | 150000 | 10.646    |          |            |          |
| 15067-26-2                | Acenaphthene-d10           | 102000 | 14.483    |          |            |          |
| 1517-22-2                 | Phenanthrene-d10           | 229000 | 17.227    |          |            |          |
| 1719-03-5                 | Chrysene-d12               | 260000 | 21.457    |          |            |          |
| 1520-96-3                 | Perylene-d12               | 281000 | 24.465    |          |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
 Data File : BG064135.D  
 Acq On : 1 Apr 2025 15:03  
 Operator : RC/JU  
 Sample : Q1664-05MS  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P001-BBDGA-001-01-05MS

Manual Integrations  
 APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
 Supervised By :Jagrut Upadhyay 04/02/2025

Quant Time: Apr 01 15:44:53 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.861  | 152  | 35803    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.646 | 136  | 150441   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.483 | 164  | 102278   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.227 | 188  | 228948   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.457 | 240  | 259874   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 24.465 | 264  | 281028   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.452  | 112  | 136162   | 59.383  | ng    | 0.00     |
| 7) Phenol-d6                  | 7.021  | 99   | 104425   | 33.477  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.013  | 82   | 311190   | 114.310 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.975 | 330  | 209437   | 184.219 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.108 | 172  | 704640   | 104.574 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.847 | 244  | 1310703  | 101.982 | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.372  | 88   | 15647    | 15.057  | ng    | 93       |
| 3) Pyridine                   | 3.760  | 79   | 42568    | 16.844  | ng    | 98       |
| 4) n-Nitrosodimethylamine     | 3.672  | 42   | 33665    | 18.644  | ng    | 99       |
| 6) Aniline                    | 7.186  | 93   | 68184    | 22.276  | ng    | 98       |
| 8) 2-Chlorophenol             | 7.426  | 128  | 95098    | 38.616  | ng    | 99       |
| 9) Benzaldehyde               | 6.998  | 77   | 84178m   | 46.401  | ng    |          |
| 10) Phenol                    | 7.050  | 94   | 41238    | 12.912  | ng    | 98       |
| 11) bis(2-Chloroethyl)ether   | 7.285  | 93   | 116365   | 46.476  | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 7.750  | 146  | 96360    | 35.632  | ng    | 94       |
| 13) 1,4-Dichlorobenzene       | 7.896  | 146  | 99652    | 35.951  | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 8.214  | 146  | 99999    | 37.413  | ng    | 98       |
| 15) Benzyl Alcohol            | 8.090  | 79   | 79663    | 33.049  | ng    | 94       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.384  | 45   | 249131m  | 44.251  | ng    |          |
| 17) 2-Methylphenol            | 8.302  | 107  | 69790    | 32.926  | ng    | 98       |
| 18) Hexachloroethane          | 8.942  | 117  | 36819    | 37.965  | ng    | 92       |
| 19) n-Nitroso-di-n-propyla... | 8.666  | 70   | 108785   | 49.693  | ng    | 97       |
| 20) 3+4-Methylphenols         | 8.625  | 107  | 84543    | 28.972  | ng    | 96       |
| 22) Acetophenone              | 8.672  | 105  | 209755   | 50.852  | ng    | 97       |
| 24) Nitrobenzene              | 9.054  | 77   | 156461   | 55.613  | ng    | 96       |
| 25) Isophorone                | 9.577  | 82   | 297922   | 54.676  | ng    | # 94     |
| 26) 2-Nitrophenol             | 9.759  | 139  | 60363    | 58.957  | ng    | 95       |
| 27) 2,4-Dimethylphenol        | 9.824  | 122  | 106888   | 65.436  | ng    | 91       |
| 28) bis(2-Chloroethoxy)met... | 10.059 | 93   | 168759   | 51.085  | ng    | # 98     |
| 29) 2,4-Dichlorophenol        | 10.294 | 162  | 107792   | 52.260  | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 10.511 | 180  | 112022   | 44.990  | ng    | 94       |
| 31) Naphthalene               | 10.699 | 128  | 370640   | 45.689  | ng    | 99       |
| 32) Benzoic acid              | 9.912  | 122  | 20796m   | 20.044  | ng    |          |
| 33) 4-Chloroaniline           | 10.805 | 127  | 62684    | 21.142  | ng    | 98       |
| 34) Hexachlorobutadiene       | 10.993 | 225  | 68809    | 42.161  | ng    | 97       |
| 35) Caprolactam               | 11.569 | 113  | 7437m    | 9.409   | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 11.927 | 107  | 129320   | 47.831  | ng    | 99       |
| 37) 2-Methylnaphthalene       | 12.309 | 142  | 259968   | 45.394  | ng    | 98       |
| 38) 1-Methylnaphthalene       | 12.526 | 142  | 276960   | 49.363  | ng    | 94       |
| 40) 1,2,4,5-Tetrachloroben... | 12.679 | 216  | 148692   | 50.923  | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 12.661 | 237  | 187016   | 227.561 | ng    | 97       |
| 43) 2,4,6-Trichlorophenol     | 12.914 | 196  | 106053   | 61.625  | ng    | 96       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
 Data File : BG064135.D  
 Acq On : 1 Apr 2025 15:03  
 Operator : RC/JU  
 Sample : Q1664-05MS  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P001-BBDGA-001-01-05MS

Manual Integrations  
**APPROVED**

Reviewed By :Anahy Claudio 04/02/2025  
 Supervised By :Jagrut Upadhyay 04/02/2025

Quant Time: Apr 01 15:44:53 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.985 | 196  | 117523   | 61.460  | ng    | 97       |
| 46) 1,1'-Biphenyl             | 13.320 | 154  | 409560   | 53.002  | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.361 | 162  | 301152   | 53.437  | ng    | 98       |
| 48) 2-Nitroaniline            | 13.560 | 65   | 115806   | 59.139  | ng    | 96       |
| 49) Acenaphthylene            | 14.207 | 152  | 501655   | 56.277  | ng    | 99       |
| 50) Dimethylphthalate         | 13.948 | 163  | 413521   | 54.772  | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 14.060 | 165  | 85641    | 55.360  | ng    | 97       |
| 52) Acenaphthene              | 14.547 | 154  | 317199   | 53.023  | ng    | 97       |
| 53) 3-Nitroaniline            | 14.383 | 138  | 40418    | 27.699  | ng    | 98       |
| 54) 2,4-Dinitrophenol         | 14.589 | 184  | 90826    | 136.095 | ng    | # 75     |
| 55) Dibenzofuran              | 14.882 | 168  | 490801   | 50.643  | ng    | 98       |
| 56) 4-Nitrophenol             | 14.688 | 139  | 44577    | 36.426  | ng    | # 86     |
| 57) 2,4-Dinitrotoluene        | 14.841 | 165  | 127681   | 59.472  | ng    | # 96     |
| 58) Fluorene                  | 15.535 | 166  | 405019   | 53.658  | ng    | 95       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.106 | 232  | 113519   | 60.895  | ng    | # 95     |
| 60) Diethylphthalate          | 15.311 | 149  | 433728   | 52.918  | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 15.529 | 204  | 191821   | 51.139  | ng    | 92       |
| 62) 4-Nitroaniline            | 15.546 | 138  | 84625    | 53.717  | ng    | 87       |
| 63) Azobenzene                | 15.822 | 77   | 449563   | 51.402  | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 15.605 | 198  | 74083    | 70.318  | ng    | 98       |
| 66) n-Nitrosodiphenylamine    | 15.740 | 169  | 362322   | 55.908  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.422 | 248  | 134537   | 57.375  | ng    | 97       |
| 68) Hexachlorobenzene         | 16.533 | 284  | 145556   | 55.446  | ng    | 98       |
| 69) Atrazine                  | 16.692 | 200  | 151192   | 79.291  | ng    | 93       |
| 70) Pentachlorophenol         | 16.874 | 266  | 215982   | 132.509 | ng    | 98       |
| 71) Phenanthrene              | 17.268 | 178  | 692975   | 56.747  | ng    | 99       |
| 72) Anthracene                | 17.356 | 178  | 699296   | 57.590  | ng    | 98       |
| 73) Carbazole                 | 17.626 | 167  | 665337   | 58.686  | ng    | 100      |
| 74) Di-n-butylphthalate       | 18.196 | 149  | 801167   | 60.035  | ng    | 100      |
| 75) Fluoranthene              | 19.277 | 202  | 865791   | 58.810  | ng    | 96       |
| 77) Benzidine                 | 19.459 | 184  | 92570    | 25.725  | ng    | 98       |
| 78) Pyrene                    | 19.636 | 202  | 893089   | 53.312  | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.540 | 149  | 393024   | 61.422  | ng    | 98       |
| 81) Benzo(a)anthracene        | 21.439 | 228  | 952154   | 57.198  | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.357 | 252  | 178034   | 33.046  | ng    | 99       |
| 83) Chrysene                  | 21.504 | 228  | 909095   | 54.755  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.369 | 149  | 587683   | 65.277  | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.515 | 149  | 1006791  | 64.835  | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 27.867 | 276  | 1122971  | 59.723  | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 23.525 | 252  | 951807   | 56.024  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.590 | 252  | 944410   | 55.411  | ng    | 100      |
| 90) Benzo(a)pyrene            | 24.330 | 252  | 908180   | 60.023  | ng    | 96       |
| 91) Dibenzo(a,h)anthracene    | 27.932 | 278  | 934889   | 59.974  | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 28.931 | 276  | 907435   | 56.698  | ng    | 97       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

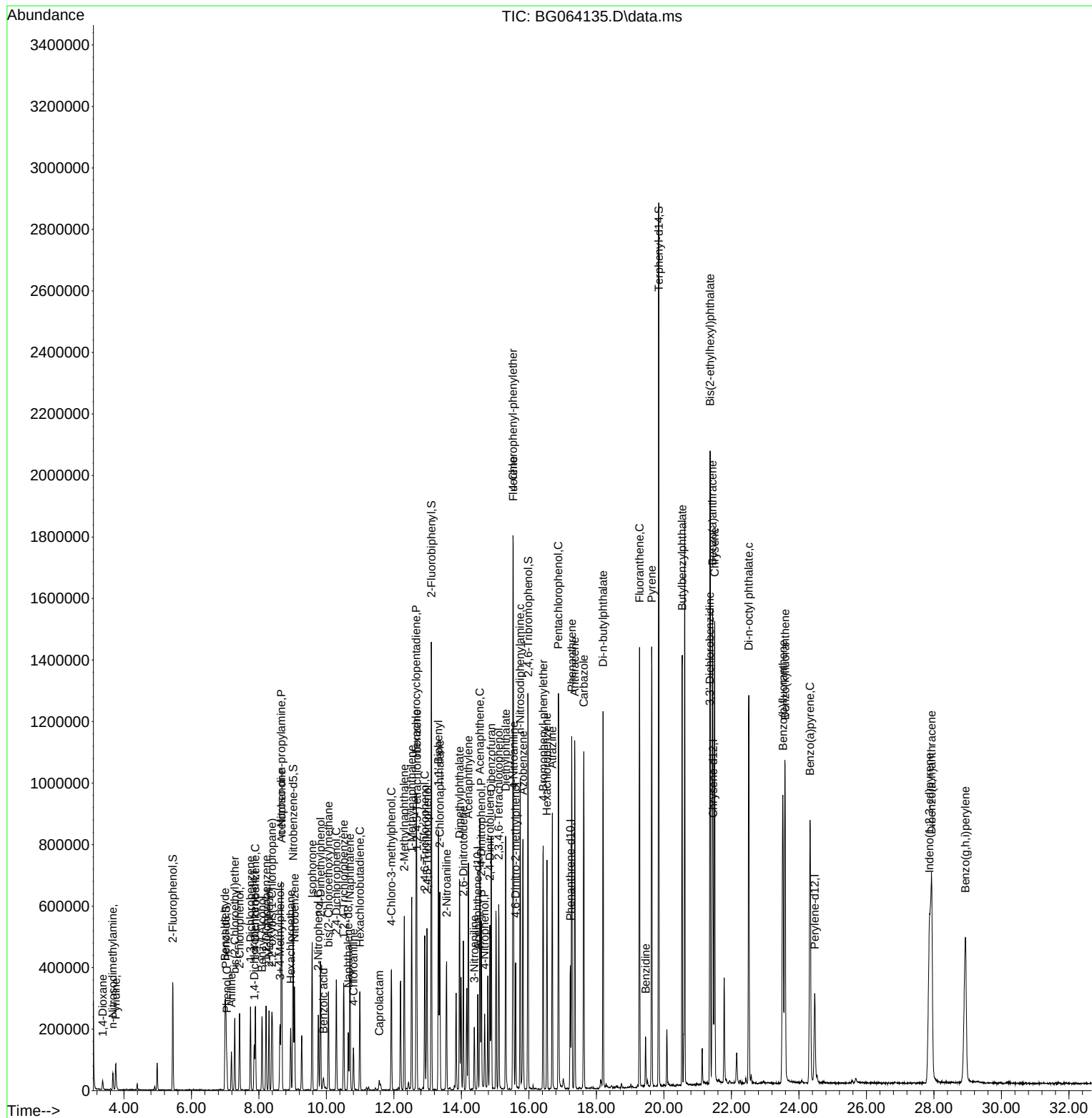
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
Data File : BG064135.D  
Acq On : 1 Apr 2025 15:03  
Operator : RC/JU  
Sample : Q1664-05MS  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

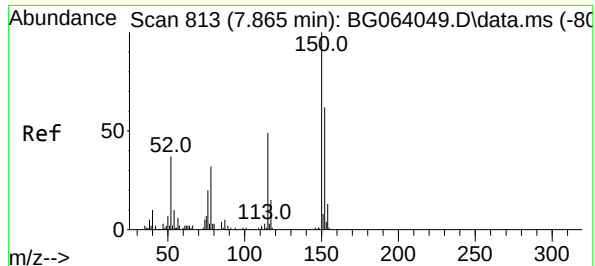
**Instrument :**  
BNA\_G  
**ClientSampleId :**  
P001-BBDGA-001-01-05MS

## Manual Integrations APPROVED

Reviewed By :Anahy Claudio    04/02/2025  
Supervised By :Jaqrut Upadhyay    04/02/2025

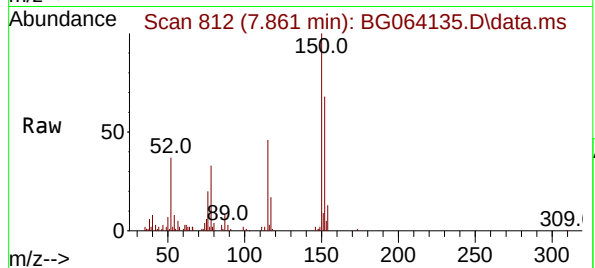
Quant Time: Apr 01 15:44:53 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 15:39:19 2025  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.861 min Scan# 81  
Delta R.T. -0.004 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

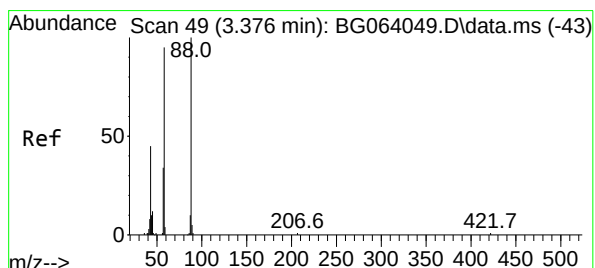
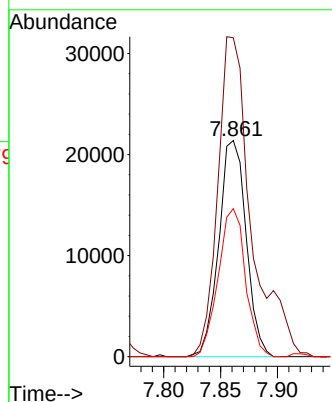
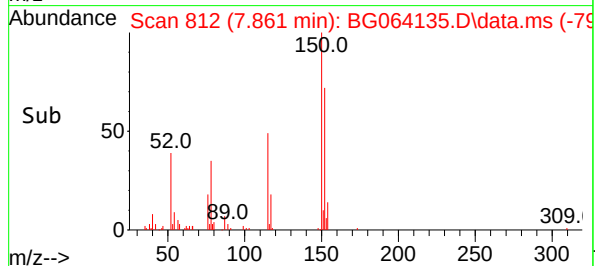
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion: 152 Resp: 3580  
Ion Ratio Lower Upper  
152 100  
150 147.5 129.2 193.8  
115 68.5 63.0 94.6

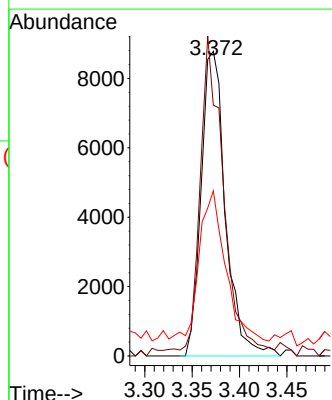
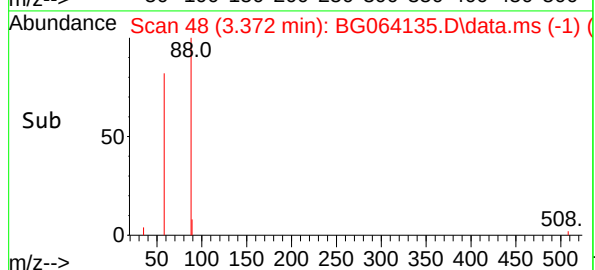
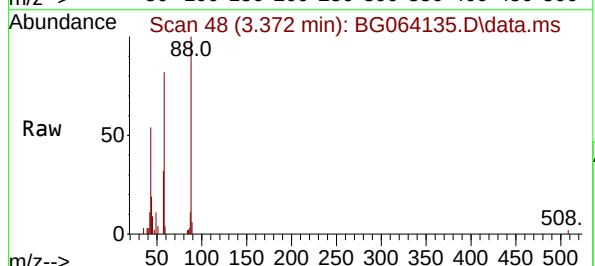
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

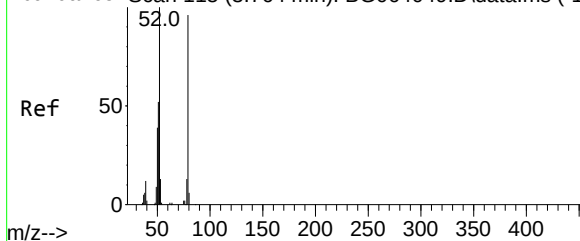


#2  
1,4-Dioxane  
Concen: 15.057 ng  
RT: 3.372 min Scan# 48  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

Tgt Ion: 88 Resp: 15647  
Ion Ratio Lower Upper  
88 100  
58 97.4 74.6 111.8  
43 52.6 35.5 53.3



Abundance Scan 115 (3.764 min): BG064049.D\data.ms (-10)



#3

Pyridine

Concen: 16.844 ng

RT: 3.760 min Scan# 115

Delta R.T. -0.003 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

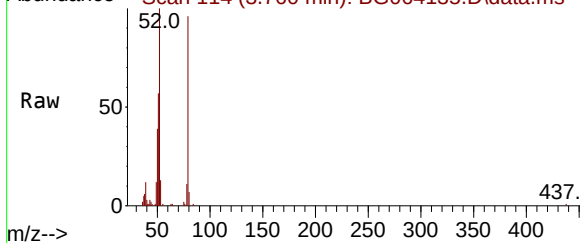
Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS

Abundance Scan 114 (3.760 min): BG064135.D\data.ms



Tgt Ion: 79 Resp: 42568

Ion Ratio Lower Upper

79 100

52 103.7 83.0 124.6

51 58.7 44.3 66.5

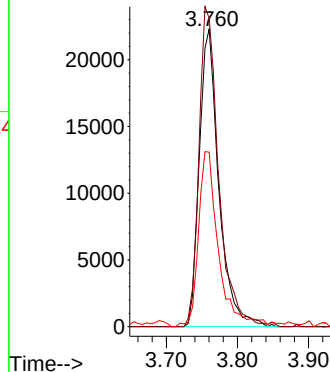
Manual Integrations

APPROVED

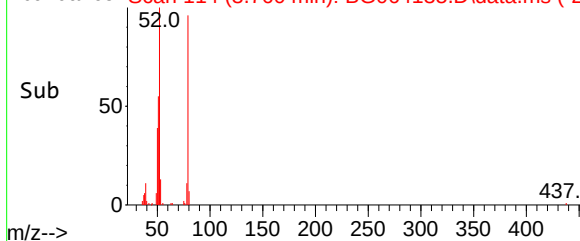
Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025

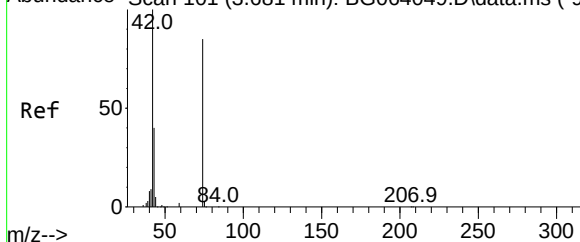
Abundance



Abundance Scan 114 (3.760 min): BG064135.D\data.ms (-24)



Abundance Scan 101 (3.681 min): BG064049.D\data.ms (-94)



#4

n-Nitrosodimethylamine

Concen: 18.644 ng

RT: 3.672 min Scan# 99

Delta R.T. -0.009 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

Tgt Ion: 42 Resp: 33665

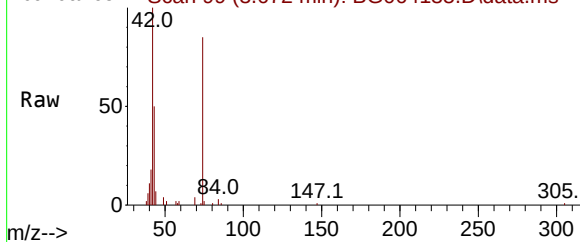
Ion Ratio Lower Upper

42 100

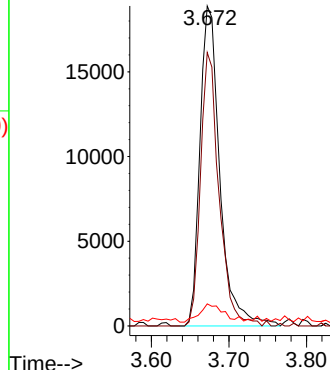
74 85.5 68.0 102.0

44 6.9 4.9 7.3

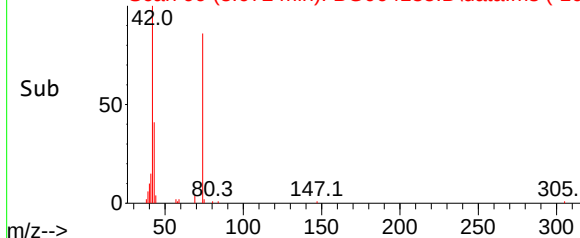
Abundance Scan 99 (3.672 min): BG064135.D\data.ms



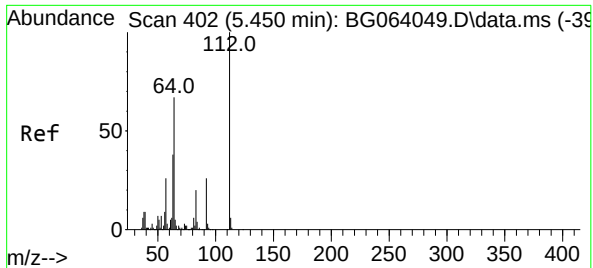
Abundance



Abundance Scan 99 (3.672 min): BG064135.D\data.ms (-10)

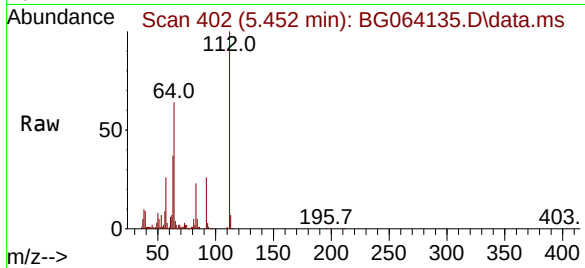






#5  
2-Fluorophenol  
Concen: 59.383 ng  
RT: 5.452 min Scan# 402  
Delta R.T. 0.002 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

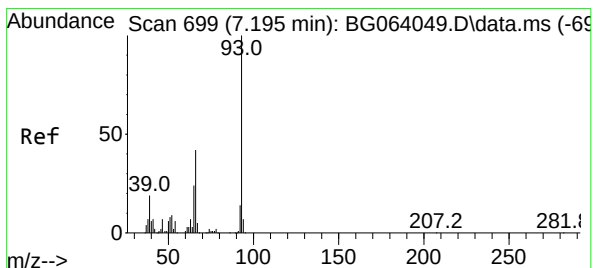
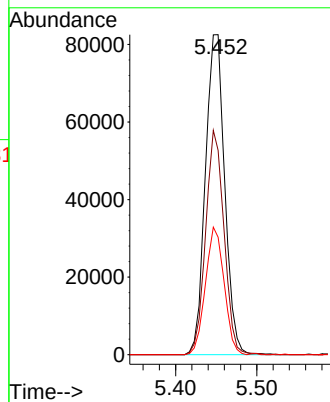
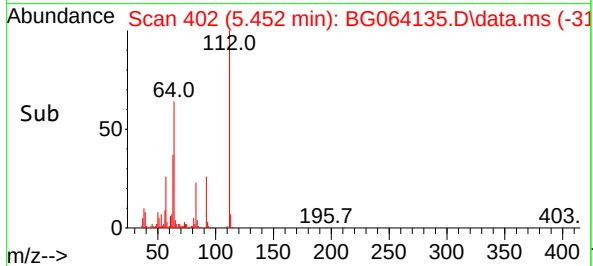
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion: 112 Resp: 136162  
Ion Ratio Lower Upper  
112 100  
64 63.8 53.7 80.5  
63 36.7 30.2 45.4

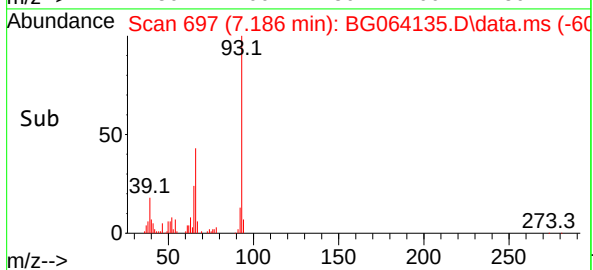
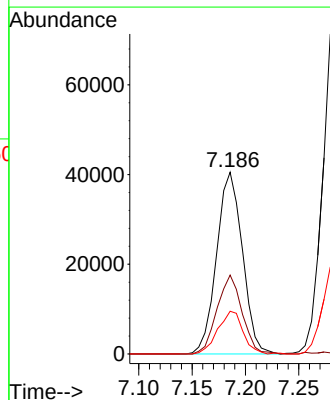
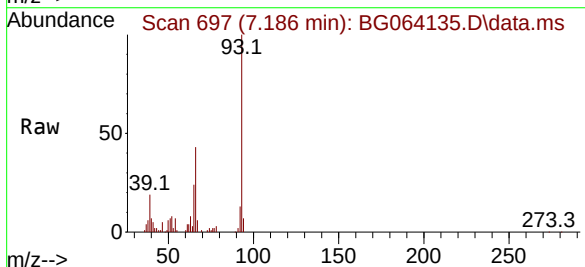
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

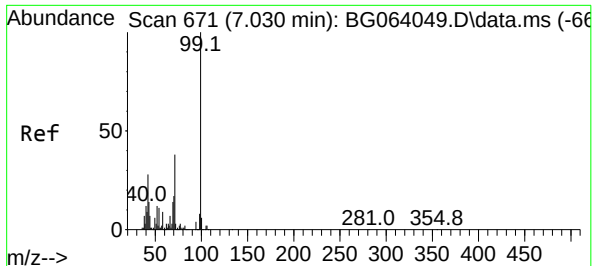


#6  
Aniline  
Concen: 22.276 ng  
RT: 7.186 min Scan# 697  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

Tgt Ion: 93 Resp: 68184  
Ion Ratio Lower Upper  
93 100  
66 43.4 33.7 50.5  
65 23.5 19.1 28.7

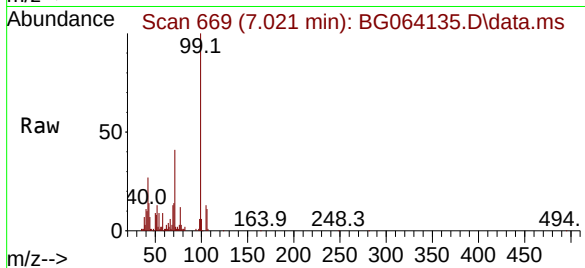






#7  
Phenol-d6  
Concen: 33.477 ng  
RT: 7.021 min Scan# 601  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

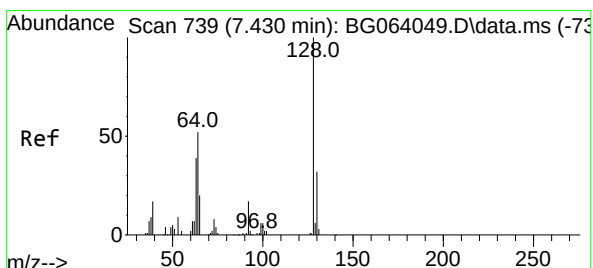
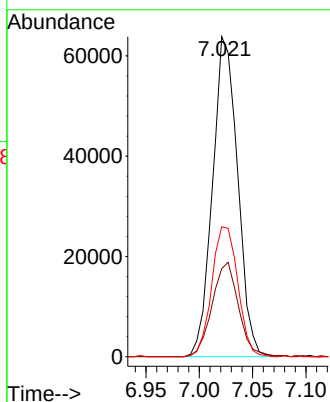
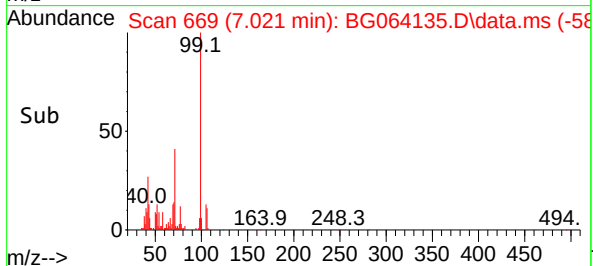
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion: 99 Resp: 104425  
Ion Ratio Lower Upper  
99 100  
42 27.5 22.7 34.1  
71 40.6 30.6 46.0

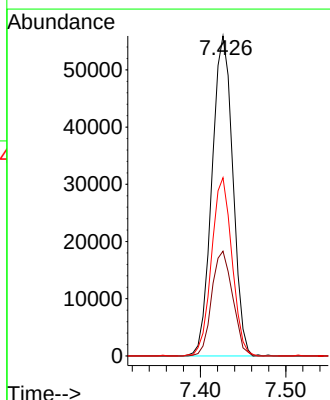
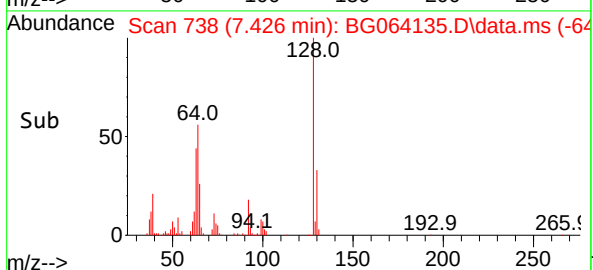
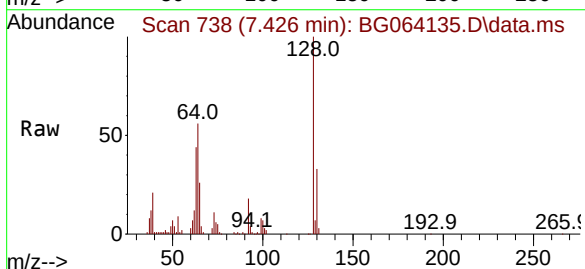
Manual Integrations  
APPROVED

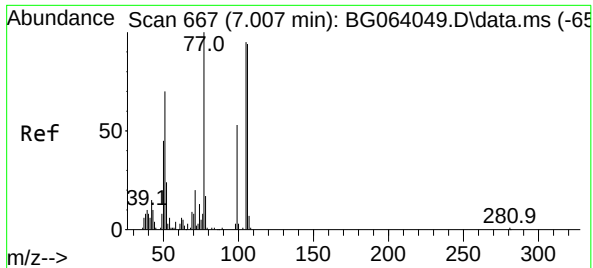
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#8  
2-Chlorophenol  
Concen: 38.616 ng  
RT: 7.426 min Scan# 738  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

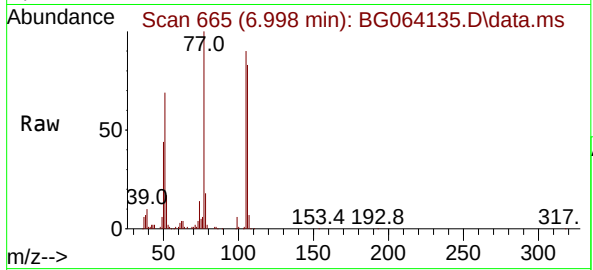
Tgt Ion:128 Resp: 95098  
Ion Ratio Lower Upper  
128 100  
130 32.8 12.3 52.3  
64 55.7 37.0 77.0





#9  
Benzaldehyde  
Concen: 46.401 ng m  
RT: 6.998 min Scan# 60  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

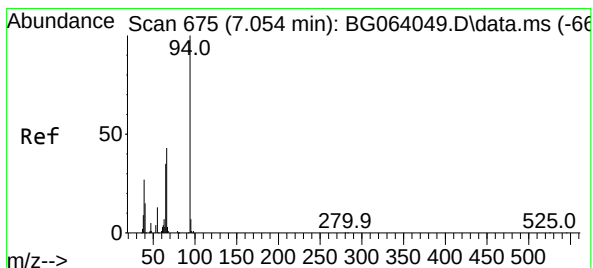
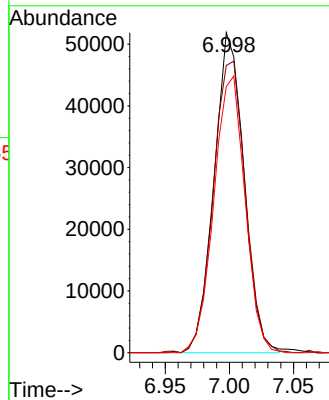
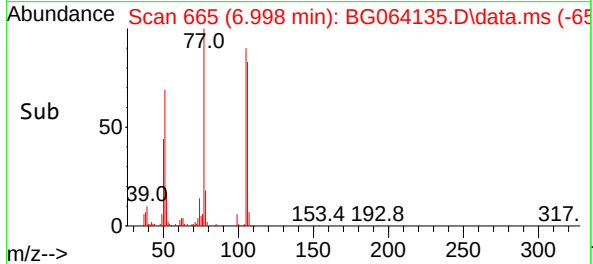
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion: 77 Resp: 84178  
Ion Ratio Lower Upper  
77 100  
105 89.7 75.5 115.5  
106 83.2 74.2 114.2

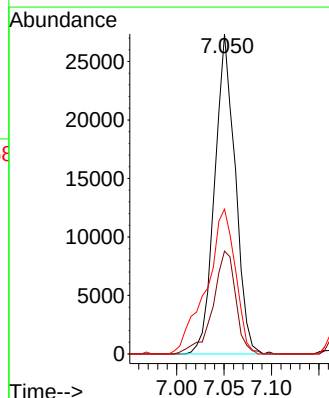
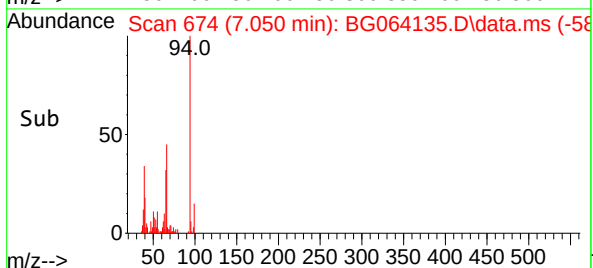
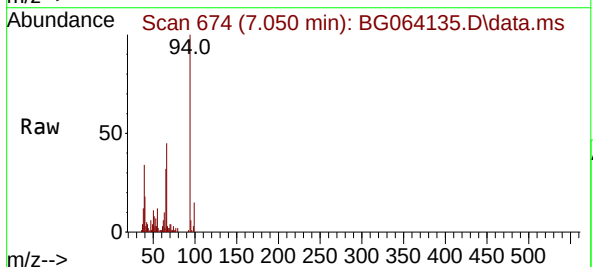
Manual Integrations  
**APPROVED**

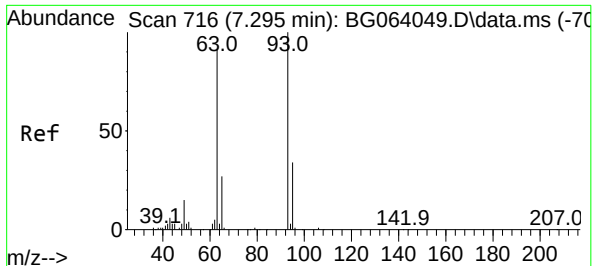
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#10  
Phenol  
Concen: 12.912 ng  
RT: 7.050 min Scan# 674  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

Tgt Ion: 94 Resp: 41238  
Ion Ratio Lower Upper  
94 100  
65 32.2 15.2 55.2  
66 45.3 25.1 65.1





#11

bis(2-Chloroethyl)ether

Concen: 46.476 ng

RT: 7.285 min Scan# 716

Delta R.T. -0.009 min

Lab File: BG064135.D

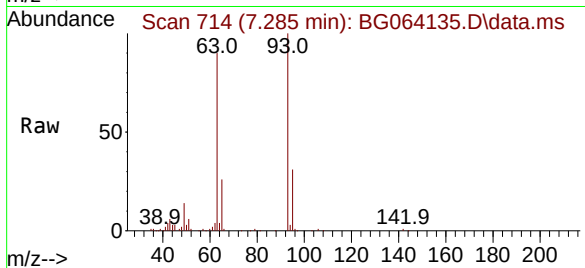
Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS



Tgt Ion: 93 Resp: 11636

Ion Ratio Lower Upper

93 100

63 89.6 70.0 110.0

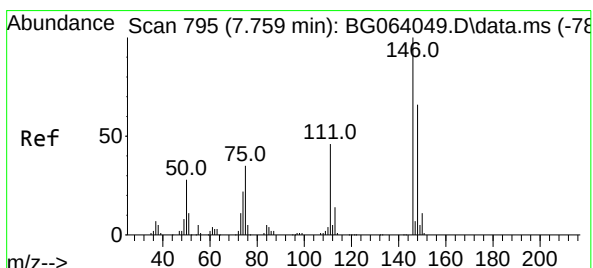
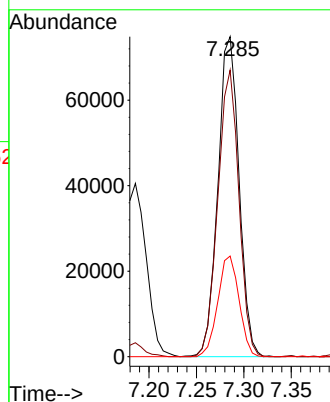
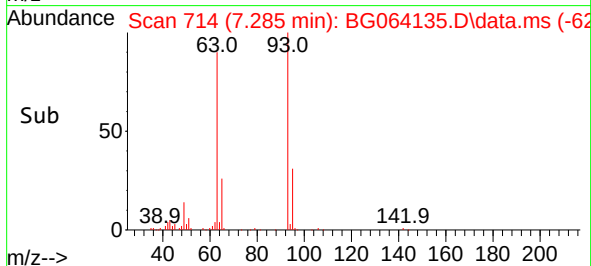
95 31.4 13.7 53.7

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#12

1,3-Dichlorobenzene

Concen: 35.632 ng

RT: 7.750 min Scan# 793

Delta R.T. -0.009 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

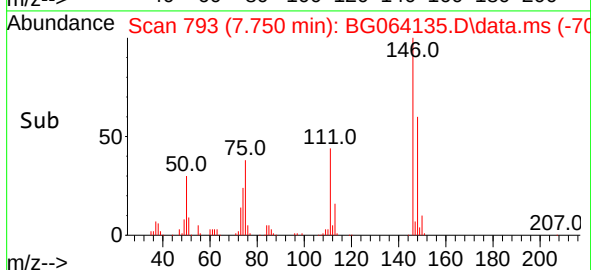
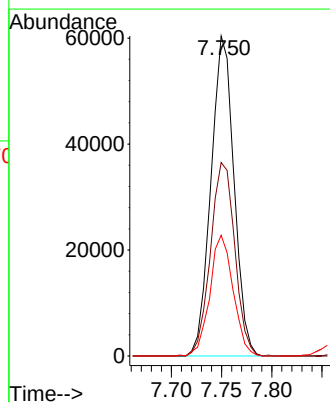
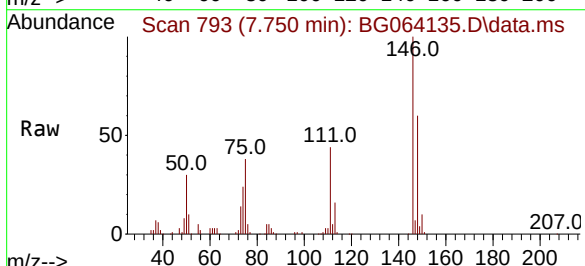
Tgt Ion:146 Resp: 96360

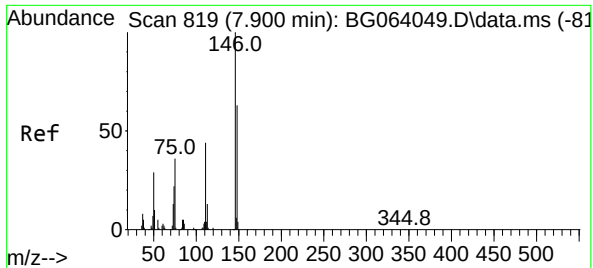
Ion Ratio Lower Upper

146 100

148 60.4 52.6 78.8

75 37.7 28.1 42.1





#13

1,4-Dichlorobenzene

Concen: 35.951 ng

RT: 7.896 min Scan# 81

Delta R.T. -0.003 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

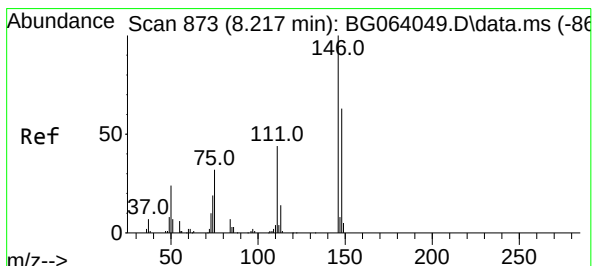
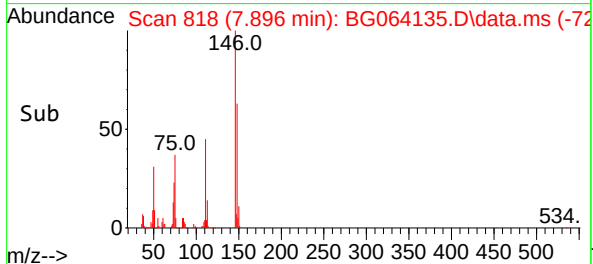
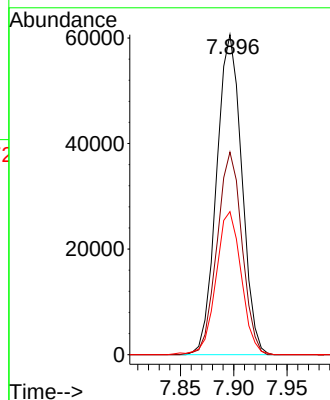
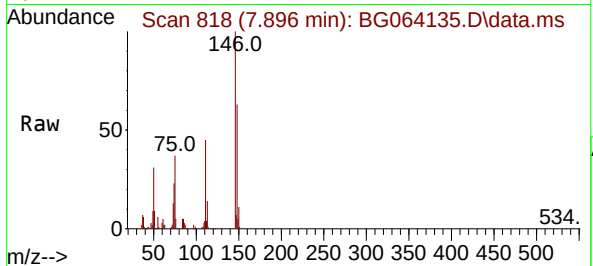
P001-BBDGA-001-01-05MS

| Tgt Ion   | 146   | Resp  | 9965 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 148       | 63.3  | 50.6  | 75.8 |
| 111       | 44.7  | 35.1  | 52.7 |

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#14

1,2-Dichlorobenzene

Concen: 37.413 ng

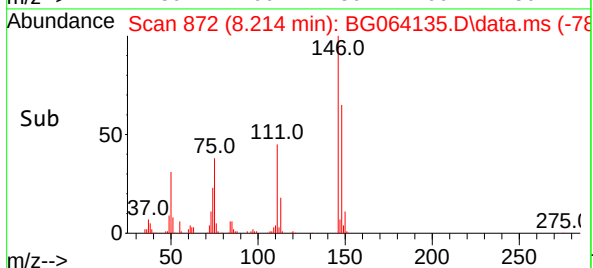
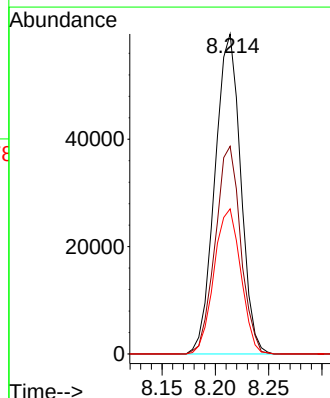
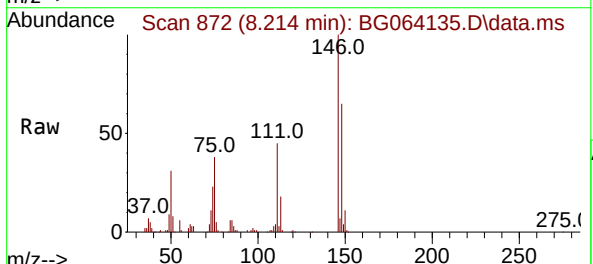
RT: 8.214 min Scan# 872

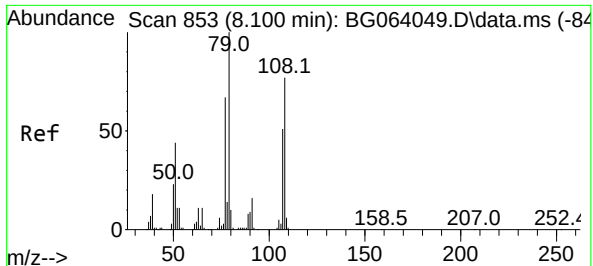
Delta R.T. -0.003 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

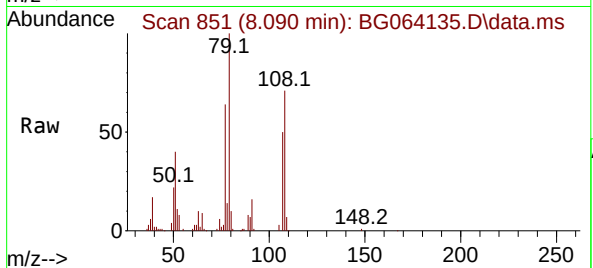
| Tgt Ion   | 146   | Resp  | 99999 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 148       | 64.9  | 50.2  | 75.2  |
| 111       | 45.4  | 36.4  | 54.6  |





#15  
Benzyl Alcohol  
Concen: 33.049 ng  
RT: 8.090 min Scan# 80  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

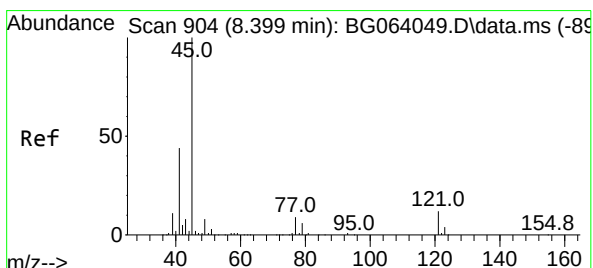
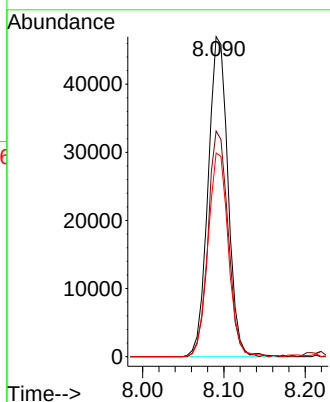
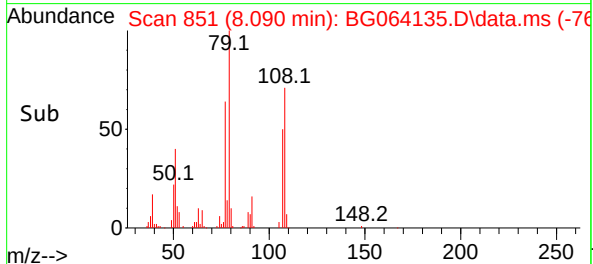
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



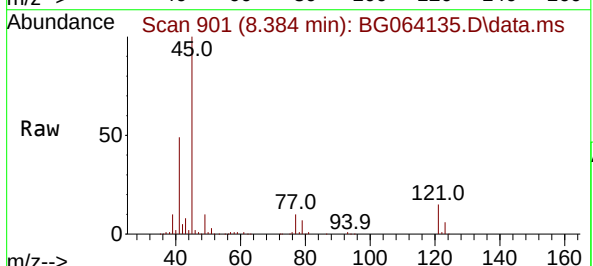
Tgt Ion: 79 Resp: 7966  
Ion Ratio Lower Upper  
79 100  
108 70.5 61.7 92.5  
77 63.7 53.9 80.9

Manual Integrations  
**APPROVED**

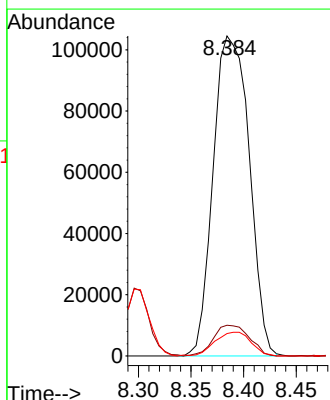
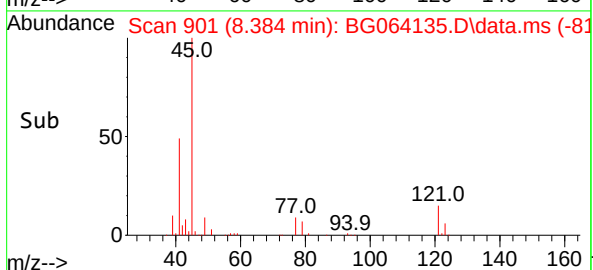
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

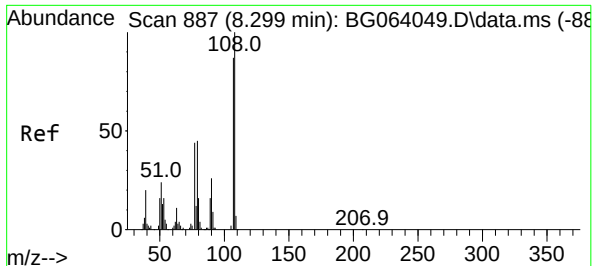


#16  
2,2'-oxybis(1-chloropropane)  
Concen: 44.251 ng m  
RT: 8.384 min Scan# 901  
Delta R.T. -0.015 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03



Tgt Ion: 45 Resp: 249131  
Ion Ratio Lower Upper  
45 100  
77 9.6 0.0 29.0  
79 7.0 0.0 26.6





#17

2-Methylphenol

Concen: 32.926 ng

RT: 8.302 min Scan# 887

Delta R.T. 0.002 min

Lab File: BG064135.D

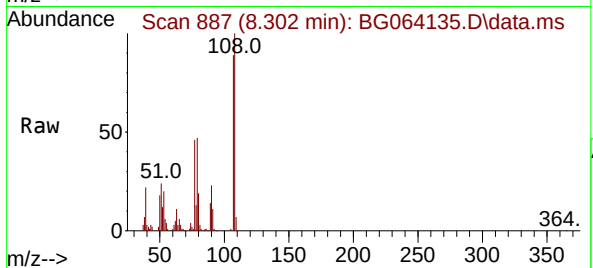
Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS



Tgt Ion:107 Resp: 69790

Ion Ratio Lower Upper

107 100

108 112.5 92.5 138.7

77 51.7 40.5 60.7

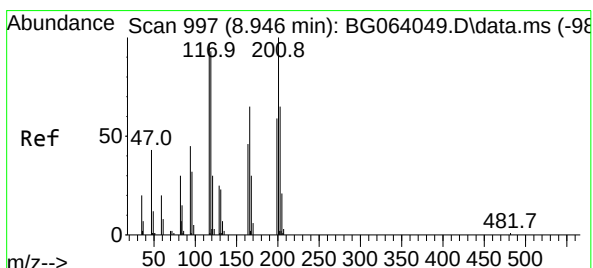
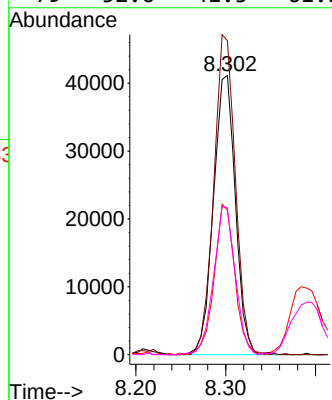
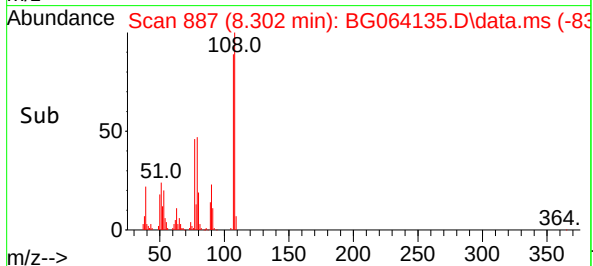
79 52.6 41.3 61.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#18

Hexachloroethane

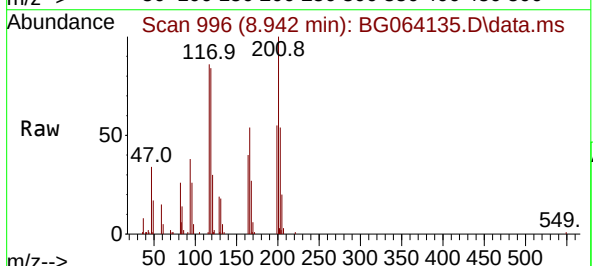
Concen: 37.965 ng

RT: 8.942 min Scan# 996

Delta R.T. -0.003 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03



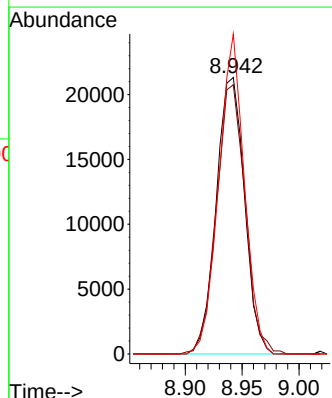
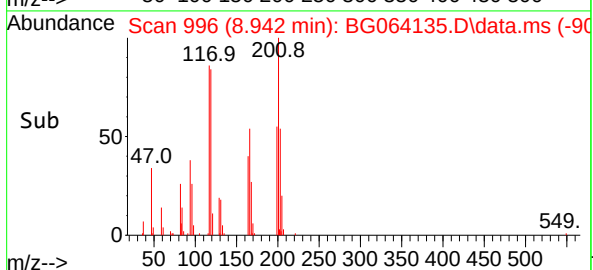
Tgt Ion:117 Resp: 36819

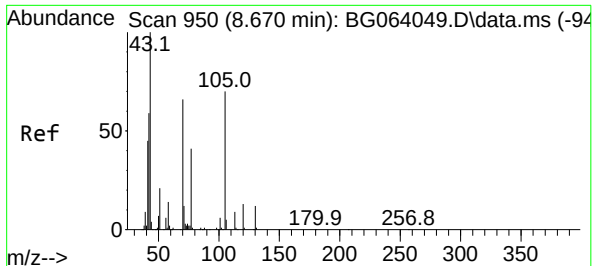
Ion Ratio Lower Upper

117 100

119 97.4 76.2 114.2

201 115.7 81.5 122.3





#19

n-Nitroso-di-n-propylamine

Concen: 49.693 ng

RT: 8.666 min Scan# 94

Delta R.T. -0.003 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS

Tgt Ion: 70 Resp: 10878

Ion Ratio Lower Upper

70 100

42 86.7 72.1 108.1

101 8.1 7.2 10.8

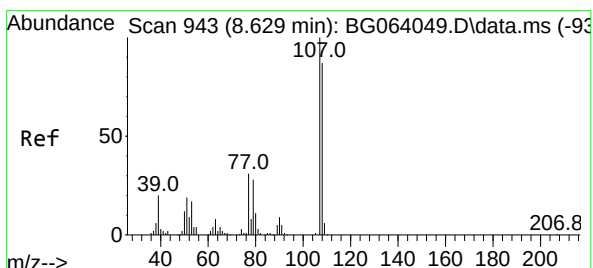
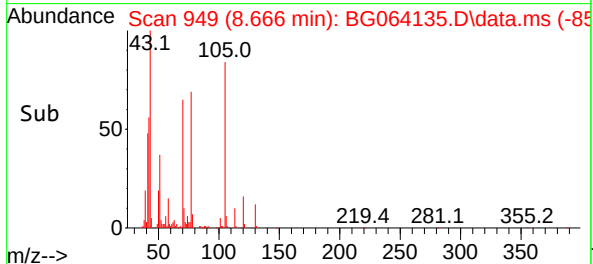
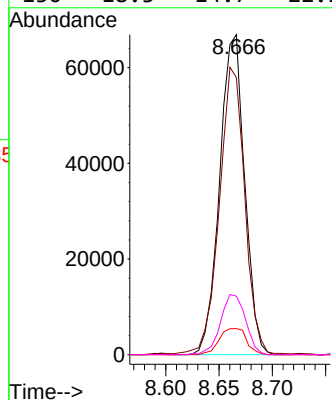
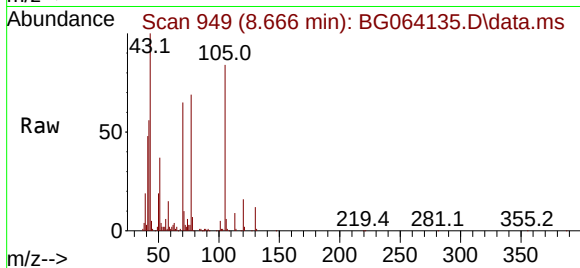
130 18.3 14.7 22.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#20

3+4-Methylphenols

Concen: 28.972 ng

RT: 8.625 min Scan# 942

Delta R.T. -0.003 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

Tgt Ion:107 Resp: 84543

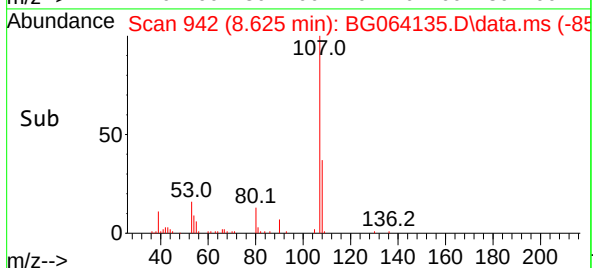
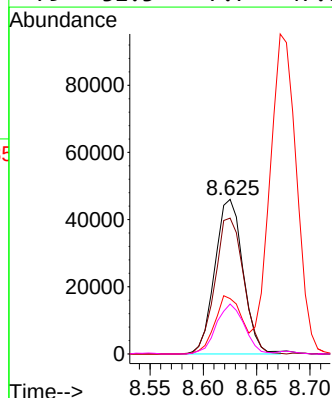
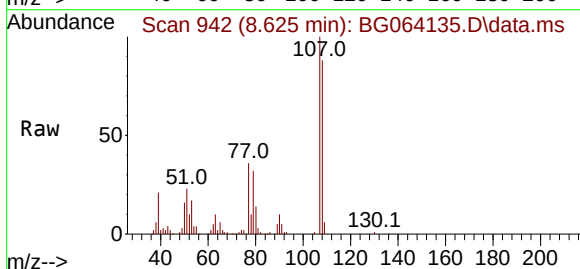
Ion Ratio Lower Upper

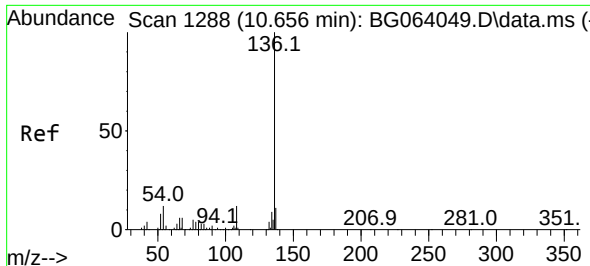
107 100

108 87.9 67.0 107.0

77 35.9 11.2 51.2

79 32.3 7.7 47.7





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.646 min Scan# 11

Delta R.T. -0.010 min

Lab File: BG064135.D

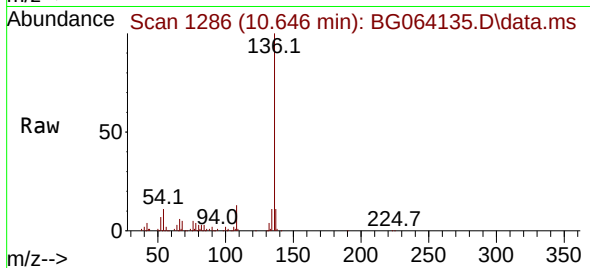
Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS



Tgt Ion:136 Resp: 15044

Ion Ratio Lower Upper

136 100

137 11.3 8.5 12.7

54 11.0 9.9 14.9

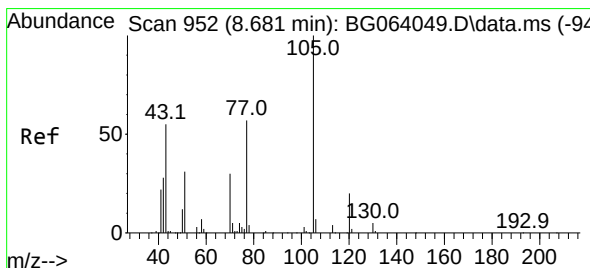
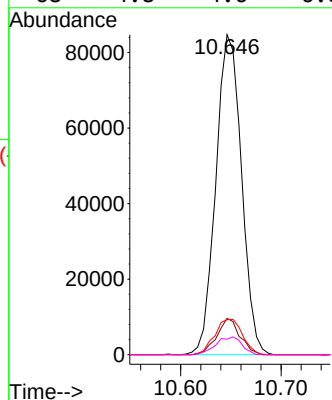
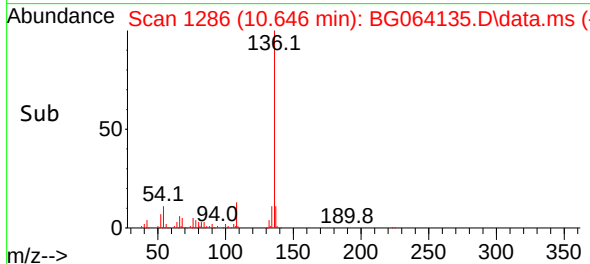
68 4.8 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#22

Acetophenone

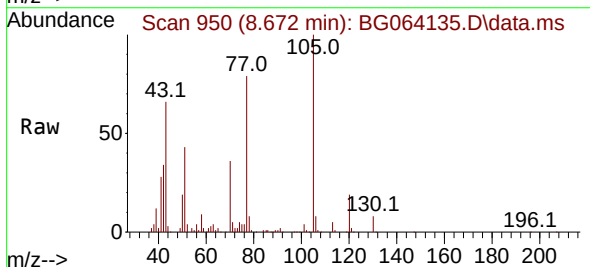
Concen: 50.852 ng

RT: 8.672 min Scan# 950

Delta R.T. -0.009 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03



Tgt Ion:105 Resp: 209755

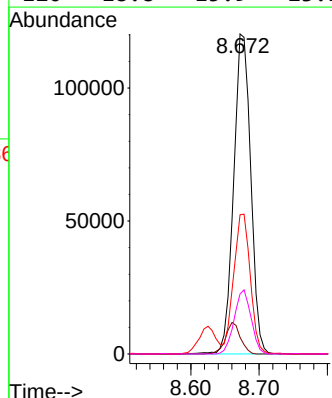
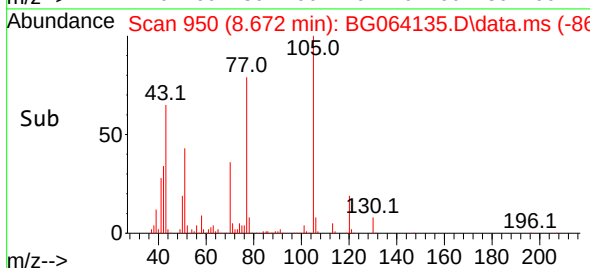
Ion Ratio Lower Upper

105 100

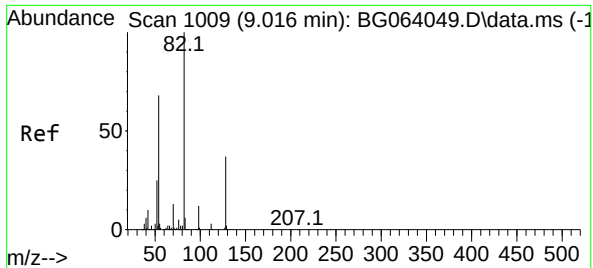
71 5.2 4.2 6.4

51 43.5 33.3 49.9

120 18.8 15.9 23.9







#23

Nitrobenzene-d5

Concen: 114.310 ng

RT: 9.013 min Scan# 1008

Delta R.T. -0.003 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS

Tgt Ion: 82 Resp: 311190

Ion Ratio Lower Upper

82 100

128 37.9 30.0 45.0

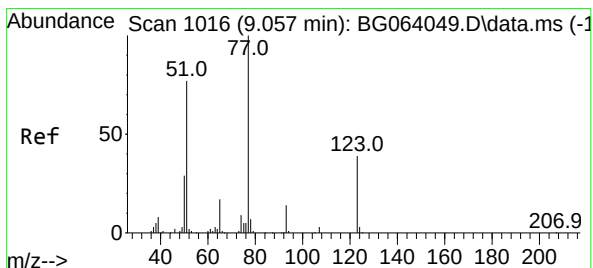
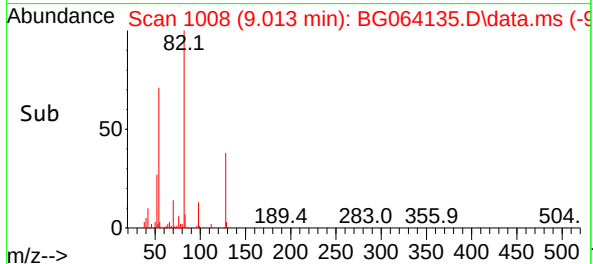
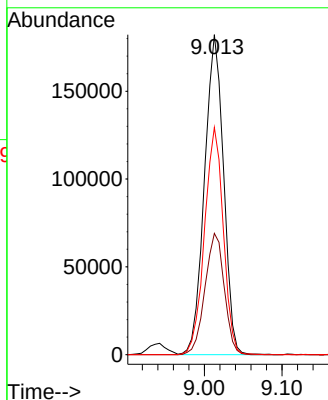
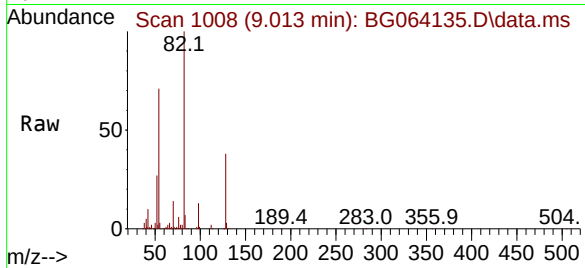
54 71.0 54.7 82.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#24

Nitrobenzene

Concen: 55.613 ng

RT: 9.054 min Scan# 1015

Delta R.T. -0.003 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

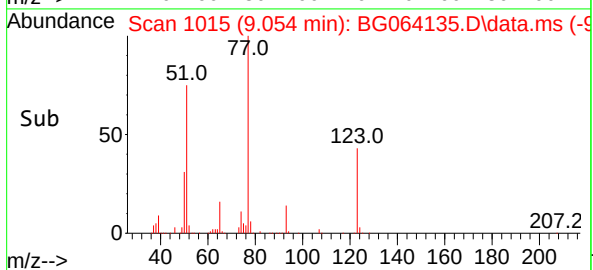
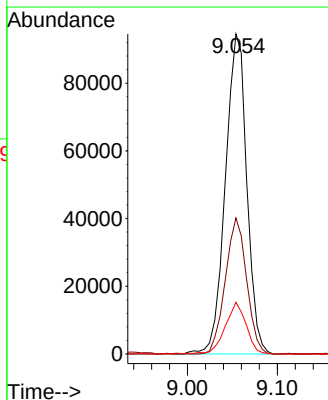
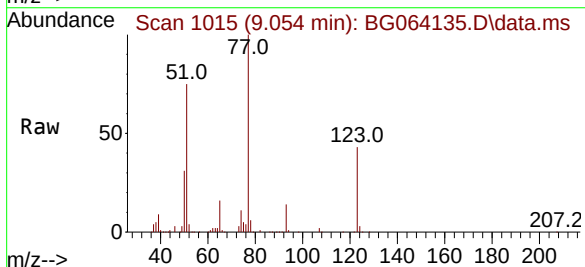
Tgt Ion: 77 Resp: 156461

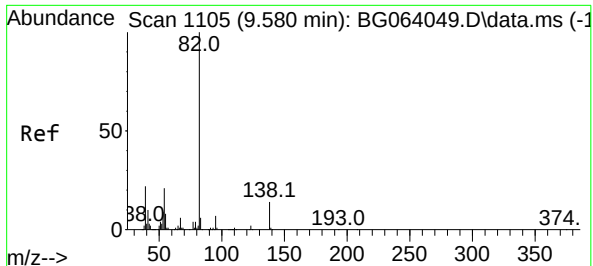
Ion Ratio Lower Upper

77 100

123 42.5 31.4 47.2

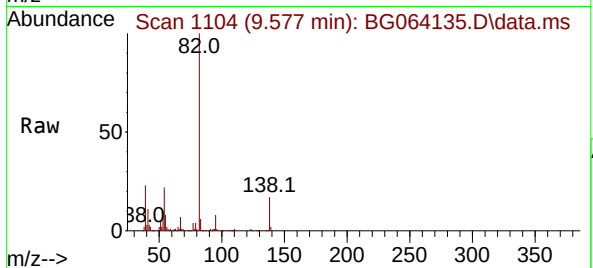
65 16.1 13.4 20.0





#25  
Isophorone  
Concen: 54.676 ng  
RT: 9.577 min Scan# 1104  
Delta R.T. -0.004 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

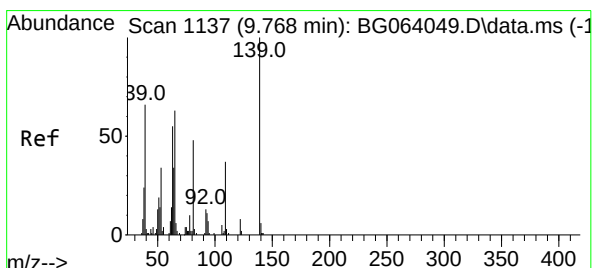
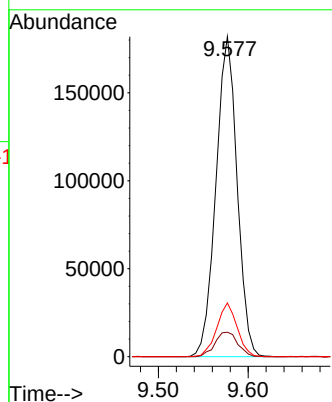
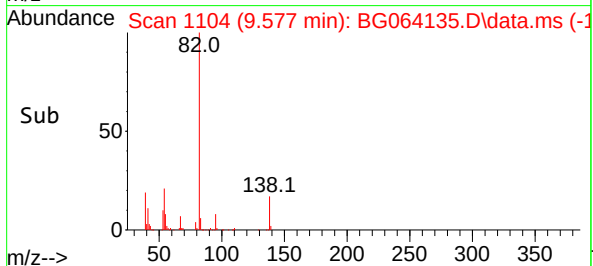
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion: 82 Resp: 29792  
Ion Ratio Lower Upper  
82 100  
95 7.7 5.8 8.8  
138 16.8 10.9 16.3

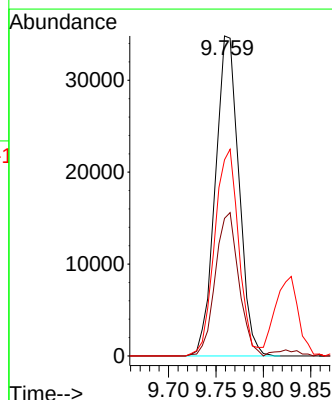
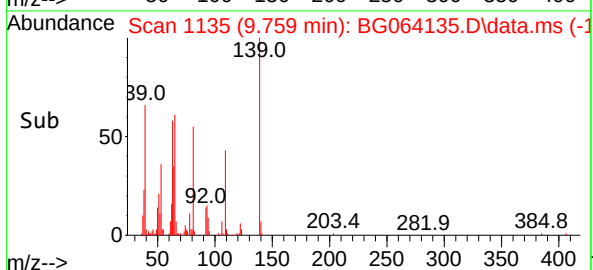
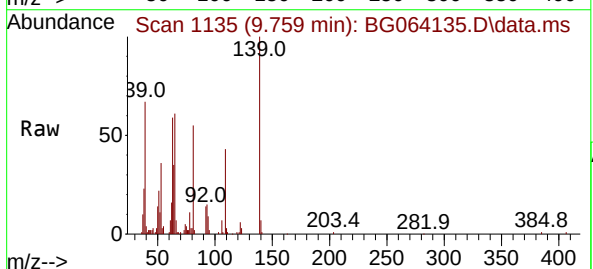
Manual Integrations  
**APPROVED**

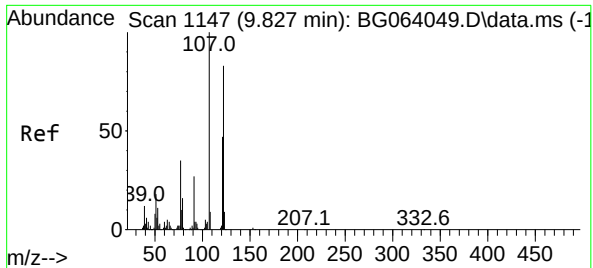
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#26  
2-Nitrophenol  
Concen: 58.957 ng  
RT: 9.759 min Scan# 1135  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

Tgt Ion:139 Resp: 60363  
Ion Ratio Lower Upper  
139 100  
109 43.0 29.9 44.9  
65 61.3 50.6 76.0





#27

2,4-Dimethylphenol

Concen: 65.436 ng

RT: 9.824 min Scan# 1146

Delta R.T. -0.003 min

Lab File: BG064135.D

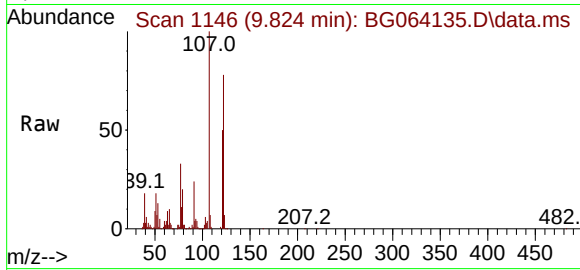
Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS



Tgt Ion:122 Resp: 10688

Ion Ratio Lower Upper

122 100

107 128.1 95.4 143.0

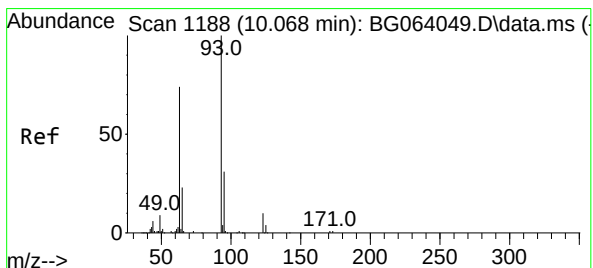
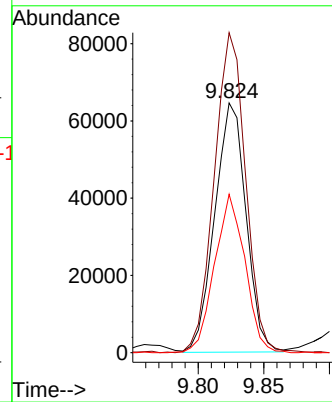
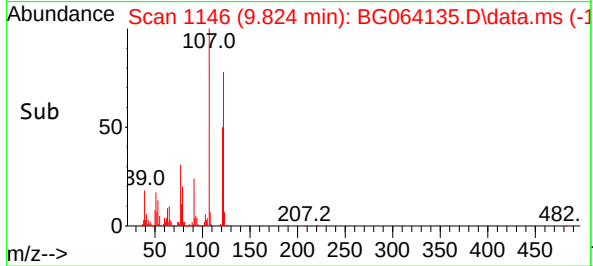
121 63.4 44.9 67.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#28

bis(2-Chloroethoxy)methane

Concen: 51.085 ng

RT: 10.059 min Scan# 1186

Delta R.T. -0.009 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

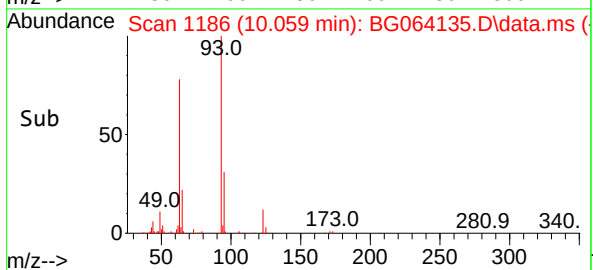
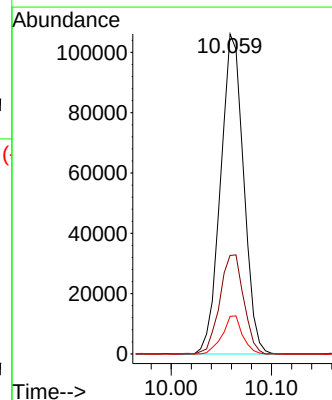
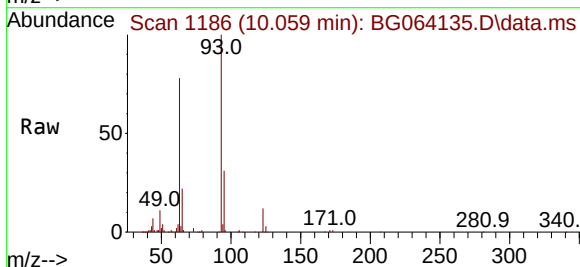
Tgt Ion: 93 Resp: 168759

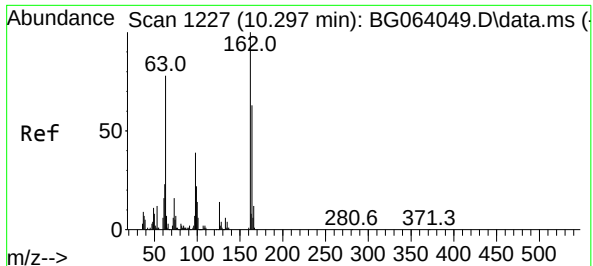
Ion Ratio Lower Upper

93 100

95 30.8 25.0 37.4

123 11.7 7.6 11.4#





#29

2,4-Dichlorophenol

Concen: 52.260 ng

RT: 10.294 min Scan# 1226

Delta R.T. -0.003 min

Lab File: BG064135.D

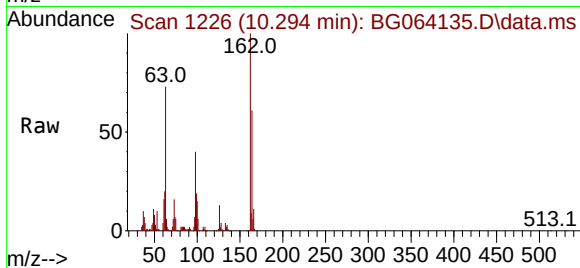
Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS

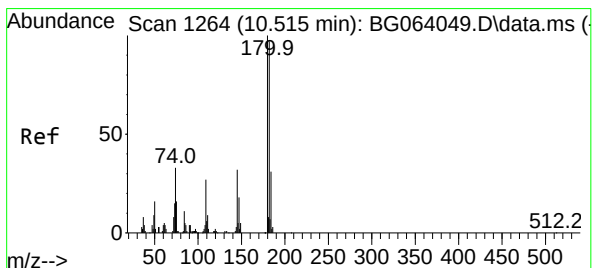
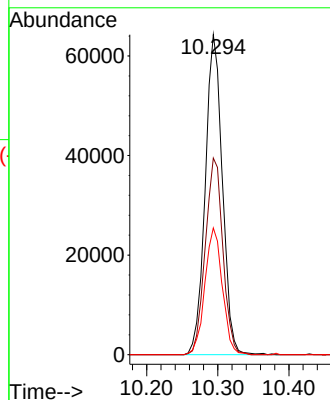
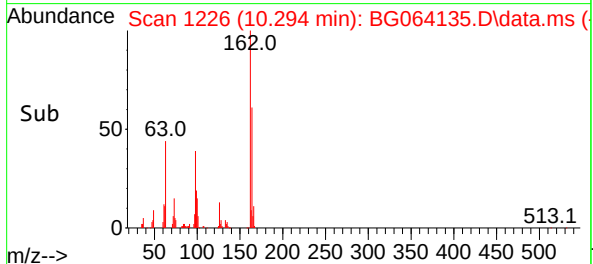


|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 107792 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 164       | 61.4  | 42.8  | 82.8   |
| 98        | 39.6  | 19.1  | 59.1   |

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#30

1,2,4-Trichlorobenzene

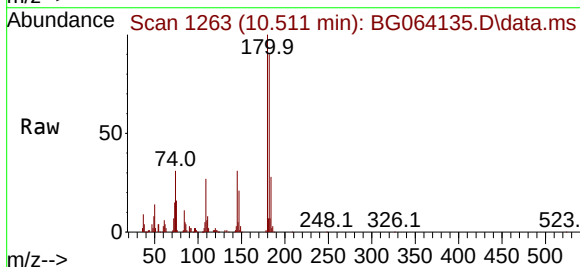
Concen: 44.990 ng

RT: 10.511 min Scan# 1263

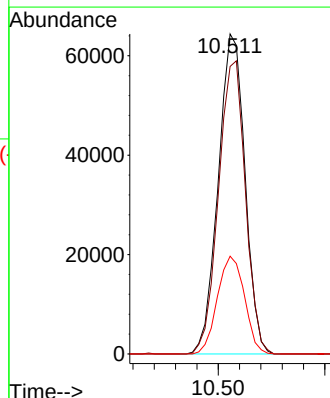
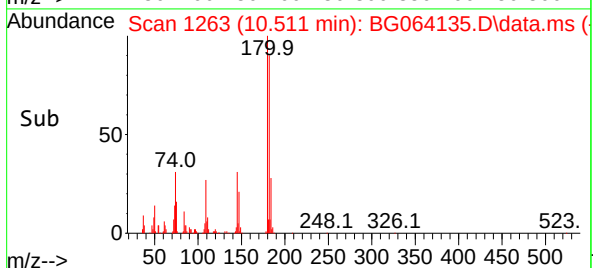
Delta R.T. -0.003 min

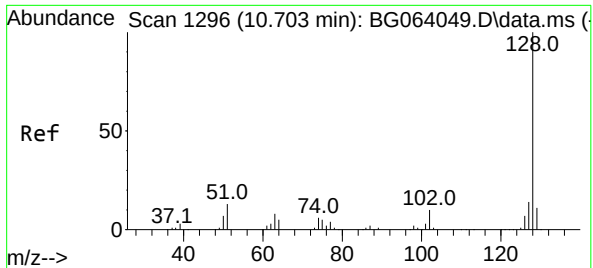
Lab File: BG064135.D

Acq: 1 Apr 2025 15:03



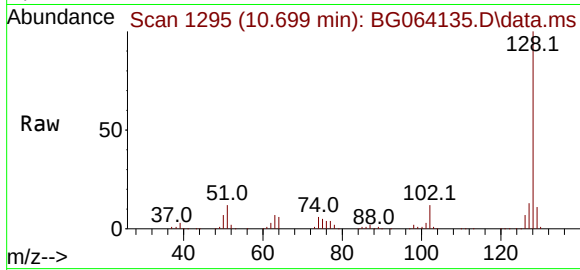
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 112022 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 89.9  | 77.3  | 115.9  |
| 145       | 30.5  | 25.2  | 37.8   |





#31  
Naphthalene  
Concen: 45.689 ng  
RT: 10.699 min Scan# 1161  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

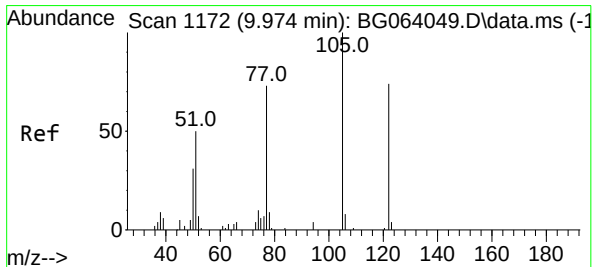
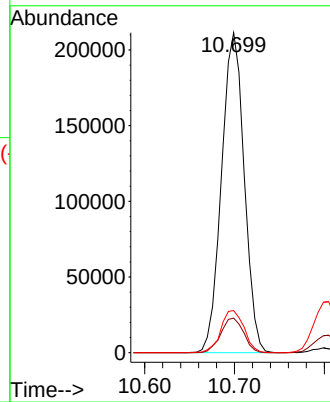
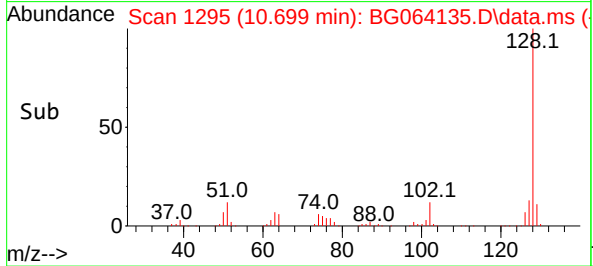
Instrument : BNA\_G  
ClientSampleId : P001-BBDGA-001-01-05MS



Tgt Ion:128 Resp: 370640  
Ion Ratio Lower Upper  
128 100  
129 10.8 8.4 12.6  
127 13.2 11.1 16.7

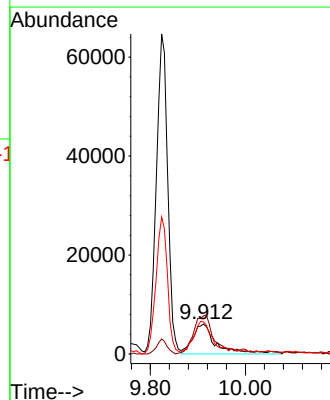
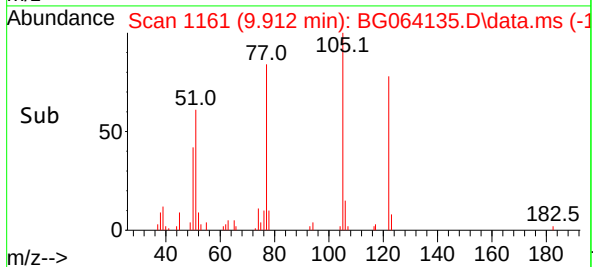
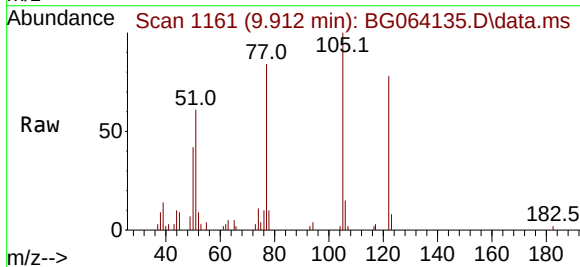
Manual Integrations  
APPROVED

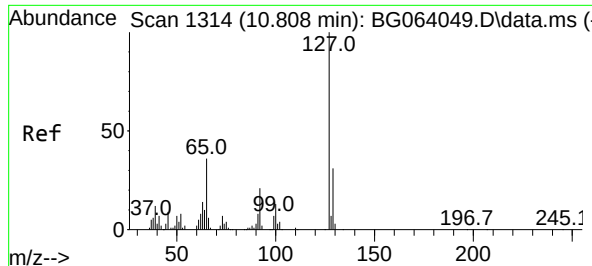
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#32  
Benzoic acid  
Concen: 20.044 ng m  
RT: 9.912 min Scan# 1161  
Delta R.T. -0.062 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

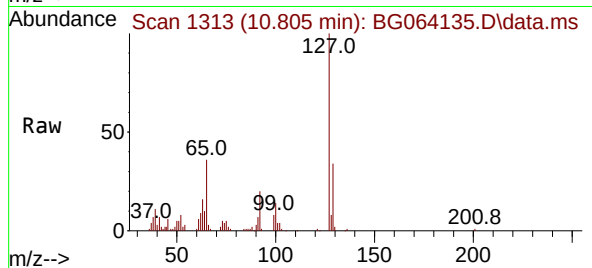
Tgt Ion:122 Resp: 20796  
Ion Ratio Lower Upper  
122 100  
105 127.8 115.0 155.0  
77 107.1 80.9 120.9





#33  
4-Chloroaniline  
Concen: 21.142 ng  
RT: 10.805 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

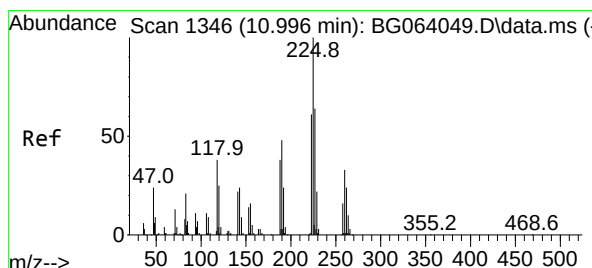
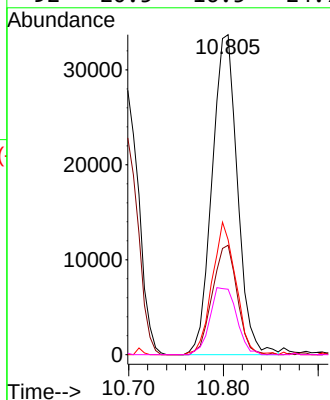
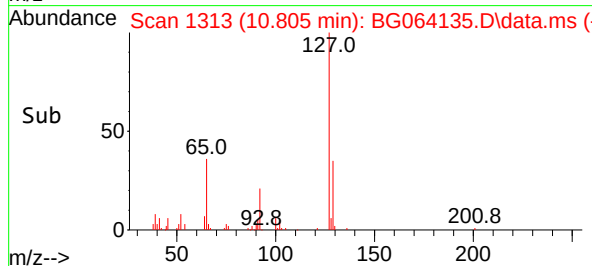
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:127 Resp: 62684  
Ion Ratio Lower Upper  
127 100  
129 34.2 25.0 37.4  
65 35.9 28.5 42.7  
92 20.5 16.5 24.7

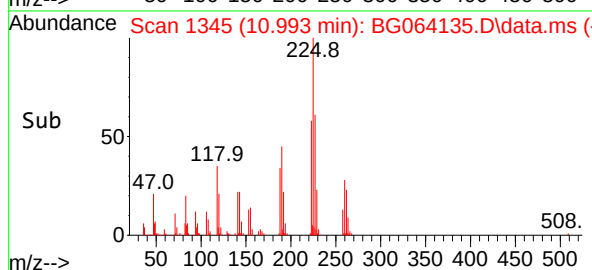
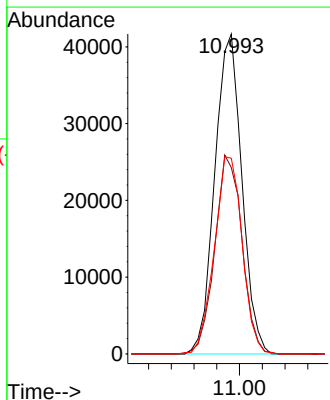
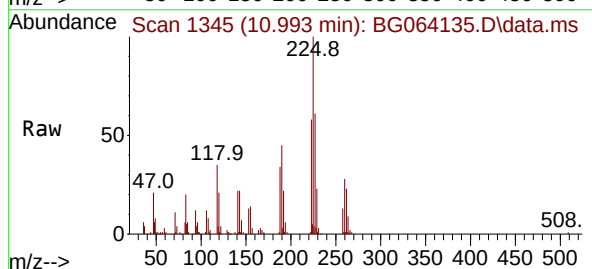
Manual Integrations  
APPROVED

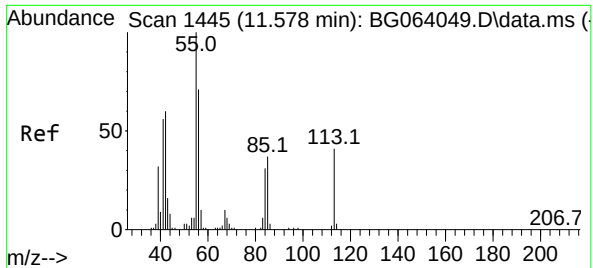
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#34  
Hexachlorobutadiene  
Concen: 42.161 ng  
RT: 10.993 min Scan# 1345  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

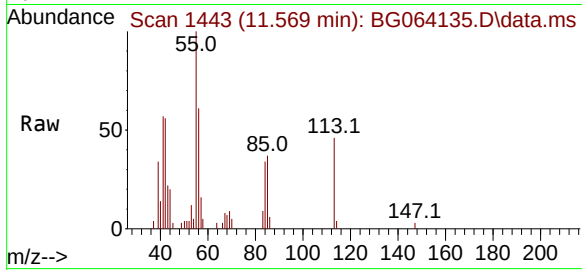
Tgt Ion:225 Resp: 68809  
Ion Ratio Lower Upper  
225 100  
223 58.2 48.5 72.7  
227 61.2 51.0 76.6





#35  
Caprolactam  
Concen: 9.409 ng m  
RT: 11.569 min Scan# 1443  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

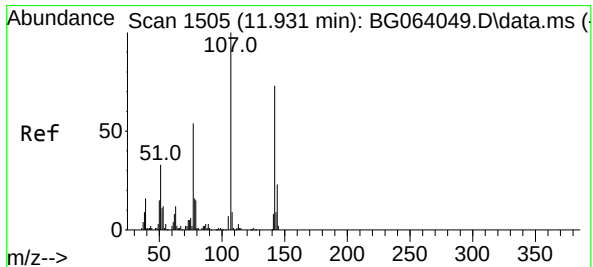
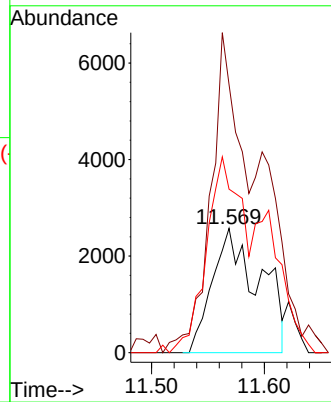
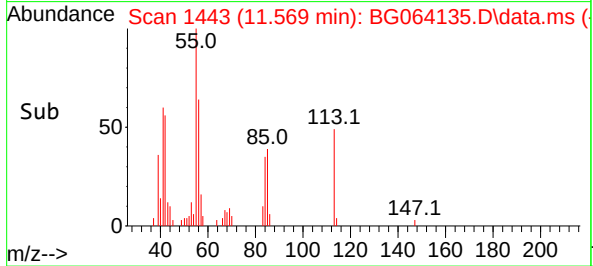
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:113 Resp: 743  
Ion Ratio Lower Upper  
113 100  
55 215.8 225.2 265.2  
56 131.6 153.4 193.4

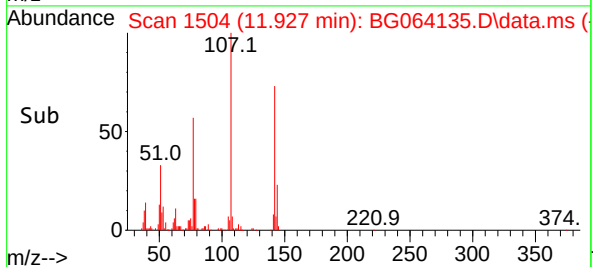
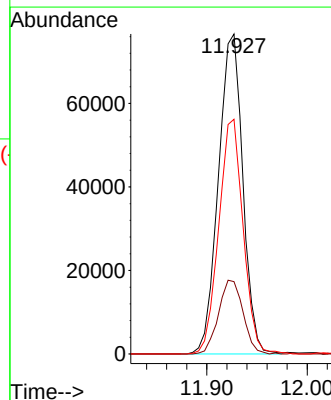
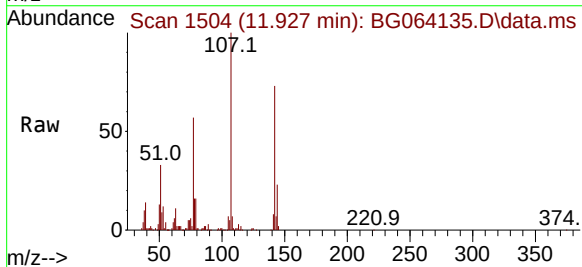
Manual Integrations  
APPROVED

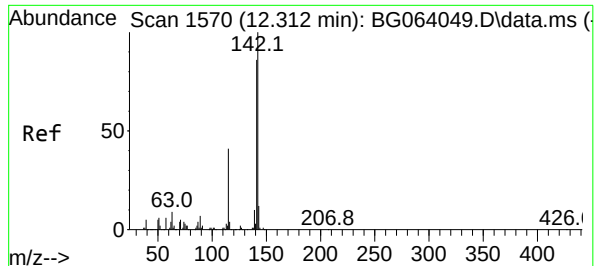
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#36  
4-Chloro-3-methylphenol  
Concen: 47.831 ng  
RT: 11.927 min Scan# 1504  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

Tgt Ion:107 Resp: 129320  
Ion Ratio Lower Upper  
107 100  
144 22.6 18.6 28.0  
142 73.3 58.0 87.0





#37

2-Methylnaphthalene

Concen: 45.394 ng

RT: 12.309 min Scan# 1

Delta R.T. -0.003 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS

Tgt Ion:142 Resp: 25996

Ion Ratio Lower Upper

142 100

141 84.7 68.6 103.0

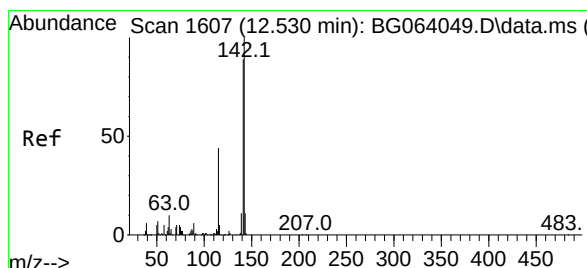
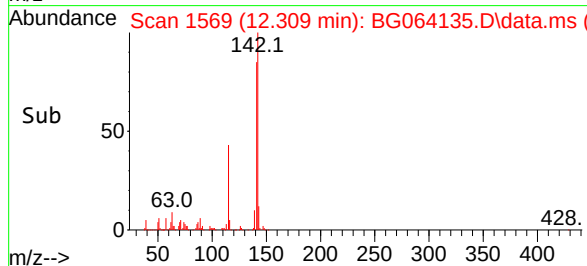
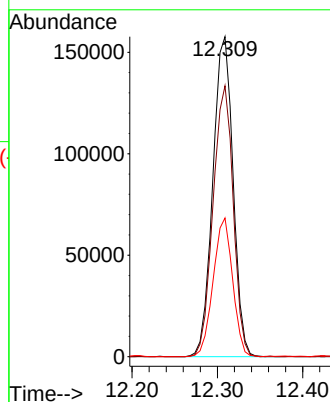
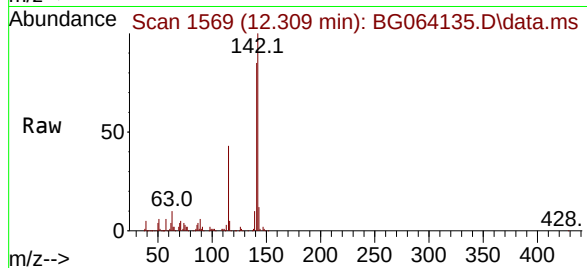
115 43.3 32.8 49.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#38

1-Methylnaphthalene

Concen: 49.363 ng

RT: 12.526 min Scan# 1606

Delta R.T. -0.003 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

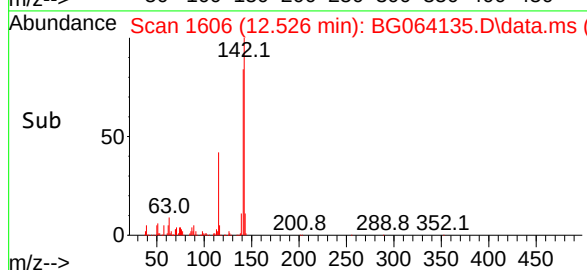
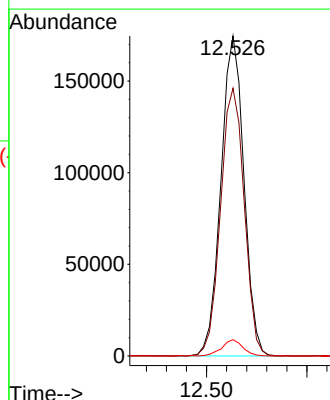
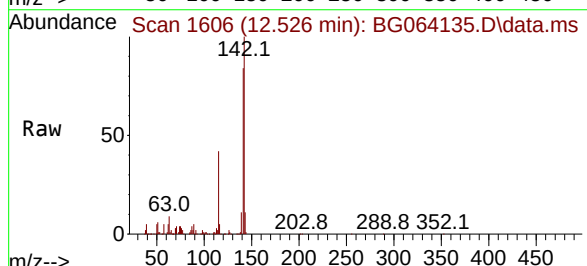
Tgt Ion:142 Resp: 276960

Ion Ratio Lower Upper

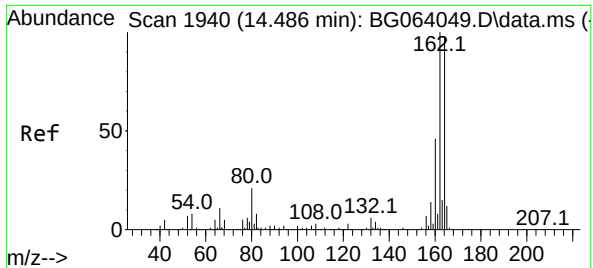
142 100

141 83.7 71.2 106.8

116 5.1 3.6 5.4

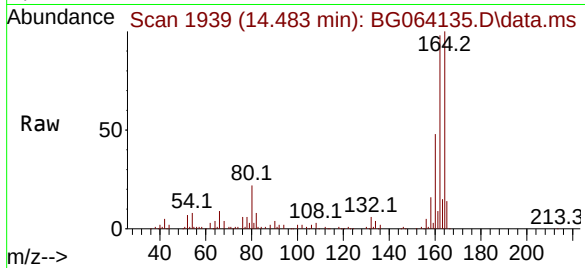






#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.483 min Scan# 1940  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

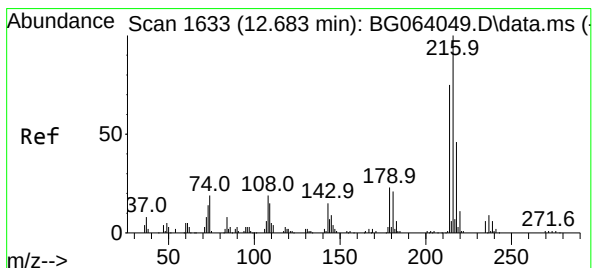
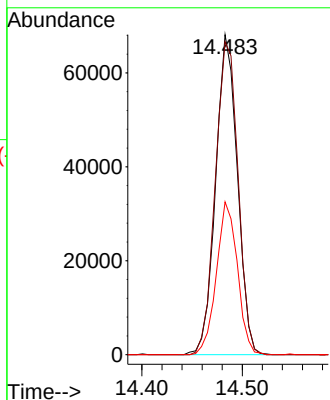
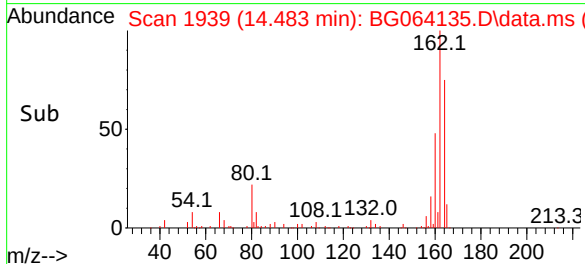
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



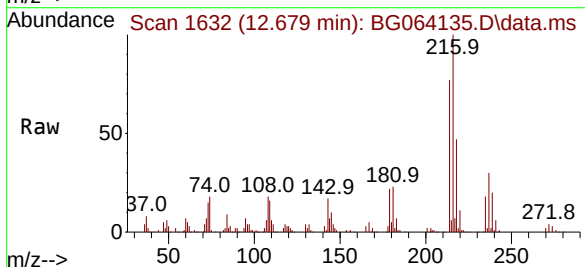
Tgt Ion:164 Resp: 102278  
Ion Ratio Lower Upper  
164 100  
162 97.8 81.4 122.0  
160 47.7 37.0 55.6

Manual Integrations  
APPROVED

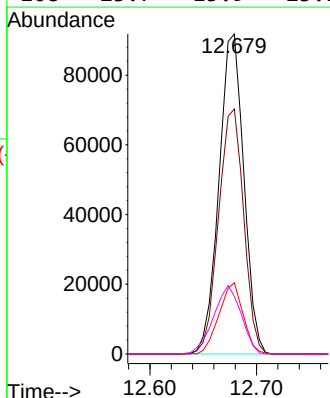
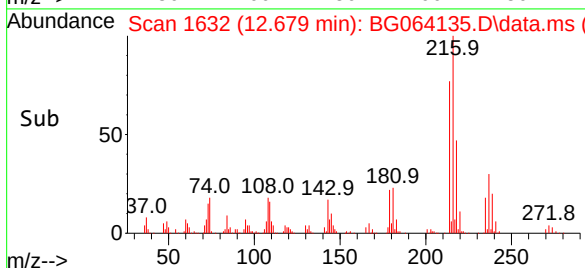
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

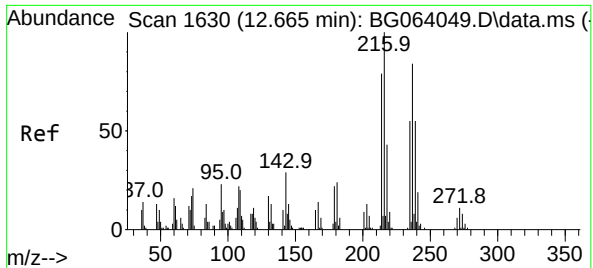


#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 50.923 ng  
RT: 12.679 min Scan# 1632  
Delta R.T. -0.004 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03



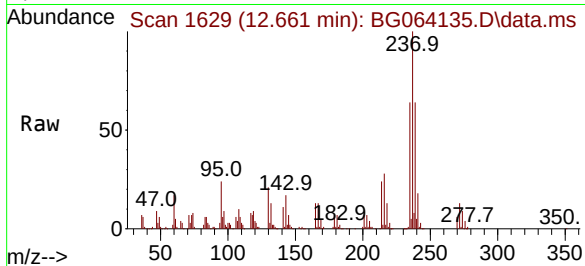
Tgt Ion:216 Resp: 148692  
Ion Ratio Lower Upper  
216 100  
214 77.3 61.7 92.5  
179 21.7 17.9 26.9  
108 23.7 15.9 23.9





#41  
Hexachlorocyclopentadiene  
Concen: 227.561 ng  
RT: 12.661 min Scan# 1629  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

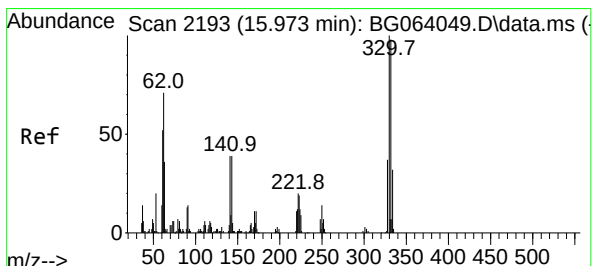
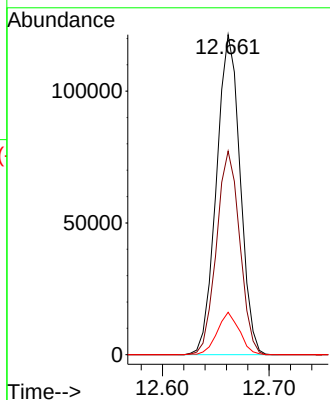
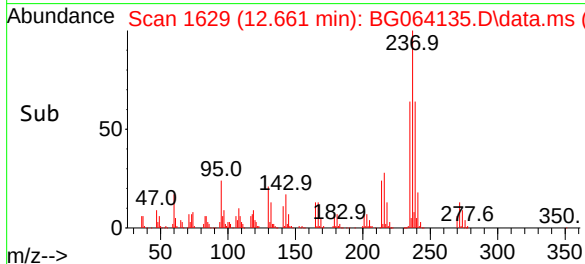
Instrument : BNA\_G  
ClientSampleId : P001-BBDGA-001-01-05MS



Tgt Ion:237 Resp: 187010  
Ion Ratio Lower Upper  
237 100  
235 63.6 46.0 86.0  
272 13.2 0.0 32.8

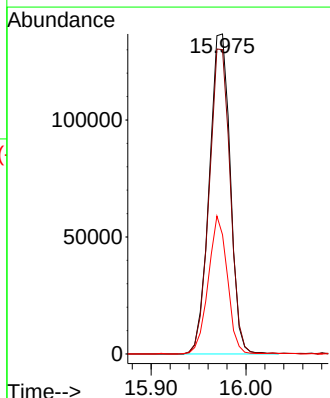
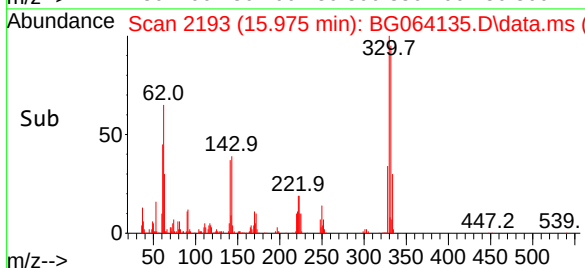
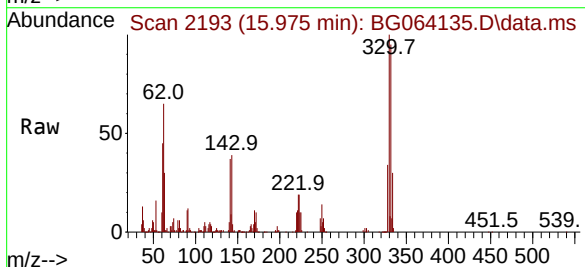
Manual Integrations  
APPROVED

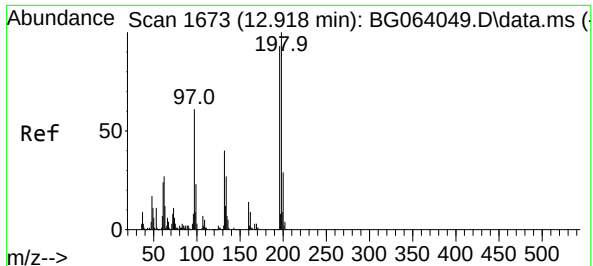
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#42  
2,4,6-Tribromophenol  
Concen: 184.219 ng  
RT: 15.975 min Scan# 2193  
Delta R.T. 0.002 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

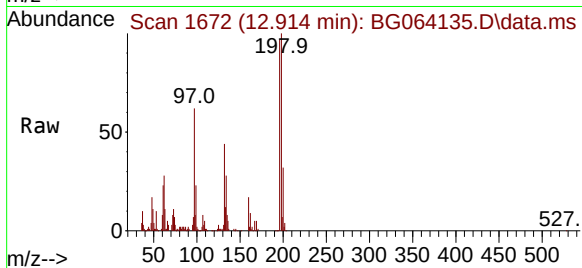
Tgt Ion:330 Resp: 209437  
Ion Ratio Lower Upper  
330 100  
332 95.7 76.7 115.1  
141 39.3 29.7 44.5





#43  
2,4,6-Trichlorophenol  
Concen: 61.625 ng  
RT: 12.914 min Scan# 1672  
Delta R.T. -0.004 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

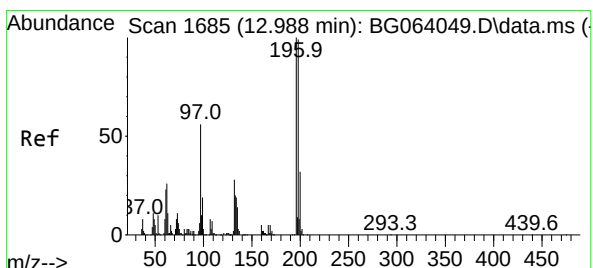
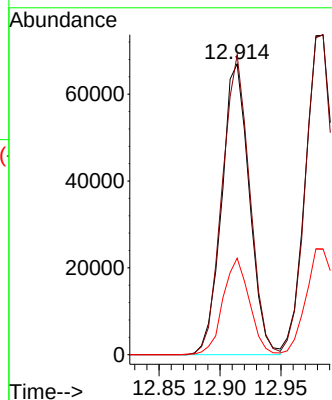
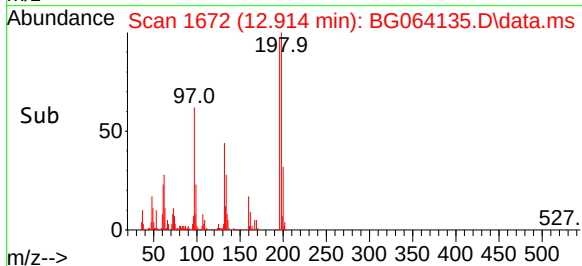
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:196 Resp: 10605  
Ion Ratio Lower Upper  
196 100  
198 103.2 85.6 128.4  
200 33.2 24.6 37.0

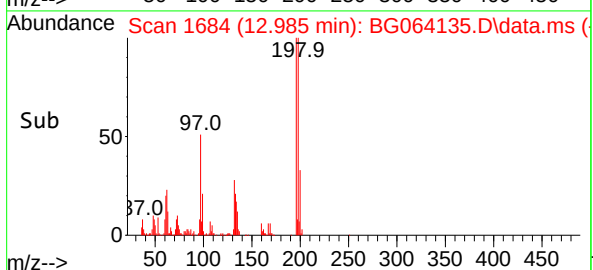
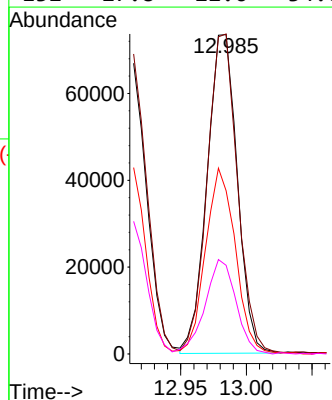
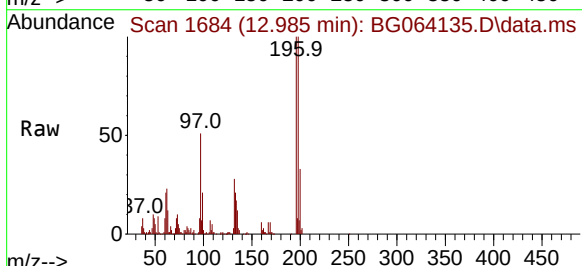
Manual Integrations  
APPROVED

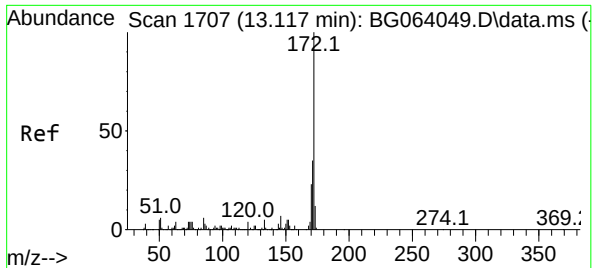
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#44  
2,4,5-Trichlorophenol  
Concen: 61.460 ng  
RT: 12.985 min Scan# 1684  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

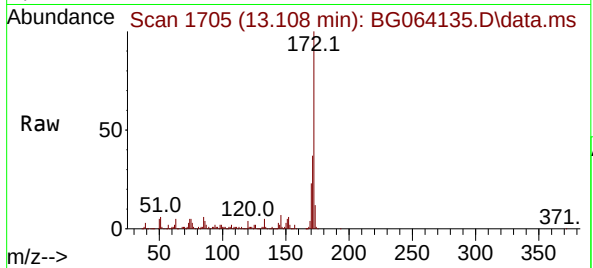
Tgt Ion:196 Resp: 117523  
Ion Ratio Lower Upper  
196 100  
198 100.2 79.5 119.3  
97 51.1 45.2 67.8  
132 27.8 22.6 34.0





#45  
2-Fluorobiphenyl  
Concen: 104.574 ng  
RT: 13.108 min Scan# 1705  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

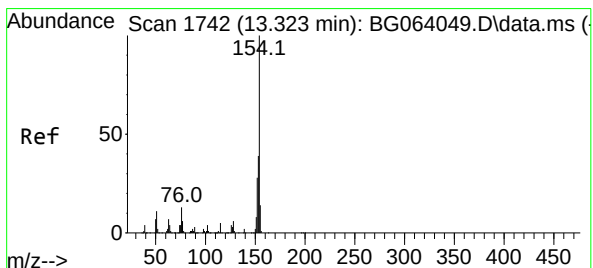
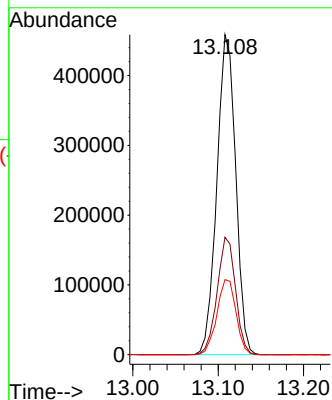
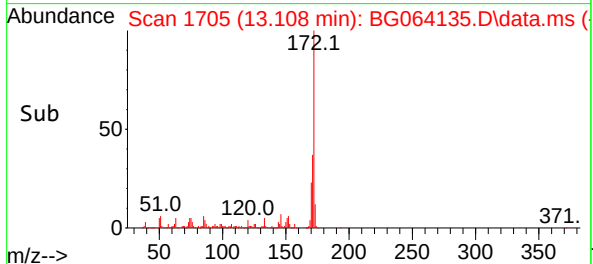
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:172 Resp: 704640  
Ion Ratio Lower Upper  
172 100  
171 36.7 28.0 42.0  
170 23.5 18.7 28.1

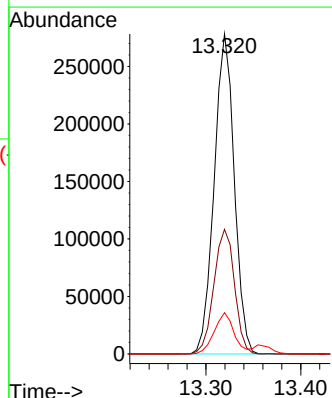
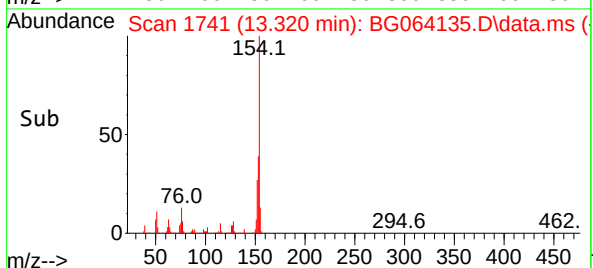
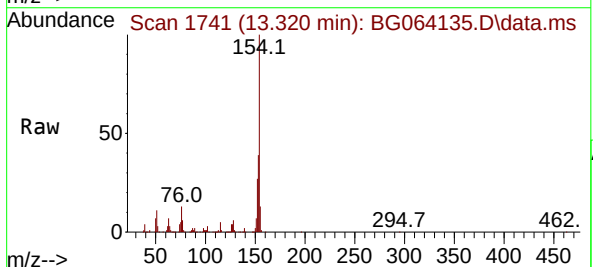
Manual Integrations  
**APPROVED**

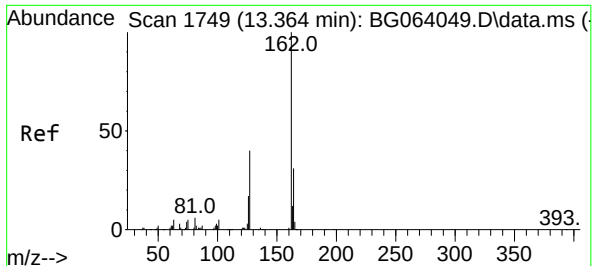
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#46  
1,1'-Biphenyl  
Concen: 53.002 ng  
RT: 13.320 min Scan# 1741  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

Tgt Ion:154 Resp: 409560  
Ion Ratio Lower Upper  
154 100  
153 39.0 19.5 59.5  
76 12.9 0.0 33.5





#47

2-Chloronaphthalene

Concen: 53.437 ng

RT: 13.361 min Scan# 1748

Delta R.T. -0.004 min

Lab File: BG064135.D

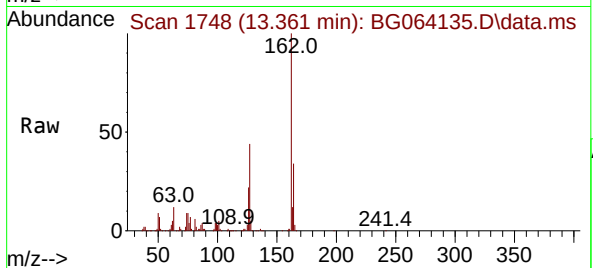
Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS



Tgt Ion:162 Resp: 301152

Ion Ratio Lower Upper

162 100

127 44.1 35.0 52.4

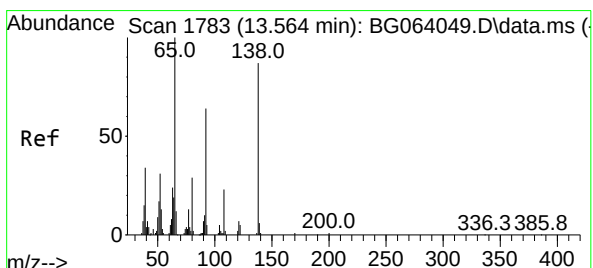
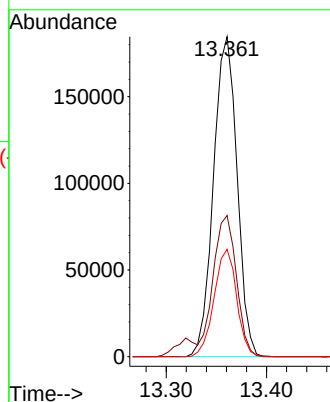
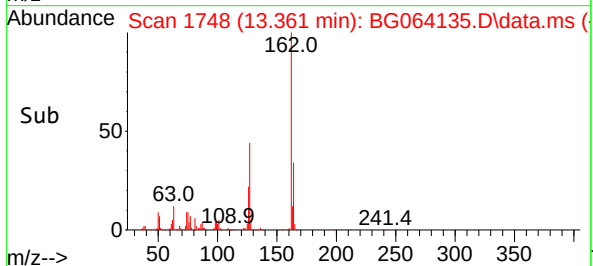
164 33.6 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#48

2-Nitroaniline

Concen: 59.139 ng

RT: 13.560 min Scan# 1782

Delta R.T. -0.004 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

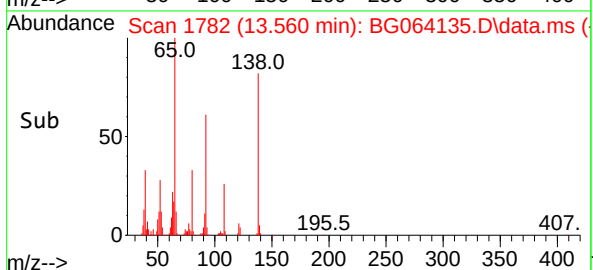
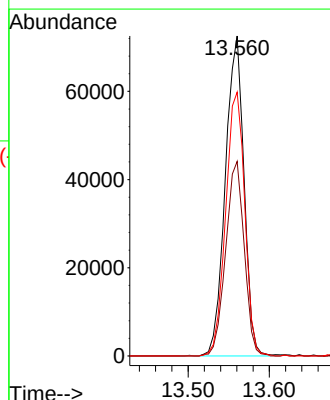
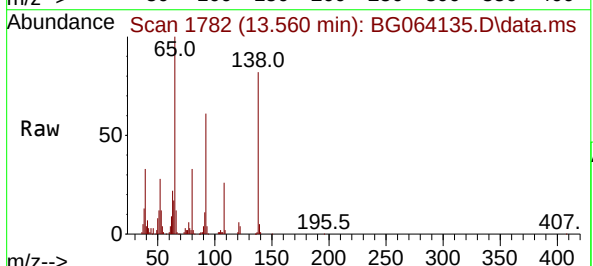
Tgt Ion: 65 Resp: 115806

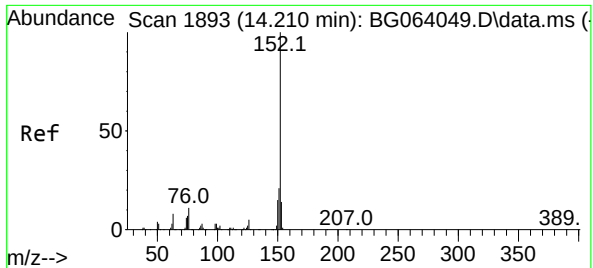
Ion Ratio Lower Upper

65 100

92 60.8 51.2 76.8

138 82.5 69.4 104.2





#49

Acenaphthylene

Concen: 56.277 ng

RT: 14.207 min Scan# 1892

Delta R.T. -0.003 min

Lab File: BG064135.D

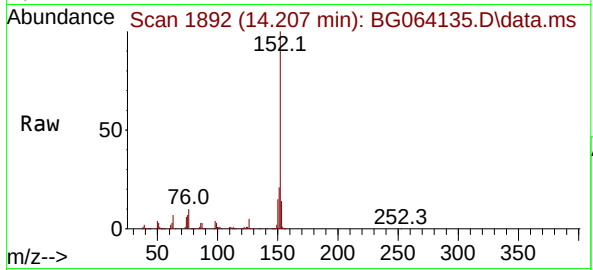
Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS



Tgt Ion:152 Resp: 501658

Ion Ratio Lower Upper

152 100

151 21.2 16.4 24.6

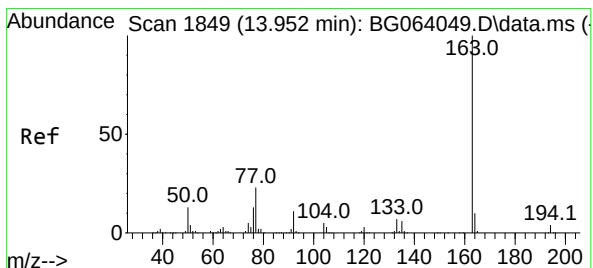
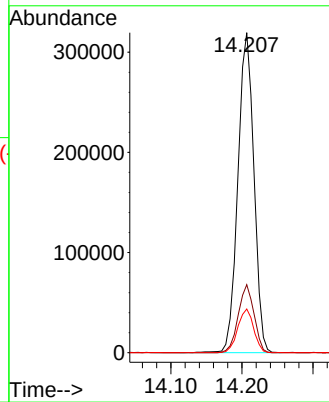
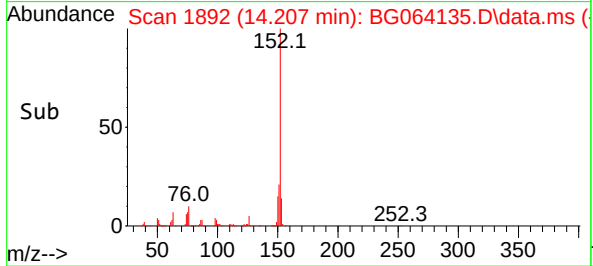
153 13.7 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#50

Dimethylphthalate

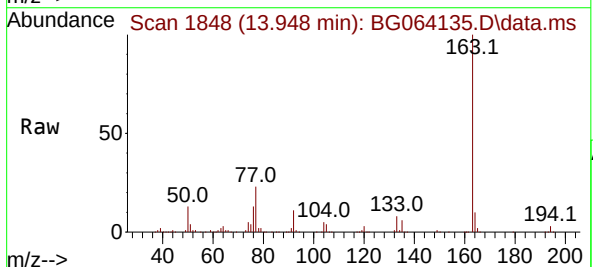
Concen: 54.772 ng

RT: 13.948 min Scan# 1848

Delta R.T. -0.004 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03



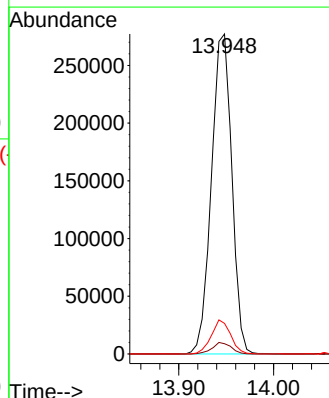
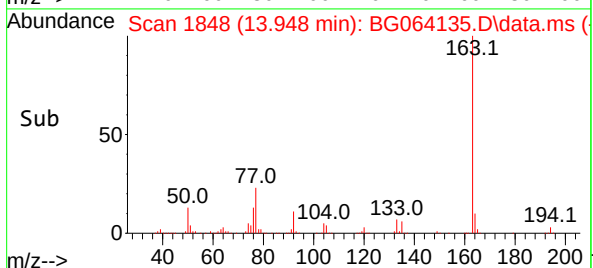
Tgt Ion:163 Resp: 413521

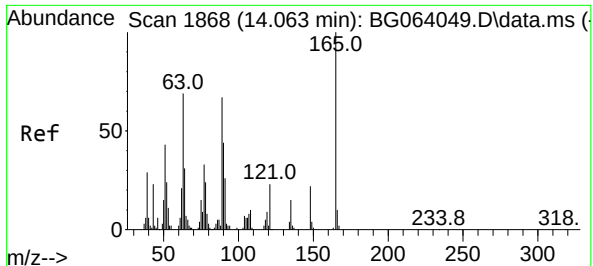
Ion Ratio Lower Upper

163 100

194 3.2 2.8 4.2

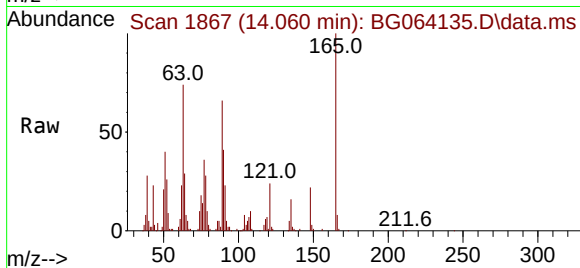
164 9.6 8.2 12.2





#51  
2,6-Dinitrotoluene  
Concen: 55.360 ng  
RT: 14.060 min Scan# 1867  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

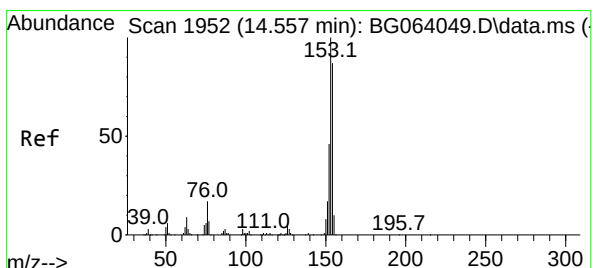
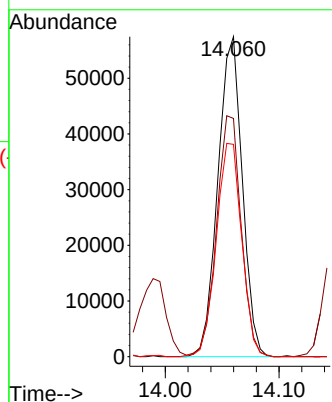
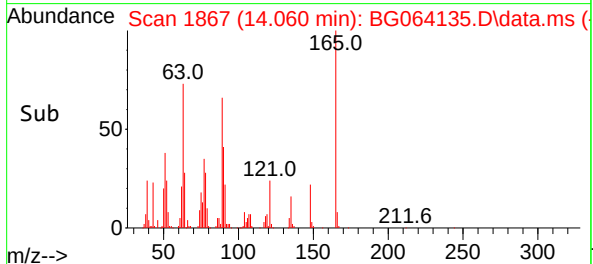
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:165 Resp: 8564  
Ion Ratio Lower Upper  
165 100  
63 74.5 56.7 85.1  
89 66.3 53.7 80.5

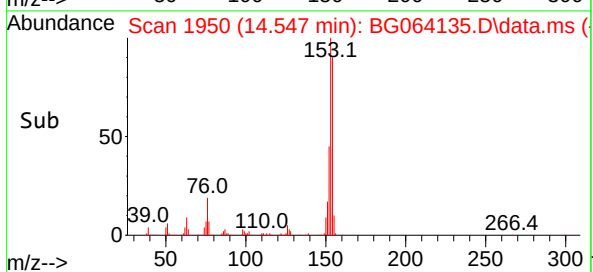
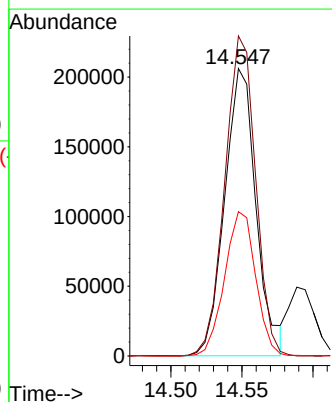
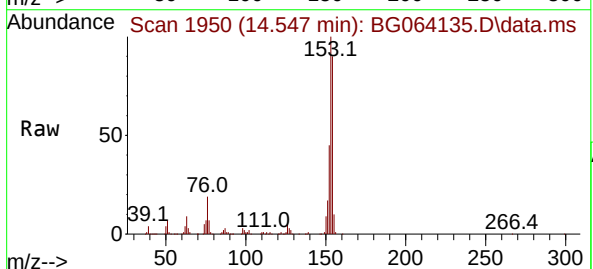
Manual Integrations  
APPROVED

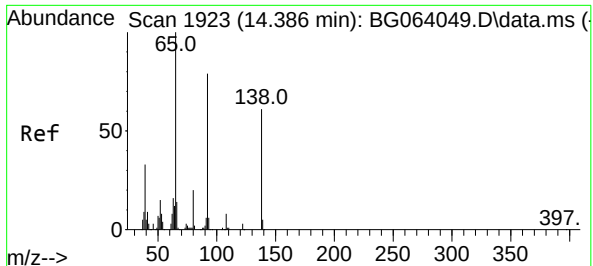
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#52  
Acenaphthene  
Concen: 53.023 ng  
RT: 14.547 min Scan# 1950  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

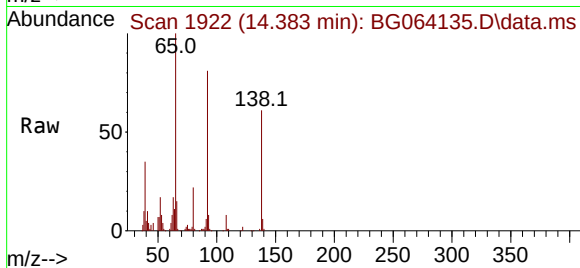
Tgt Ion:154 Resp: 317199  
Ion Ratio Lower Upper  
154 100  
153 111.4 91.6 137.4  
152 50.2 42.5 63.7





#53  
3-Nitroaniline  
Concen: 27.699 ng  
RT: 14.383 min Scan# 1922  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

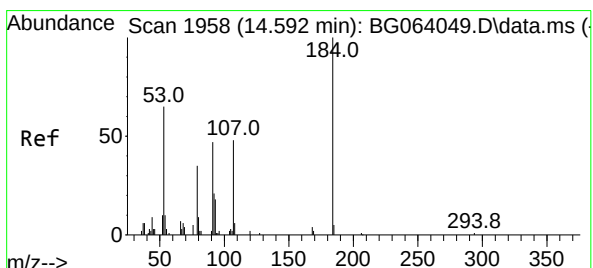
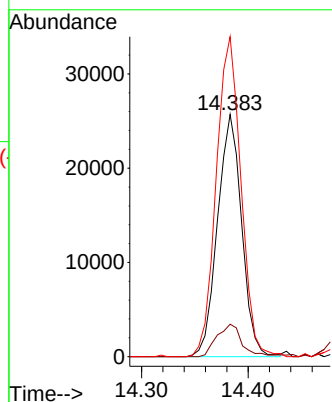
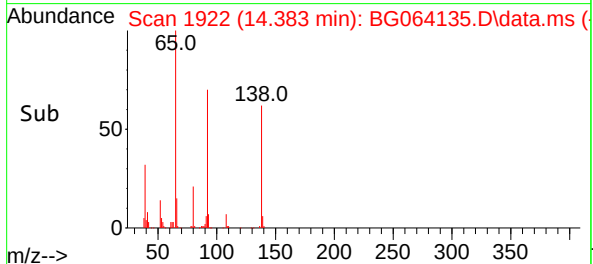
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:138 Resp: 40418  
Ion Ratio Lower Upper  
138 100  
108 13.4 10.1 15.1  
92 132.1 104.1 156.1

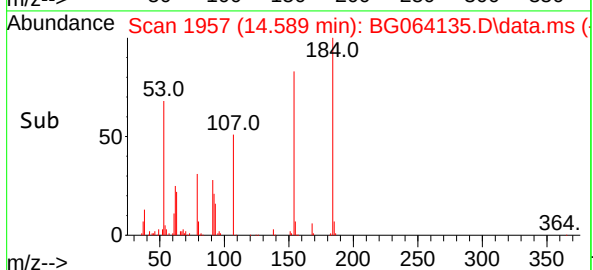
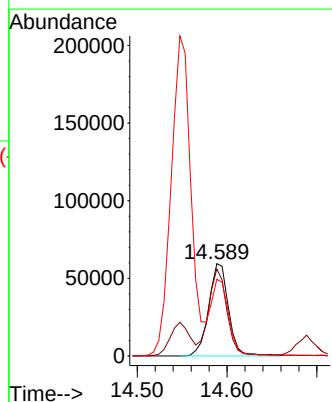
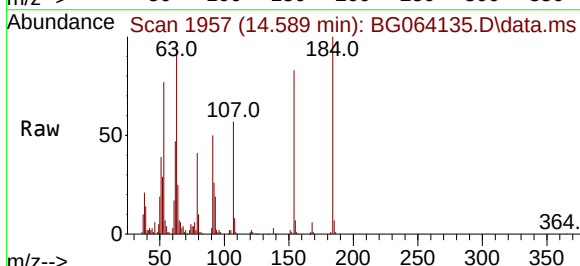
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

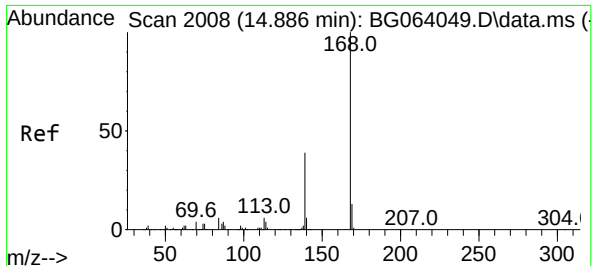


#54  
2,4-Dinitrophenol  
Concen: 136.095 ng  
RT: 14.589 min Scan# 1957  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

Tgt Ion:184 Resp: 90826  
Ion Ratio Lower Upper  
184 100  
63 94.4 57.5 86.3#  
154 83.1 52.3 78.5#







#55

Dibenzenofuran

Concen: 50.643 ng

RT: 14.882 min Scan# 20

Delta R.T. -0.004 min

Lab File: BG064135.D

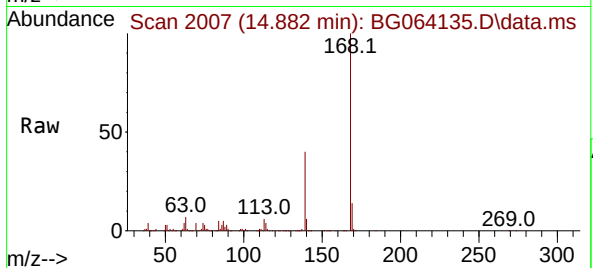
Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS



Tgt Ion:168 Resp: 49080

Ion Ratio Lower Upper

168 100

139 39.9 31.1 46.7

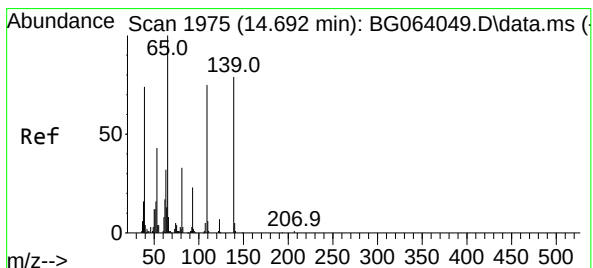
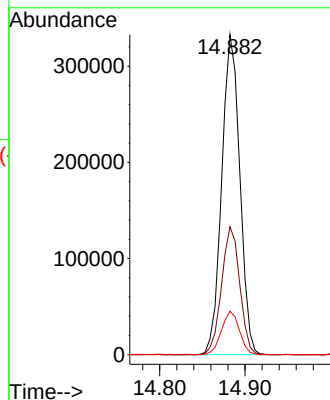
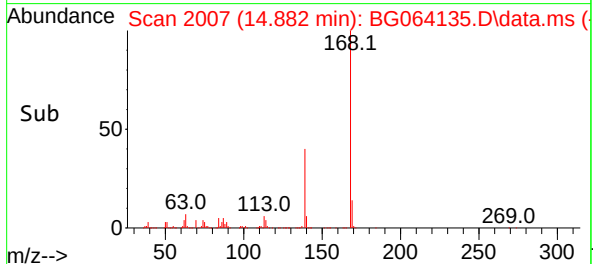
169 13.6 10.5 15.7

Manual Integrations

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Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#56

4-Nitrophenol

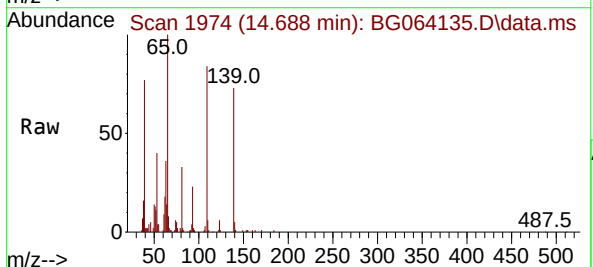
Concen: 36.426 ng

RT: 14.688 min Scan# 1974

Delta R.T. -0.004 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03



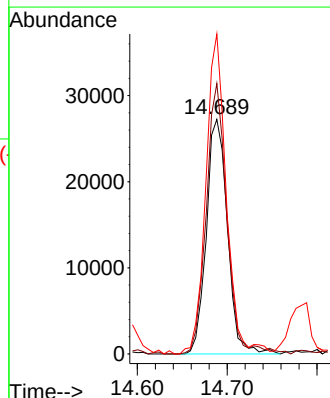
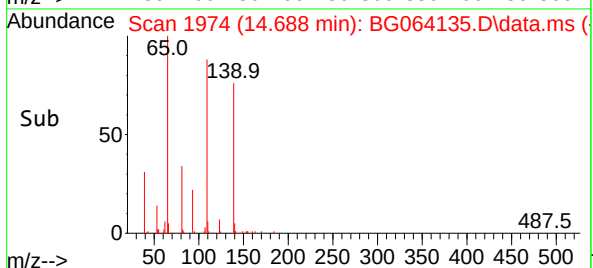
Tgt Ion:139 Resp: 44577

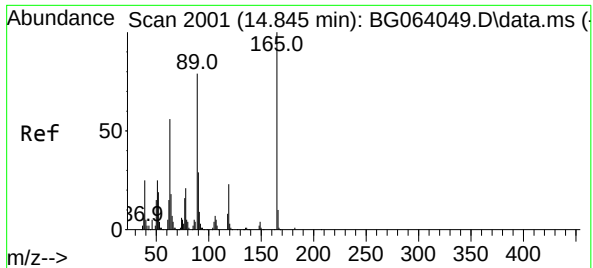
Ion Ratio Lower Upper

139 100

109 115.2 74.9 114.9#

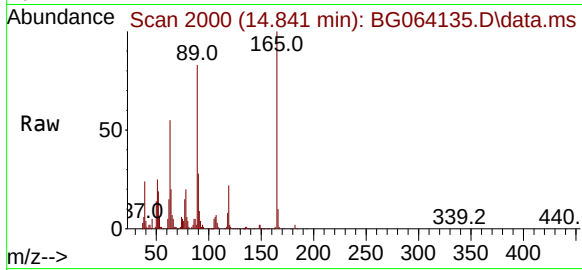
65 136.4 106.8 146.8





#57  
2,4-Dinitrotoluene  
Concen: 59.472 ng  
RT: 14.841 min Scan# 2001  
Delta R.T. -0.004 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

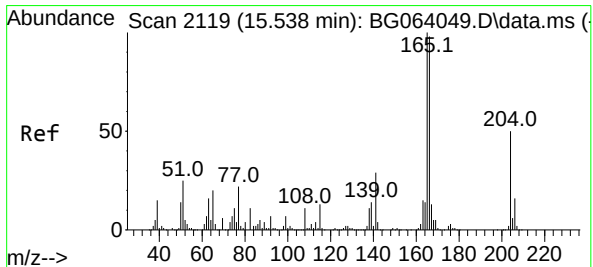
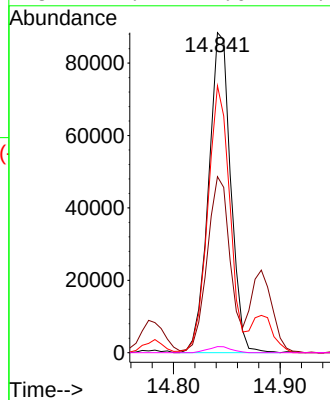
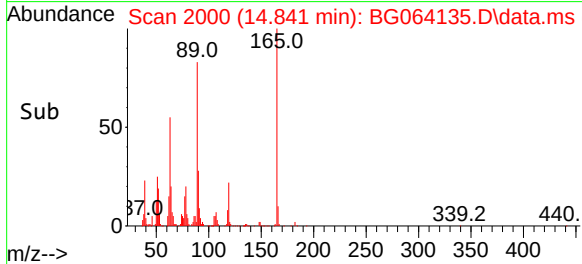
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:165 Resp: 12768  
Ion Ratio Lower Upper  
165 100  
63 55.0 45.0 67.6  
89 83.4 63.1 94.7  
182 1.9 1.0 1.4#

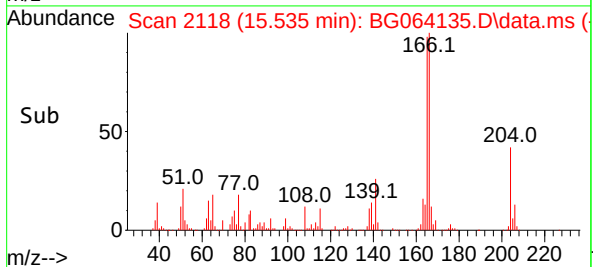
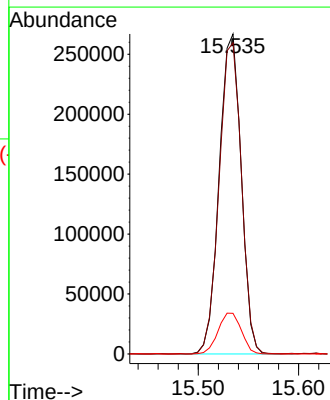
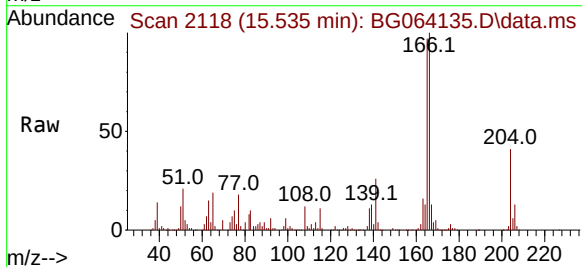
Manual Integrations  
APPROVED

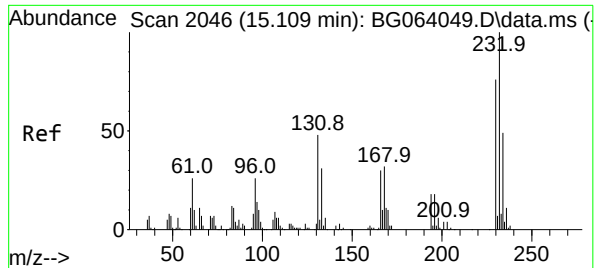
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#58  
Fluorene  
Concen: 53.658 ng  
RT: 15.535 min Scan# 2118  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

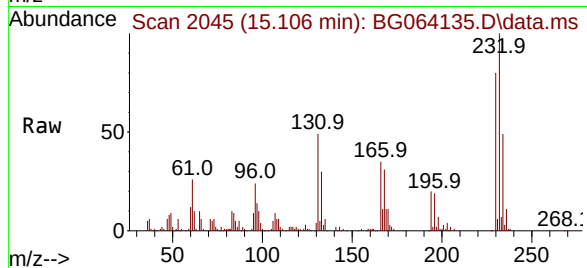
Tgt Ion:166 Resp: 405019  
Ion Ratio Lower Upper  
166 100  
165 97.3 81.8 122.8  
167 12.7 10.8 16.2





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 60.895 ng  
RT: 15.106 min Scan# 2045  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

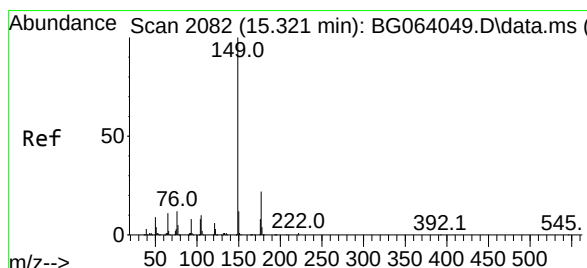
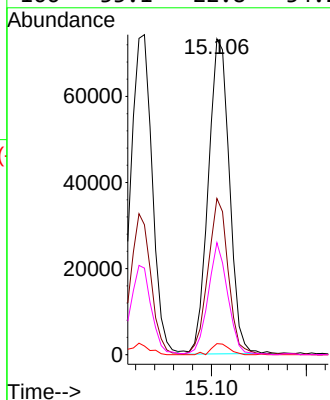
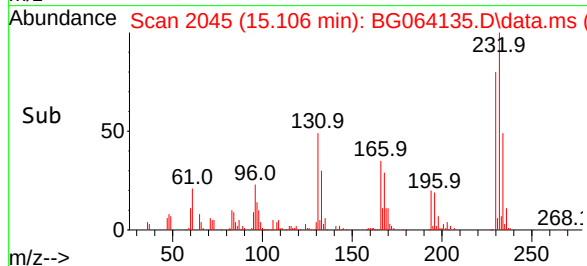
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:232 Resp: 113519  
Ion Ratio Lower Upper  
232 100  
131 47.3 36.3 54.5  
130 3.0 1.9 2.9  
166 33.1 22.8 34.2

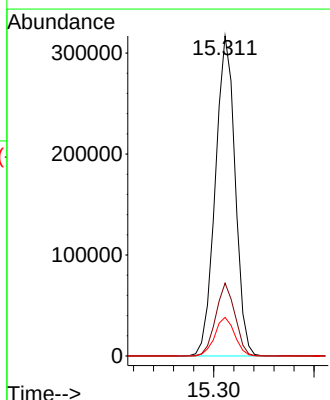
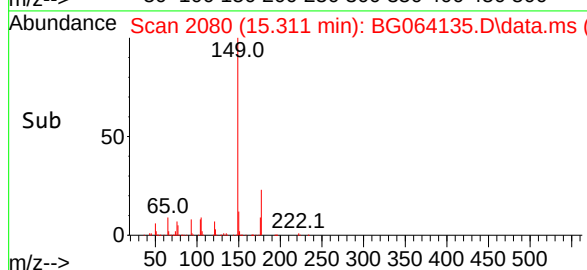
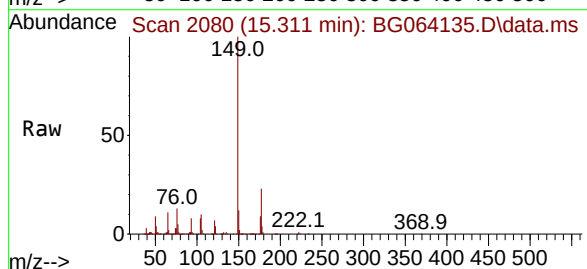
Manual Integrations  
APPROVED

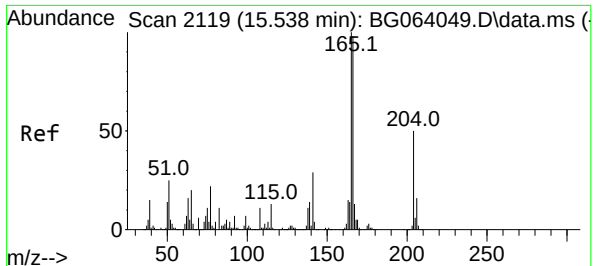
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#60  
Diethylphthalate  
Concen: 52.918 ng  
RT: 15.311 min Scan# 2080  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

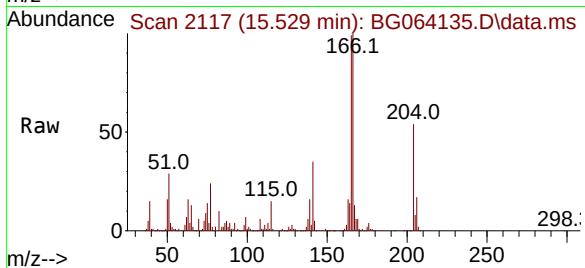
Tgt Ion:149 Resp: 433728  
Ion Ratio Lower Upper  
149 100  
177 22.8 17.4 26.2  
150 12.1 9.4 14.2





#61  
4-Chlorophenyl-phenylether  
Concen: 51.139 ng  
RT: 15.529 min Scan# 2117  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

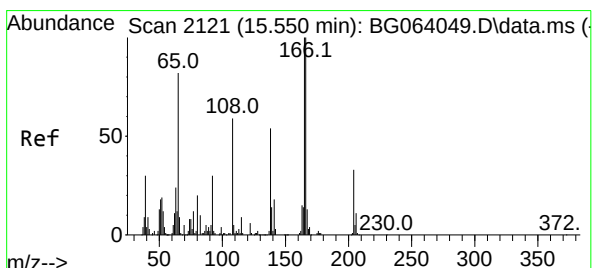
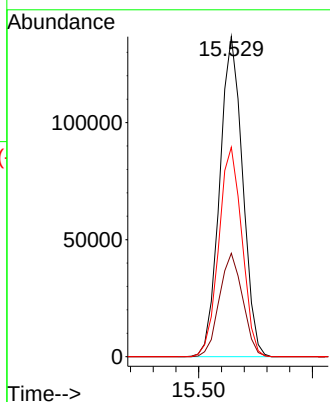
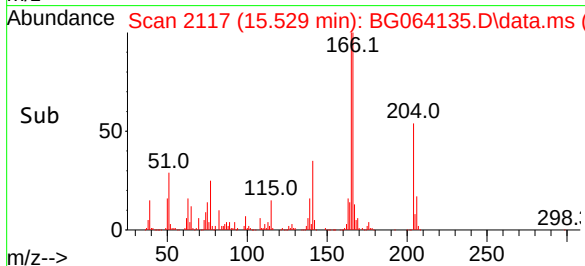
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



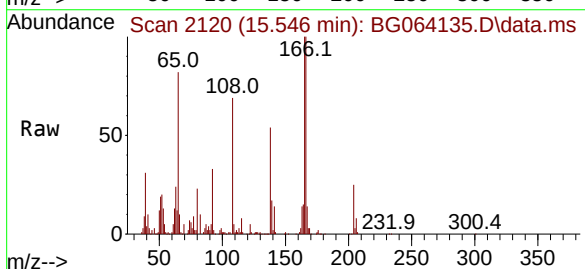
Tgt Ion:204 Resp: 19182  
Ion Ratio Lower Upper  
204 100  
206 32.3 25.5 38.3  
141 65.4 45.4 68.0

Manual Integrations  
APPROVED

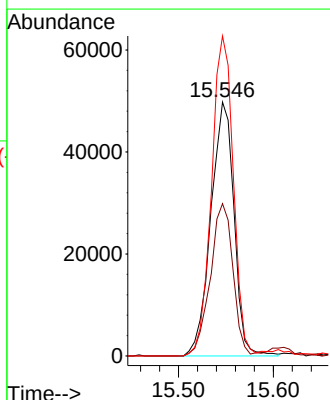
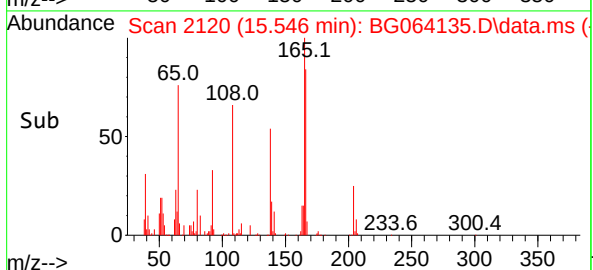
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

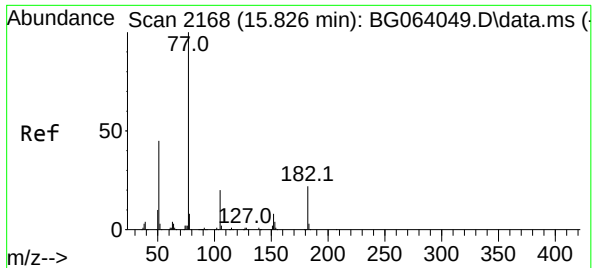


#62  
4-Nitroaniline  
Concen: 53.717 ng  
RT: 15.546 min Scan# 2120  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03



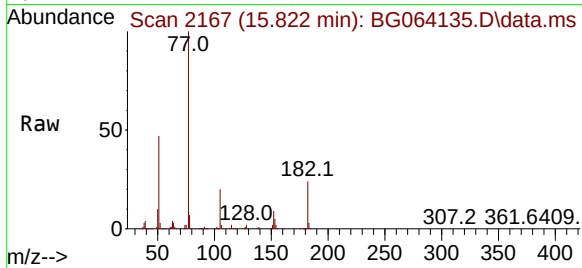
Tgt Ion:138 Resp: 84625  
Ion Ratio Lower Upper  
138 100  
92 60.0 36.1 76.1  
108 126.0 87.9 127.9





#63  
Azobenzene  
Concen: 51.402 ng  
RT: 15.822 min Scan# 2167  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

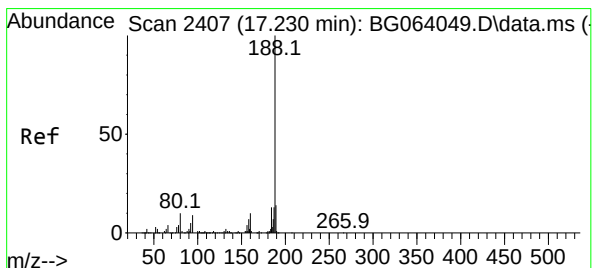
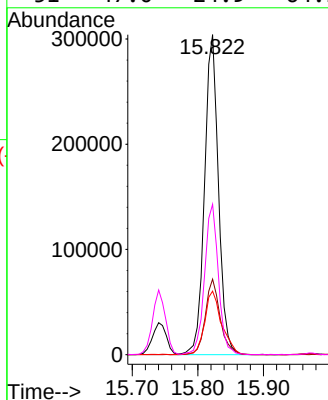
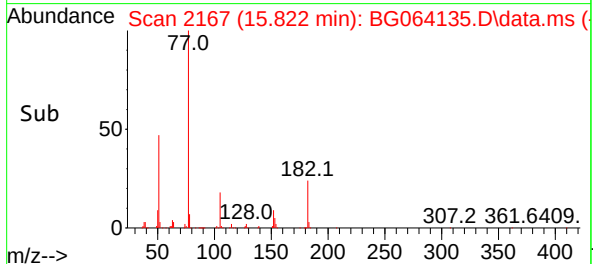
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion: 77 Resp: 44956  
Ion Ratio Lower Upper  
77 100  
182 23.6 2.4 42.4  
105 19.8 0.0 40.0  
51 47.0 24.9 64.9

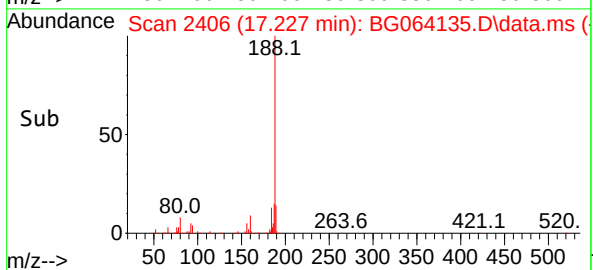
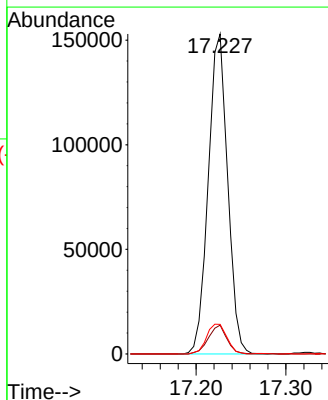
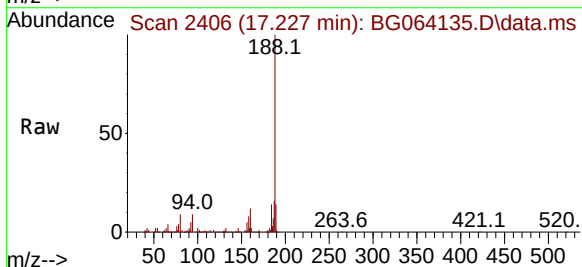
Manual Integrations  
APPROVED

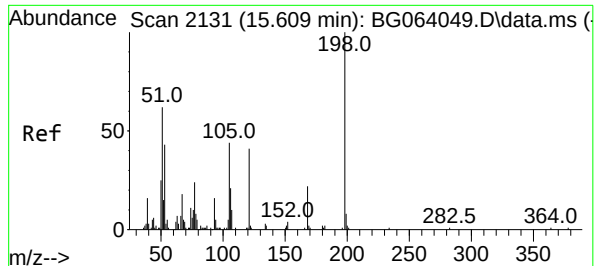
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.227 min Scan# 2406  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

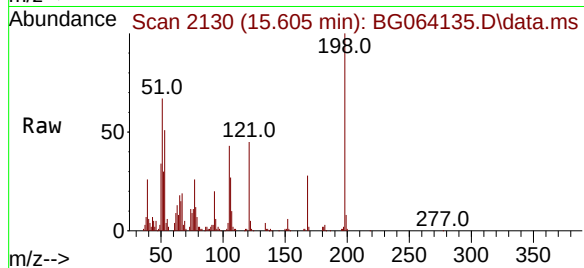
Tgt Ion:188 Resp: 228948  
Ion Ratio Lower Upper  
188 100  
94 9.0 6.9 10.3  
80 9.3 8.1 12.1





#65  
4,6-Dinitro-2-methylphenol  
Concen: 70.318 ng  
RT: 15.605 min Scan# 2131  
Delta R.T. -0.004 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

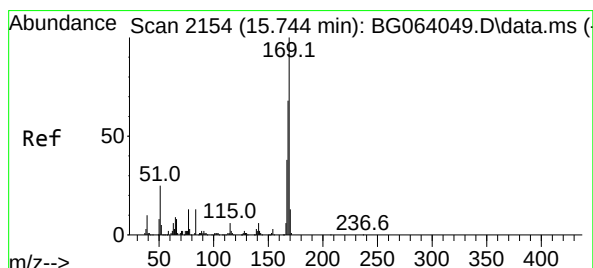
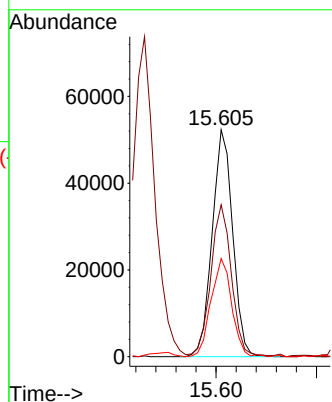
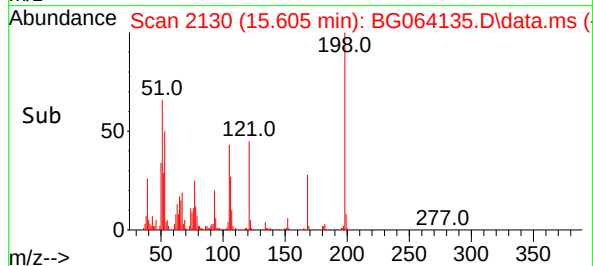
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:198 Resp: 7408  
Ion Ratio Lower Upper  
198 100  
51 66.9 45.6 85.6  
105 43.2 25.3 65.3

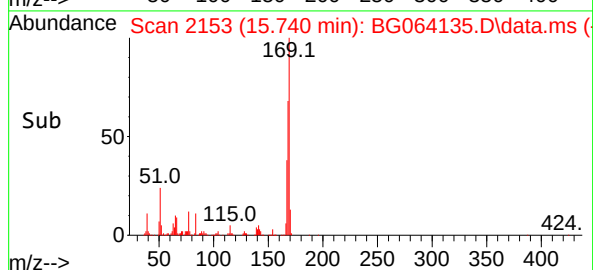
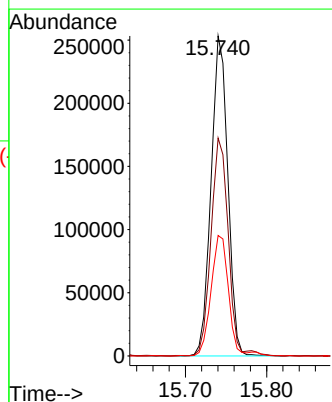
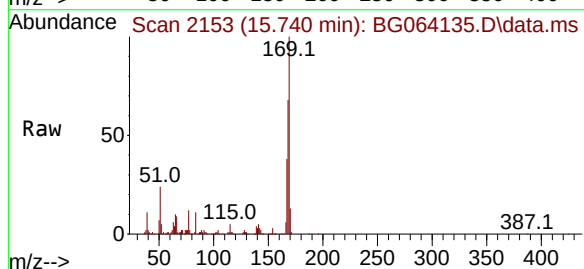
Manual Integrations  
APPROVED

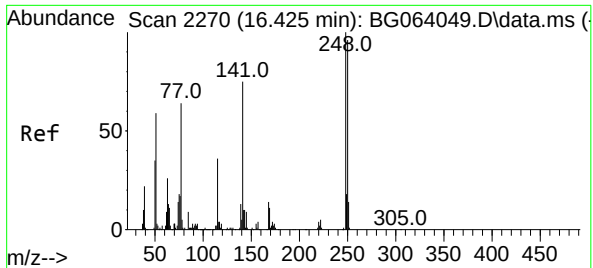
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#66  
n-Nitrosodiphenylamine  
Concen: 55.908 ng  
RT: 15.740 min Scan# 2153  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

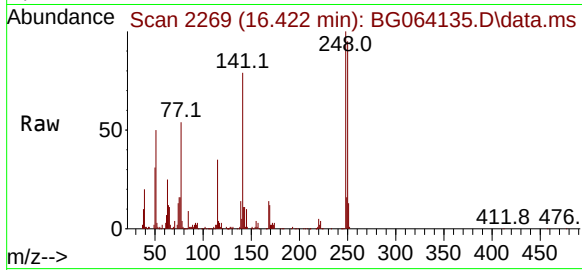
Tgt Ion:169 Resp: 362322  
Ion Ratio Lower Upper  
169 100  
168 68.1 54.1 81.1  
167 37.6 30.3 45.5





#67  
4-Bromophenyl-phenylether  
Concen: 57.375 ng  
RT: 16.422 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

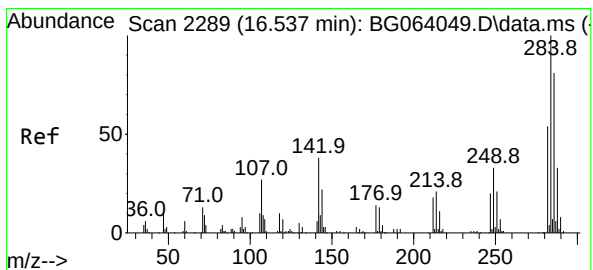
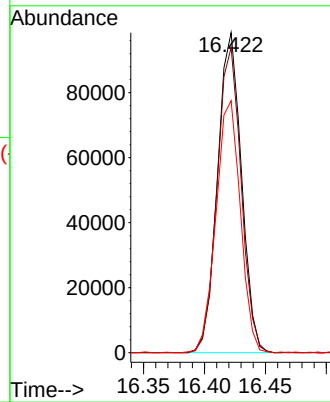
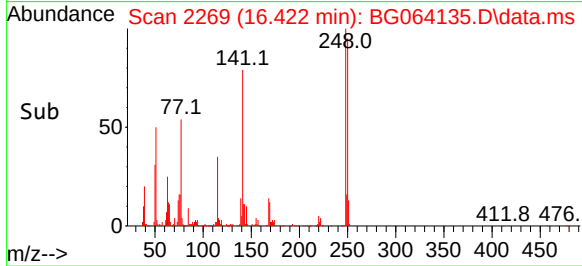
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:248 Resp: 13453  
Ion Ratio Lower Upper  
248 100  
250 95.4 77.1 115.7  
141 78.8 59.8 89.8

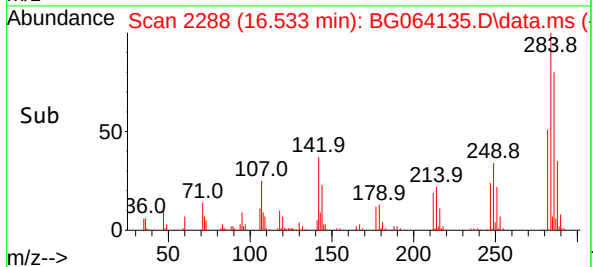
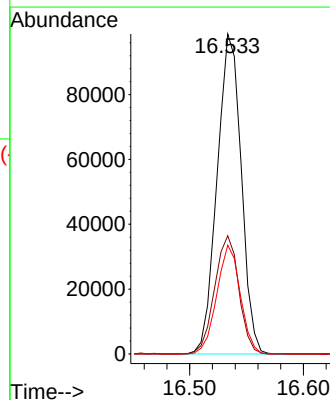
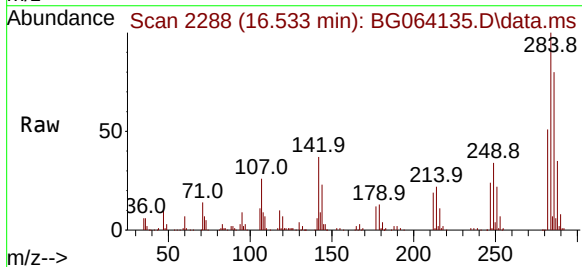
Manual Integrations  
APPROVED

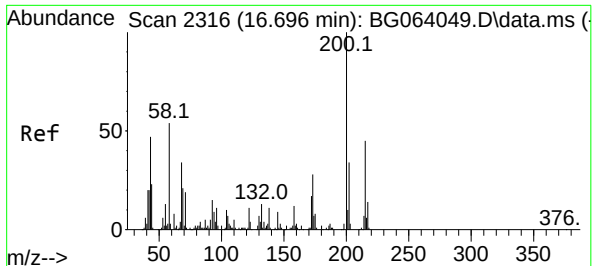
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#68  
Hexachlorobenzene  
Concen: 55.446 ng  
RT: 16.533 min Scan# 2288  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

Tgt Ion:284 Resp: 145556  
Ion Ratio Lower Upper  
284 100  
142 37.0 30.6 45.8  
249 34.0 26.6 39.8





#69

Atrazine

Concen: 79.291 ng

RT: 16.692 min Scan# 21

Delta R.T. -0.004 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS

Tgt Ion:200 Resp: 151192

Ion Ratio Lower Upper

200 100

173 22.8 8.2 48.2

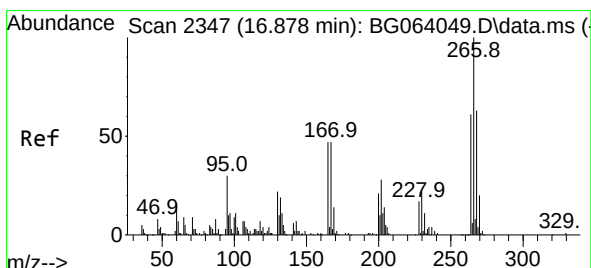
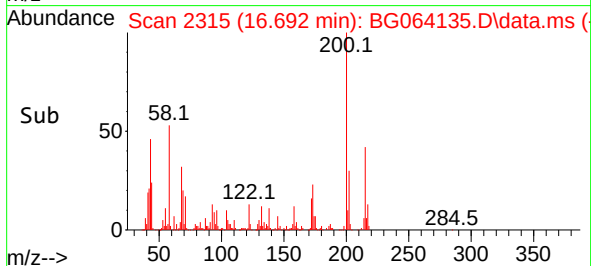
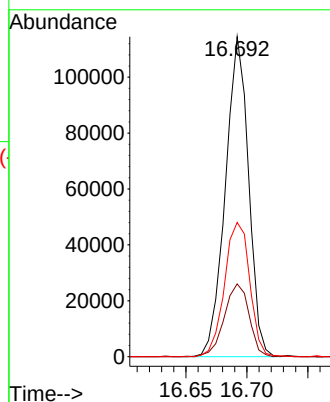
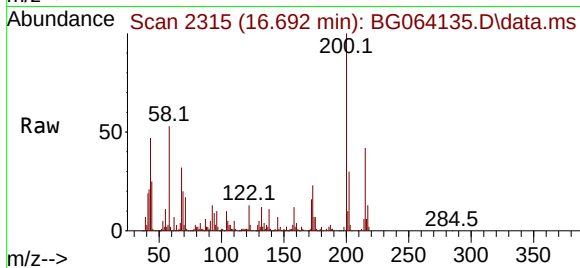
215 42.0 25.5 65.5

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#70

Pentachlorophenol

Concen: 132.509 ng

RT: 16.874 min Scan# 2346

Delta R.T. -0.004 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

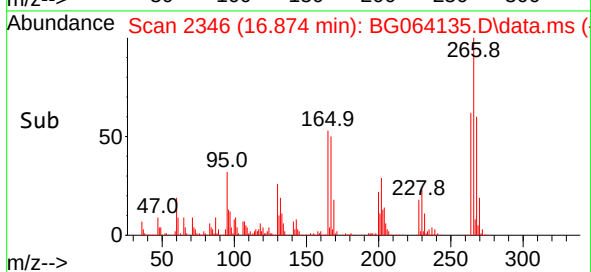
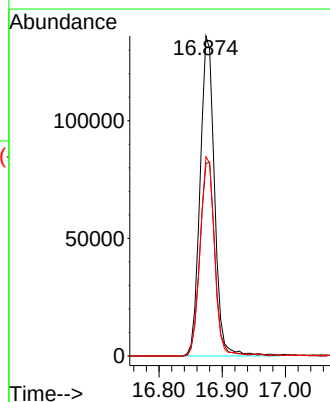
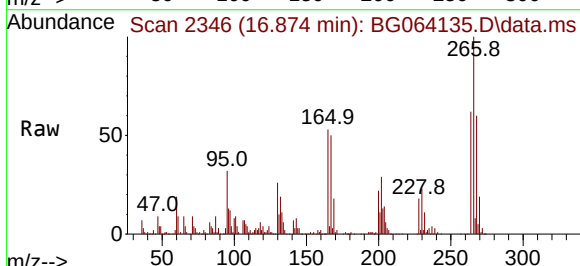
Tgt Ion:266 Resp: 215982

Ion Ratio Lower Upper

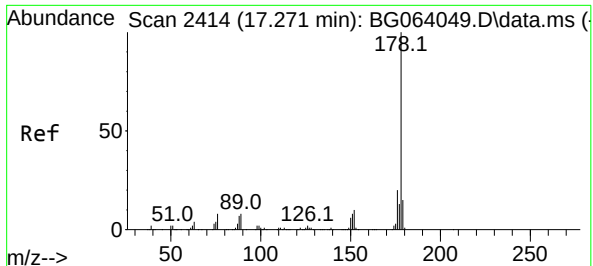
266 100

268 60.2 50.2 75.4

264 62.3 48.9 73.3

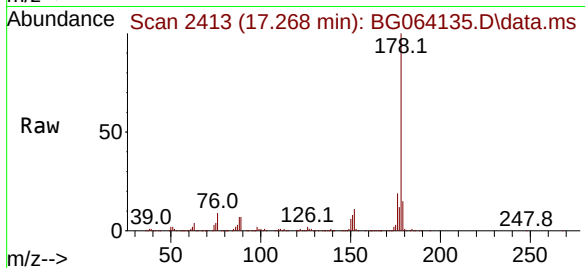






#71  
Phenanthrene  
Concen: 56.747 ng  
RT: 17.268 min Scan# 2414  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

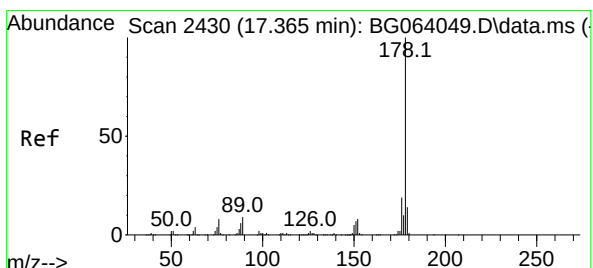
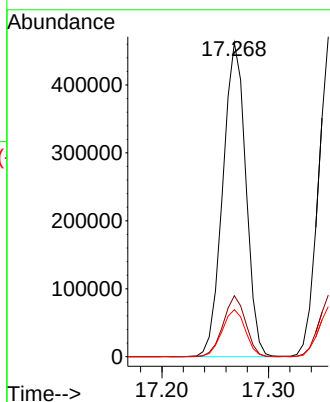
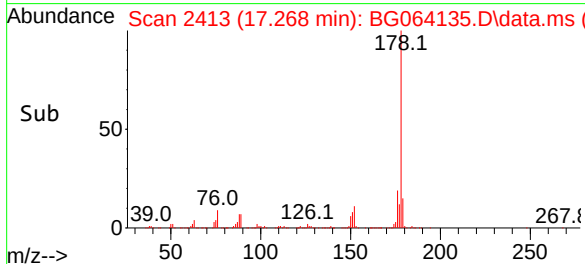
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



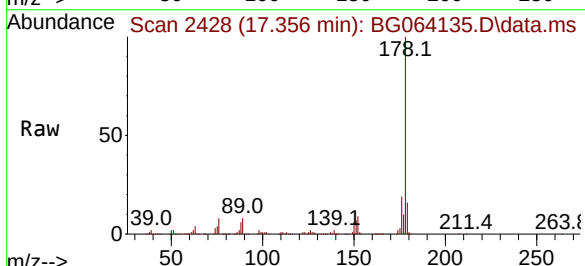
Tgt Ion:178 Resp: 692975  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.9 23.9  
179 15.0 12.2 18.2

Manual Integrations  
APPROVED

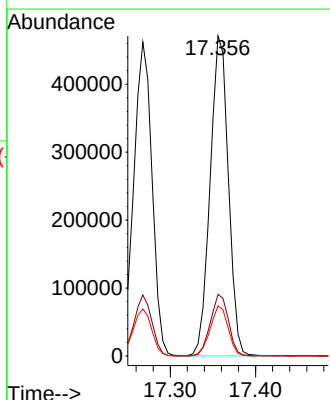
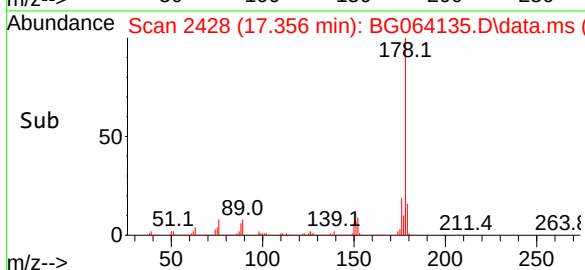
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

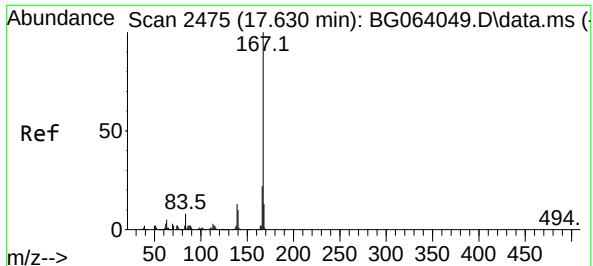


#72  
Anthracene  
Concen: 57.590 ng  
RT: 17.356 min Scan# 2428  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03



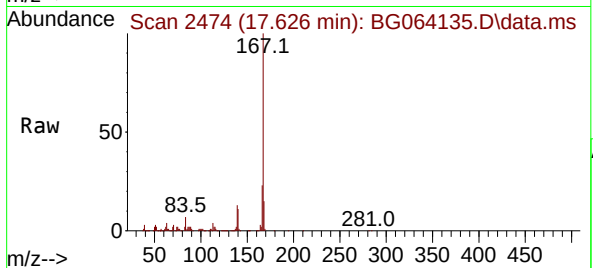
Tgt Ion:178 Resp: 699296  
Ion Ratio Lower Upper  
178 100  
176 19.3 14.8 22.2  
179 15.7 11.5 17.3





#73  
Carbazole  
Concen: 58.686 ng  
RT: 17.626 min Scan# 2475  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

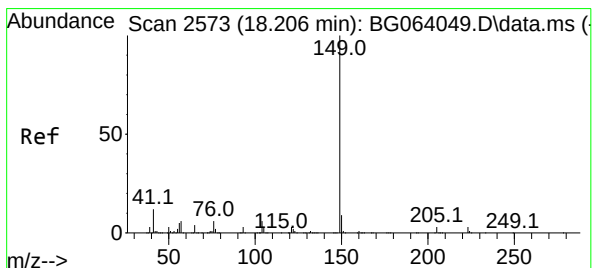
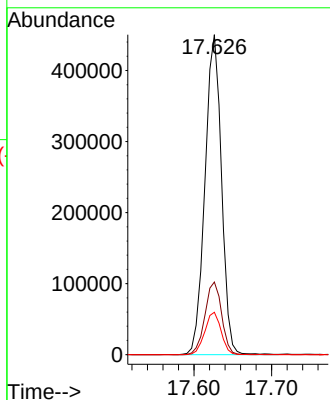
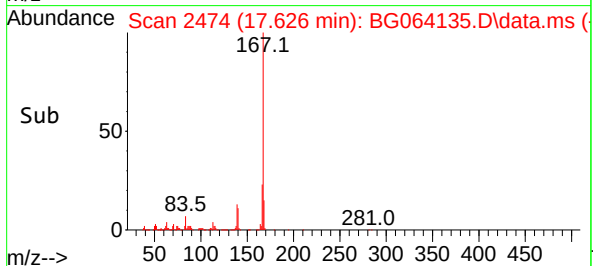
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:167 Resp: 66533  
Ion Ratio Lower Upper  
167 100  
166 22.7 18.0 27.0  
139 13.2 10.6 15.8

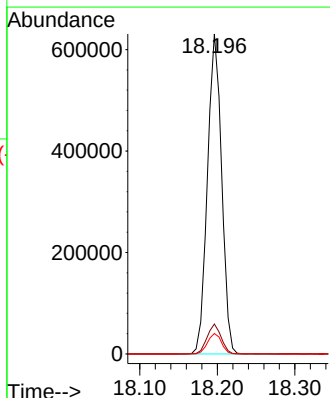
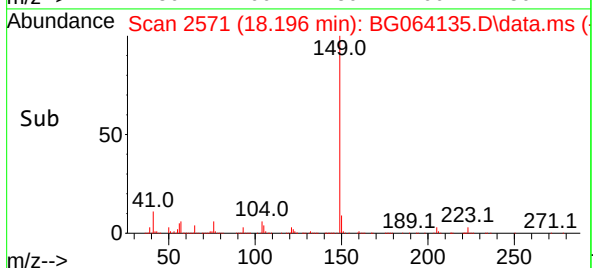
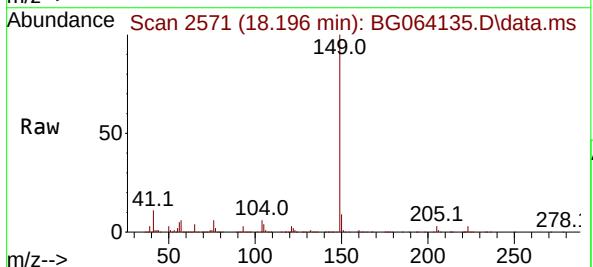
Manual Integrations  
**APPROVED**

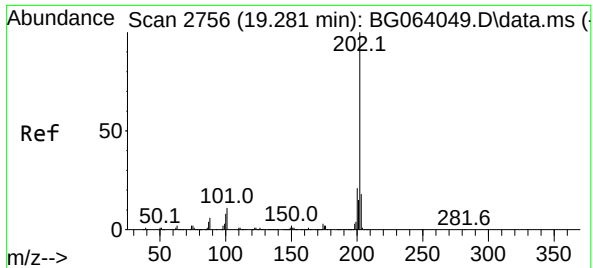
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#74  
Di-n-butylphthalate  
Concen: 60.035 ng  
RT: 18.196 min Scan# 2571  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

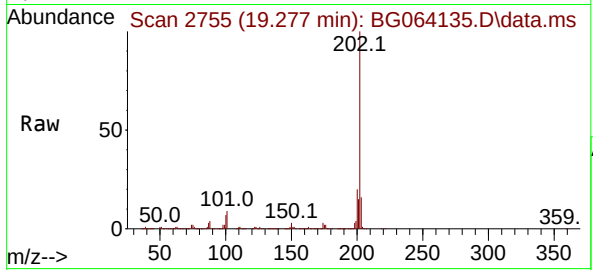
Tgt Ion:149 Resp: 801167  
Ion Ratio Lower Upper  
149 100  
150 9.3 7.4 11.0  
104 6.4 5.0 7.6





#75  
Fluoranthene  
Concen: 58.810 ng  
RT: 19.277 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

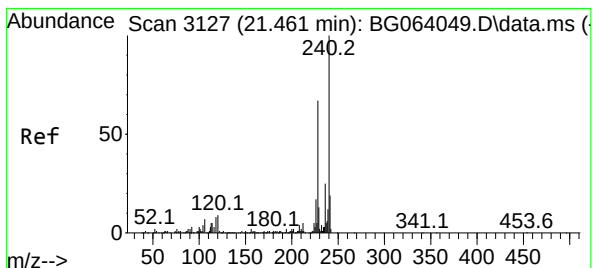
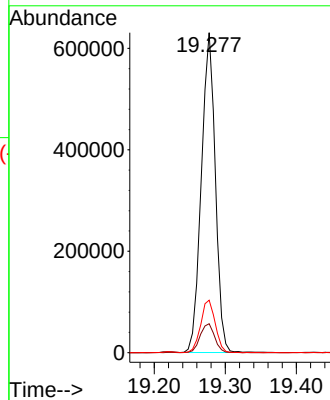
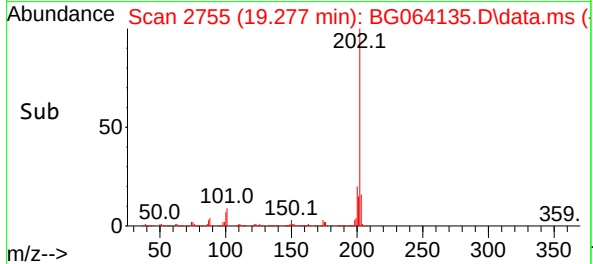
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:202 Resp: 86579  
Ion Ratio Lower Upper  
202 100  
101 9.1 0.0 30.5  
203 16.4 0.0 38.3

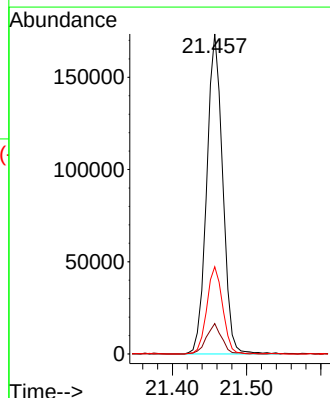
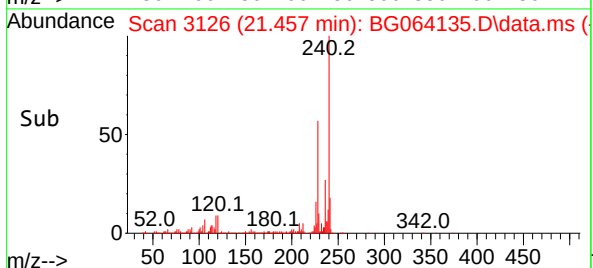
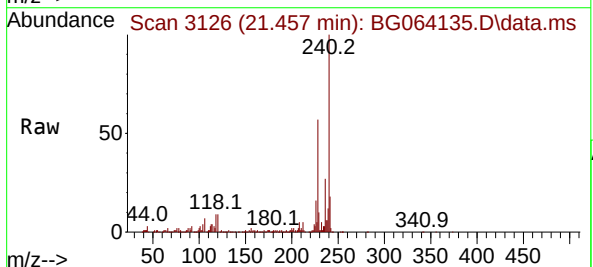
Manual Integrations  
**APPROVED**

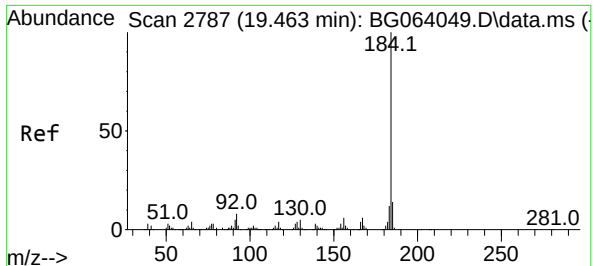
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.457 min Scan# 3126  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

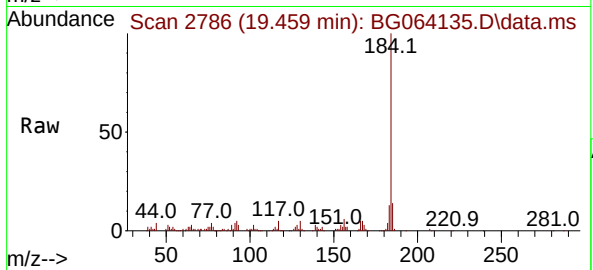
Tgt Ion:240 Resp: 259874  
Ion Ratio Lower Upper  
240 100  
120 9.5 7.2 10.8  
236 27.2 20.2 30.2





#77  
Benzidine  
Concen: 25.725 ng  
RT: 19.459 min Scan# 21  
Delta R.T. -0.004 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

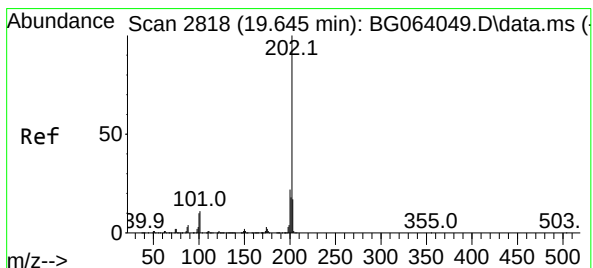
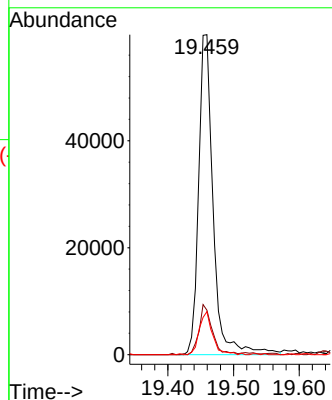
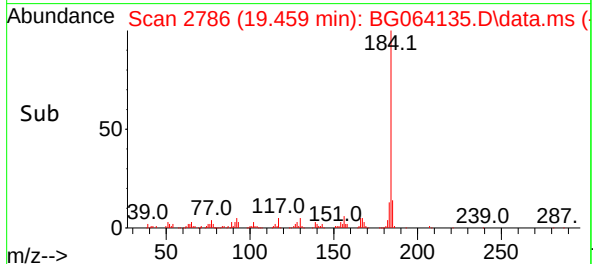
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:184 Resp: 92570  
Ion Ratio Lower Upper  
184 100  
185 13.9 11.3 16.9  
183 13.5 9.5 14.3

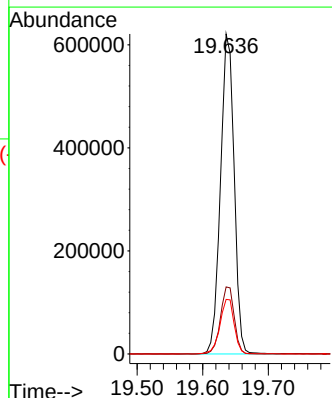
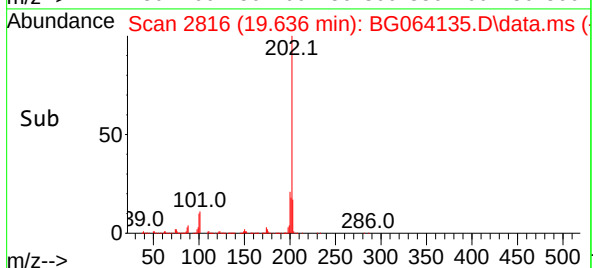
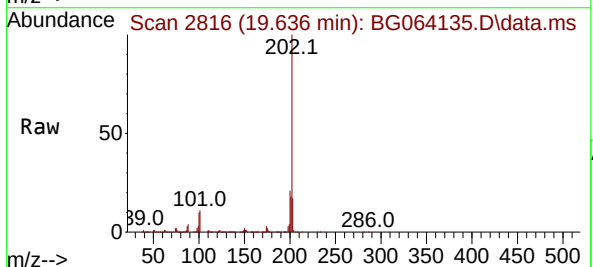
Manual Integrations  
**APPROVED**

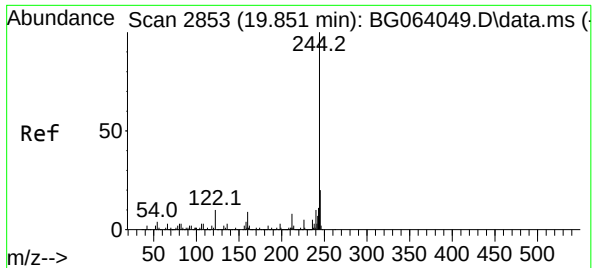
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#78  
Pyrene  
Concen: 53.312 ng  
RT: 19.636 min Scan# 2816  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

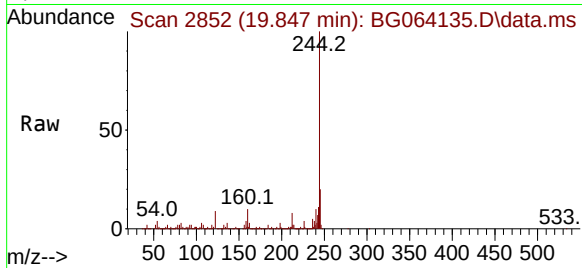
Tgt Ion:202 Resp: 893089  
Ion Ratio Lower Upper  
202 100  
200 21.0 17.3 25.9  
203 17.0 13.6 20.4





#79  
Terphenyl-d14  
Concen: 101.982 ng  
RT: 19.847 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

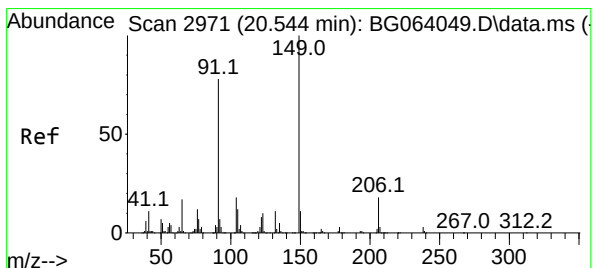
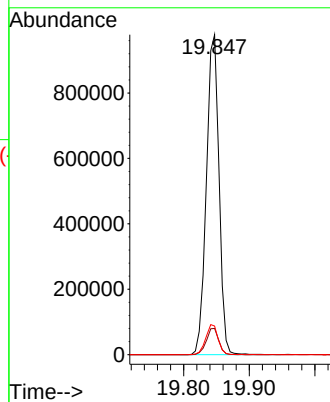
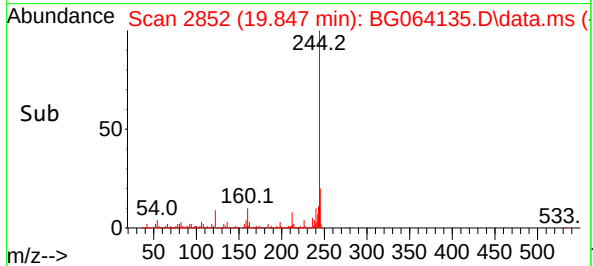
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:244 Resp: 131070  
Ion Ratio Lower Upper  
244 100  
212 8.2 6.2 9.4  
122 9.0 8.0 12.0

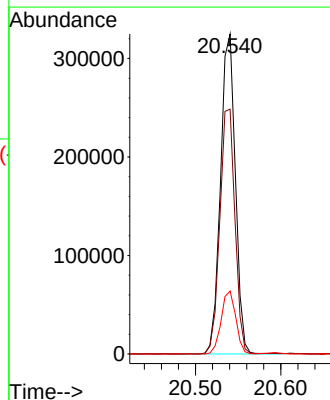
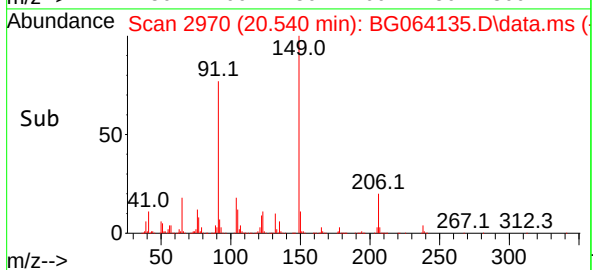
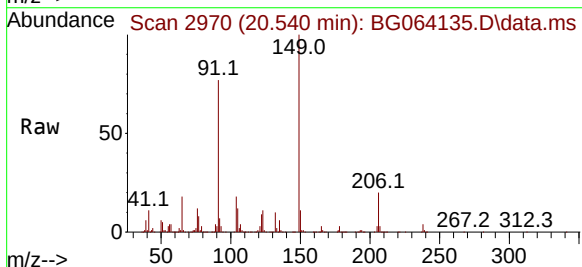
Manual Integrations  
**APPROVED**

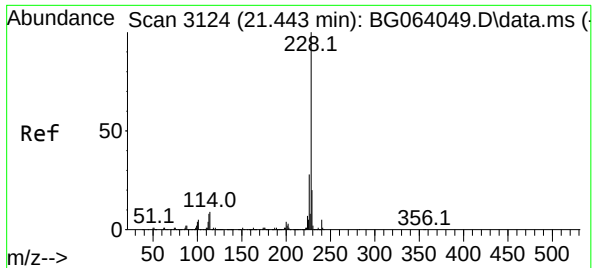
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#80  
Butylbenzylphthalate  
Concen: 61.422 ng  
RT: 20.540 min Scan# 2970  
Delta R.T. -0.004 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

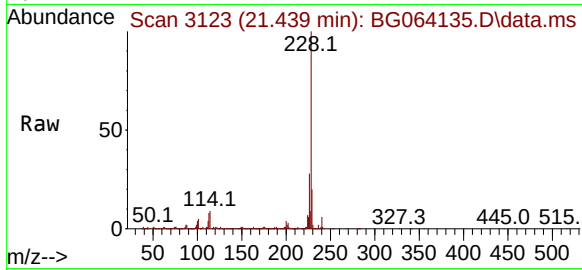
Tgt Ion:149 Resp: 393024  
Ion Ratio Lower Upper  
149 100  
91 76.5 62.0 93.0  
206 19.6 14.6 21.8





#81  
Benzo(a)anthracene  
Concen: 57.198 ng  
RT: 21.439 min Scan# 3124  
Delta R.T. -0.003 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

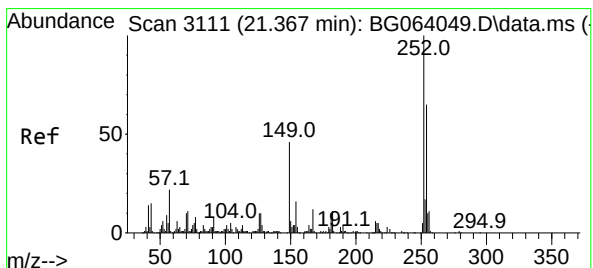
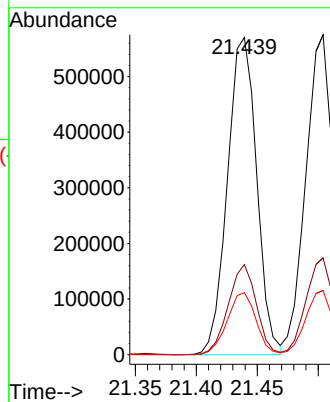
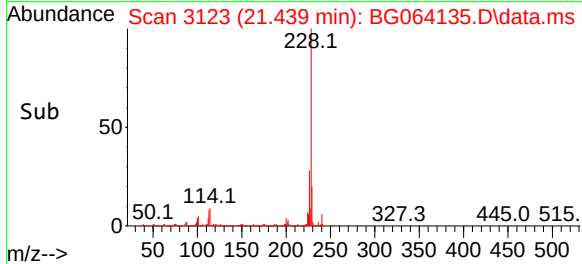
Instrument : BNA\_G  
ClientSampleId : P001-BBDGA-001-01-05MS



Tgt Ion:228 Resp: 952154  
Ion Ratio Lower Upper  
228 100  
226 28.4 22.2 33.2  
229 19.6 16.4 24.6

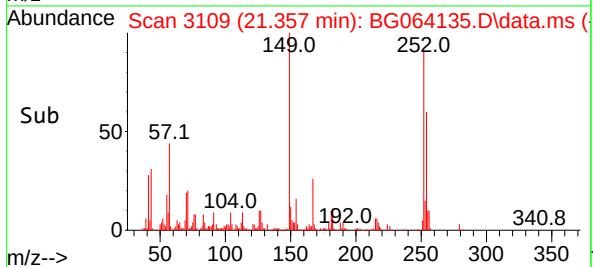
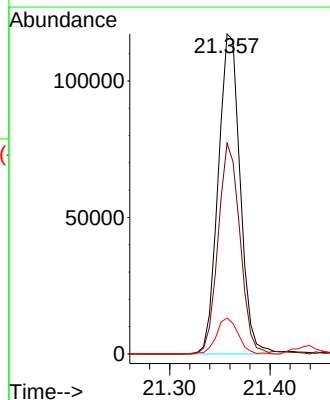
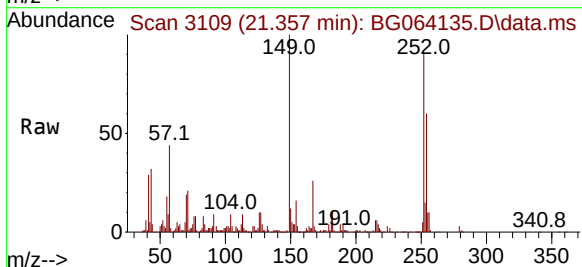
Manual Integrations  
APPROVED

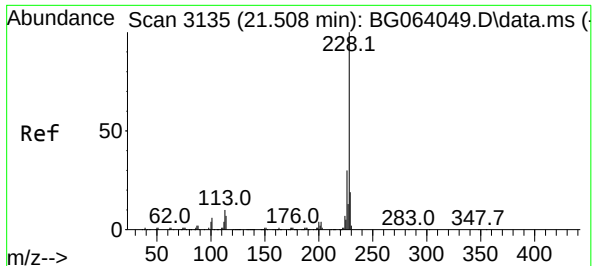
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#82  
3,3'-Dichlorobenzidine  
Concen: 33.046 ng  
RT: 21.357 min Scan# 3109  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

Tgt Ion:252 Resp: 178034  
Ion Ratio Lower Upper  
252 100  
254 65.9 52.1 78.1  
126 11.2 7.8 11.8





#83

Chrysene

Concen: 54.755 ng

RT: 21.504 min Scan# 3111

Delta R.T. -0.003 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS

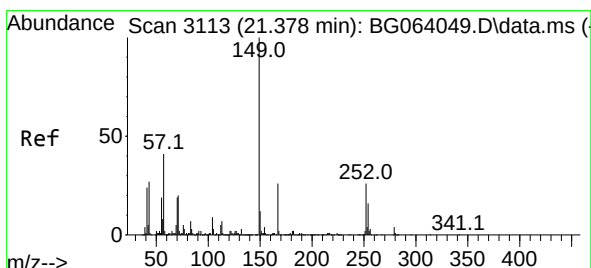
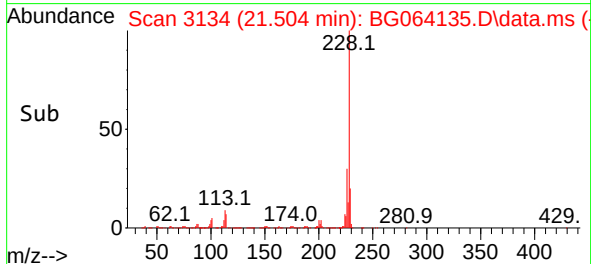
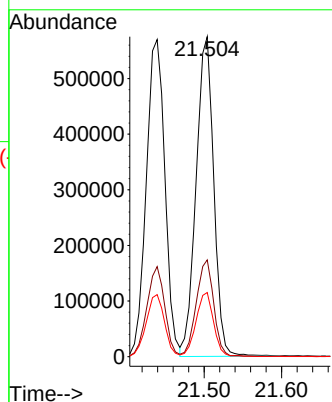
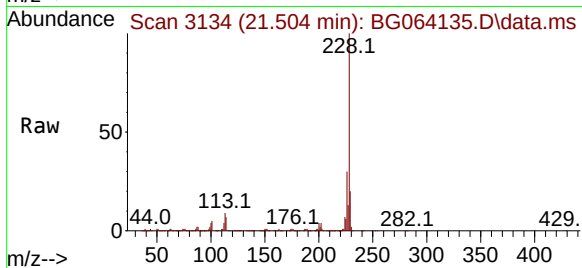
Tgt Ion:228 Resp: 909090

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.2  | 23.9  | 35.9  |
| 229 | 20.0  | 15.3  | 22.9  |

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 65.277 ng

RT: 21.369 min Scan# 3111

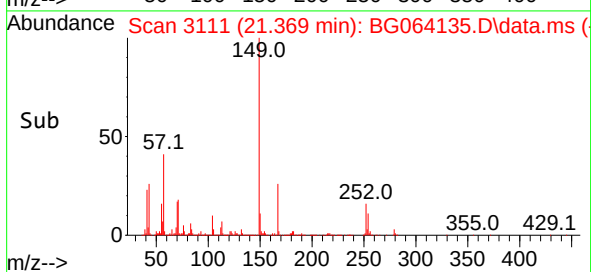
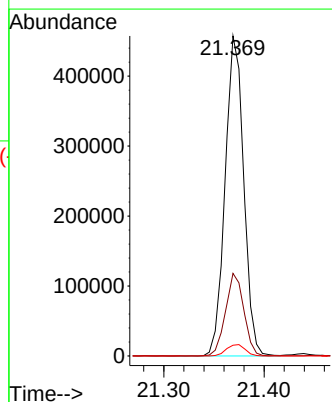
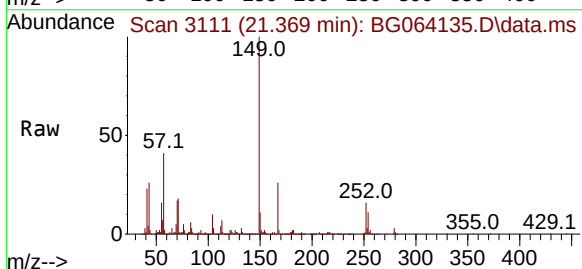
Delta R.T. -0.009 min

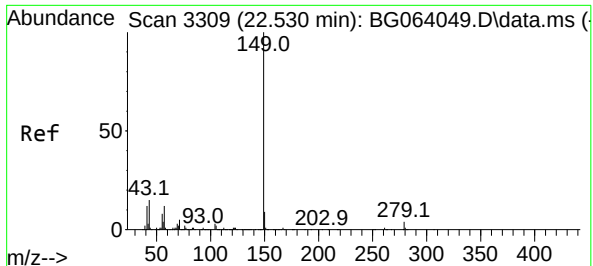
Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

Tgt Ion:149 Resp: 587683

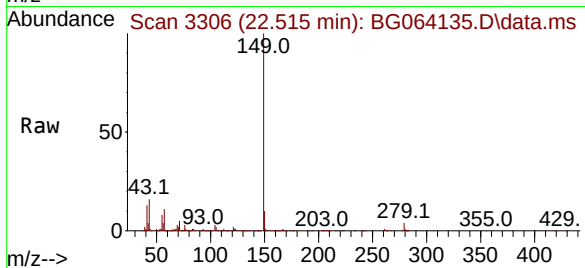
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 25.8  | 21.0  | 31.6  |
| 279 | 3.4   | 2.8   | 4.2   |





#85  
Di-n-octyl phthalate  
Concen: 64.835 ng  
RT: 22.515 min Scan# 31  
Delta R.T. -0.015 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

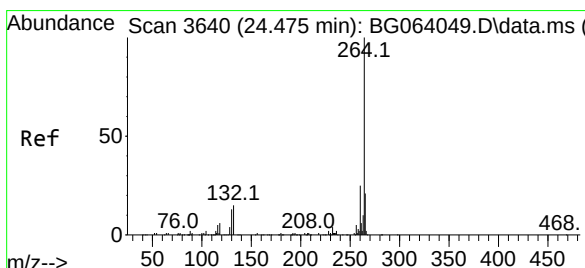
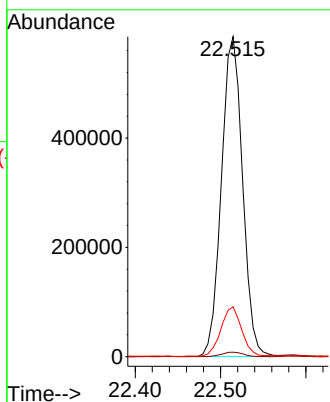
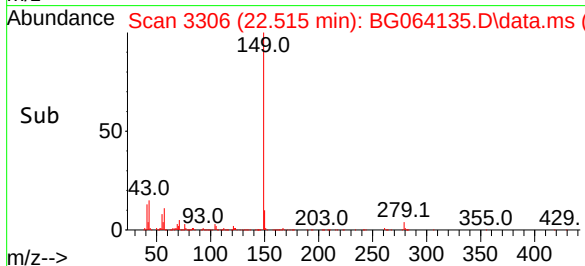
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:149 Resp: 100679  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.2 1.8  
43 15.3 12.6 19.0

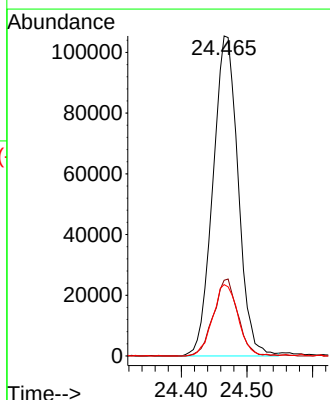
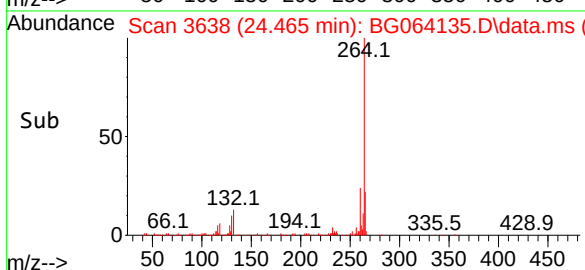
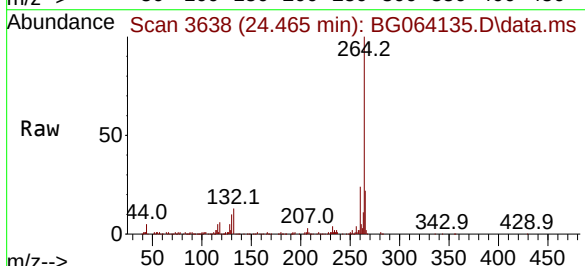
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

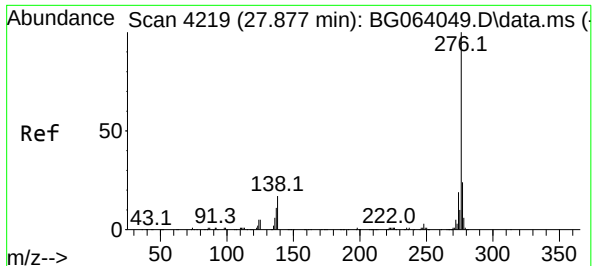


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.465 min Scan# 3638  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

Tgt Ion:264 Resp: 281028  
Ion Ratio Lower Upper  
264 100  
260 23.7 19.6 29.4  
265 22.3 16.6 25.0







#87

Indeno(1,2,3-cd)pyrene

Concen: 59.723 ng

RT: 27.867 min Scan# 41

Delta R.T. -0.009 min

Lab File: BG064135.D

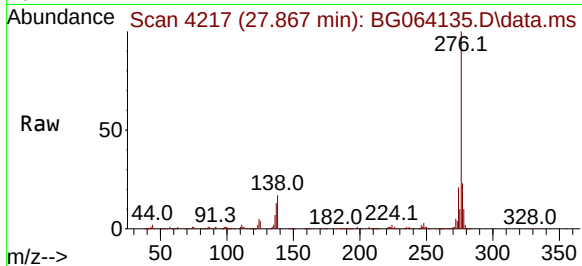
Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS



Tgt Ion:276 Resp: 112297

Ion Ratio Lower Upper

276 100

138 14.7 12.1 18.1

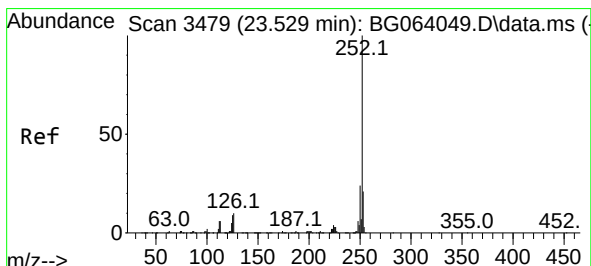
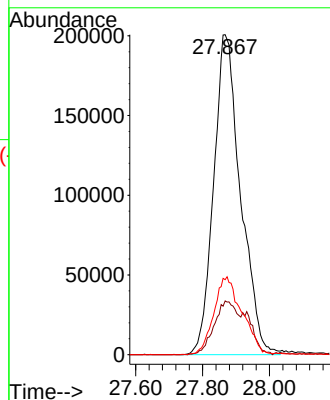
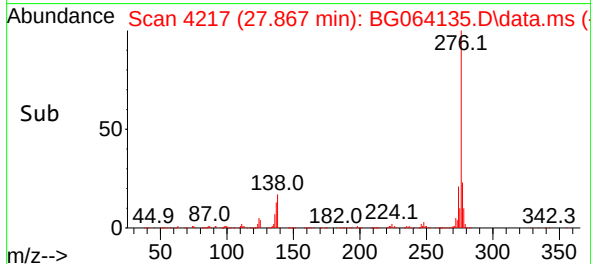
277 25.5 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#88

Benzo(b)fluoranthene

Concen: 56.024 ng

RT: 23.525 min Scan# 3478

Delta R.T. -0.003 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

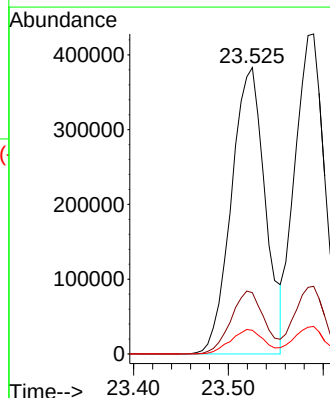
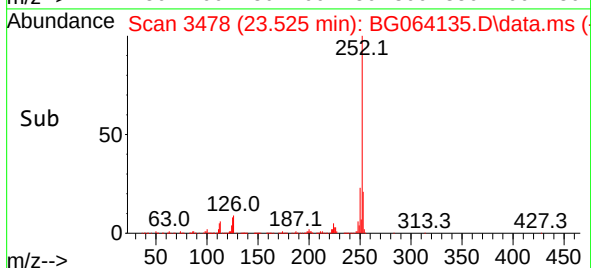
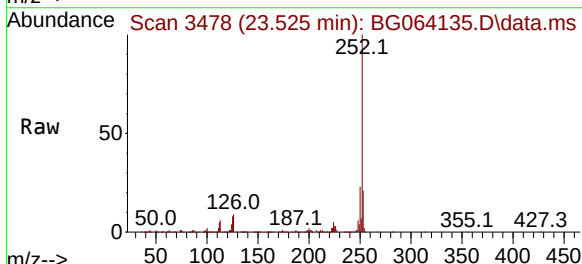
Tgt Ion:252 Resp: 951807

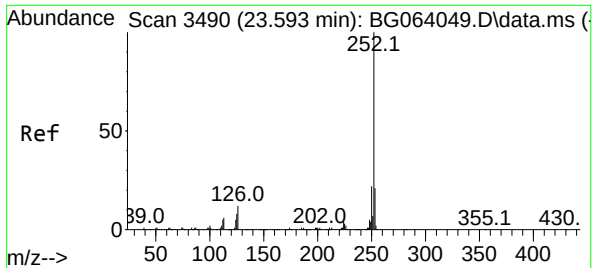
Ion Ratio Lower Upper

252 100

253 21.4 17.0 25.4

125 8.3 7.4 11.2





#89

Benzo(k)fluoranthene

Concen: 55.411 ng

RT: 23.590 min Scan# 3490

Delta R.T. -0.003 min

Lab File: BG064135.D

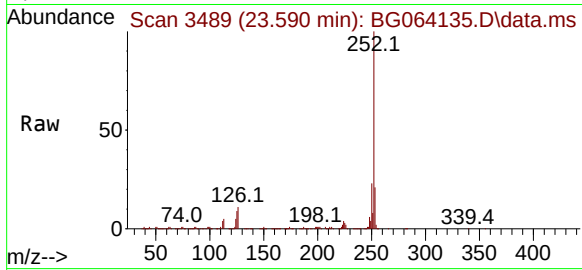
Acq: 1 Apr 2025 15:03

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-05MS



Tgt Ion:252 Resp: 944410

Ion Ratio Lower Upper

252 100

253 21.1 16.8 25.2

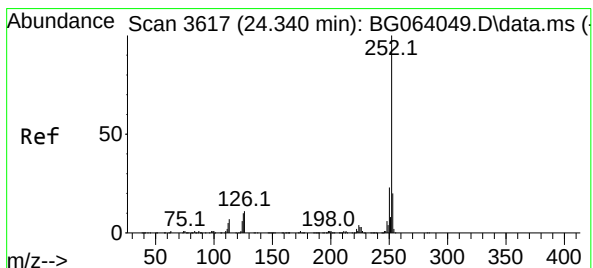
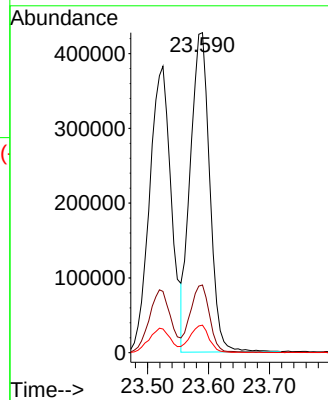
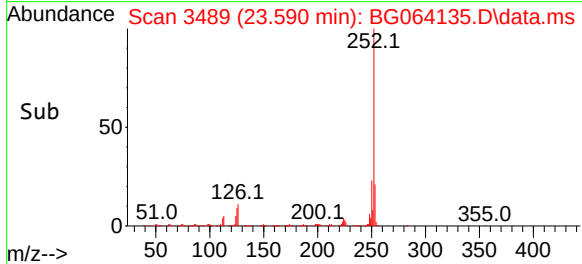
125 8.6 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#90

Benzo(a)pyrene

Concen: 60.023 ng

RT: 24.330 min Scan# 3615

Delta R.T. -0.009 min

Lab File: BG064135.D

Acq: 1 Apr 2025 15:03

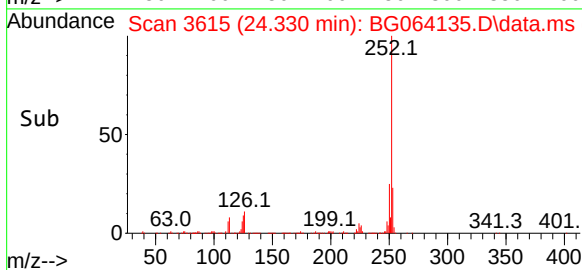
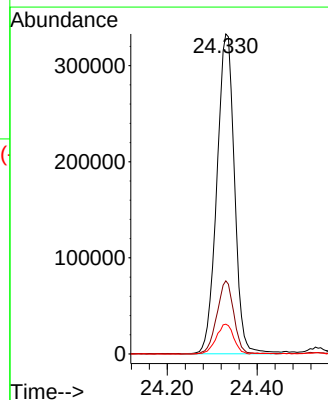
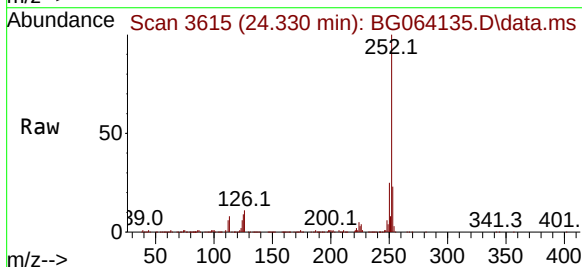
Tgt Ion:252 Resp: 908180

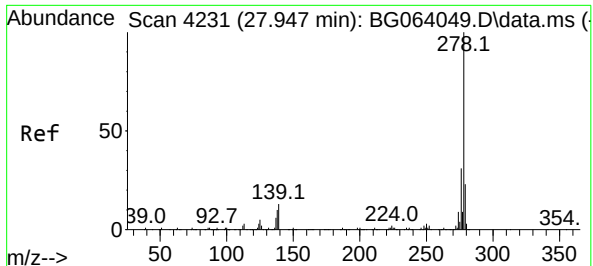
Ion Ratio Lower Upper

252 100

253 22.9 16.2 24.2

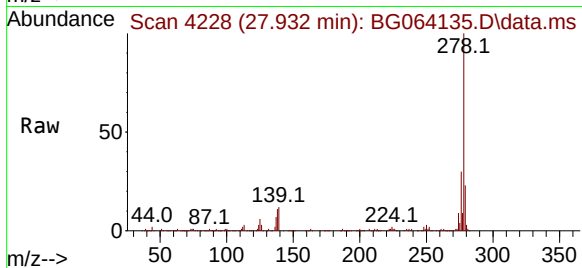
125 9.3 7.8 11.6





#91  
Dibenzo(a,h)anthracene  
Concen: 59.974 ng  
RT: 27.932 min Scan# 41  
Delta R.T. -0.015 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

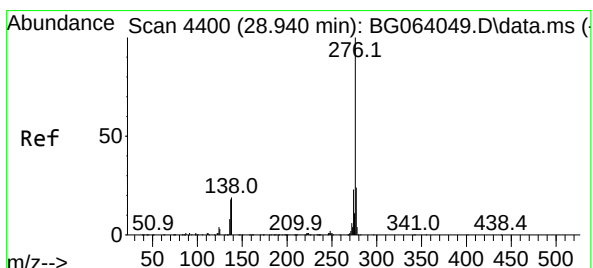
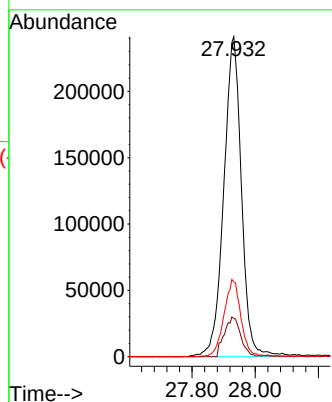
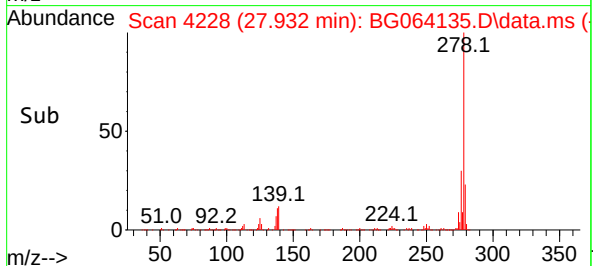
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-05MS



Tgt Ion:278 Resp: 934889  
Ion Ratio Lower Upper  
278 100  
139 12.0 10.2 15.2  
279 23.4 18.1 27.1

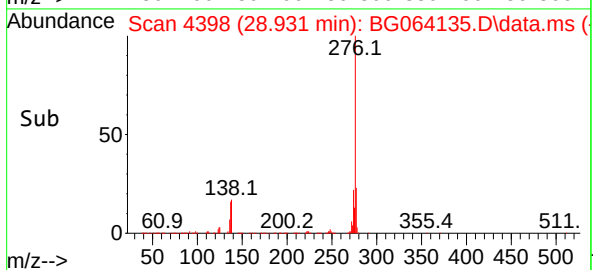
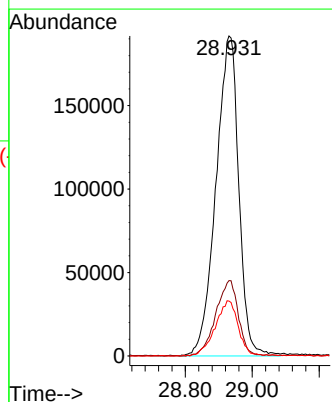
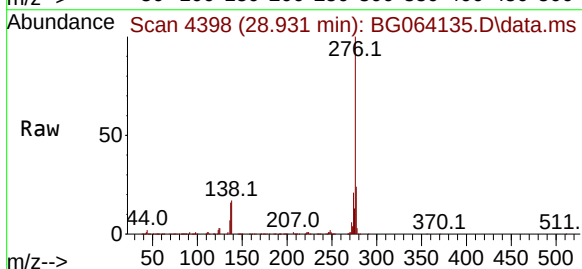
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#92  
Benzo(g,h,i)perylene  
Concen: 56.698 ng  
RT: 28.931 min Scan# 4398  
Delta R.T. -0.009 min  
Lab File: BG064135.D  
Acq: 1 Apr 2025 15:03

Tgt Ion:276 Resp: 907435  
Ion Ratio Lower Upper  
276 100  
277 23.6 19.5 29.3  
138 17.1 15.4 23.0



## Report of Analysis

|                    |                         |                 |          |
|--------------------|-------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc.  | Date Collected: | 03/26/25 |
| Project:           | RFP 905                 | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-001-01-06MSD | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-06MSD             | Matrix:         | Water    |
| Analytical Method: | SW8270                  | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL          | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                      | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N            | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0        | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                 |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064136.D        | 1         | 03/31/25 11:00 | 04/01/25 15:44 | PB167393      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|----------------|-----------------------------|-------|-----------|------|------------|-------|
| <b>TARGETS</b> |                             |       |           |      |            |       |
| 100-52-7       | Benzaldehyde                | 51.2  |           | 3.90 | 10.0       | ug/L  |
| 108-95-2       | Phenol                      | 13.8  |           | 0.91 | 5.00       | ug/L  |
| 111-44-4       | bis(2-Chloroethyl)ether     | 47.0  |           | 0.81 | 5.00       | ug/L  |
| 95-57-8        | 2-Chlorophenol              | 42.2  |           | 0.58 | 5.00       | ug/L  |
| 95-48-7        | 2-Methylphenol              | 35.2  |           | 1.10 | 5.00       | ug/L  |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 47.3  |           | 1.30 | 5.00       | ug/L  |
| 98-86-2        | Acetophenone                | 51.4  |           | 0.74 | 5.00       | ug/L  |
| 65794-96-9     | 3+4-Methylphenols           | 30.6  |           | 1.10 | 10.0       | ug/L  |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 53.0  |           | 1.40 | 2.50       | ug/L  |
| 67-72-1        | Hexachloroethane            | 38.4  |           | 0.65 | 5.00       | ug/L  |
| 98-95-3        | Nitrobenzene                | 56.9  |           | 0.76 | 5.00       | ug/L  |
| 78-59-1        | Isophorone                  | 56.1  |           | 0.75 | 5.00       | ug/L  |
| 88-75-5        | 2-Nitrophenol               | 60.6  |           | 1.80 | 5.00       | ug/L  |
| 105-67-9       | 2,4-Dimethylphenol          | 67.8  |           | 1.90 | 5.00       | ug/L  |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 51.4  |           | 0.68 | 5.00       | ug/L  |
| 120-83-2       | 2,4-Dichlorophenol          | 55.7  |           | 0.52 | 5.00       | ug/L  |
| 91-20-3        | Naphthalene                 | 46.6  |           | 0.50 | 5.00       | ug/L  |
| 106-47-8       | 4-Chloroaniline             | 21.6  |           | 0.84 | 5.00       | ug/L  |
| 87-68-3        | Hexachlorobutadiene         | 42.7  |           | 0.54 | 5.00       | ug/L  |
| 105-60-2       | Caprolactam                 | 10.2  |           | 1.10 | 10.0       | ug/L  |
| 59-50-7        | 4-Chloro-3-methylphenol     | 49.7  |           | 0.59 | 5.00       | ug/L  |
| 91-57-6        | 2-Methylnaphthalene         | 46.8  |           | 0.56 | 5.00       | ug/L  |
| 77-47-4        | Hexachlorocyclopentadiene   | 240   | E         | 3.60 | 10.0       | ug/L  |
| 88-06-2        | 2,4,6-Trichlorophenol       | 63.4  |           | 0.51 | 5.00       | ug/L  |
| 95-95-4        | 2,4,5-Trichlorophenol       | 62.4  |           | 0.62 | 5.00       | ug/L  |
| 92-52-4        | 1,1-Biphenyl                | 54.2  |           | 0.53 | 5.00       | ug/L  |
| 91-58-7        | 2-Chloronaphthalene         | 53.6  |           | 0.61 | 5.00       | ug/L  |
| 88-74-4        | 2-Nitroaniline              | 62.1  |           | 1.30 | 5.00       | ug/L  |
| 131-11-3       | Dimethylphthalate           | 57.2  |           | 0.61 | 5.00       | ug/L  |

## Report of Analysis

|                    |                         |                 |              |
|--------------------|-------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc.  | Date Collected: | 03/26/25     |
| Project:           | RFP 905                 | Date Received:  | 03/27/25     |
| Client Sample ID:  | P001-BBDGA-001-01-06MSD | SDG No.:        | Q1664        |
| Lab Sample ID:     | Q1664-06MSD             | Matrix:         | Water        |
| Analytical Method: | SW8270                  | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL  | Final Vol:      | 1000      uL |
| Soil Aliquot Vol:  | uL                      | Test:           | SPLP BNA     |
| Extraction Type :  | Decanted :    N         | Level :         | LOW          |
| Injection Volume : | GPC Factor :    1.0     | GPC Cleanup :   | N      PH :  |
| Prep Method :      | SW3510C                 |                 |              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064136.D        | 1         | 03/31/25 11:00 | 04/01/25 15:44 | PB167393      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units |
|------------|----------------------------|-------|-----------|------|------------|-------|
| 208-96-8   | Acenaphthylene             | 59.4  |           | 0.75 | 5.00       | ug/L  |
| 606-20-2   | 2,6-Dinitrotoluene         | 60.0  |           | 0.92 | 5.00       | ug/L  |
| 99-09-2    | 3-Nitroaniline             | 30.5  |           | 1.10 | 5.00       | ug/L  |
| 83-32-9    | Acenaphthene               | 53.7  |           | 0.55 | 5.00       | ug/L  |
| 51-28-5    | 2,4-Dinitrophenol          | 150   | E         | 6.00 | 10.0       | ug/L  |
| 100-02-7   | 4-Nitrophenol              | 40.0  |           | 2.40 | 10.0       | ug/L  |
| 132-64-9   | Dibenzofuran               | 52.5  |           | 0.61 | 5.00       | ug/L  |
| 121-14-2   | 2,4-Dinitrotoluene         | 62.7  |           | 1.20 | 5.00       | ug/L  |
| 84-66-2    | Diethylphthalate           | 56.3  |           | 0.69 | 5.00       | ug/L  |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 54.2  |           | 0.68 | 5.00       | ug/L  |
| 86-73-7    | Fluorene                   | 56.1  |           | 0.63 | 5.00       | ug/L  |
| 100-01-6   | 4-Nitroaniline             | 59.3  |           | 1.50 | 5.00       | ug/L  |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 71.3  |           | 2.90 | 10.0       | ug/L  |
| 86-30-6    | n-Nitrosodiphenylamine     | 55.7  |           | 0.58 | 5.00       | ug/L  |
| 101-55-3   | 4-Bromophenyl-phenylether  | 57.3  |           | 0.40 | 5.00       | ug/L  |
| 118-74-1   | Hexachlorobenzene          | 56.1  |           | 0.52 | 5.00       | ug/L  |
| 1912-24-9  | Atrazine                   | 82.2  | E         | 1.00 | 5.00       | ug/L  |
| 87-86-5    | Pentachlorophenol          | 130   | E         | 1.60 | 10.0       | ug/L  |
| 85-01-8    | Phenanthrene               | 58.2  |           | 0.50 | 5.00       | ug/L  |
| 120-12-7   | Anthracene                 | 59.1  |           | 0.61 | 5.00       | ug/L  |
| 86-74-8    | Carbazole                  | 60.3  |           | 0.72 | 5.00       | ug/L  |
| 84-74-2    | Di-n-butylphthalate        | 62.3  |           | 1.20 | 5.00       | ug/L  |
| 206-44-0   | Fluoranthene               | 58.6  |           | 0.82 | 5.00       | ug/L  |
| 129-00-0   | Pyrene                     | 54.7  |           | 0.50 | 5.00       | ug/L  |
| 85-68-7    | Butylbenzylphthalate       | 61.7  |           | 1.90 | 5.00       | ug/L  |
| 91-94-1    | 3,3-Dichlorobenzidine      | 33.8  |           | 0.93 | 10.0       | ug/L  |
| 56-55-3    | Benzo(a)anthracene         | 57.9  |           | 0.45 | 5.00       | ug/L  |
| 218-01-9   | Chrysene                   | 54.8  |           | 0.44 | 5.00       | ug/L  |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 65.1  |           | 1.60 | 5.00       | ug/L  |
| 117-84-0   | Di-n-octyl phthalate       | 65.5  |           | 2.30 | 10.0       | ug/L  |
| 205-99-2   | Benzo(b)fluoranthene       | 54.7  |           | 0.49 | 5.00       | ug/L  |

## Report of Analysis

|                    |                         |                 |          |
|--------------------|-------------------------|-----------------|----------|
| Client:            | Weston Solutions, Inc.  | Date Collected: | 03/26/25 |
| Project:           | RFP 905                 | Date Received:  | 03/27/25 |
| Client Sample ID:  | P001-BBDGA-001-01-06MSD | SDG No.:        | Q1664    |
| Lab Sample ID:     | Q1664-06MSD             | Matrix:         | Water    |
| Analytical Method: | SW8270                  | % Solid:        | 0        |
| Sample Wt/Vol:     | 1000 Units: mL          | Final Vol:      | 1000 uL  |
| Soil Aliquot Vol:  | uL                      | Test:           | SPLP BNA |
| Extraction Type :  | Decanted : N            | Level :         | LOW      |
| Injection Volume : | GPC Factor : 1.0        | GPC Cleanup :   | N PH :   |
| Prep Method :      | SW3510C                 |                 |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BG064136.D        | 1         | 03/31/25 11:00 | 04/01/25 15:44 | PB167393      |

| CAS Number                | Parameter                  | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units    |
|---------------------------|----------------------------|--------|-----------|----------|------------|----------|
| 207-08-9                  | Benzo(k)fluoranthene       | 55.7   |           | 0.48     | 5.00       | ug/L     |
| 50-32-8                   | Benzo(a)pyrene             | 59.9   |           | 0.55     | 5.00       | ug/L     |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 59.3   |           | 0.59     | 5.00       | ug/L     |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 59.0   |           | 0.67     | 5.00       | ug/L     |
| 191-24-2                  | Benzo(g,h,i)perylene       | 56.3   |           | 0.69     | 5.00       | ug/L     |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 51.7   |           | 0.52     | 5.00       | ug/L     |
| 123-91-1                  | 1,4-Dioxane                | 16.0   |           | 1.00     | 5.00       | ug/L     |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 64.5   |           | 0.72     | 5.00       | ug/L     |
| <b>SURROGATES</b>         |                            |        |           |          |            |          |
| 367-12-4                  | 2-Fluorophenol             | 62.2   |           | 10 - 139 | 41%        | SPK: 150 |
| 13127-88-3                | Phenol-d6                  | 35.4   |           | 10 - 134 | 24%        | SPK: 150 |
| 4165-60-0                 | Nitrobenzene-d5            | 117    |           | 49 - 133 | 117%       | SPK: 100 |
| 321-60-8                  | 2-Fluorobiphenyl           | 105    |           | 52 - 132 | 105%       | SPK: 100 |
| 118-79-6                  | 2,4,6-Tribromophenol       | 194    |           | 44 - 137 | 129%       | SPK: 150 |
| 1718-51-0                 | Terphenyl-d14              | 105    |           | 48 - 125 | 105%       | SPK: 100 |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 32400  |           | 7.864    |            |          |
| 1146-65-2                 | Naphthalene-d8             | 142000 |           | 10.649   |            |          |
| 15067-26-2                | Acenaphthene-d10           | 97600  |           | 14.486   |            |          |
| 1517-22-2                 | Phenanthrene-d10           | 230000 |           | 17.224   |            |          |
| 1719-03-5                 | Chrysene-d12               | 254000 |           | 21.454   |            |          |
| 1520-96-3                 | Perylene-d12               | 279000 |           | 24.462   |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
 Data File : BG064136.D  
 Acq On : 1 Apr 2025 15:44  
 Operator : RC/JU  
 Sample : Q1664-06MSD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P001-BBDGA-001-01-06MSD

Manual Integrations  
 APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
 Supervised By :Jagrut Upadhyay 04/02/2025

Quant Time: Apr 01 16:29:46 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.864  | 152  | 32445    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.649 | 136  | 141900   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.486 | 164  | 97582    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.224 | 188  | 230185   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.454 | 240  | 254217   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 24.462 | 264  | 279147   | 20.000  | ng    | -0.01    |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.449  | 112  | 129339   | 62.246  | ng    | 0.00     |
| 7) Phenol-d6                  | 7.024  | 99   | 100183   | 35.441  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.010  | 82   | 299411   | 116.603 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.972 | 330  | 210031   | 193.632 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.111 | 172  | 672154   | 104.553 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.844 | 244  | 1323945  | 105.304 | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.369  | 88   | 15089    | 16.023  | ng    | 93       |
| 3) Pyridine                   | 3.757  | 79   | 40455    | 17.664  | ng    | 95       |
| 4) n-Nitrosodimethylamine     | 3.669  | 42   | 30671    | 18.744  | ng    | 98       |
| 6) Aniline                    | 7.182  | 93   | 69093    | 24.909  | ng    | 95       |
| 8) 2-Chlorophenol             | 7.423  | 128  | 94084    | 42.159  | ng    | 96       |
| 9) Benzaldehyde               | 7.000  | 77   | 84183    | 51.206  | ng    | 97       |
| 10) Phenol                    | 7.047  | 94   | 40002    | 13.822  | ng    | 95       |
| 11) bis(2-Chloroethyl)ether   | 7.282  | 93   | 106739   | 47.043  | ng    | 95       |
| 12) 1,3-Dichlorobenzene       | 7.752  | 146  | 91380    | 37.288  | ng    | 97       |
| 13) 1,4-Dichlorobenzene       | 7.899  | 146  | 95852    | 38.159  | ng    | 97       |
| 14) 1,2-Dichlorobenzene       | 8.211  | 146  | 96765    | 39.950  | ng    | 97       |
| 15) Benzyl Alcohol            | 8.093  | 79   | 78176    | 35.789  | ng    | 93       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.387  | 45   | 241066m  | 47.251  | ng    |          |
| 17) 2-Methylphenol            | 8.299  | 107  | 67636    | 35.212  | ng    | 94       |
| 18) Hexachloroethane          | 8.939  | 117  | 33724    | 38.373  | ng    | 94       |
| 19) n-Nitroso-di-n-propyla... | 8.663  | 70   | 105081   | 52.969  | ng    | 95       |
| 20) 3+4-Methylphenols         | 8.622  | 107  | 80940    | 30.609  | ng    | 95       |
| 22) Acetophenone              | 8.675  | 105  | 199860   | 51.370  | ng    | # 96     |
| 24) Nitrobenzene              | 9.051  | 77   | 151097   | 56.939  | ng    | 97       |
| 25) Isophorone                | 9.580  | 82   | 288079   | 56.052  | ng    | 96       |
| 26) 2-Nitrophenol             | 9.762  | 139  | 58921    | 60.582  | ng    | # 92     |
| 27) 2,4-Dimethylphenol        | 9.826  | 122  | 104437   | 67.783  | ng    | 97       |
| 28) bis(2-Chloroethoxy)met... | 10.061 | 93   | 160057   | 51.367  | ng    | 98       |
| 29) 2,4-Dichlorophenol        | 10.290 | 162  | 108281   | 55.657  | ng    | 97       |
| 30) 1,2,4-Trichlorobenzene    | 10.514 | 180  | 105376   | 44.868  | ng    | 99       |
| 31) Naphthalene               | 10.696 | 128  | 356563   | 46.599  | ng    | 99       |
| 32) Benzoic acid              | 9.909  | 122  | 21042m   | 20.869  | ng    |          |
| 33) 4-Chloroaniline           | 10.796 | 127  | 60514    | 21.638  | ng    | 97       |
| 34) Hexachlorobutadiene       | 10.990 | 225  | 65720    | 42.692  | ng    | 95       |
| 35) Caprolactam               | 11.565 | 113  | 7606m    | 10.202  | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 11.924 | 107  | 126660   | 49.667  | ng    | 100      |
| 37) 2-Methylnaphthalene       | 12.306 | 142  | 253060   | 46.848  | ng    | 99       |
| 38) 1-Methylnaphthalene       | 12.529 | 142  | 265405   | 50.151  | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 12.676 | 216  | 144027   | 51.699  | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 12.664 | 237  | 186029   | 237.253 | ng    | 92       |
| 43) 2,4,6-Trichlorophenol     | 12.911 | 196  | 104057   | 63.375  | ng    | 93       |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040125\  
 Data File : BG064136.D  
 Acq On : 1 Apr 2025 15:44  
 Operator : RC/JU  
 Sample : Q1664-06MSD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P001-BBDGA-001-01-06MSD

Manual Integrations  
 APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
 Supervised By :Jagrut Upadhyay 04/02/2025

Quant Time: Apr 01 16:29:46 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG030525.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 15:39:19 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 12.981 | 196  | 113775   | 62.363  | ng    | 99       |
| 46) 1,1'-Biphenyl             | 13.322 | 154  | 399444   | 54.181  | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.357 | 162  | 288267   | 53.612  | ng    | 96       |
| 48) 2-Nitroaniline            | 13.557 | 65   | 117324   | 62.103  | ng    | 97       |
| 49) Acenaphthylene            | 14.209 | 152  | 505558   | 59.444  | ng    | 98       |
| 50) Dimethylphthalate         | 13.945 | 163  | 411716   | 57.157  | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 14.057 | 165  | 89010    | 60.006  | ng    | 94       |
| 52) Acenaphthene              | 14.550 | 154  | 306320   | 53.668  | ng    | 99       |
| 53) 3-Nitroaniline            | 14.380 | 138  | 42484    | 30.516  | ng    | # 95     |
| 54) 2,4-Dinitrophenol         | 14.591 | 184  | 94881    | 148.264 | ng    | # 70     |
| 55) Dibenzofuran              | 14.885 | 168  | 485853   | 52.546  | ng    | 97       |
| 56) 4-Nitrophenol             | 14.691 | 139  | 46751    | 40.041  | ng    | # 87     |
| 57) 2,4-Dinitrotoluene        | 14.844 | 165  | 128791   | 62.667  | ng    | # 96     |
| 58) Fluorene                  | 15.531 | 166  | 403841   | 56.077  | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.108 | 232  | 114658   | 64.466  | ng    | 94       |
| 60) Diethylphthalate          | 15.314 | 149  | 440628   | 56.347  | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.531 | 204  | 193862   | 54.171  | ng    | 93       |
| 62) 4-Nitroaniline            | 15.549 | 138  | 89173    | 59.328  | ng    | 94       |
| 63) Azobenzene                | 15.819 | 77   | 450900   | 54.036  | ng    | 97       |
| 65) 4,6-Dinitro-2-methylph... | 15.608 | 198  | 75669    | 71.307  | ng    | 97       |
| 66) n-Nitrosodiphenylamine    | 15.743 | 169  | 363176   | 55.739  | ng    | 98       |
| 67) 4-Bromophenyl-phenylether | 16.419 | 248  | 135154   | 57.329  | ng    | 94       |
| 68) Hexachlorobenzene         | 16.536 | 284  | 148071   | 56.101  | ng    | 98       |
| 69) Atrazine                  | 16.695 | 200  | 157650   | 82.233  | ng    | 95       |
| 70) Pentachlorophenol         | 16.877 | 266  | 214754   | 131.048 | ng    | 99       |
| 71) Phenanthrene              | 17.271 | 178  | 714802   | 58.220  | ng    | 99       |
| 72) Anthracene                | 17.359 | 178  | 721645   | 59.111  | ng    | 98       |
| 73) Carbazole                 | 17.623 | 167  | 687587   | 60.323  | ng    | 98       |
| 74) Di-n-butylphthalate       | 18.199 | 149  | 836411   | 62.339  | ng    | 100      |
| 75) Fluoranthene              | 19.280 | 202  | 867550   | 58.612  | ng    | 96       |
| 77) Benzidine                 | 19.456 | 184  | 92624    | 26.312  | ng    | 97       |
| 78) Pyrene                    | 19.638 | 202  | 896907   | 54.732  | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.537 | 149  | 386471   | 61.723  | ng    | 94       |
| 81) Benzo(a)anthracene        | 21.436 | 228  | 943149   | 57.917  | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.360 | 252  | 178281   | 33.828  | ng    | 99       |
| 83) Chrysene                  | 21.501 | 228  | 890505   | 54.829  | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 21.372 | 149  | 573663   | 65.138  | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.511 | 149  | 995308   | 65.521  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 27.870 | 276  | 1108149  | 59.332  | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 23.522 | 252  | 922469   | 54.663  | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 23.581 | 252  | 943597   | 55.737  | ng    | 99       |
| 90) Benzo(a)pyrene            | 24.333 | 252  | 899894   | 59.877  | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 27.929 | 278  | 912813   | 58.952  | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 28.927 | 276  | 894624   | 56.274  | ng    | 98       |

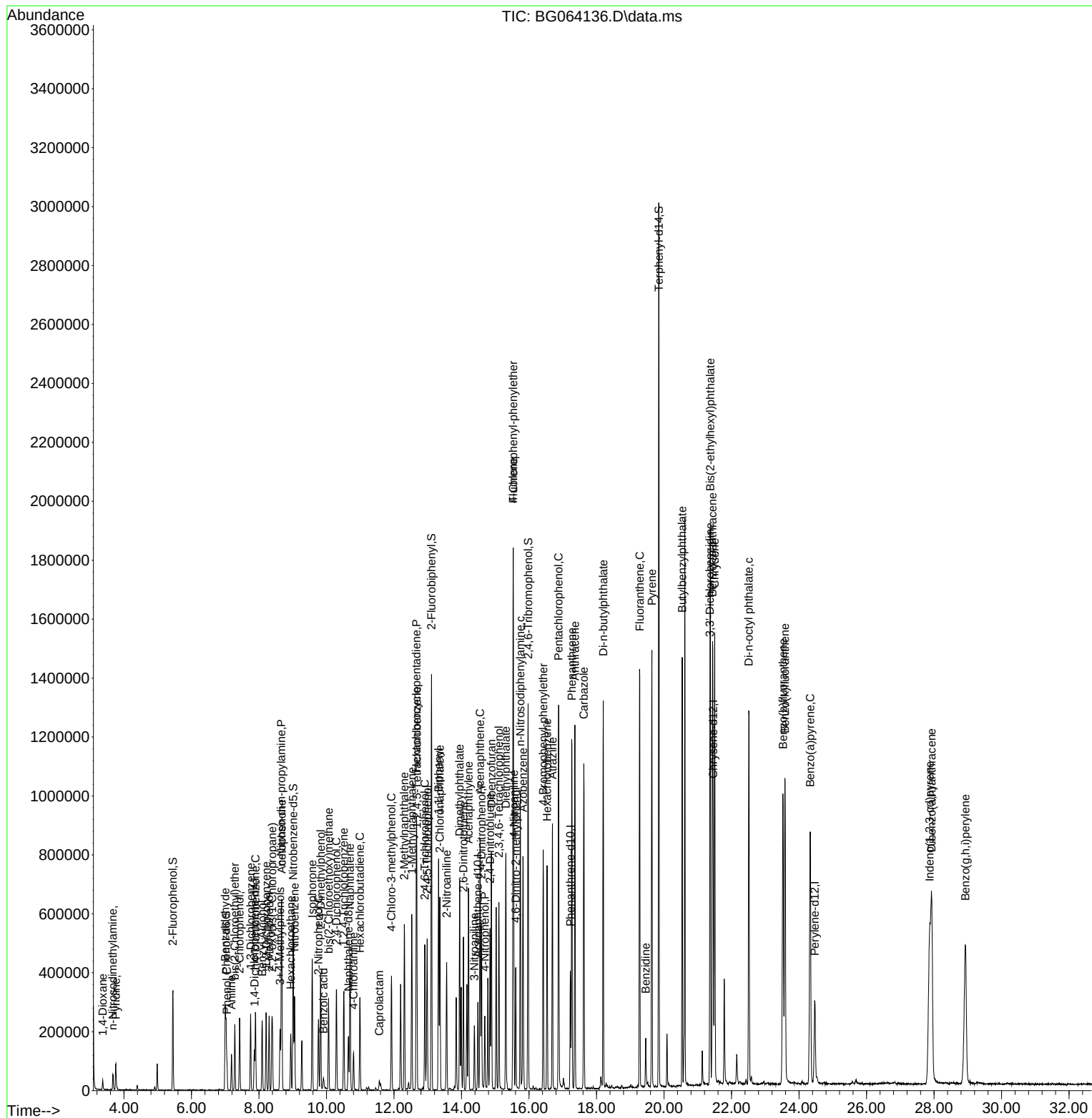
(#) = qualifier out of range (m) = manual integration (+) = signals summed

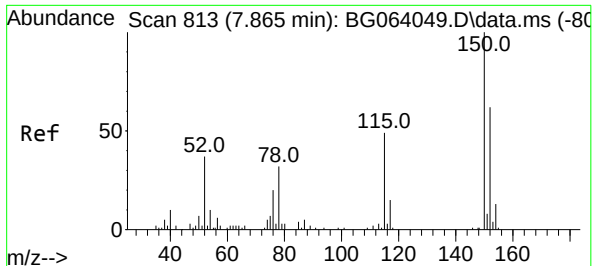


**Instrument :**  
BNA\_G  
**ClientSampleId :**  
P001-BBDGA-001-01-06MSD

## Manual Integrations APPROVED

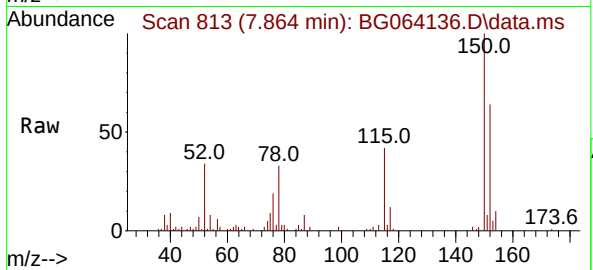
Reviewed By :Anahy Claudio    04/02/2025  
Supervised By :Jaqrut Upadhyay    04/02/2025





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.864 min Scan# 81  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

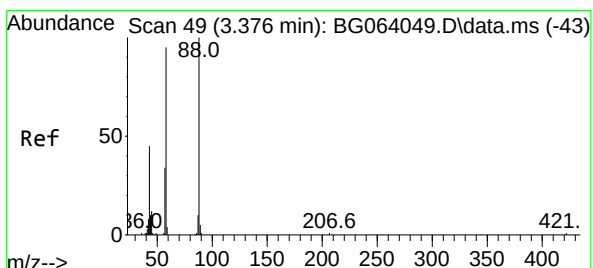
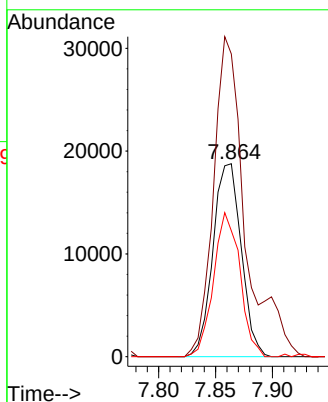
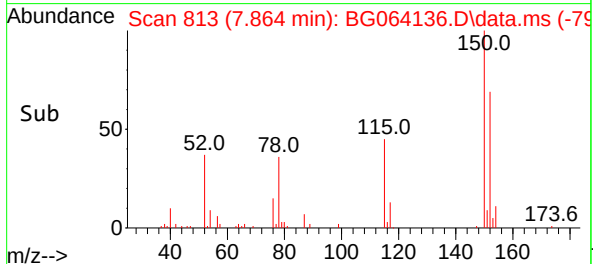
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:152 Resp: 3244  
Ion Ratio Lower Upper  
152 100  
150 156.9 129.2 193.8  
115 65.3 63.0 94.6

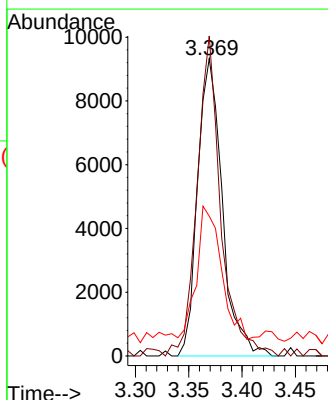
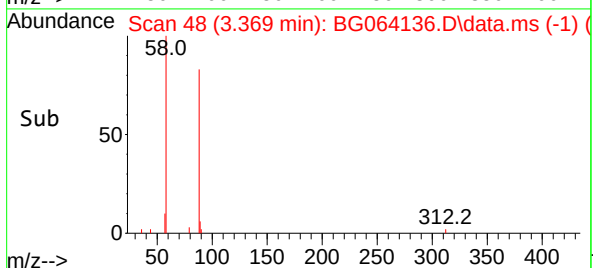
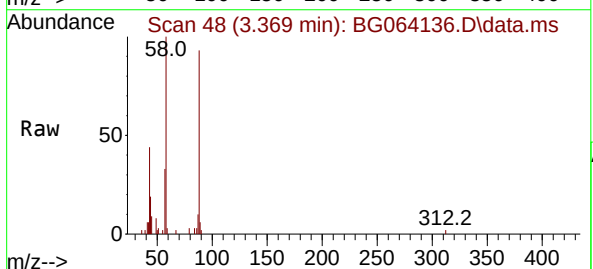
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

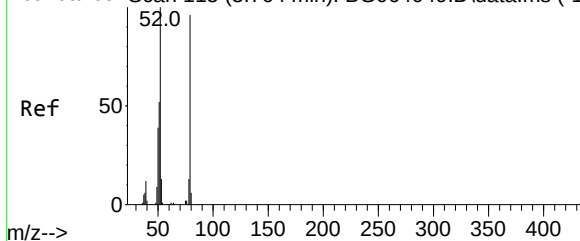


#2  
1,4-Dioxane  
Concen: 16.023 ng  
RT: 3.369 min Scan# 48  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

Tgt Ion: 88 Resp: 15089  
Ion Ratio Lower Upper  
88 100  
58 102.7 74.6 111.8  
43 43.1 35.5 53.3



Abundance Scan 115 (3.764 min): BG064049.D\data.ms (-10)



#3

Pyridine

Concen: 17.664 ng

RT: 3.757 min Scan# 11

Delta R.T. -0.007 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

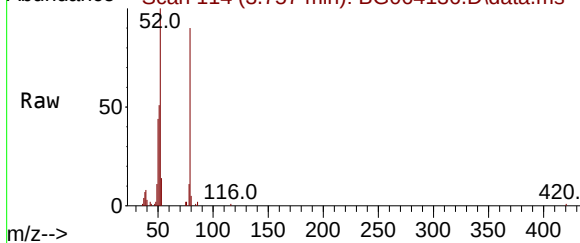
Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-06MSD

Abundance Scan 114 (3.757 min): BG064136.D\data.ms



Tgt Ion: 79 Resp: 4045

Ion Ratio Lower Upper

79 100

52 110.7 83.0 124.6

51 56.8 44.3 66.5

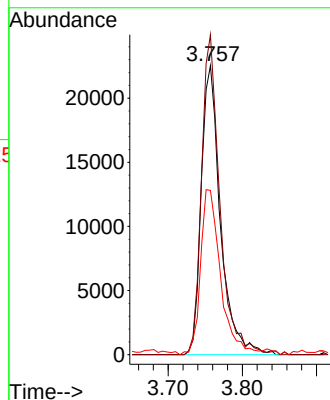
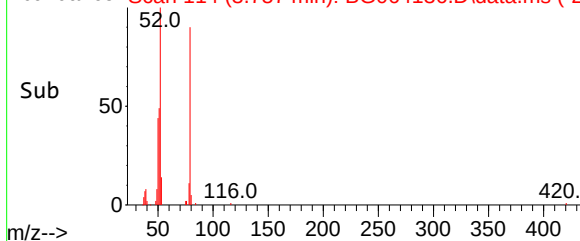
Manual Integrations

APPROVED

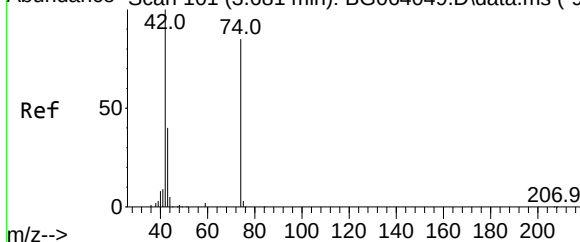
Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025

Abundance Scan 114 (3.757 min): BG064136.D\data.ms (-25)



Abundance Scan 101 (3.681 min): BG064049.D\data.ms (-94)



#4

n-Nitrosodimethylamine

Concen: 18.744 ng

RT: 3.669 min Scan# 99

Delta R.T. -0.013 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

Tgt Ion: 42 Resp: 30671

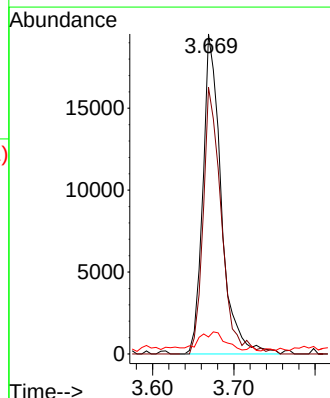
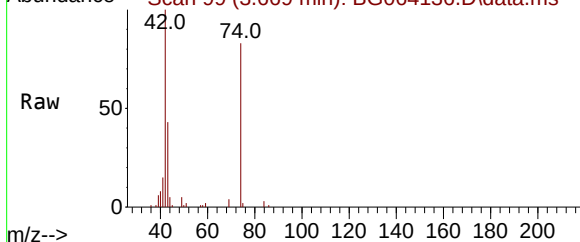
Ion Ratio Lower Upper

42 100

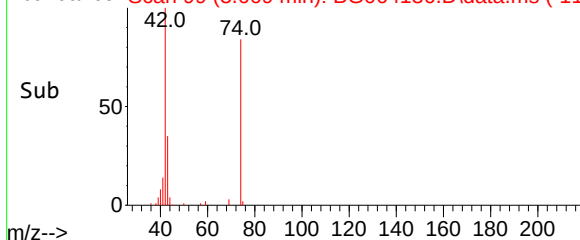
74 83.3 68.0 102.0

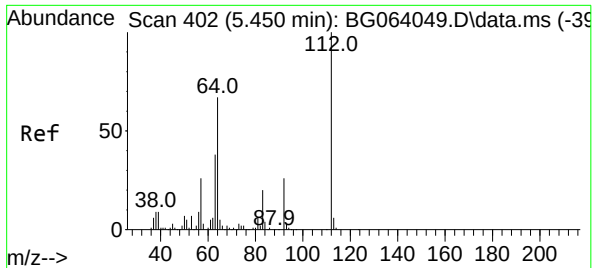
44 5.3 4.9 7.3

Abundance Scan 99 (3.669 min): BG064136.D\data.ms



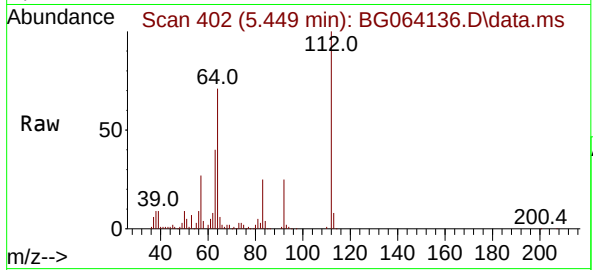
Abundance Scan 99 (3.669 min): BG064136.D\data.ms (-11)





#5  
2-Fluorophenol  
Concen: 62.246 ng  
RT: 5.449 min Scan# 402  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

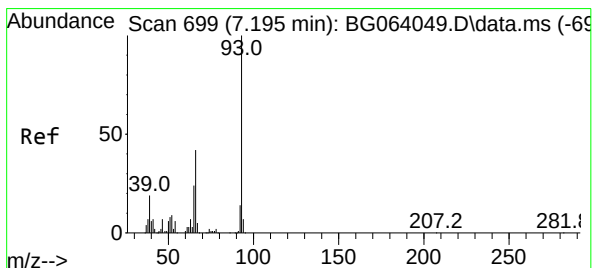
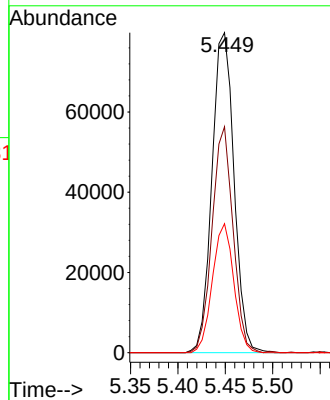
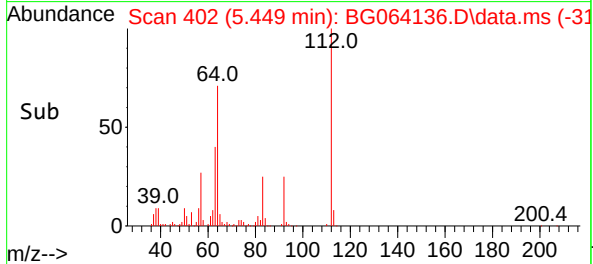
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion: 112 Resp: 129339  
Ion Ratio Lower Upper  
112 100  
64 70.6 53.7 80.5  
63 40.3 30.2 45.4

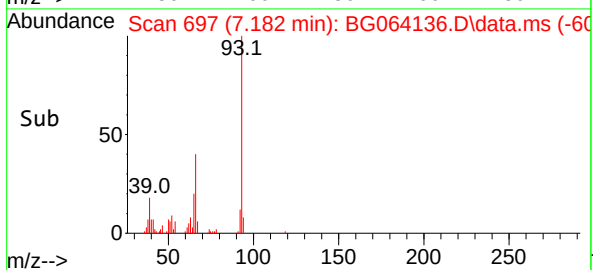
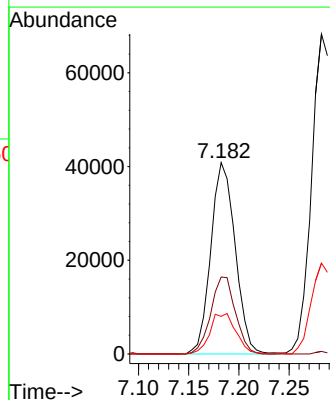
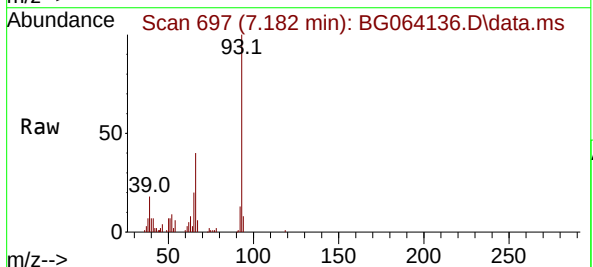
Manual Integrations  
APPROVED

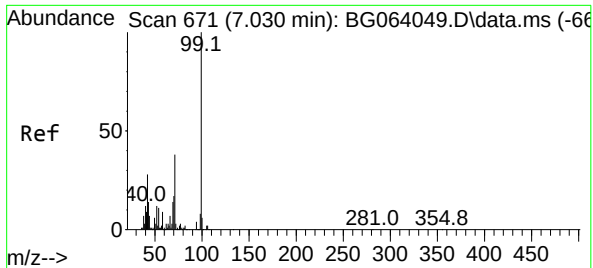
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#6  
Aniline  
Concen: 24.909 ng  
RT: 7.182 min Scan# 697  
Delta R.T. -0.013 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

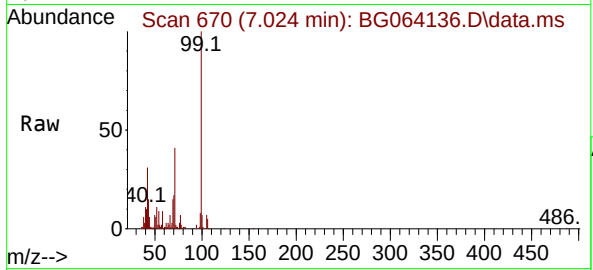
Tgt Ion: 93 Resp: 69093  
Ion Ratio Lower Upper  
93 100  
66 40.3 33.7 50.5  
65 19.7 19.1 28.7





#7  
Phenol-d6  
Concen: 35.441 ng  
RT: 7.024 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

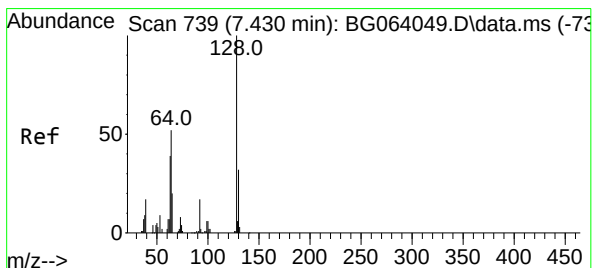
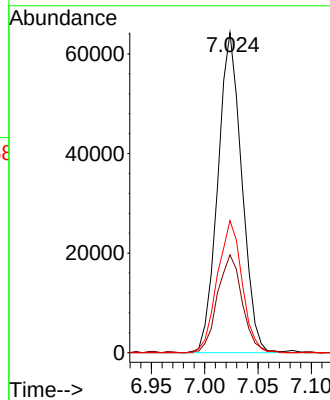
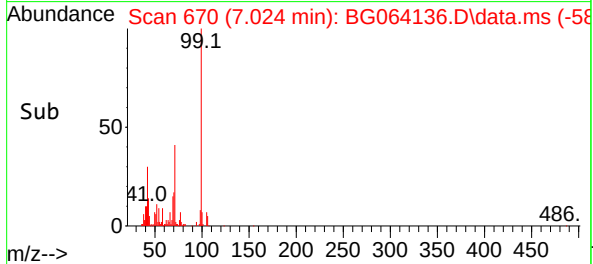
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion: 99 Resp: 10018  
Ion Ratio Lower Upper  
99 100  
42 30.6 22.7 34.1  
71 41.3 30.6 46.0

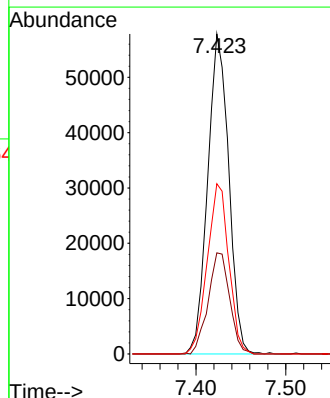
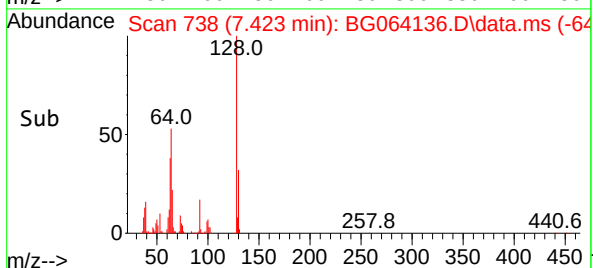
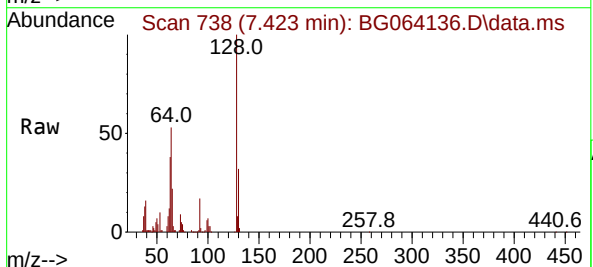
Manual Integrations  
**APPROVED**

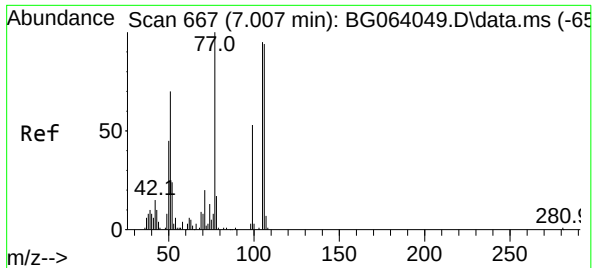
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#8  
2-Chlorophenol  
Concen: 42.159 ng  
RT: 7.423 min Scan# 738  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

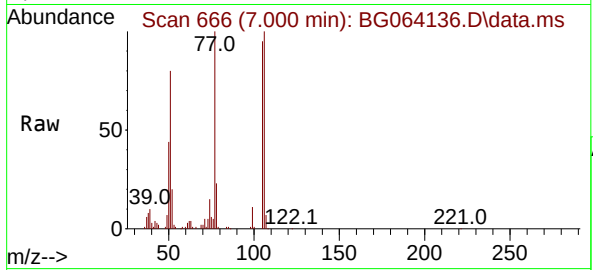
Tgt Ion:128 Resp: 94084  
Ion Ratio Lower Upper  
128 100  
130 31.6 12.3 52.3  
64 53.2 37.0 77.0





#9  
Benzaldehyde  
Concen: 51.206 ng  
RT: 7.000 min Scan# 60  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

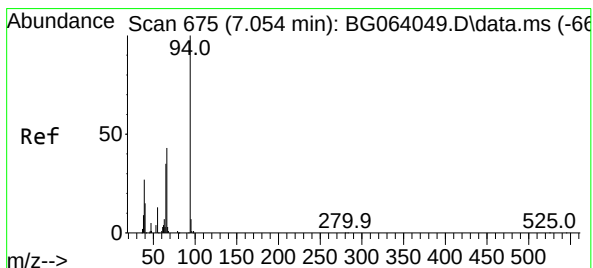
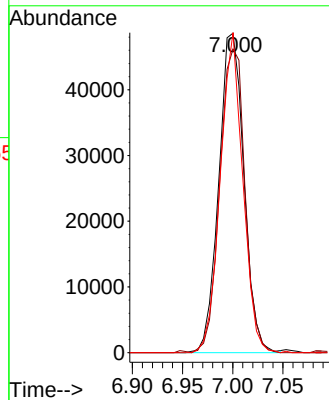
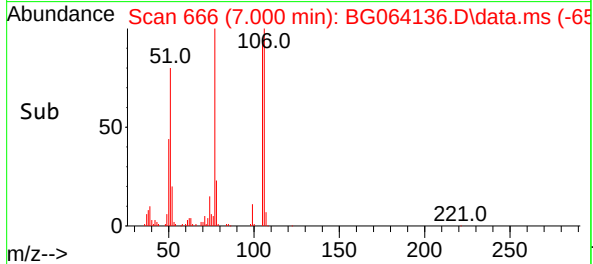
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion: 77 Resp: 8418  
Ion Ratio Lower Upper  
77 100  
105 95.0 75.5 115.5  
106 100.1 74.2 114.2

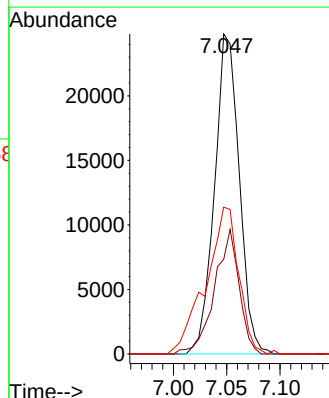
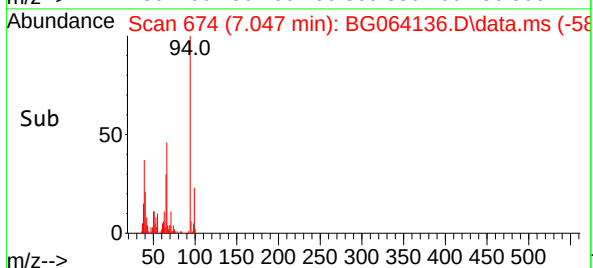
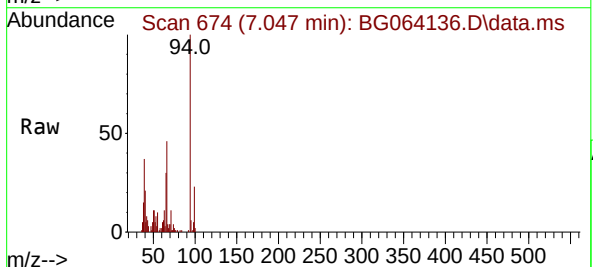
Manual Integrations  
APPROVED

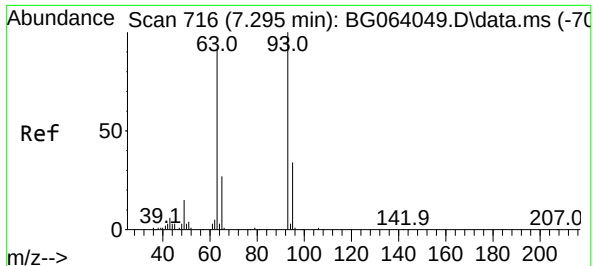
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#10  
Phenol  
Concen: 13.822 ng  
RT: 7.047 min Scan# 674  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

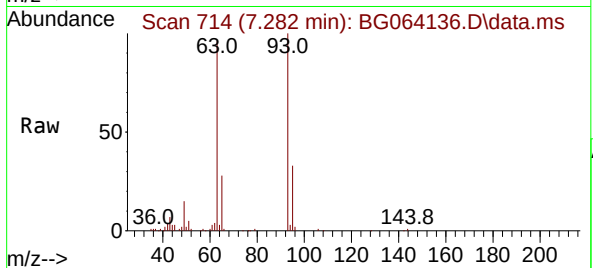
Tgt Ion: 94 Resp: 40002  
Ion Ratio Lower Upper  
94 100  
65 29.6 15.2 55.2  
66 45.9 25.1 65.1





#11  
bis(2-Chloroethyl)ether  
Concen: 47.043 ng  
RT: 7.282 min Scan# 716  
Delta R.T. -0.013 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

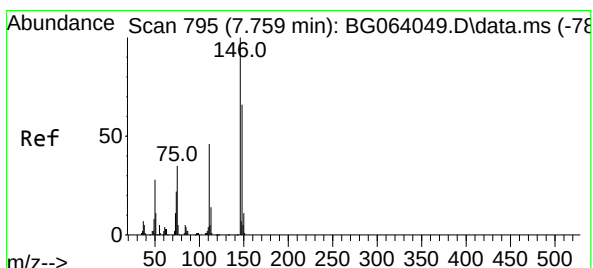
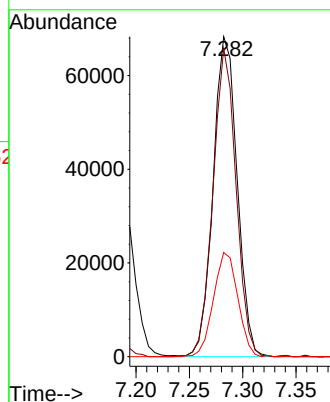
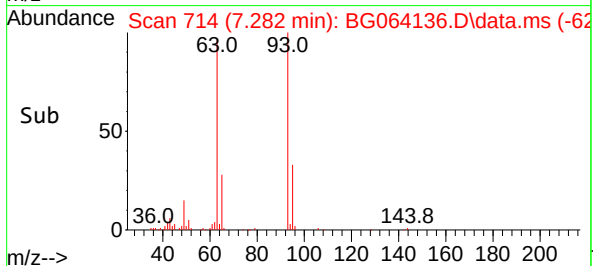
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion: 93 Resp: 106739  
Ion Ratio Lower Upper  
93 100  
63 96.3 70.0 110.0  
95 32.6 13.7 53.7

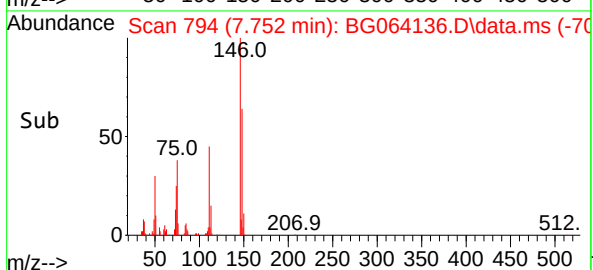
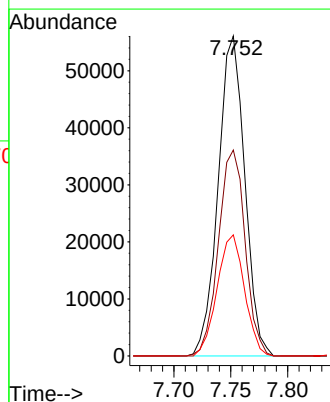
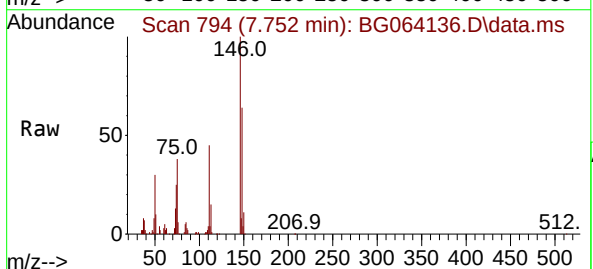
Manual Integrations  
APPROVED

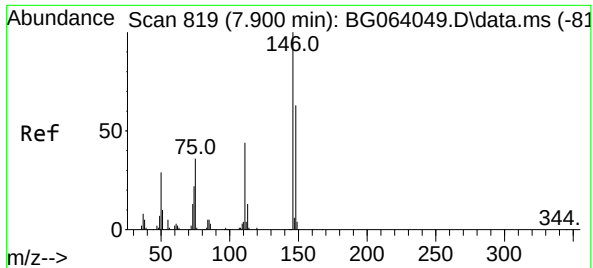
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#12  
1,3-Dichlorobenzene  
Concen: 37.288 ng  
RT: 7.752 min Scan# 794  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

Tgt Ion:146 Resp: 91380  
Ion Ratio Lower Upper  
146 100  
148 64.4 52.6 78.8  
75 37.9 28.1 42.1





#13

1,4-Dichlorobenzene

Concen: 38.159 ng

RT: 7.899 min Scan# 819

Delta R.T. -0.001 min

Lab File: BG064136.D

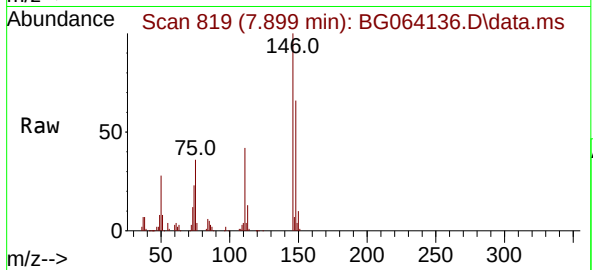
Acq: 1 Apr 2025 15:44

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-06MSD



Tgt Ion:146 Resp: 95852

Ion Ratio Lower Upper

146 100

148 65.7 50.6 75.8

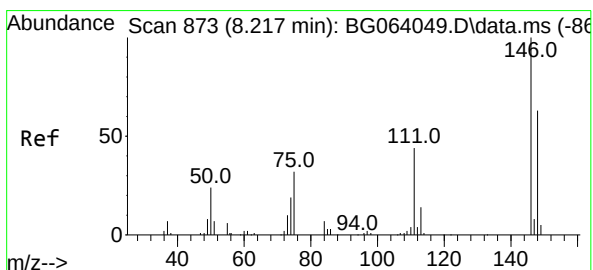
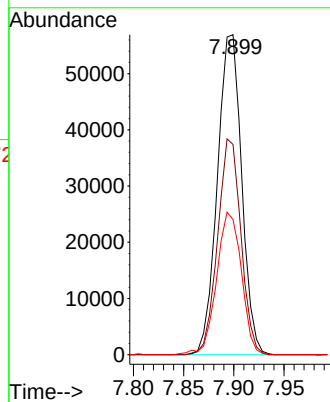
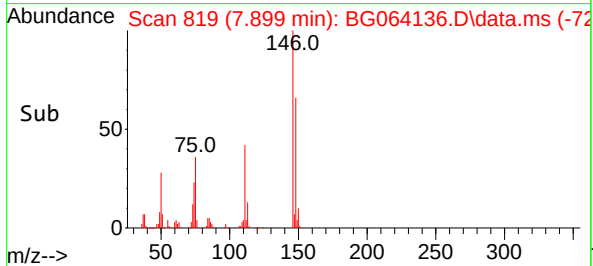
111 42.2 35.1 52.7

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#14

1,2-Dichlorobenzene

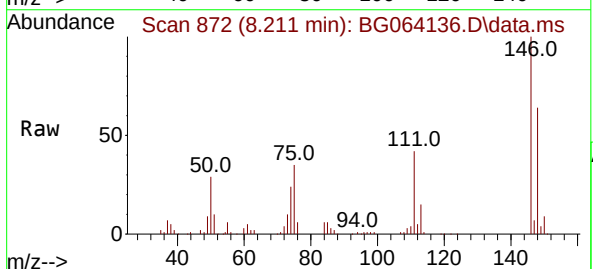
Concen: 39.950 ng

RT: 8.211 min Scan# 872

Delta R.T. -0.007 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44



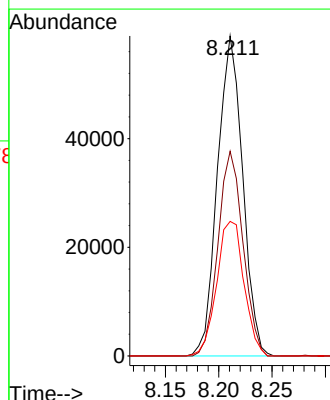
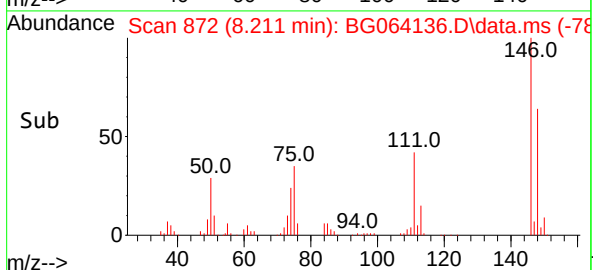
Tgt Ion:146 Resp: 96765

Ion Ratio Lower Upper

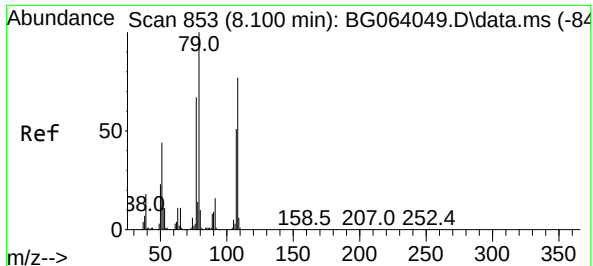
146 100

148 64.0 50.2 75.2

111 42.1 36.4 54.6







#15

Benzyl Alcohol

Concen: 35.789 ng

RT: 8.093 min Scan# 80

Delta R.T. -0.007 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-06MSD

Tgt Ion: 79 Resp: 78170

Ion Ratio Lower Upper

79 100

108 68.2 61.7 92.5

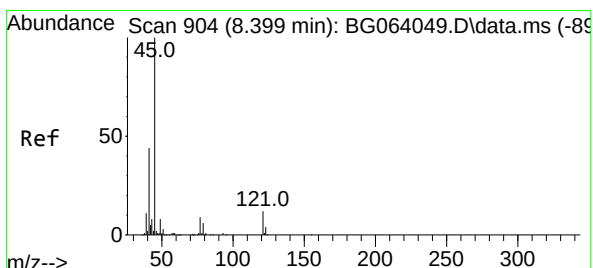
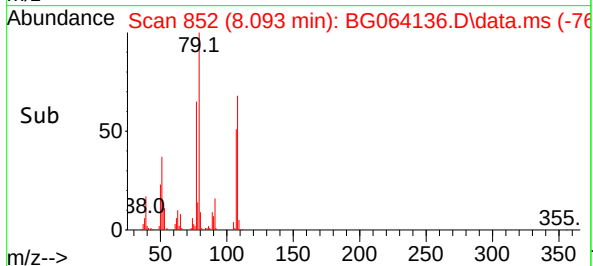
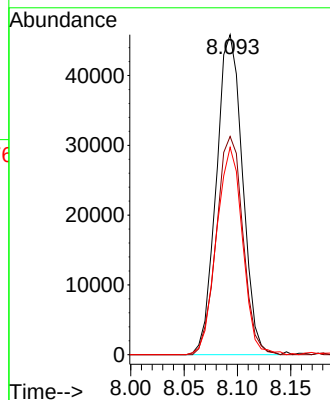
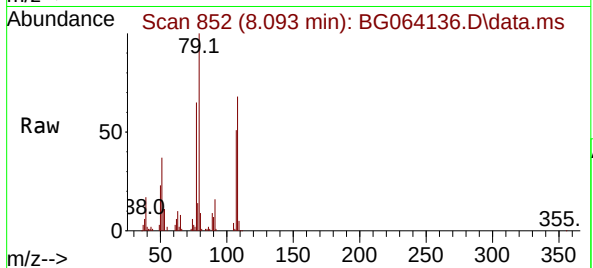
77 64.8 53.9 80.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 47.251 ng m

RT: 8.387 min Scan# 902

Delta R.T. -0.013 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

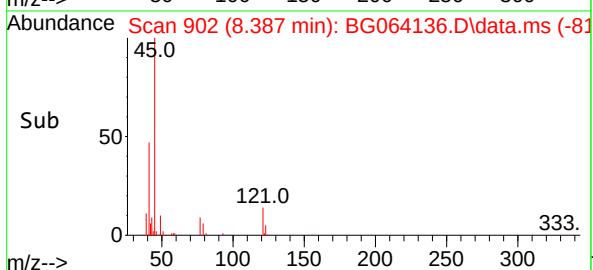
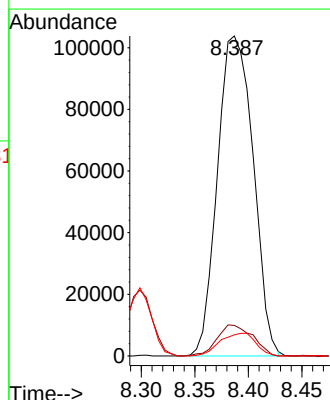
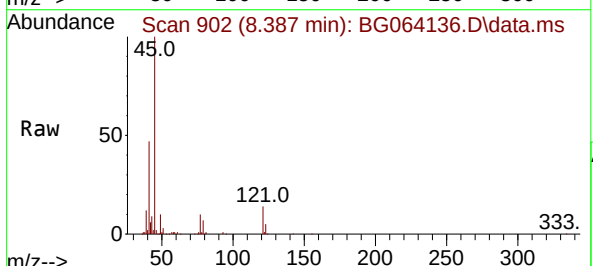
Tgt Ion: 45 Resp: 241066

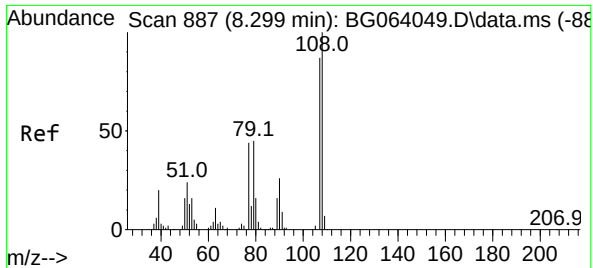
Ion Ratio Lower Upper

45 100

77 9.5 0.0 29.0

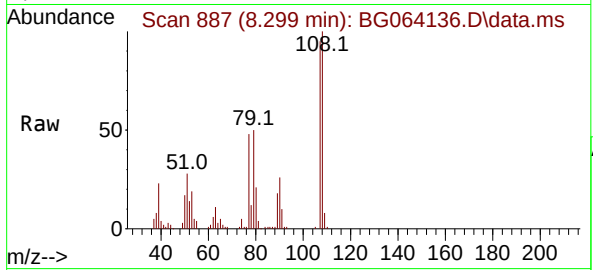
79 6.6 0.0 26.6





#17  
2-Methylphenol  
Concen: 35.212 ng  
RT: 8.299 min Scan# 887  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

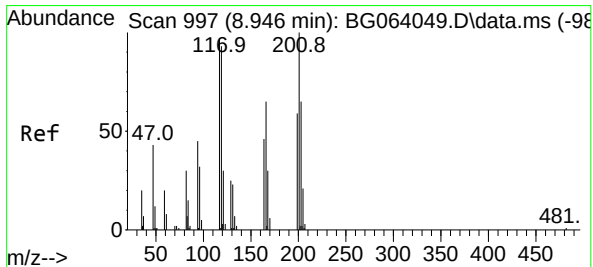
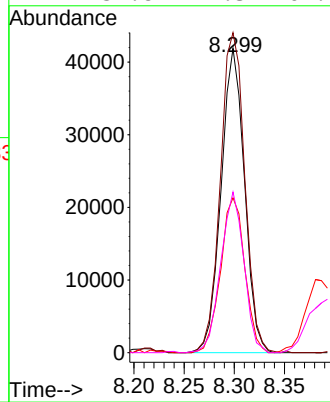
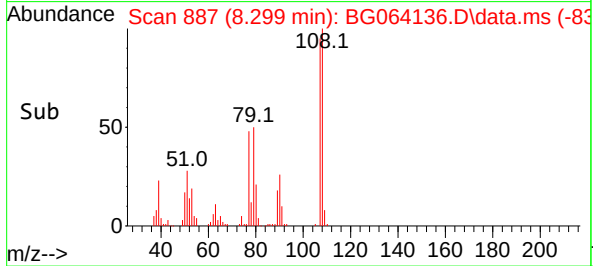
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:107 Resp: 67630  
Ion Ratio Lower Upper  
107 100  
108 105.2 92.5 138.7  
77 50.9 40.5 60.7  
79 52.8 41.3 61.9

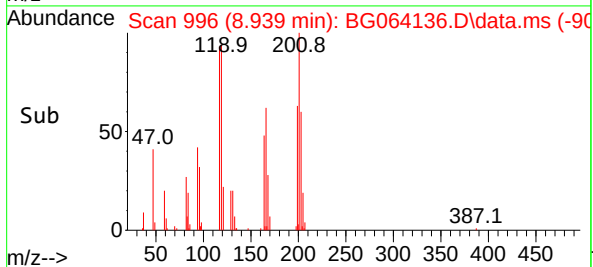
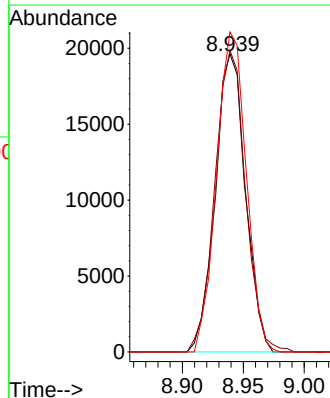
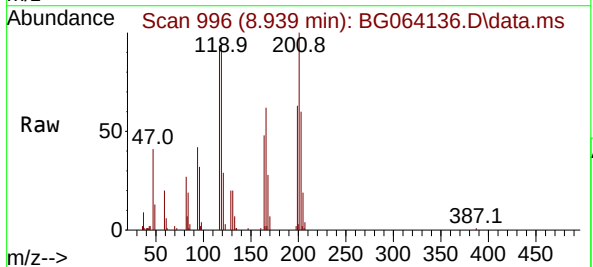
Manual Integrations  
APPROVED

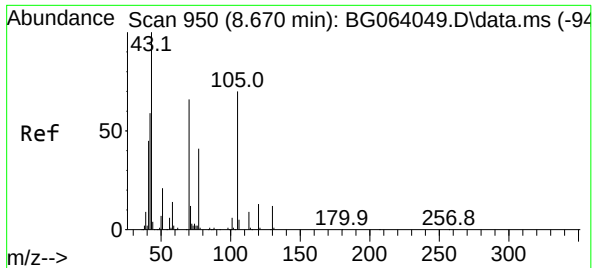
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#18  
Hexachloroethane  
Concen: 38.373 ng  
RT: 8.939 min Scan# 996  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

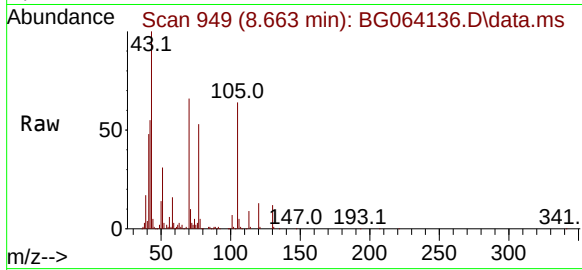
Tgt Ion:117 Resp: 33724  
Ion Ratio Lower Upper  
117 100  
119 101.2 76.2 114.2  
201 107.4 81.5 122.3





#19  
n-Nitroso-di-n-propylamine  
Concen: 52.969 ng  
RT: 8.663 min Scan# 949  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

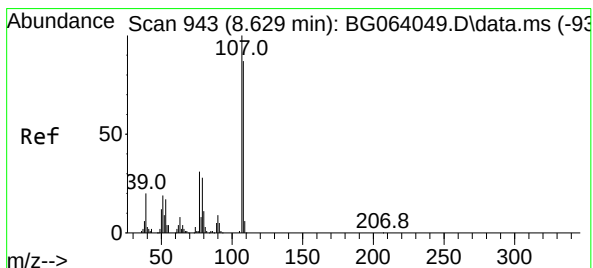
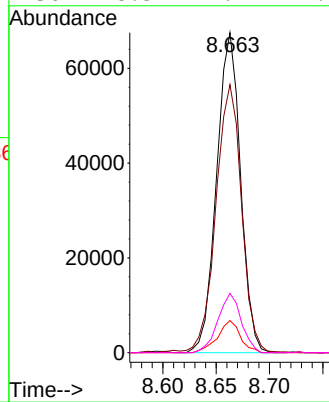
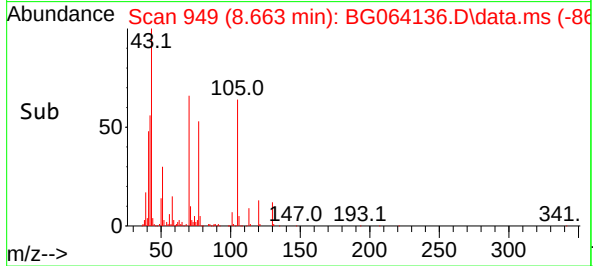
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion: 70 Resp: 10508  
Ion Ratio Lower Upper  
70 100  
42 83.7 72.1 108.1  
101 10.0 7.2 10.8  
130 18.5 14.7 22.1

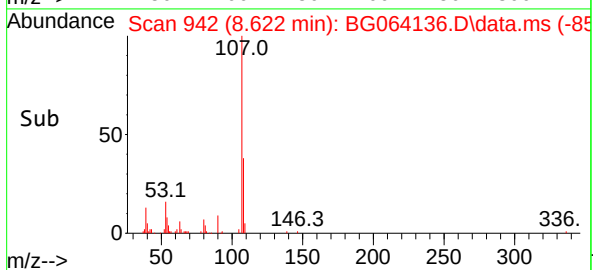
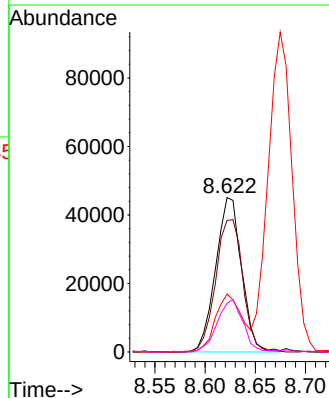
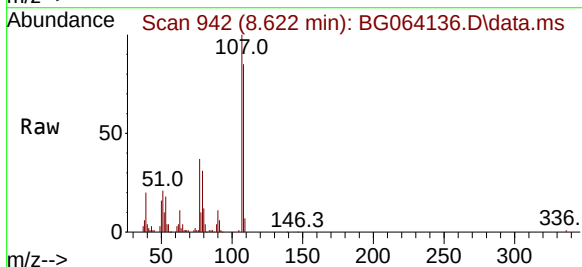
Manual Integrations  
APPROVED

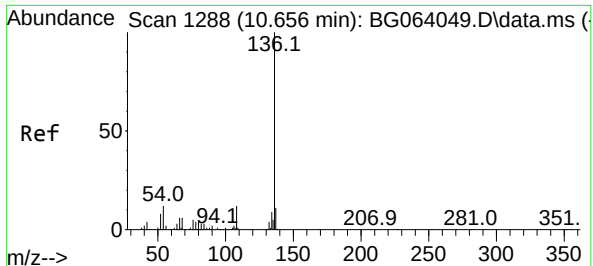
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#20  
3+4-Methylphenols  
Concen: 30.609 ng  
RT: 8.622 min Scan# 942  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

Tgt Ion:107 Resp: 80940  
Ion Ratio Lower Upper  
107 100  
108 85.1 67.0 107.0  
77 37.5 11.2 51.2  
79 31.5 7.7 47.7





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.649 min Scan# 1287

Delta R.T. -0.007 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-06MSD

Tgt Ion:136 Resp: 141900

Ion Ratio Lower Upper

136 100

137 10.5 8.5 12.7

54 11.2 9.9 14.9

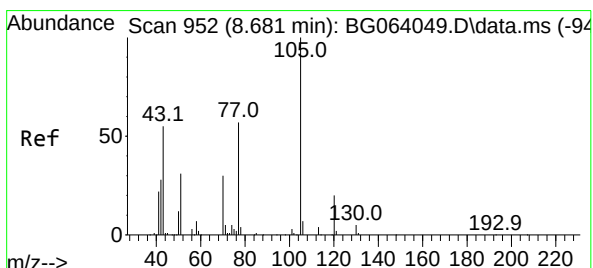
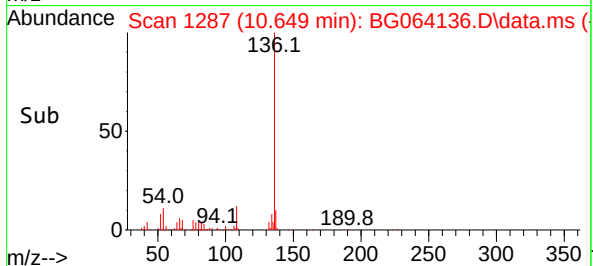
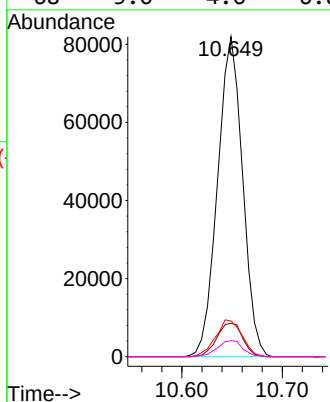
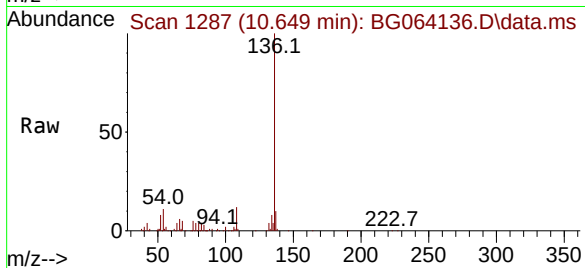
68 5.0 4.6 6.8

Manual Integrations

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Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#22

Acetophenone

Concen: 51.370 ng

RT: 8.675 min Scan# 951

Delta R.T. -0.007 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

Tgt Ion:105 Resp: 199860

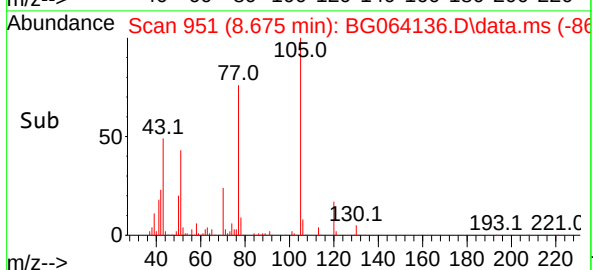
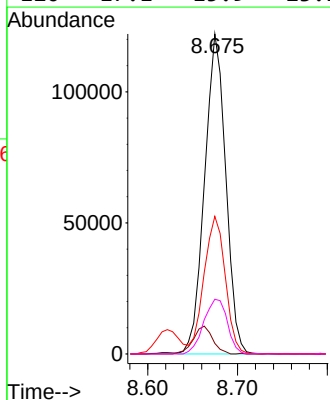
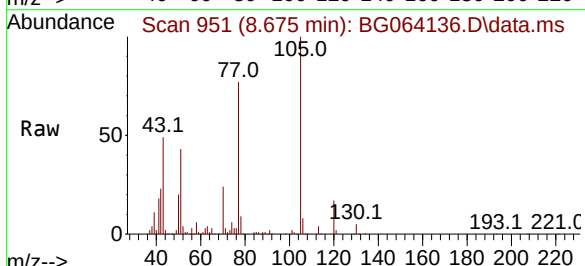
Ion Ratio Lower Upper

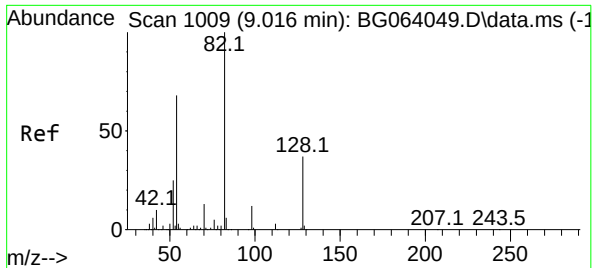
105 100

71 3.3 4.2 6.4

51 43.0 33.3 49.9

120 17.1 15.9 23.9





#23

Nitrobenzene-d5

Concen: 116.603 ng

RT: 9.010 min Scan# 1008

Delta R.T. -0.007 min

Lab File: BG064136.D

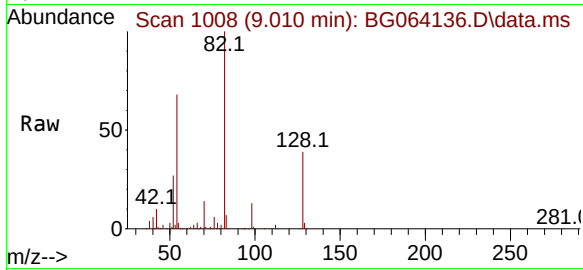
Acq: 1 Apr 2025 15:44

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-06MSD



Tgt Ion: 82 Resp: 29941

Ion Ratio Lower Upper

82 100

128 39.5 30.0 45.0

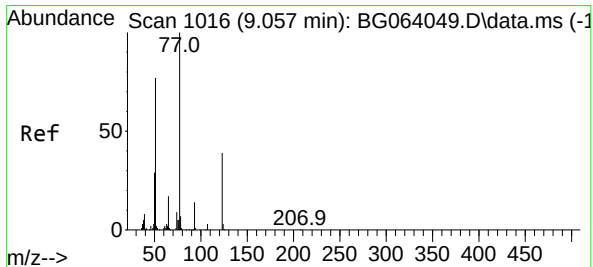
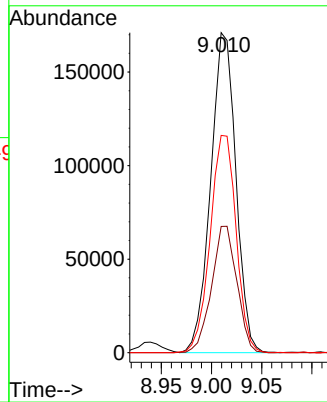
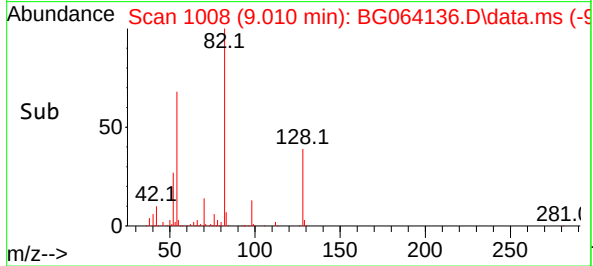
54 67.9 54.7 82.1

Manual Integrations

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Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#24

Nitrobenzene

Concen: 56.939 ng

RT: 9.051 min Scan# 1015

Delta R.T. -0.007 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

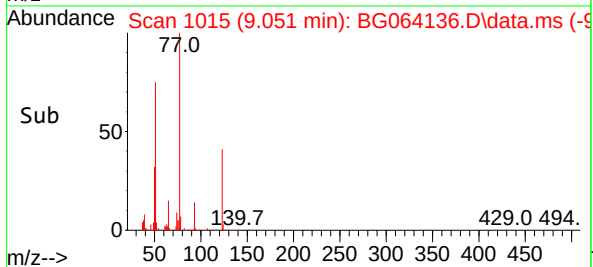
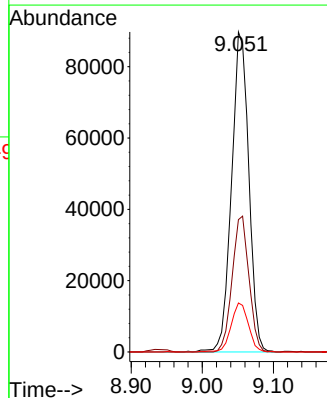
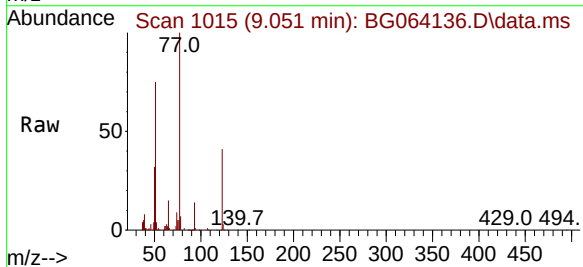
Tgt Ion: 77 Resp: 151097

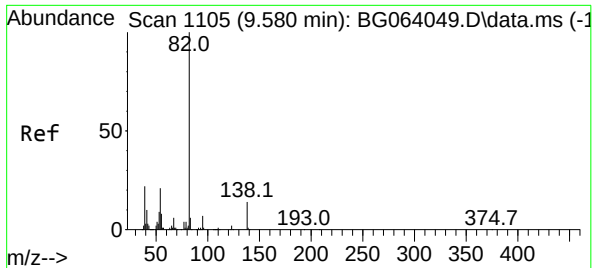
Ion Ratio Lower Upper

77 100

123 41.3 31.4 47.2

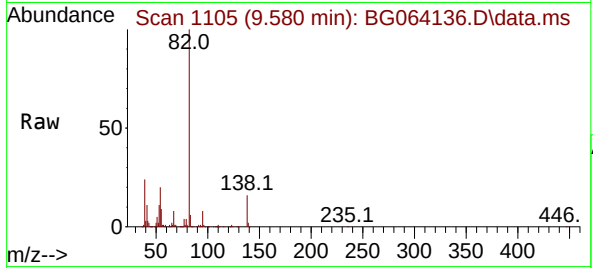
65 15.3 13.4 20.0





#25  
Isophorone  
Concen: 56.052 ng  
RT: 9.580 min Scan# 1105  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

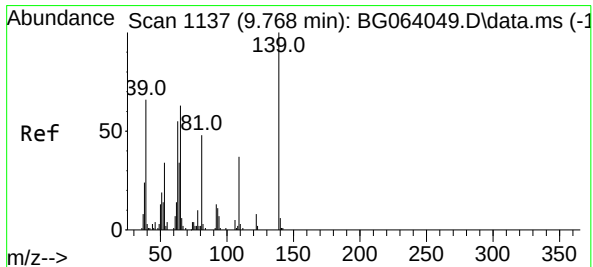
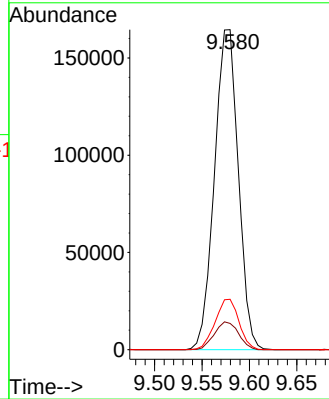
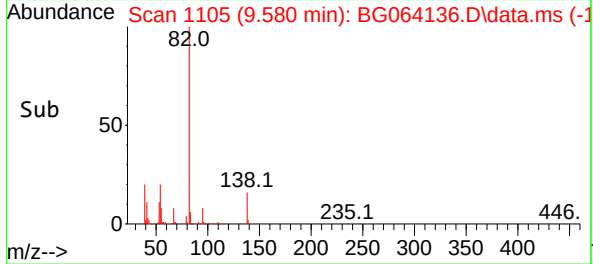
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion: 82 Resp: 288079  
Ion Ratio Lower Upper  
82 100  
95 8.2 5.8 8.8  
138 15.7 10.9 16.3

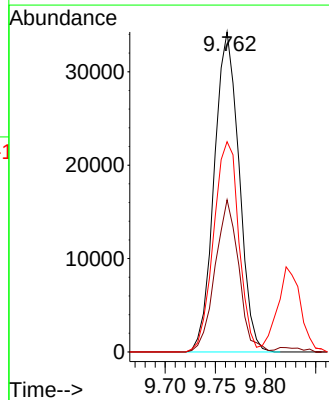
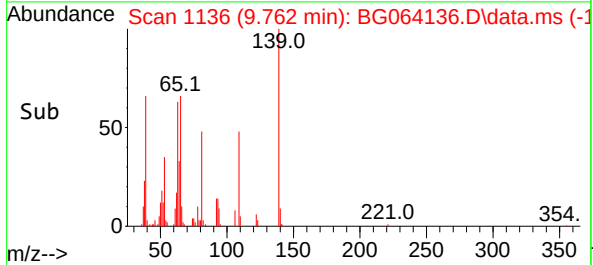
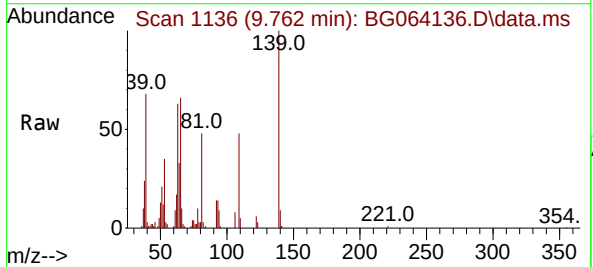
Manual Integrations  
**APPROVED**

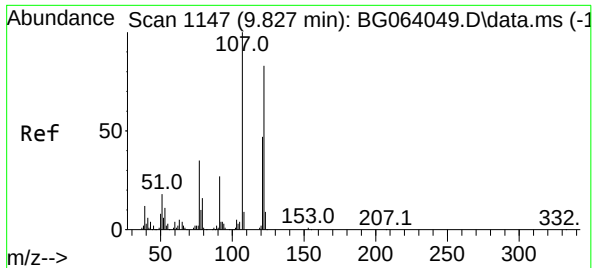
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#26  
2-Nitrophenol  
Concen: 60.582 ng  
RT: 9.762 min Scan# 1136  
Delta R.T. -0.006 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

Tgt Ion:139 Resp: 58921  
Ion Ratio Lower Upper  
139 100  
109 47.5 29.9 44.9#  
65 65.7 50.6 76.0





#27

2,4-Dimethylphenol

Concen: 67.783 ng

RT: 9.826 min Scan# 1147

Delta R.T. -0.001 min

Lab File: BG064136.D

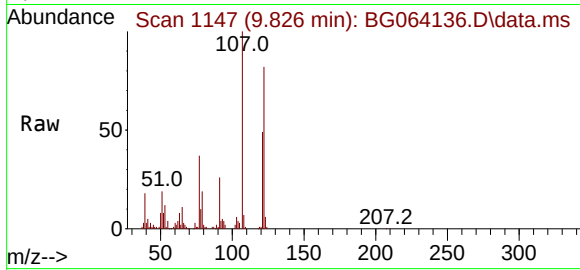
Acq: 1 Apr 2025 15:44

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-06MSD



Tgt Ion:122 Resp: 10443

Ion Ratio Lower Upper

122 100

107 121.2 95.4 143.0

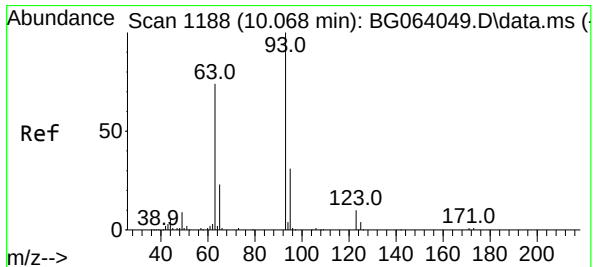
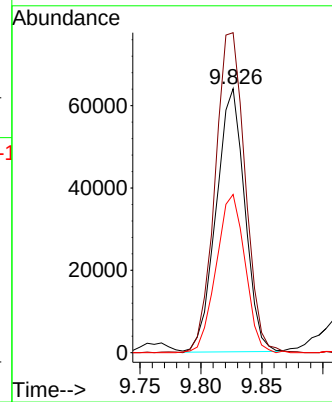
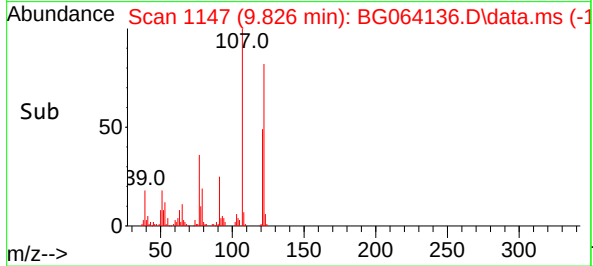
121 60.0 44.9 67.3

Manual Integrations

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Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#28

bis(2-Chloroethoxy)methane

Concen: 51.367 ng

RT: 10.061 min Scan# 1187

Delta R.T. -0.007 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

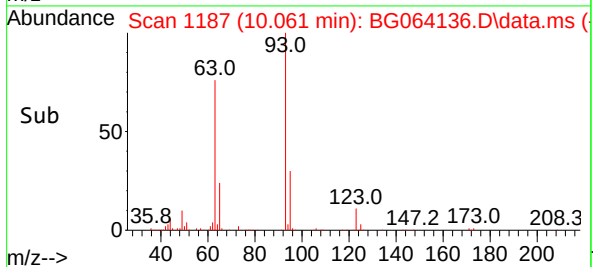
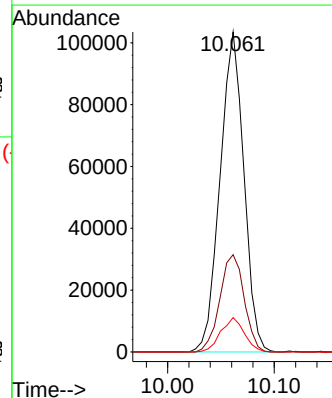
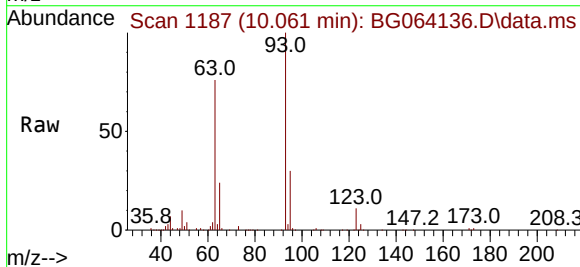
Tgt Ion: 93 Resp: 160057

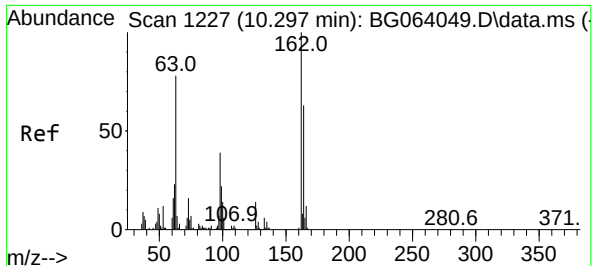
Ion Ratio Lower Upper

93 100

95 30.4 25.0 37.4

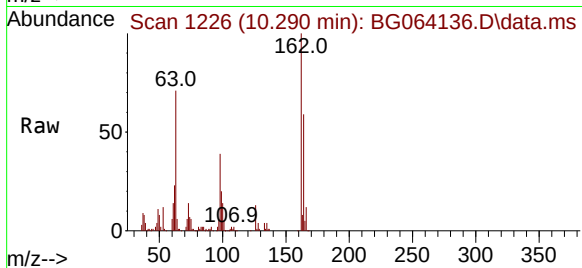
123 10.8 7.6 11.4





#29  
2,4-Dichlorophenol  
Concen: 55.657 ng  
RT: 10.290 min Scan# 1227  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

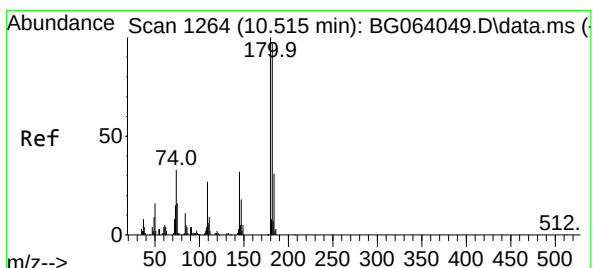
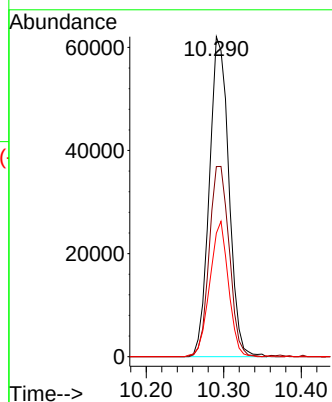
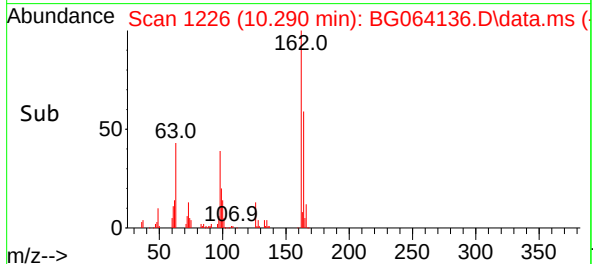
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:162 Resp: 10828  
Ion Ratio Lower Upper  
162 100  
164 59.4 42.8 82.8  
98 38.6 19.1 59.1

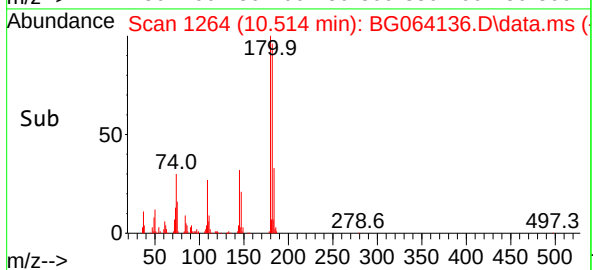
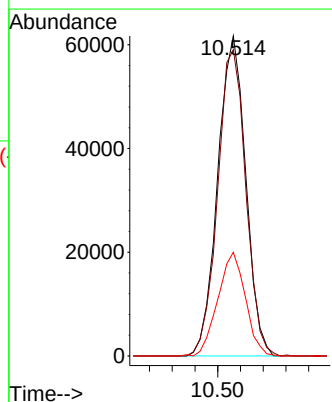
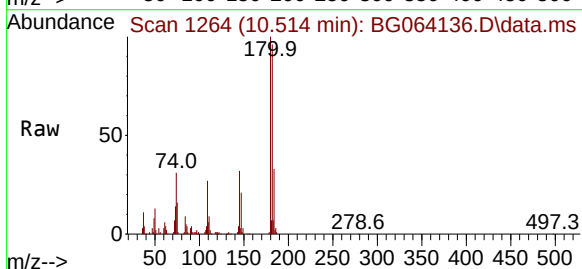
Manual Integrations  
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Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

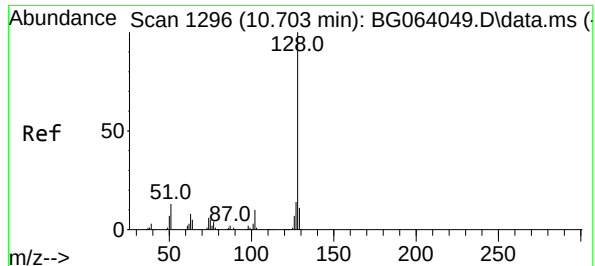


#30  
1,2,4-Trichlorobenzene  
Concen: 44.868 ng  
RT: 10.514 min Scan# 1264  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

Tgt Ion:180 Resp: 105376  
Ion Ratio Lower Upper  
180 100  
182 95.7 77.3 115.9  
145 32.4 25.2 37.8







#31

Naphthalene

Concen: 46.599 ng

RT: 10.696 min Scan# 1161

Delta R.T. -0.007 min

Lab File: BG064136.D

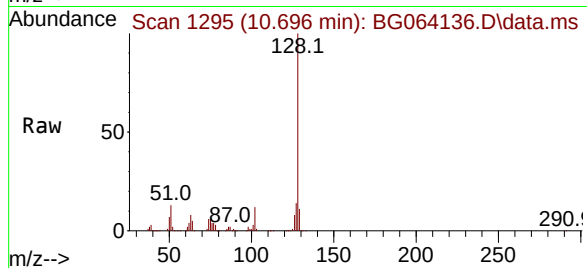
Acq: 1 Apr 2025 15:44

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-06MSD



Tgt Ion:128 Resp: 35656

Ion Ratio Lower Upper

128 100

129 10.6 8.4 12.6

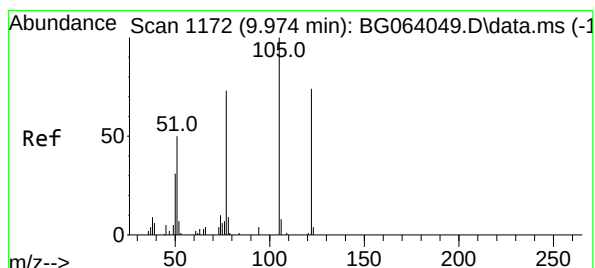
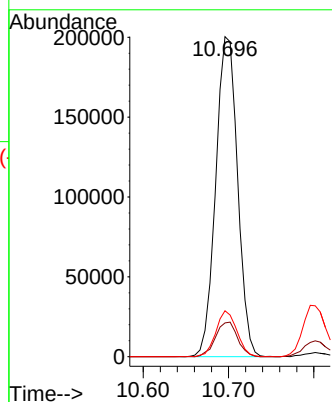
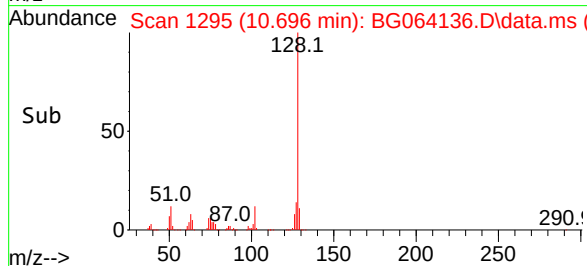
127 14.3 11.1 16.7

Manual Integrations

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Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#32

Benzoic acid

Concen: 20.869 ng m

RT: 9.909 min Scan# 1161

Delta R.T. -0.065 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

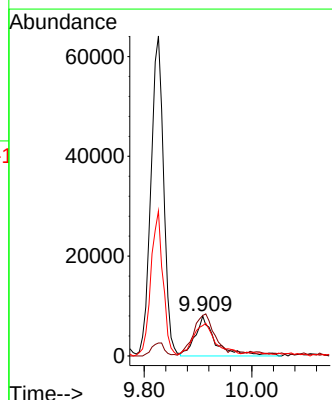
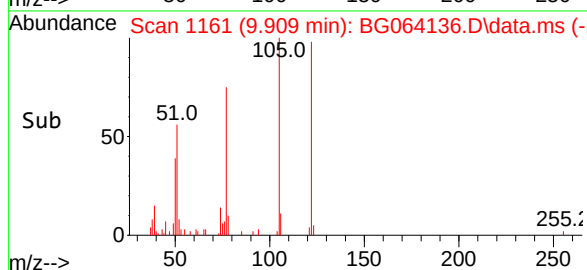
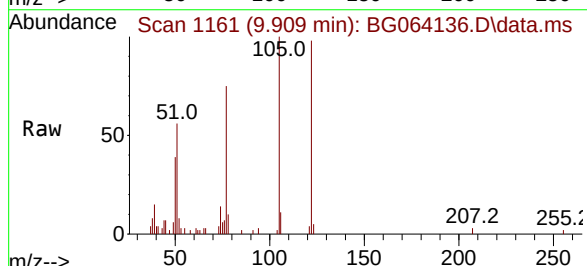
Tgt Ion:122 Resp: 21042

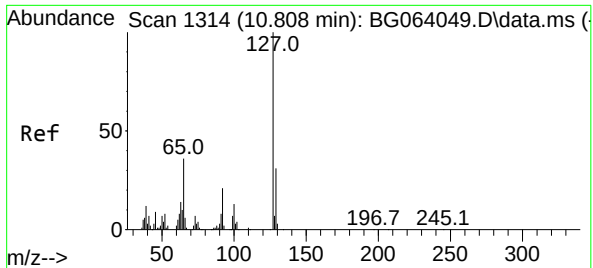
Ion Ratio Lower Upper

122 100

105 101.5 115.0 155.0#

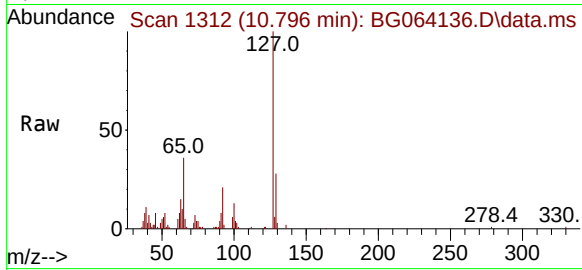
77 76.4 80.9 120.9#





#33  
4-Chloroaniline  
Concen: 21.638 ng  
RT: 10.796 min Scan# 11  
Delta R.T. -0.013 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

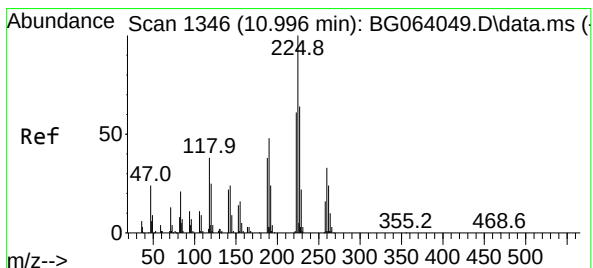
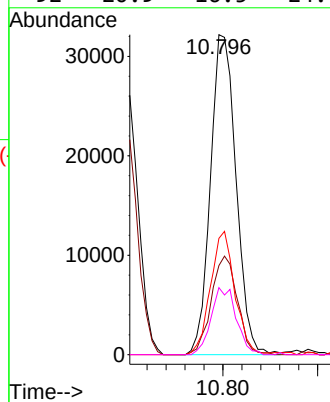
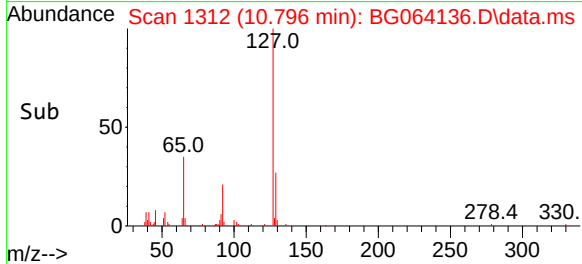
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:127 Resp: 60514  
Ion Ratio Lower Upper  
127 100  
129 27.8 25.0 37.4  
65 36.4 28.5 42.7  
92 20.9 16.5 24.7

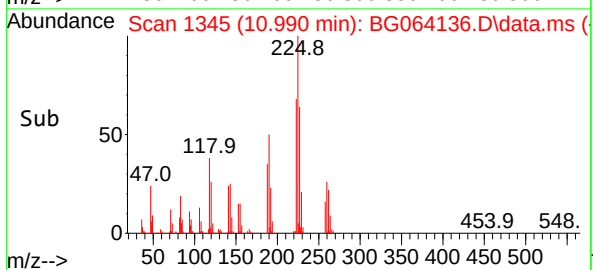
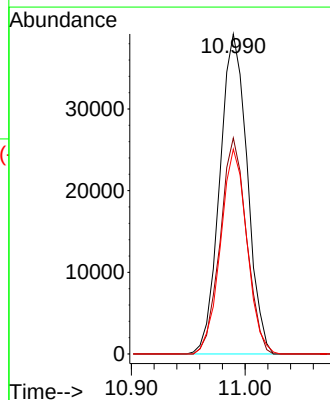
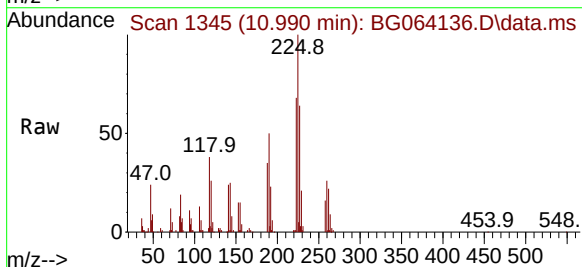
Manual Integrations  
APPROVED

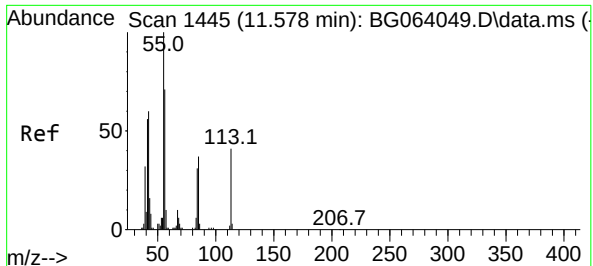
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#34  
Hexachlorobutadiene  
Concen: 42.692 ng  
RT: 10.990 min Scan# 1345  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

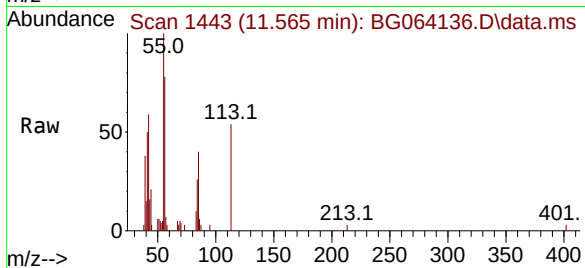
Tgt Ion:225 Resp: 65720  
Ion Ratio Lower Upper  
225 100  
223 67.5 48.5 72.7  
227 64.0 51.0 76.6





#35  
Caprolactam  
Concen: 10.202 ng m  
RT: 11.565 min Scan# 1443  
Delta R.T. -0.013 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

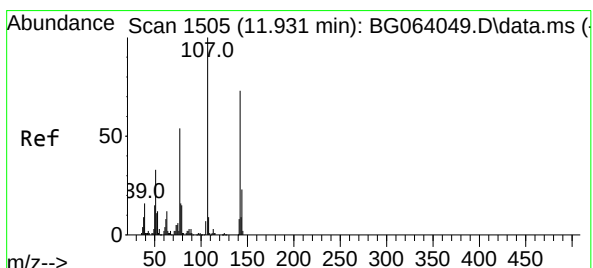
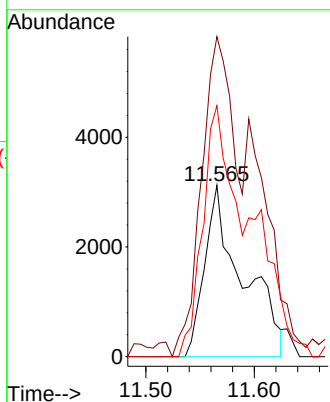
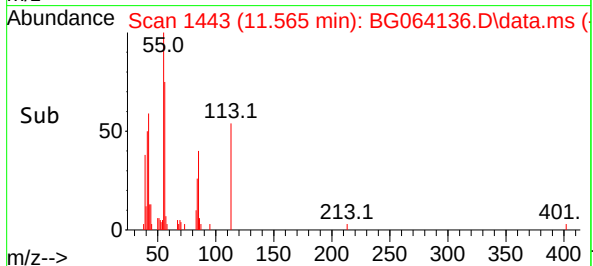
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:113 Resp: 7600  
Ion Ratio Lower Upper  
113 100  
55 186.7 225.2 265.2  
56 146.5 153.4 193.4

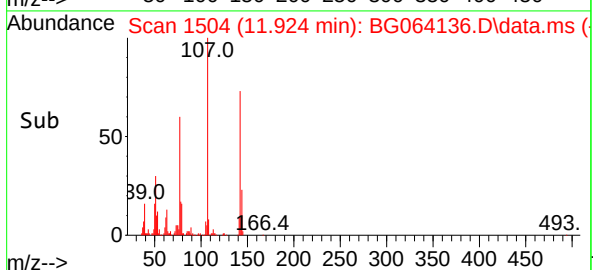
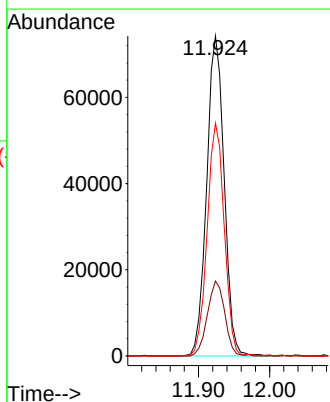
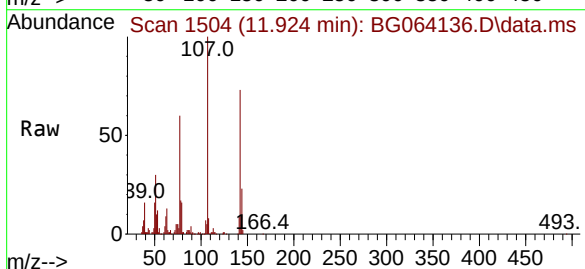
Manual Integrations  
APPROVED

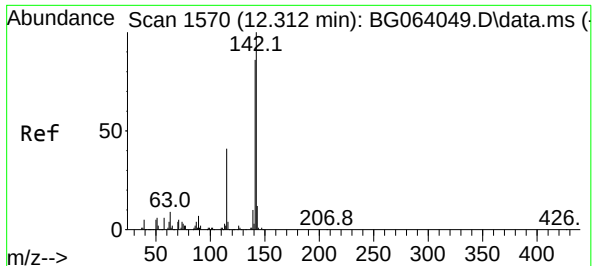
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#36  
4-Chloro-3-methylphenol  
Concen: 49.667 ng  
RT: 11.924 min Scan# 1504  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

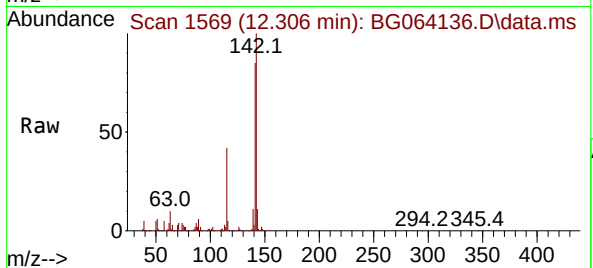
Tgt Ion:107 Resp: 126660  
Ion Ratio Lower Upper  
107 100  
144 23.4 18.6 28.0  
142 72.8 58.0 87.0





#37  
2-Methylnaphthalene  
Concen: 46.848 ng  
RT: 12.306 min Scan# 1569  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

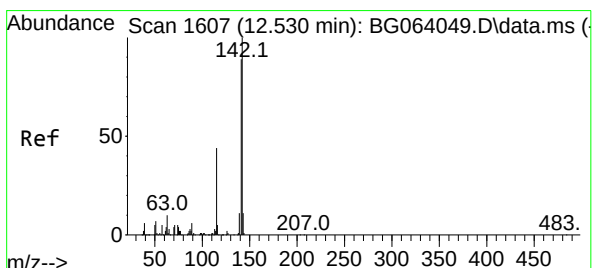
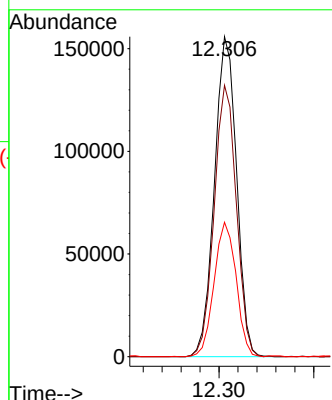
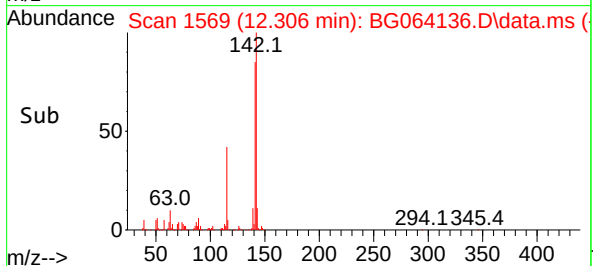
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:142 Resp: 253060  
Ion Ratio Lower Upper  
142 100  
141 84.8 68.6 103.0  
115 42.0 32.8 49.2

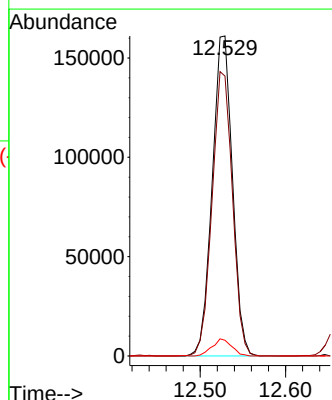
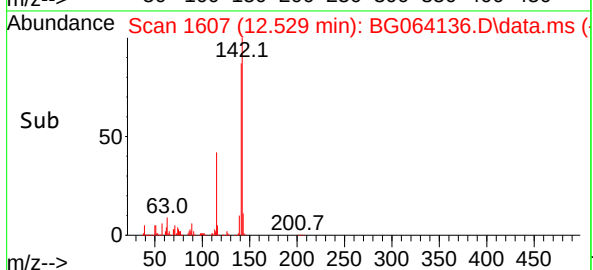
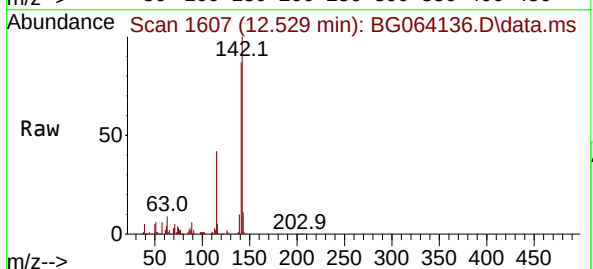
Manual Integrations  
APPROVED

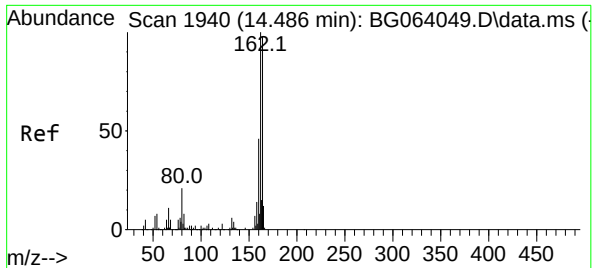
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#38  
1-Methylnaphthalene  
Concen: 50.151 ng  
RT: 12.529 min Scan# 1607  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

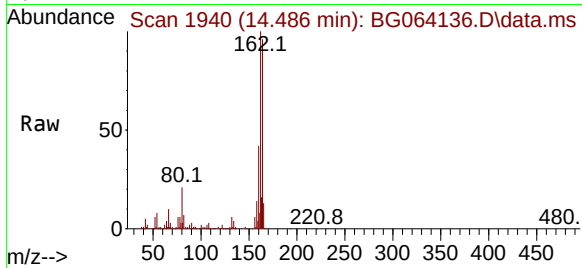
Tgt Ion:142 Resp: 265405  
Ion Ratio Lower Upper  
142 100  
141 87.4 71.2 106.8  
116 4.9 3.6 5.4





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.486 min Scan# 1940  
Delta R.T. -0.000 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

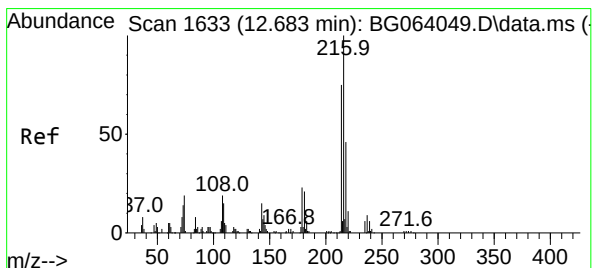
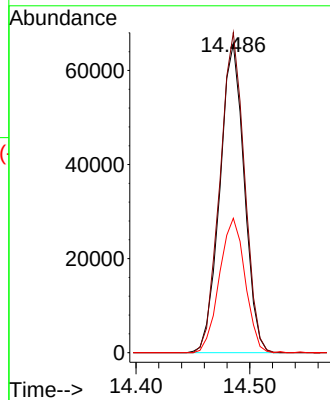
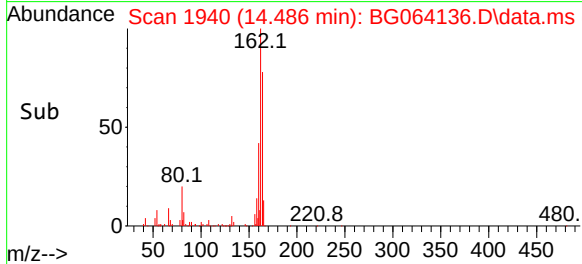
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:164 Resp: 97582  
Ion Ratio Lower Upper  
164 100  
162 103.6 81.4 122.0  
160 43.5 37.0 55.6

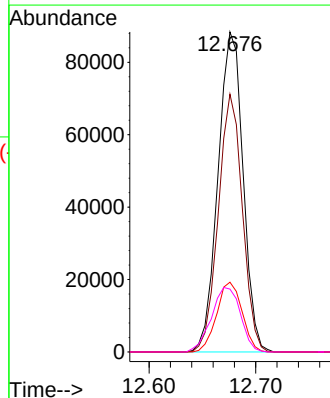
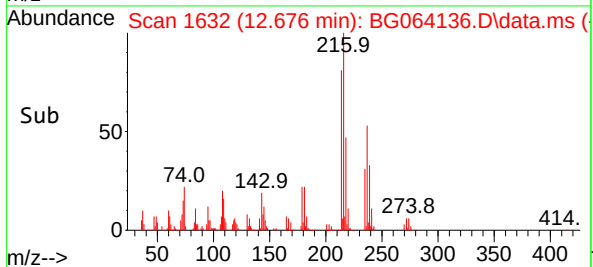
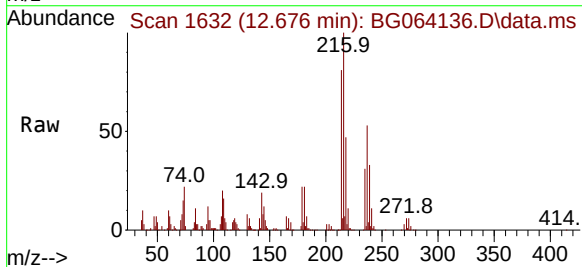
Manual Integrations  
APPROVED

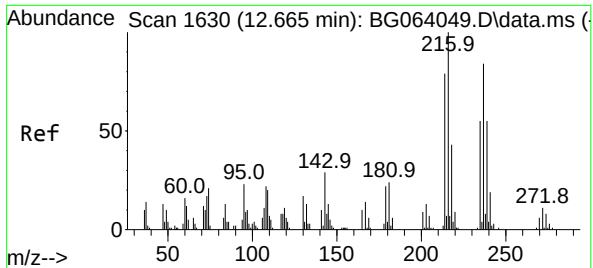
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 51.699 ng  
RT: 12.676 min Scan# 1632  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

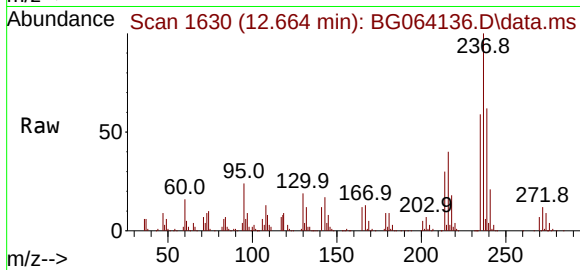
Tgt Ion:216 Resp: 144027  
Ion Ratio Lower Upper  
216 100  
214 77.4 61.7 92.5  
179 22.1 17.9 26.9  
108 23.4 15.9 23.9





#41  
Hexachlorocyclopentadiene  
Concen: 237.253 ng  
RT: 12.664 min Scan# 1630  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

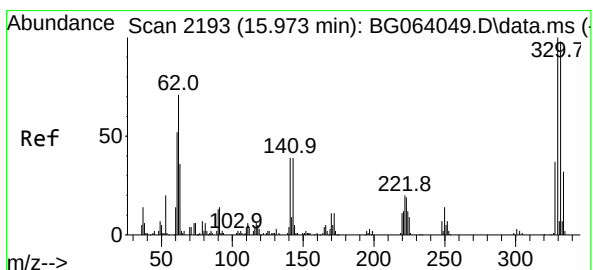
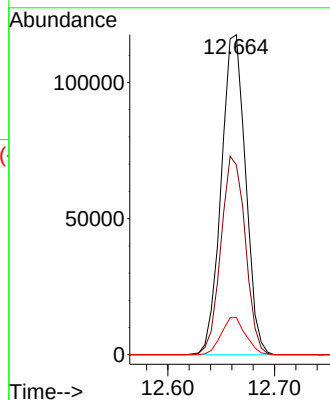
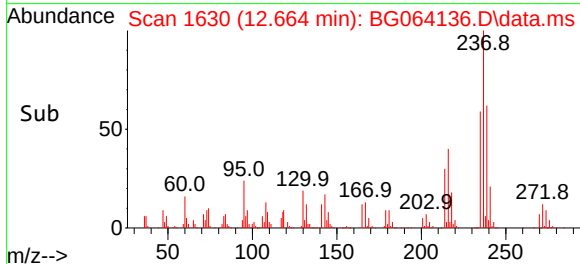
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:237 Resp: 186029  
Ion Ratio Lower Upper  
237 100  
235 59.3 46.0 86.0  
272 11.6 0.0 32.8

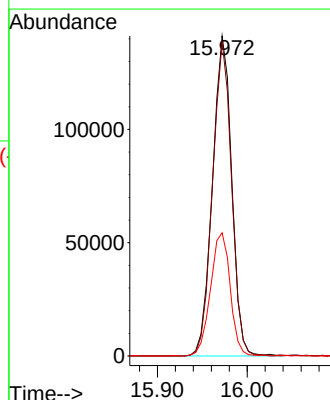
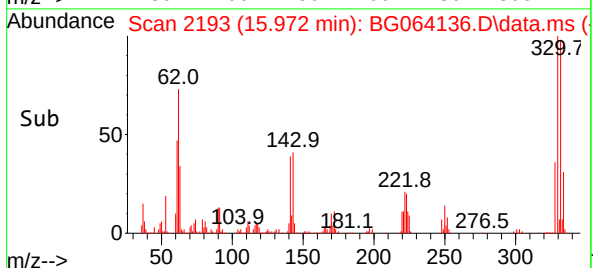
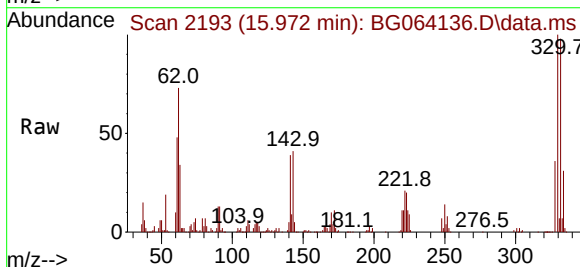
Manual Integrations  
APPROVED

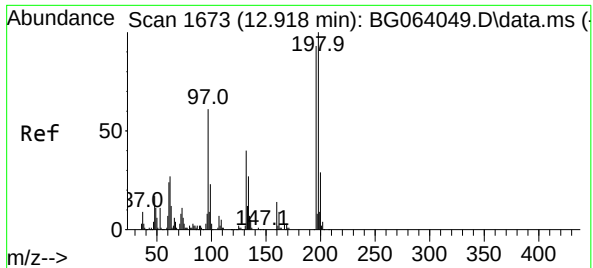
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#42  
2,4,6-Tribromophenol  
Concen: 193.632 ng  
RT: 15.972 min Scan# 2193  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

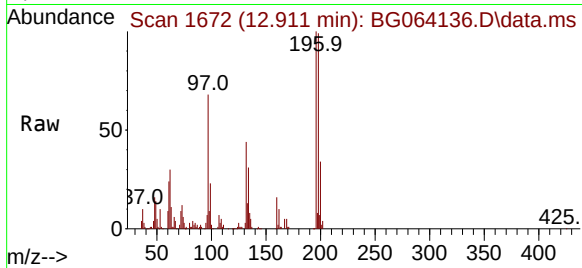
Tgt Ion:330 Resp: 210031  
Ion Ratio Lower Upper  
330 100  
332 96.8 76.7 115.1  
141 39.5 29.7 44.5





#43  
2,4,6-Trichlorophenol  
Concen: 63.375 ng  
RT: 12.911 min Scan# 1672  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

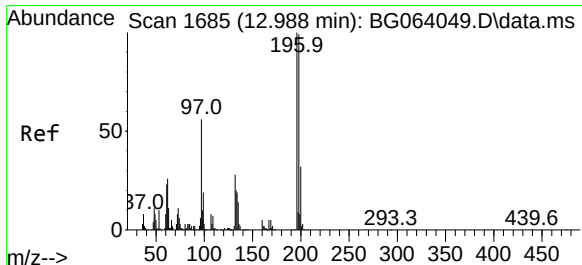
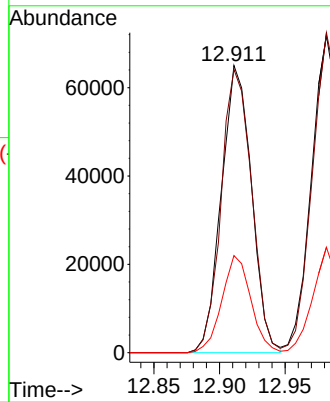
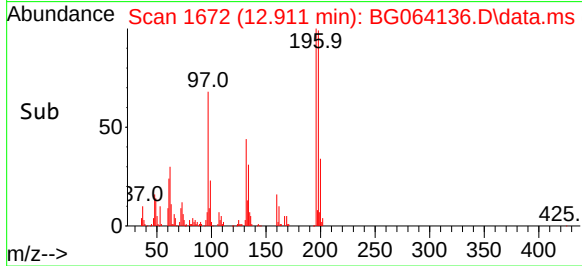
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:196 Resp: 10405  
Ion Ratio Lower Upper  
196 100  
198 98.6 85.6 128.4  
200 33.8 24.6 37.0

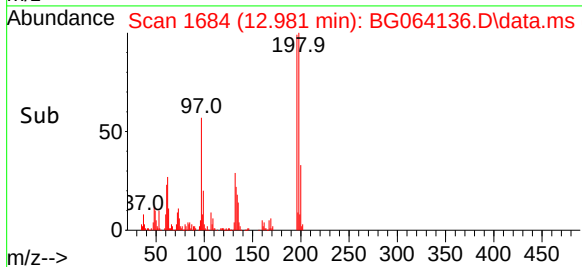
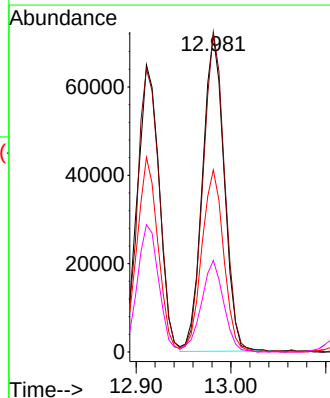
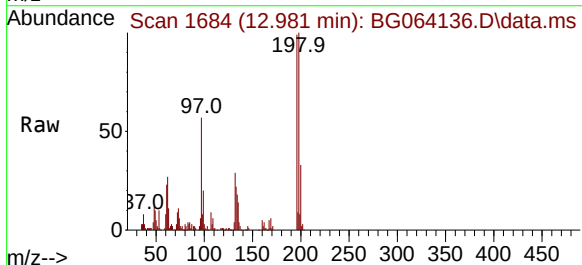
Manual Integrations  
APPROVED

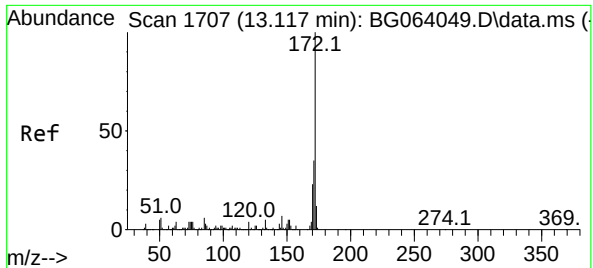
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#44  
2,4,5-Trichlorophenol  
Concen: 62.363 ng  
RT: 12.981 min Scan# 1684  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

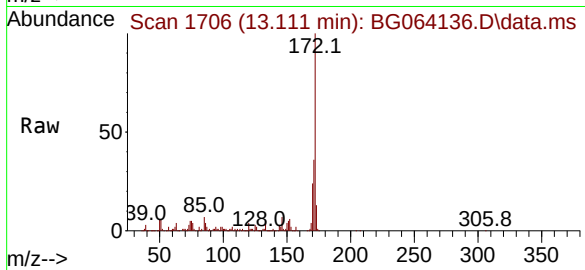
Tgt Ion:196 Resp: 113775  
Ion Ratio Lower Upper  
196 100  
198 100.9 79.5 119.3  
97 57.4 45.2 67.8  
132 28.9 22.6 34.0





#45  
2-Fluorobiphenyl  
Concen: 104.553 ng  
RT: 13.111 min Scan# 1706  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

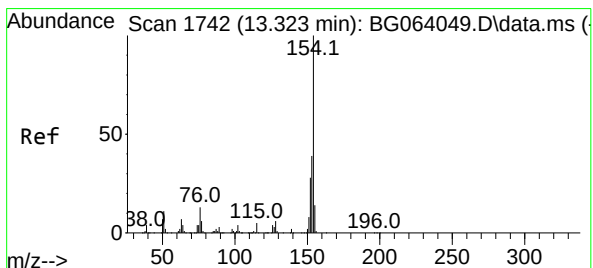
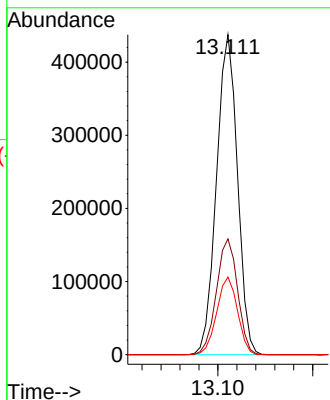
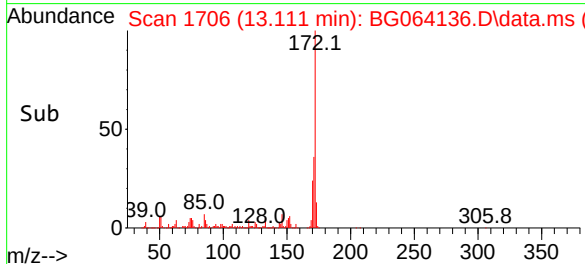
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:172 Resp: 672154  
Ion Ratio Lower Upper  
172 100  
171 36.2 28.0 42.0  
170 24.2 18.7 28.1

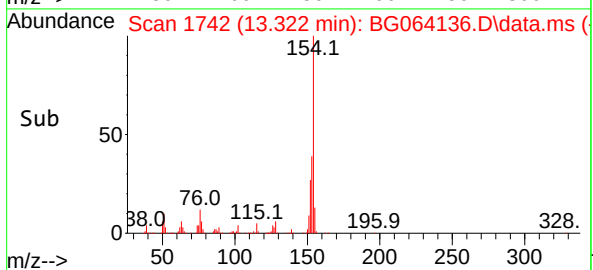
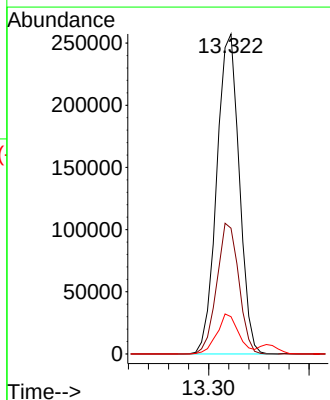
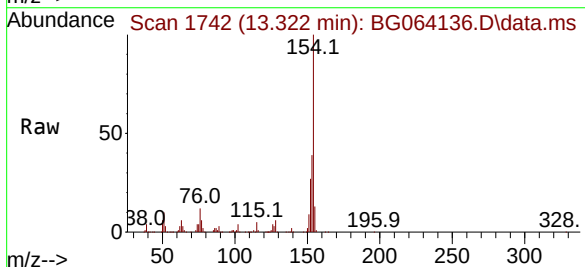
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

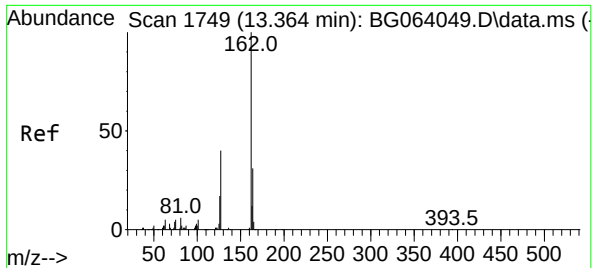


#46  
1,1'-Biphenyl  
Concen: 54.181 ng  
RT: 13.322 min Scan# 1742  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

Tgt Ion:154 Resp: 399444  
Ion Ratio Lower Upper  
154 100  
153 39.3 19.5 59.5  
76 11.7 0.0 33.5

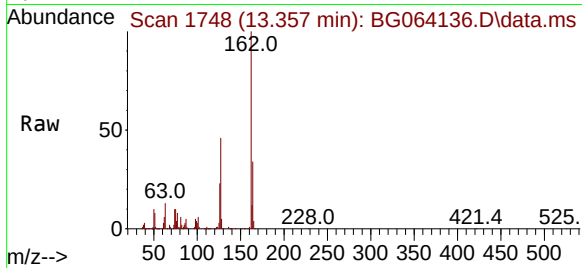






#47  
2-Chloronaphthalene  
Concen: 53.612 ng  
RT: 13.357 min Scan# 1748  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

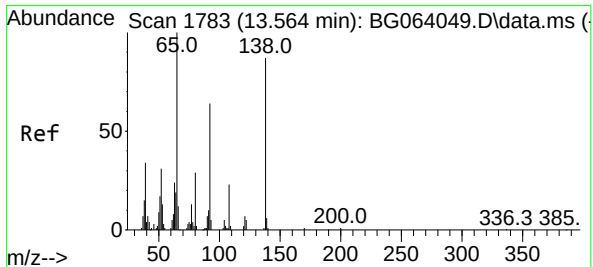
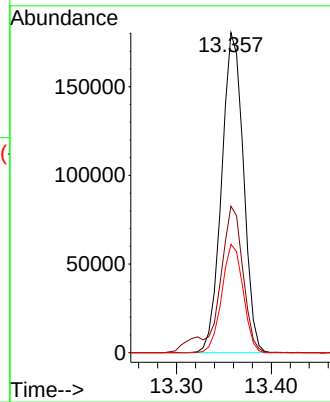
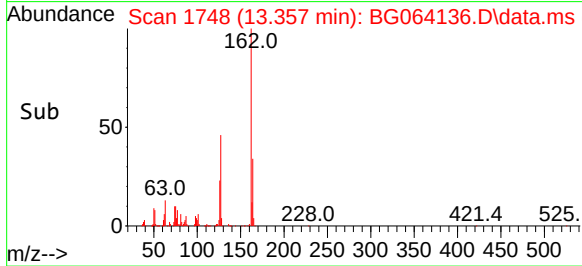
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



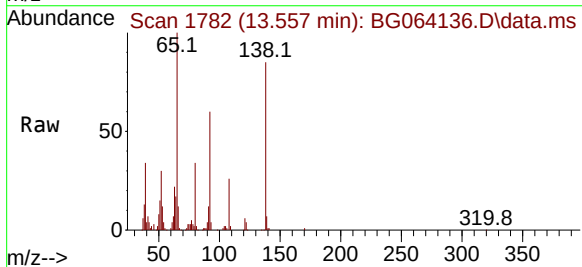
Tgt Ion:162 Resp: 28826  
Ion Ratio Lower Upper  
162 100  
127 45.8 35.0 52.4  
164 33.8 25.0 37.6

Manual Integrations  
APPROVED

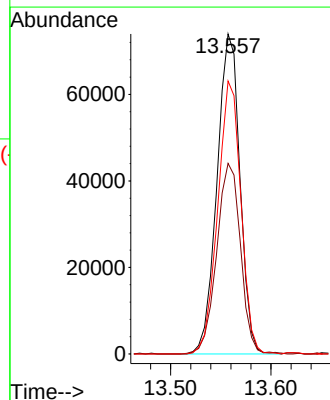
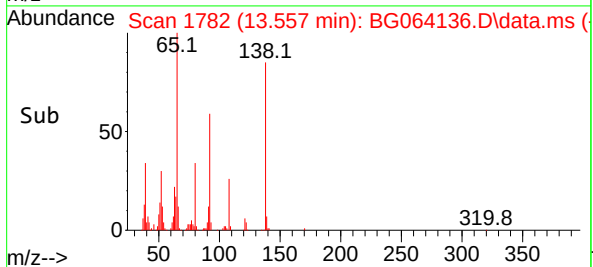
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

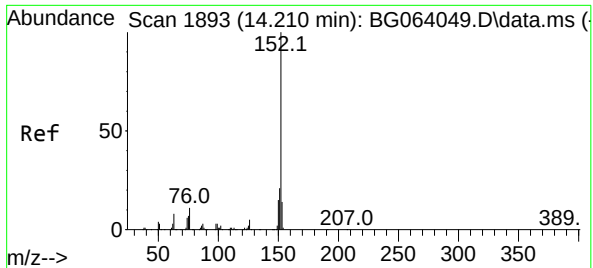


#48  
2-Nitroaniline  
Concen: 62.103 ng  
RT: 13.557 min Scan# 1782  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44



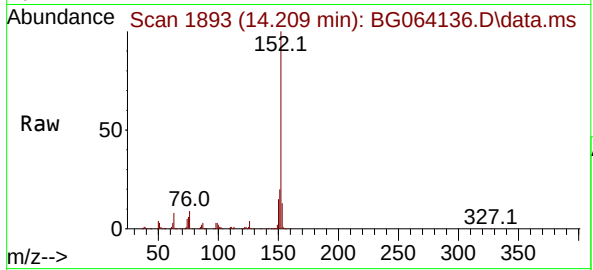
Tgt Ion: 65 Resp: 117324  
Ion Ratio Lower Upper  
65 100  
92 59.5 51.2 76.8  
138 85.3 69.4 104.2





#49  
Acenaphthylene  
Concen: 59.444 ng  
RT: 14.209 min Scan# 1893  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

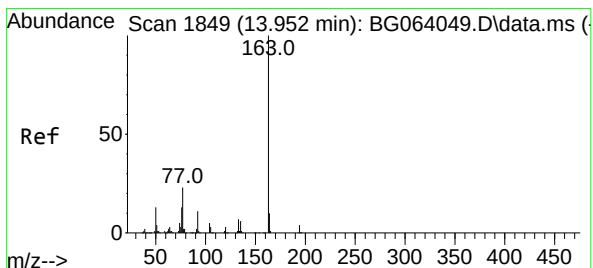
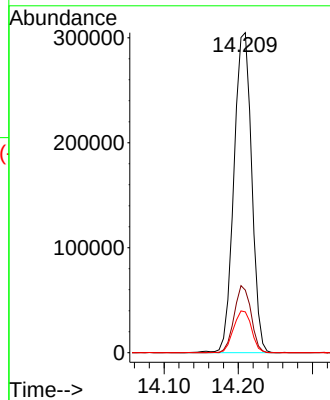
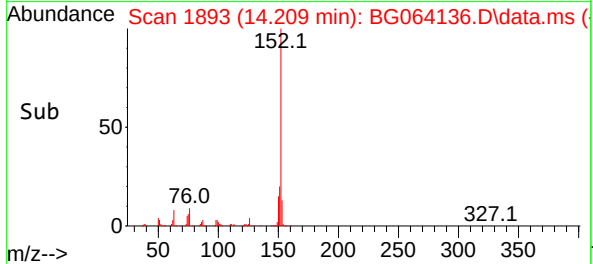
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:152 Resp: 505558  
Ion Ratio Lower Upper  
152 100  
151 19.6 16.4 24.6  
153 12.7 10.9 16.3

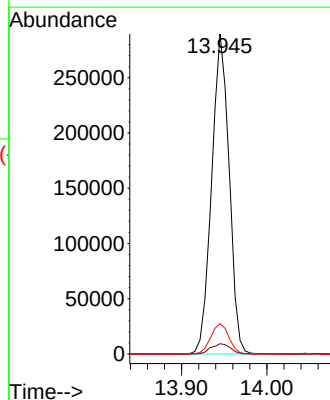
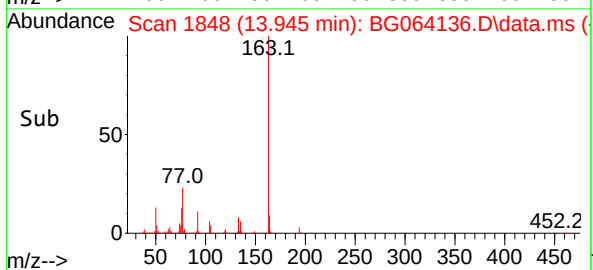
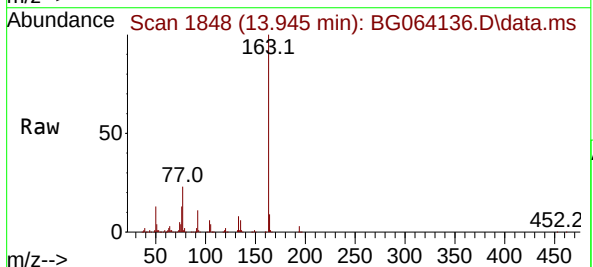
Manual Integrations  
**APPROVED**

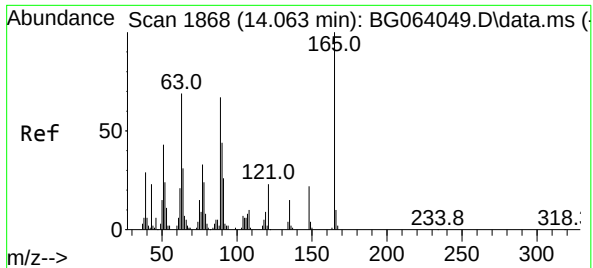
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#50  
Dimethylphthalate  
Concen: 57.157 ng  
RT: 13.945 min Scan# 1848  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

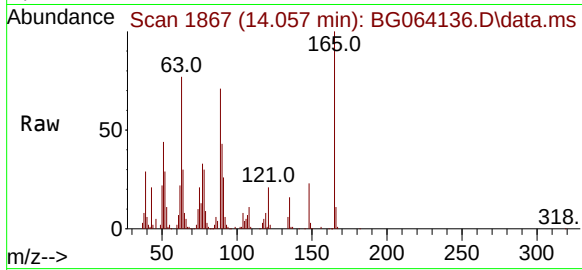
Tgt Ion:163 Resp: 411716  
Ion Ratio Lower Upper  
163 100  
194 3.2 2.8 4.2  
164 9.5 8.2 12.2





#51  
2,6-Dinitrotoluene  
Concen: 60.006 ng  
RT: 14.057 min Scan# 1867  
Delta R.T. -0.006 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

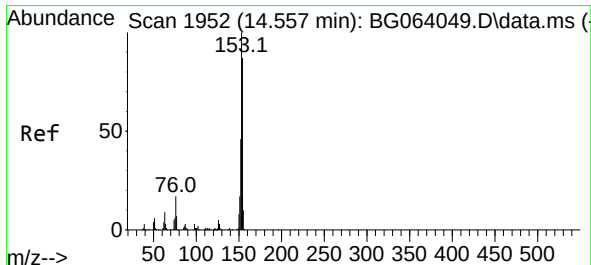
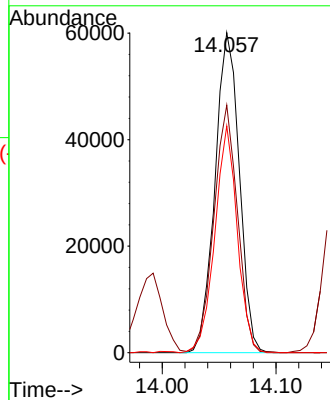
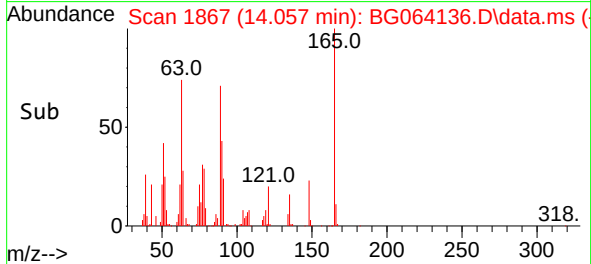
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:165 Resp: 89010  
Ion Ratio Lower Upper  
165 100  
63 77.4 56.7 85.1  
89 70.9 53.7 80.5

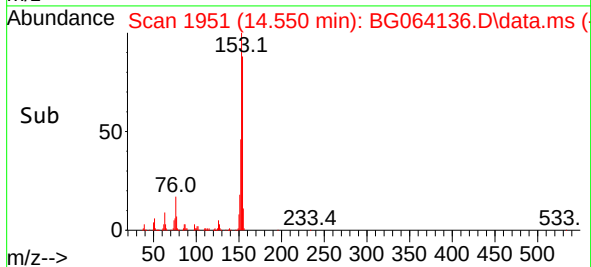
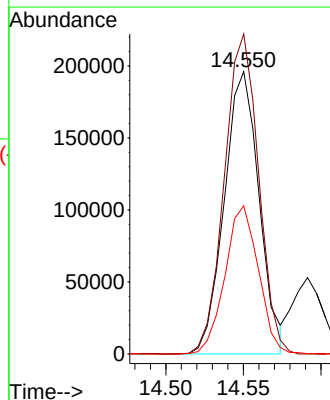
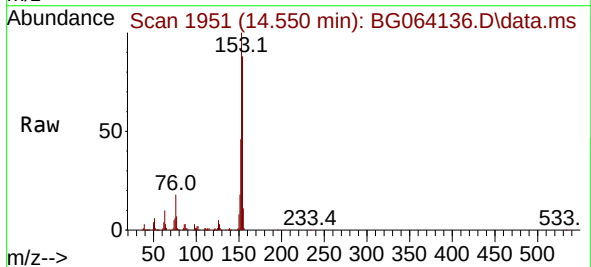
Manual Integrations  
APPROVED

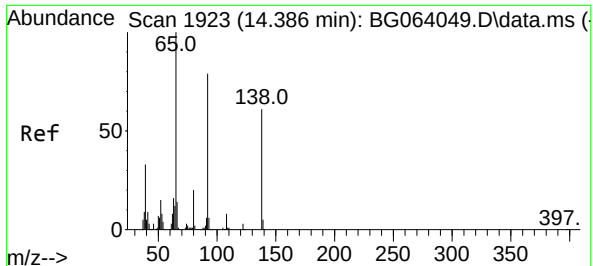
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#52  
Acenaphthene  
Concen: 53.668 ng  
RT: 14.550 min Scan# 1951  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

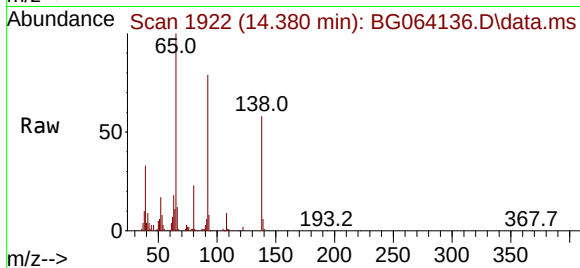
Tgt Ion:154 Resp: 306320  
Ion Ratio Lower Upper  
154 100  
153 113.3 91.6 137.4  
152 52.5 42.5 63.7





#53  
3-Nitroaniline  
Concen: 30.516 ng  
RT: 14.380 min Scan# 1922  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

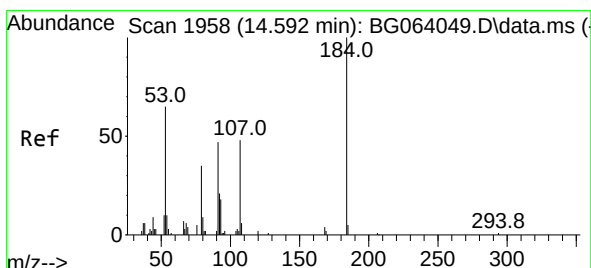
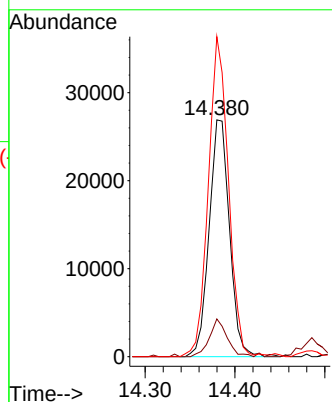
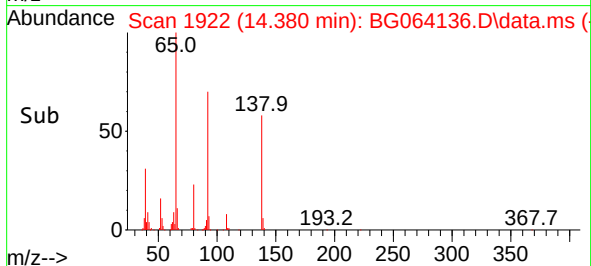
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:138 Resp: 42484  
Ion Ratio Lower Upper  
138 100  
108 15.9 10.1 15.1#  
92 135.1 104.1 156.1#

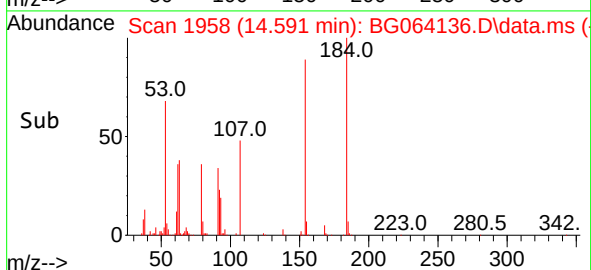
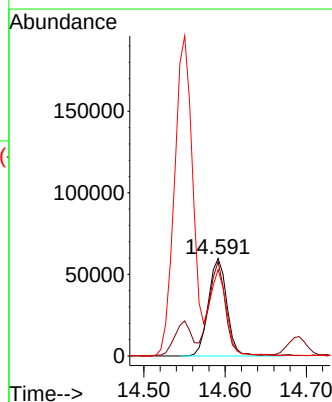
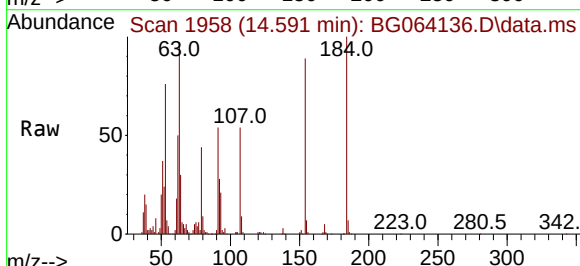
Manual Integrations  
APPROVED

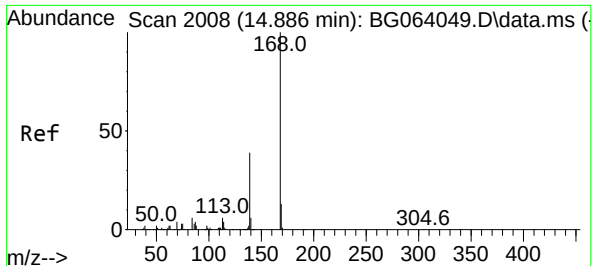
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#54  
2,4-Dinitrophenol  
Concen: 148.264 ng  
RT: 14.591 min Scan# 1958  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

Tgt Ion:184 Resp: 94881  
Ion Ratio Lower Upper  
184 100  
63 96.6 57.5 86.3#  
154 88.6 52.3 78.5#





#55

Dibenzenofuran

Concen: 52.546 ng

RT: 14.885 min Scan# 2008

Delta R.T. -0.001 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-06MSD

Tgt Ion:168 Resp: 48585

Ion Ratio Lower Upper

168 100

139 41.5 31.1 46.7

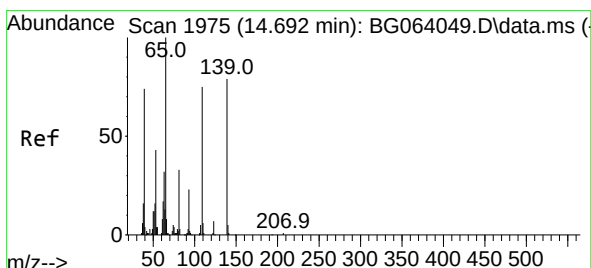
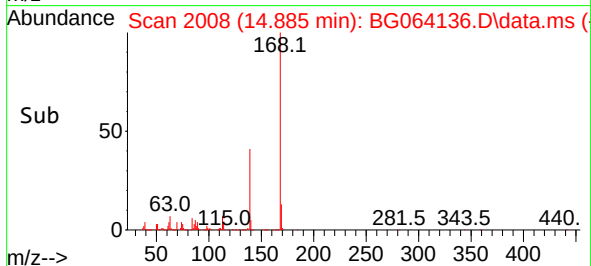
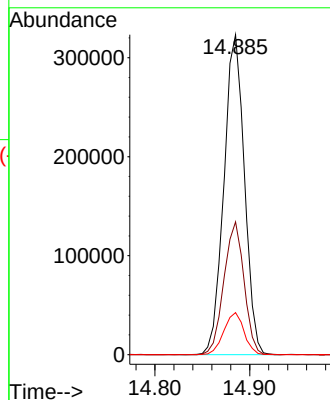
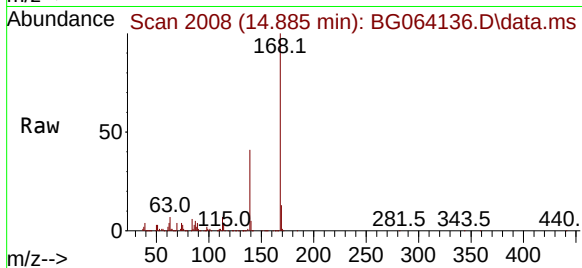
169 13.2 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#56

4-Nitrophenol

Concen: 40.041 ng

RT: 14.691 min Scan# 1975

Delta R.T. -0.001 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

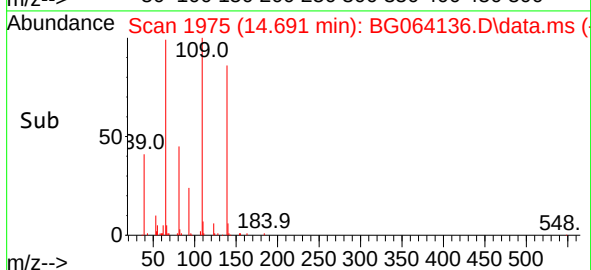
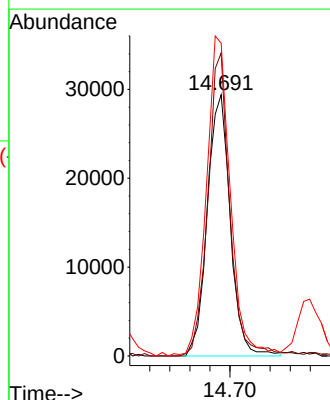
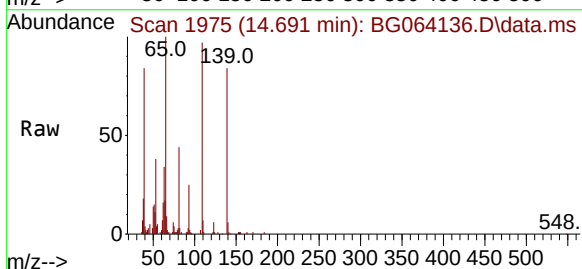
Tgt Ion:139 Resp: 46751

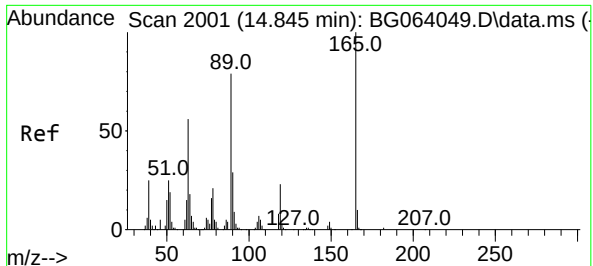
Ion Ratio Lower Upper

139 100

109 116.0 74.9 114.9#

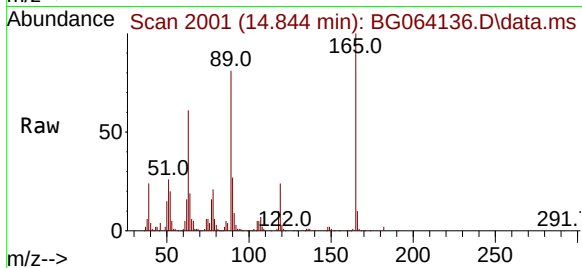
65 119.7 106.8 146.8





#57  
2,4-Dinitrotoluene  
Concen: 62.667 ng  
RT: 14.844 min Scan# 2001  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

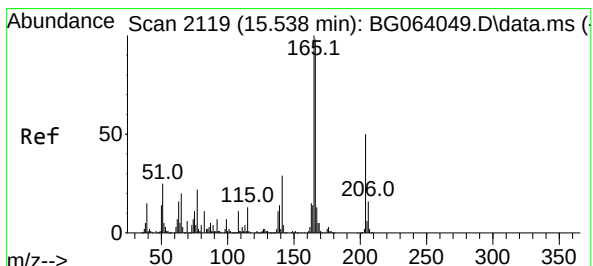
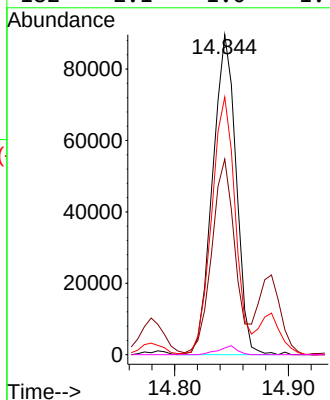
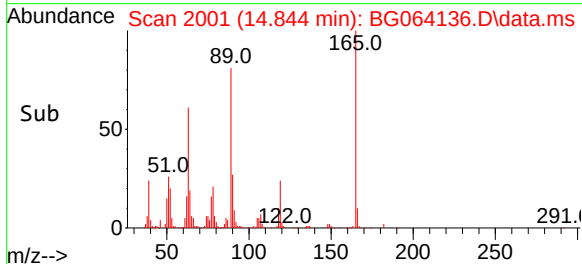
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:165 Resp: 12879  
Ion Ratio Lower Upper  
165 100  
63 61.1 45.0 67.6  
89 80.5 63.1 94.7  
182 2.1 1.0 1.4#

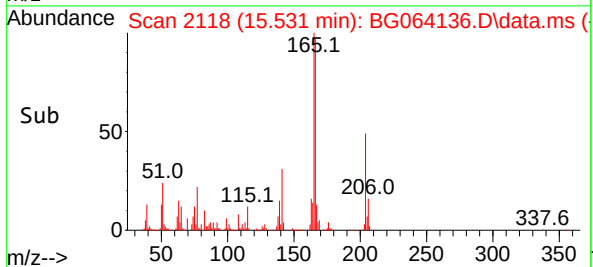
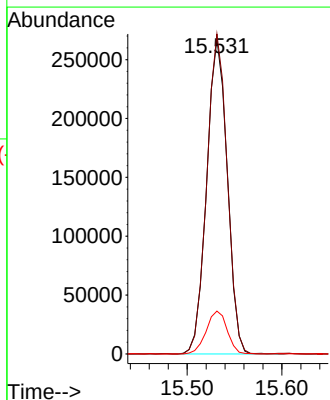
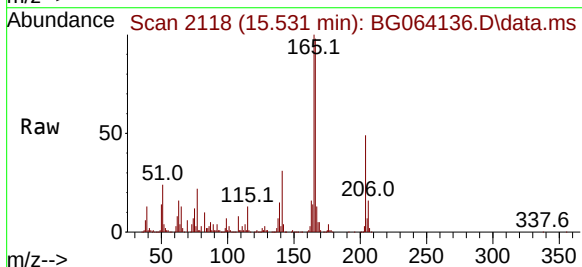
Manual Integrations  
APPROVED

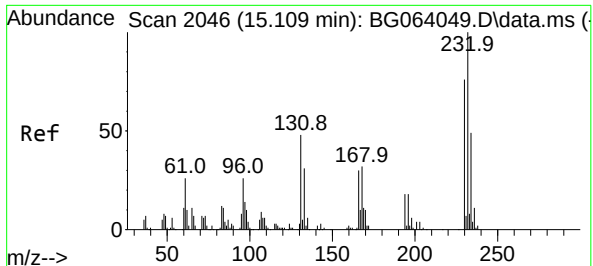
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#58  
Fluorene  
Concen: 56.077 ng  
RT: 15.531 min Scan# 2118  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

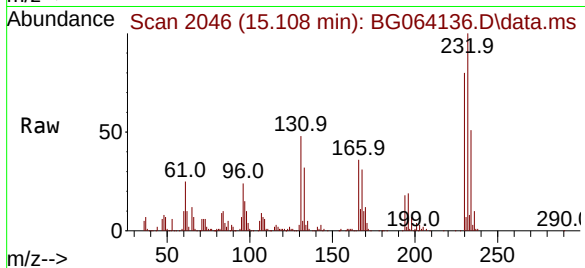
Tgt Ion:166 Resp: 403841  
Ion Ratio Lower Upper  
166 100  
165 101.7 81.8 122.8  
167 13.6 10.8 16.2





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 64.466 ng  
RT: 15.108 min Scan# 2046  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

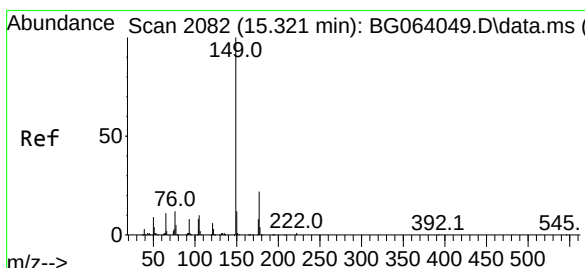
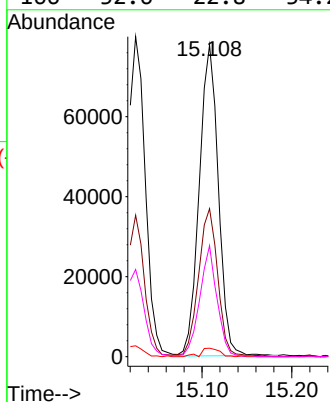
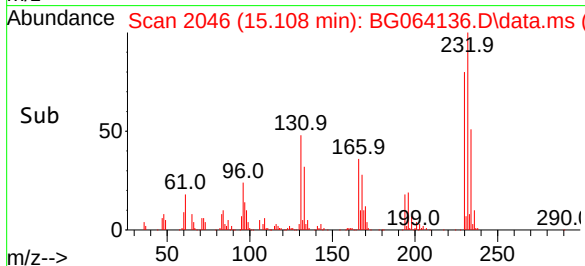
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:232 Resp: 114658  
Ion Ratio Lower Upper  
232 100  
131 48.4 36.3 54.5  
130 2.7 1.9 2.9  
166 32.6 22.8 34.2

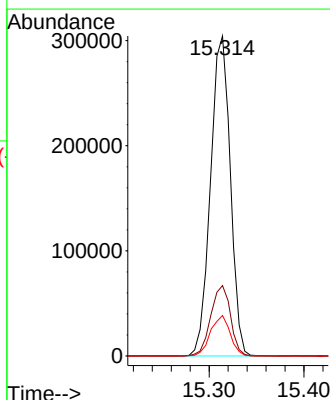
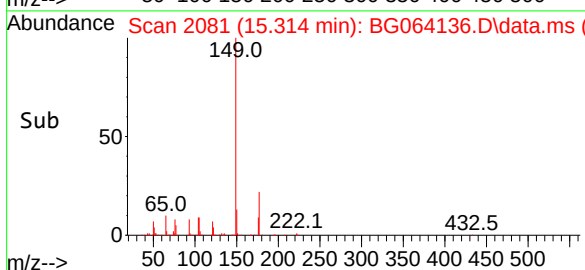
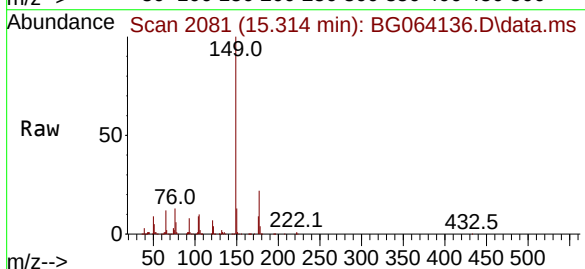
Manual Integrations  
APPROVED

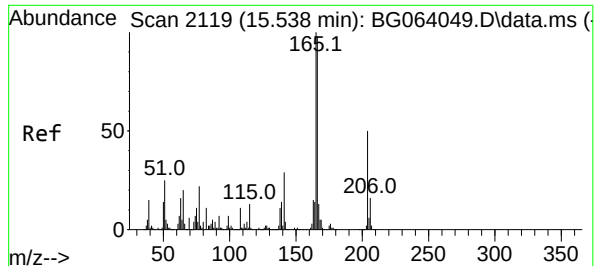
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#60  
Diethylphthalate  
Concen: 56.347 ng  
RT: 15.314 min Scan# 2081  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

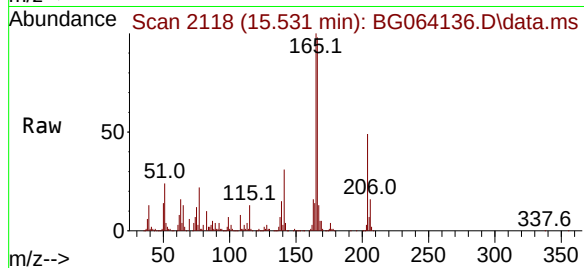
Tgt Ion:149 Resp: 440628  
Ion Ratio Lower Upper  
149 100  
177 22.0 17.4 26.2  
150 12.7 9.4 14.2





#61  
4-Chlorophenyl-phenylether  
Concen: 54.171 ng  
RT: 15.531 min Scan# 2118  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

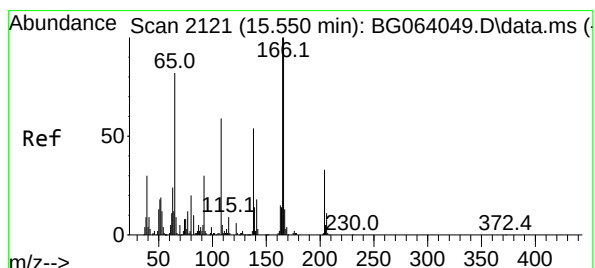
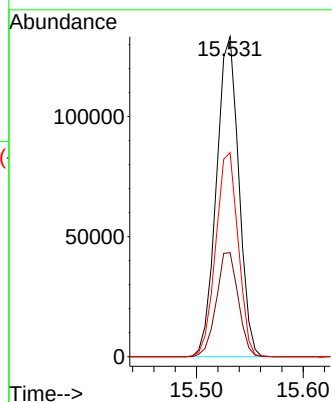
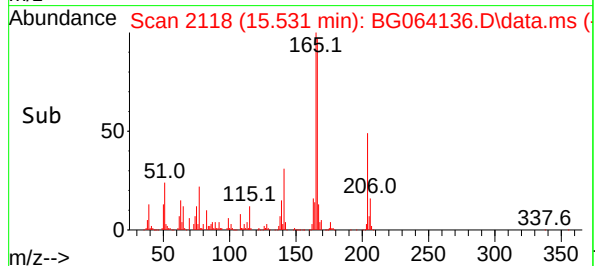
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



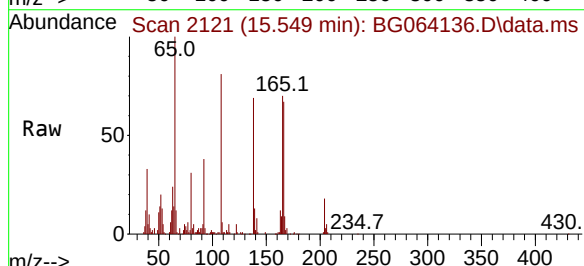
Tgt Ion:204 Resp: 19386  
Ion Ratio Lower Upper  
204 100  
206 32.5 25.5 38.3  
141 63.7 45.4 68.0

Manual Integrations  
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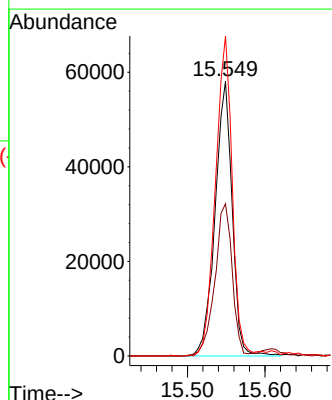
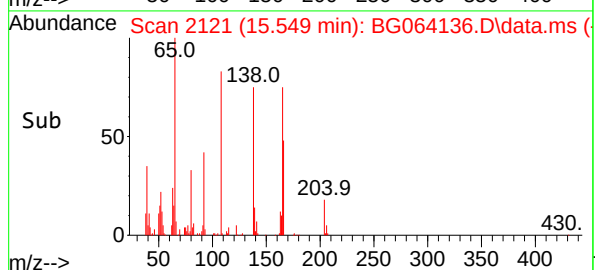
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



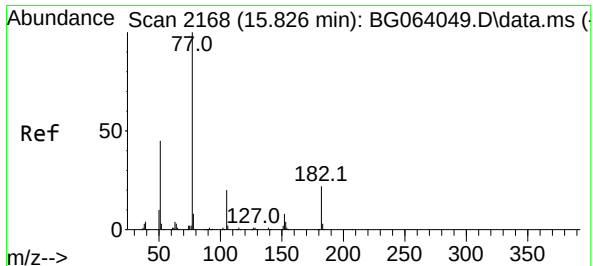
#62  
4-Nitroaniline  
Concen: 59.328 ng  
RT: 15.549 min Scan# 2121  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44



Tgt Ion:138 Resp: 89173  
Ion Ratio Lower Upper  
138 100  
92 55.4 36.1 76.1  
108 116.5 87.9 127.9

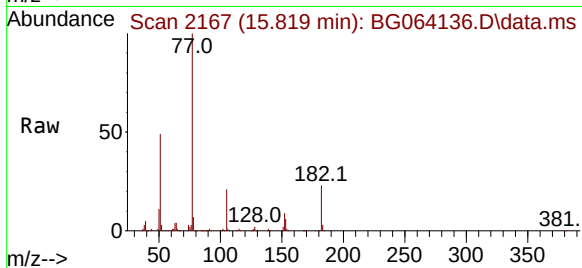






#63  
Azobenzene  
Concen: 54.036 ng  
RT: 15.819 min Scan# 2167  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

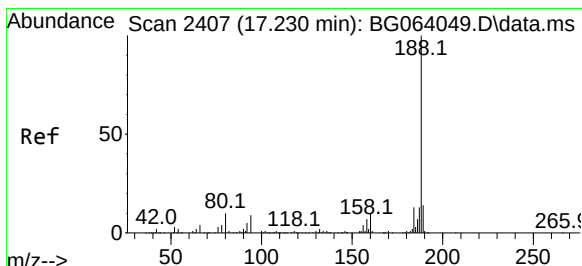
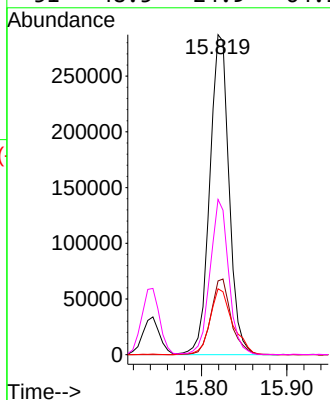
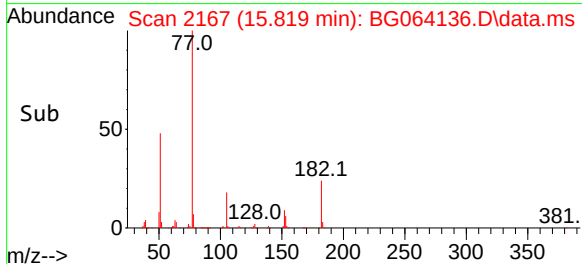
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



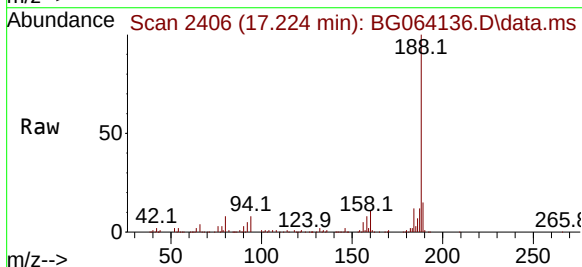
Tgt Ion: 77 Resp: 450900  
Ion Ratio Lower Upper  
77 100  
182 23.1 2.4 42.4  
105 20.6 0.0 40.0  
51 48.5 24.9 64.9

Manual Integrations  
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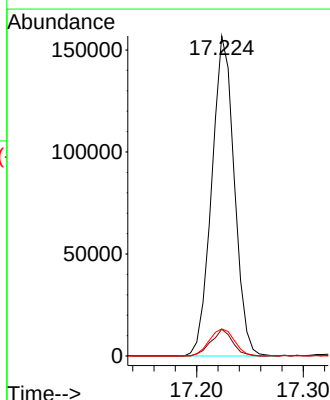
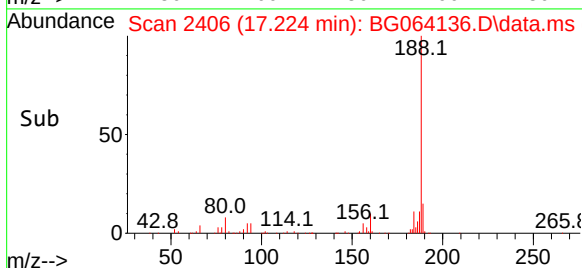
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

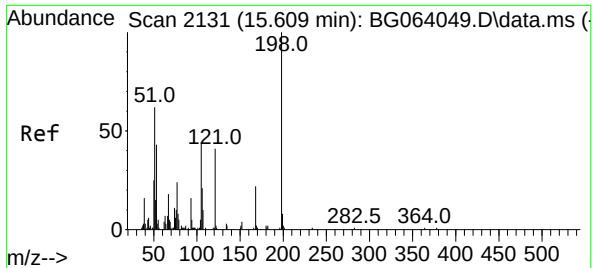


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.224 min Scan# 2406  
Delta R.T. -0.006 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44



Tgt Ion:188 Resp: 230185  
Ion Ratio Lower Upper  
188 100  
94 8.4 6.9 10.3  
80 8.5 8.1 12.1





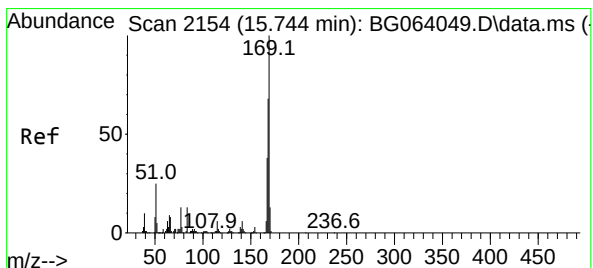
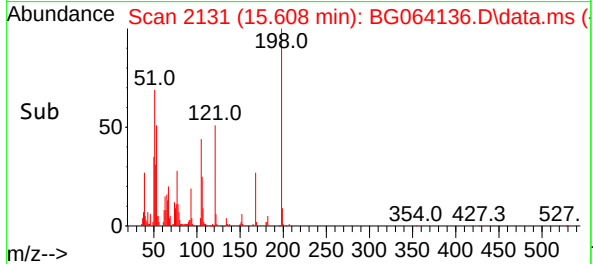
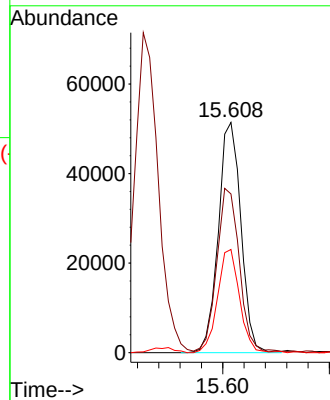
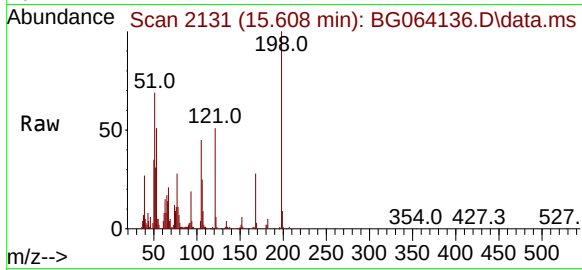
#65  
4,6-Dinitro-2-methylphenol  
Concen: 71.307 ng  
RT: 15.608 min Scan# 2131  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD

Tgt Ion:198 Resp: 75669  
Ion Ratio Lower Upper  
198 100  
51 69.0 45.6 85.6  
105 44.8 25.3 65.3

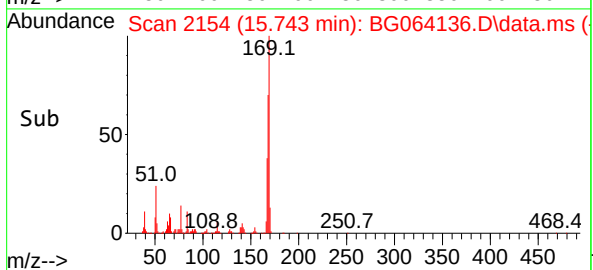
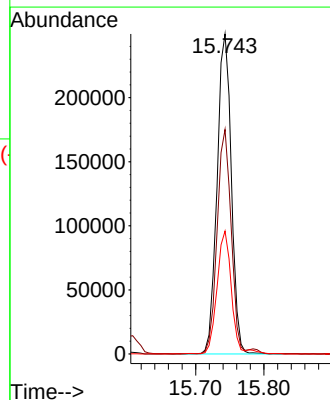
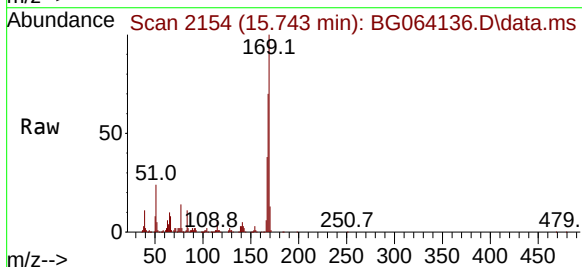
Manual Integrations  
APPROVED

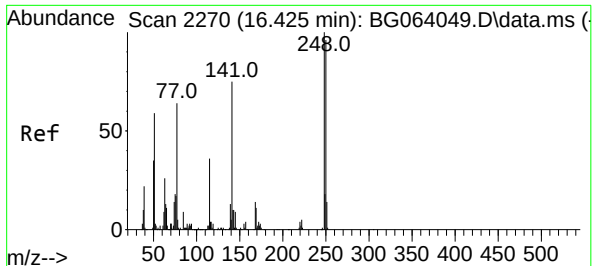
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#66  
n-Nitrosodiphenylamine  
Concen: 55.739 ng  
RT: 15.743 min Scan# 2154  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

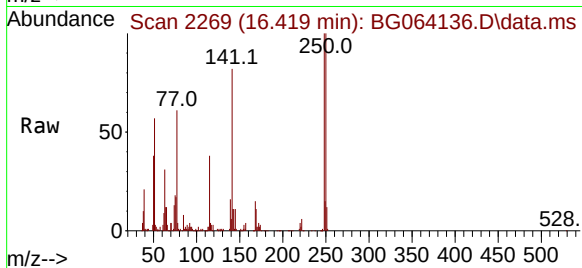
Tgt Ion:169 Resp: 363176  
Ion Ratio Lower Upper  
169 100  
168 70.1 54.1 81.1  
167 38.4 30.3 45.5





#67  
4-Bromophenyl-phenylether  
Concen: 57.329 ng  
RT: 16.419 min Scan# 2269  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

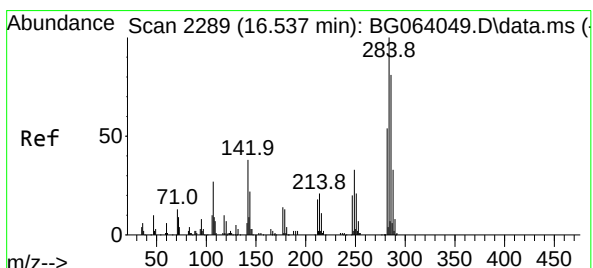
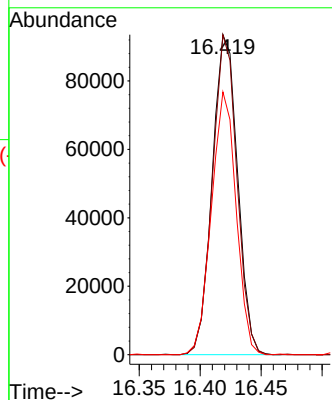
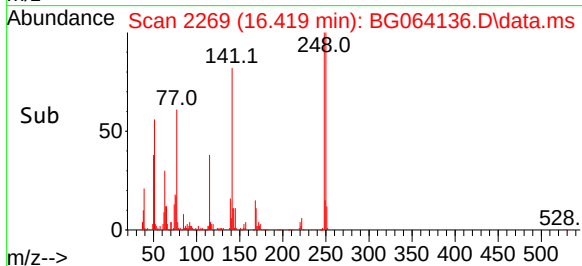
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:248 Resp: 135154  
Ion Ratio Lower Upper  
248 100  
250 99.9 77.1 115.7  
141 82.1 59.8 89.8

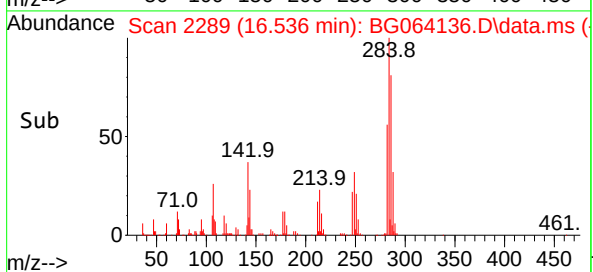
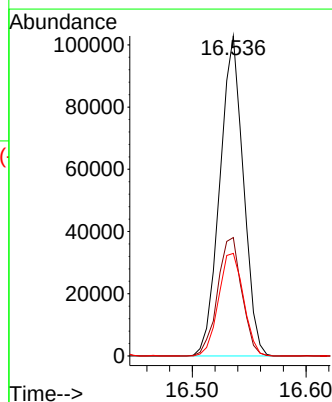
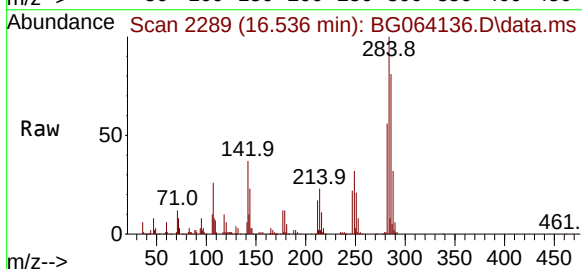
Manual Integrations  
APPROVED

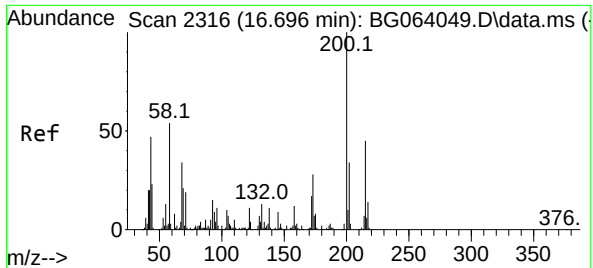
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#68  
Hexachlorobenzene  
Concen: 56.101 ng  
RT: 16.536 min Scan# 2289  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

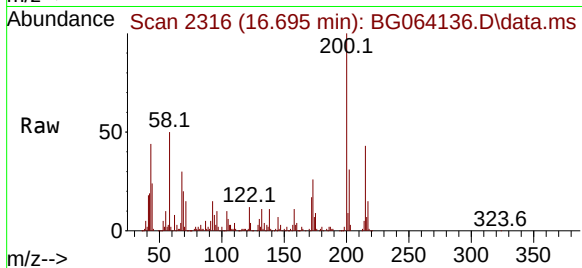
Tgt Ion:284 Resp: 148071  
Ion Ratio Lower Upper  
284 100  
142 37.0 30.6 45.8  
249 32.0 26.6 39.8





#69  
Atrazine  
Concen: 82.233 ng  
RT: 16.695 min Scan# 21  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

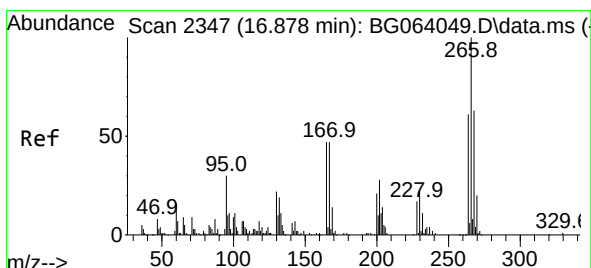
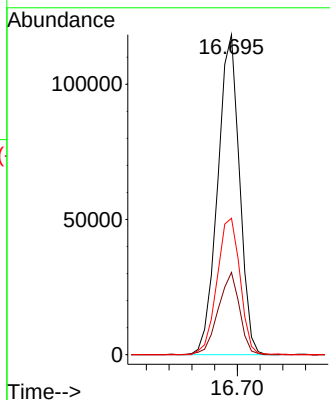
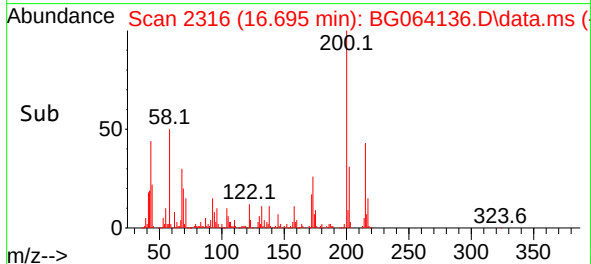
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



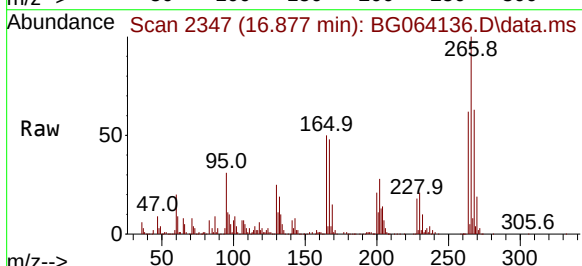
Tgt Ion:200 Resp: 157650  
Ion Ratio Lower Upper  
200 100  
173 25.7 8.2 48.2  
215 42.6 25.5 65.5

Manual Integrations  
APPROVED

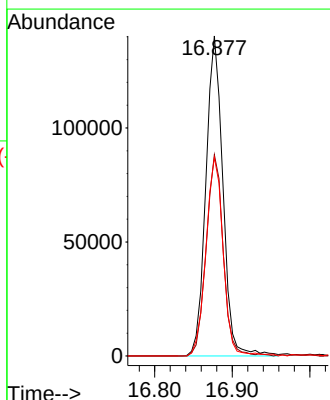
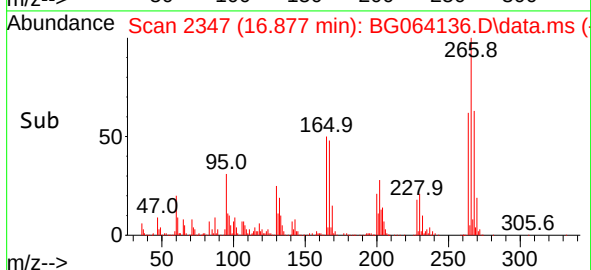
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

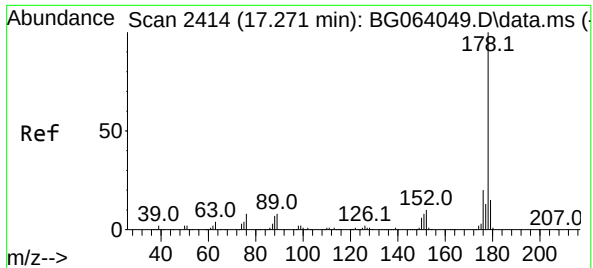


#70  
Pentachlorophenol  
Concen: 131.048 ng  
RT: 16.877 min Scan# 2347  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44



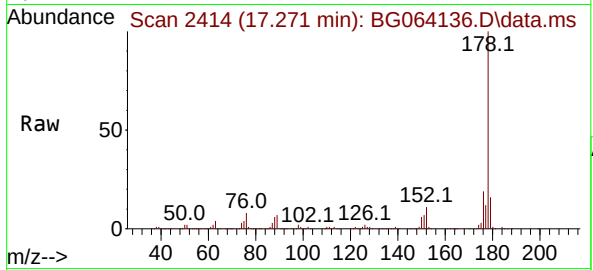
Tgt Ion:266 Resp: 214754  
Ion Ratio Lower Upper  
266 100  
268 62.9 50.2 75.4  
264 62.0 48.9 73.3





#71  
Phenanthrene  
Concen: 58.220 ng  
RT: 17.271 min Scan# 2414  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

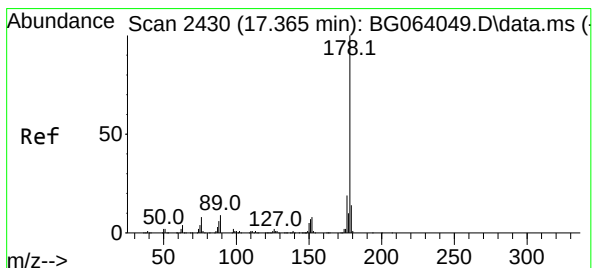
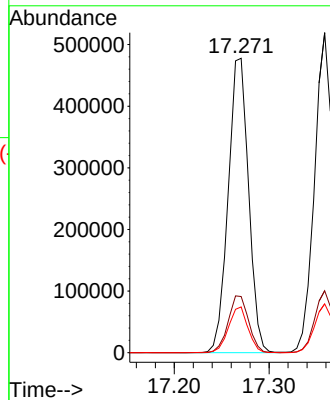
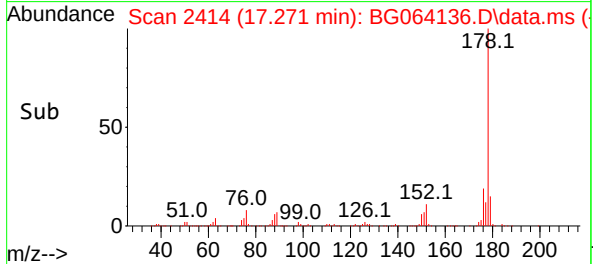
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:178 Resp: 714802  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.9 23.9  
179 15.5 12.2 18.2

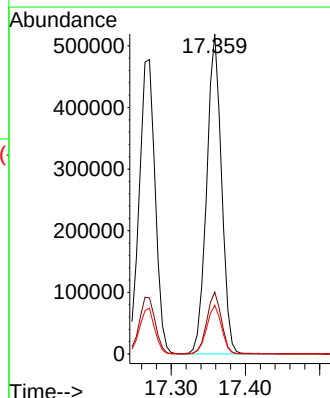
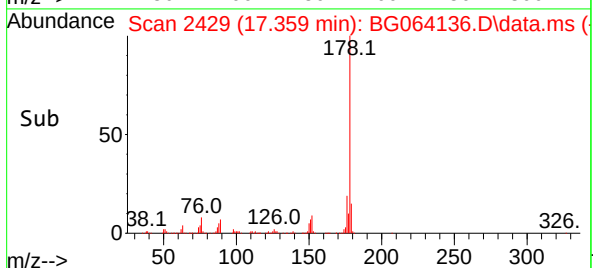
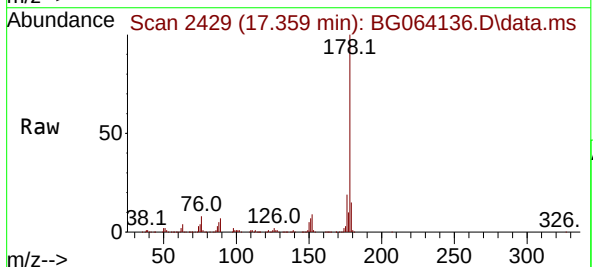
Manual Integrations  
**APPROVED**

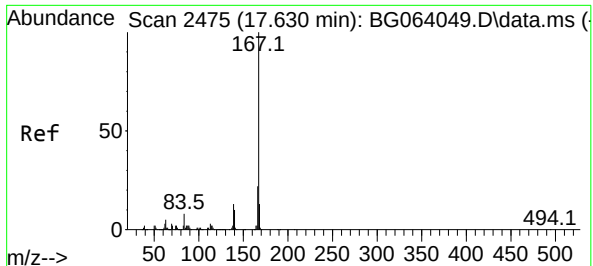
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#72  
Anthracene  
Concen: 59.111 ng  
RT: 17.359 min Scan# 2429  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

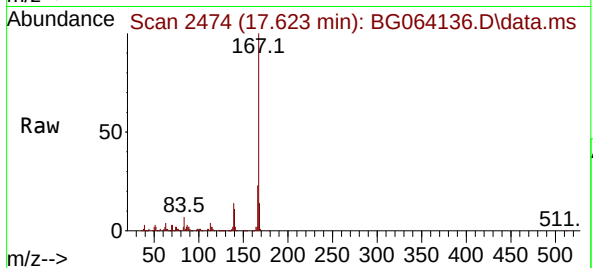
Tgt Ion:178 Resp: 721645  
Ion Ratio Lower Upper  
178 100  
176 19.4 14.8 22.2  
179 15.3 11.5 17.3





#73  
Carbazole  
Concen: 60.323 ng  
RT: 17.623 min Scan# 2475  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

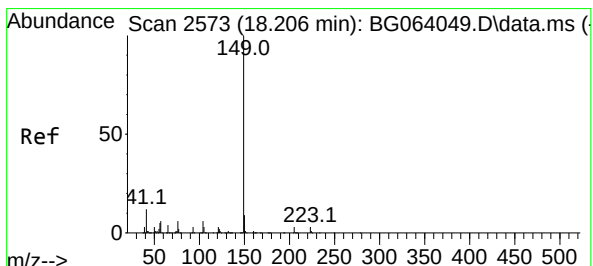
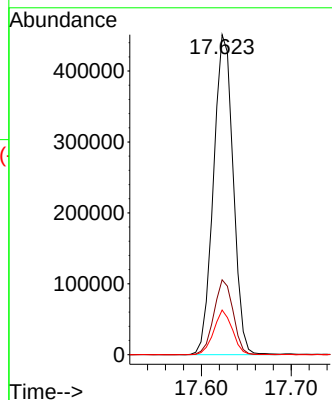
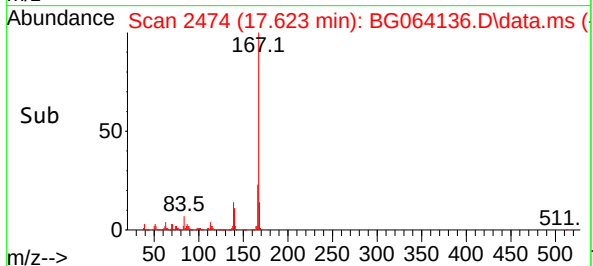
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:167 Resp: 68758  
Ion Ratio Lower Upper  
167 100  
166 23.4 18.0 27.0  
139 14.0 10.6 15.8

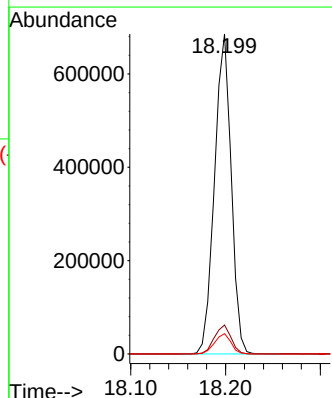
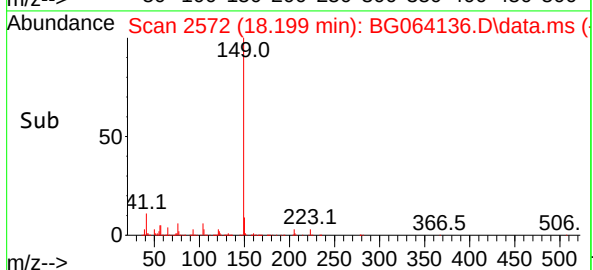
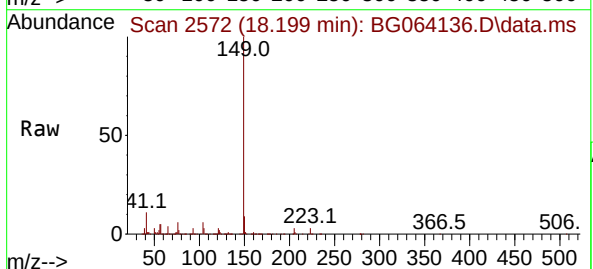
Manual Integrations  
APPROVED

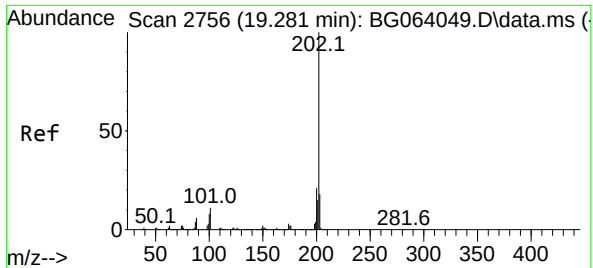
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#74  
Di-n-butylphthalate  
Concen: 62.339 ng  
RT: 18.199 min Scan# 2572  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

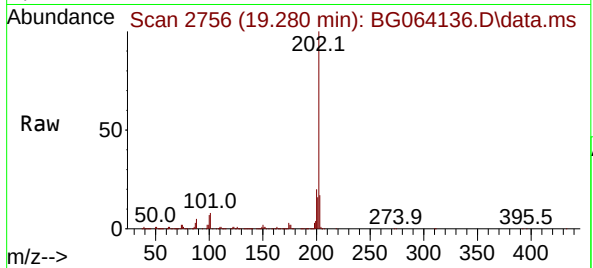
Tgt Ion:149 Resp: 836411  
Ion Ratio Lower Upper  
149 100  
150 9.0 7.4 11.0  
104 6.3 5.0 7.6





#75  
Fluoranthene  
Concen: 58.612 ng  
RT: 19.280 min Scan# 21  
Delta R.T. -0.001 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

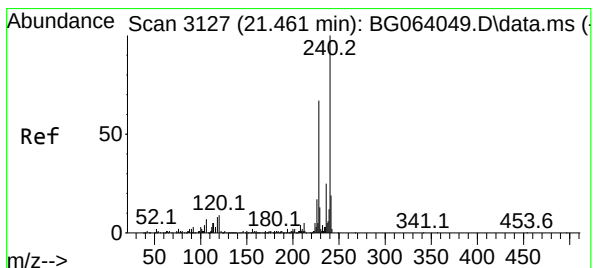
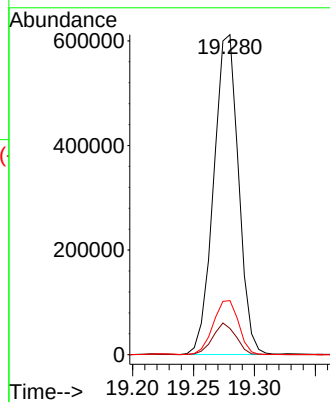
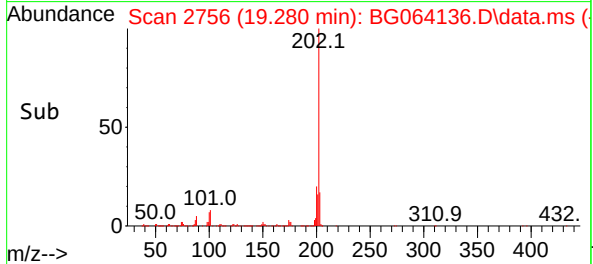
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:202 Resp: 867550  
Ion Ratio Lower Upper  
202 100  
101 8.2 0.0 30.5  
203 16.9 0.0 38.3

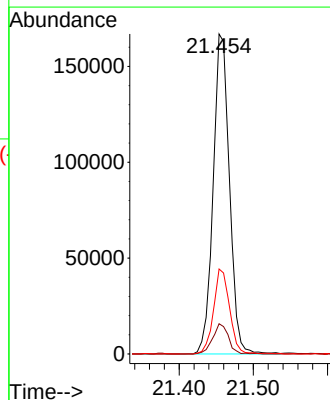
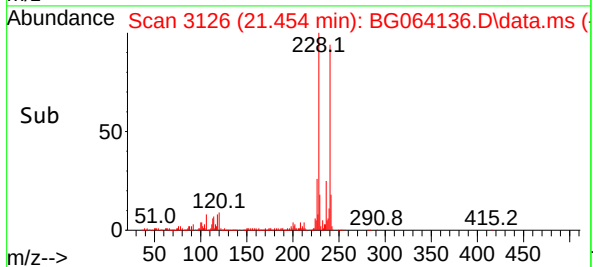
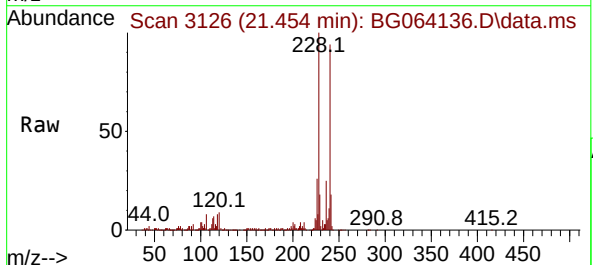
Manual Integrations  
**APPROVED**

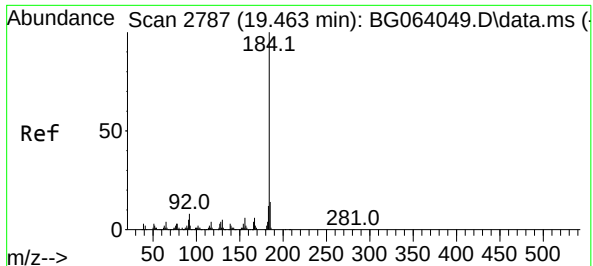
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.454 min Scan# 3126  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

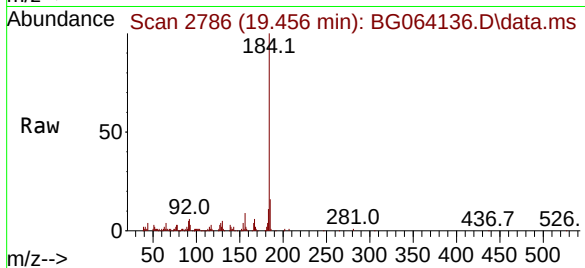
Tgt Ion:240 Resp: 254217  
Ion Ratio Lower Upper  
240 100  
120 9.5 7.2 10.8  
236 26.5 20.2 30.2





#77  
Benzidine  
Concen: 26.312 ng  
RT: 19.456 min Scan# 21  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

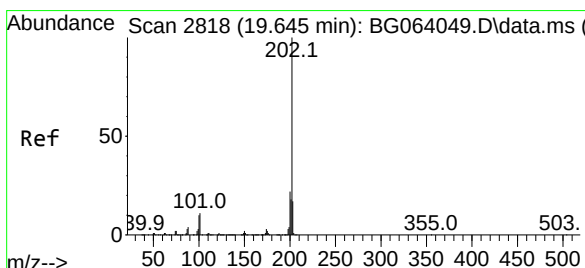
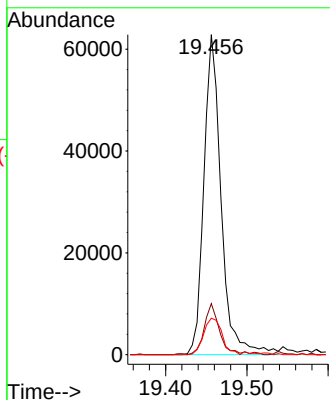
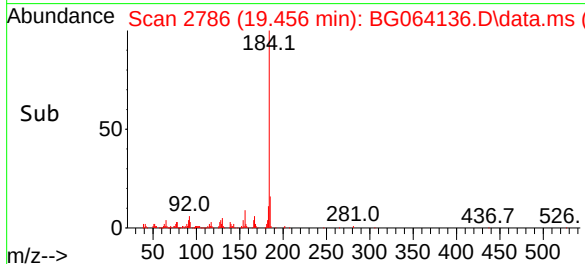
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:184 Resp: 92624  
Ion Ratio Lower Upper  
184 100  
185 16.0 11.3 16.9  
183 11.4 9.5 14.3

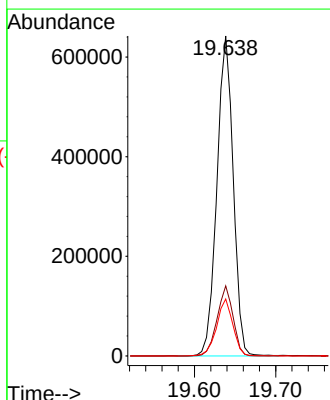
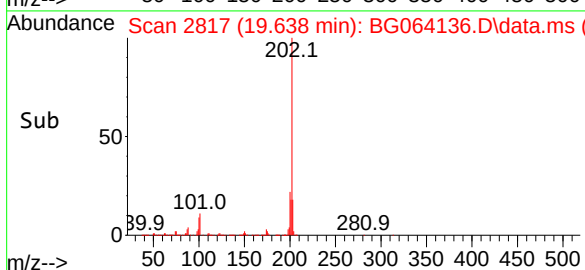
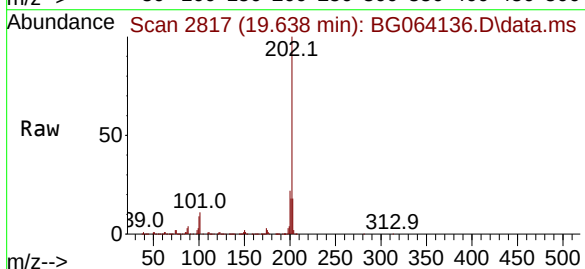
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025

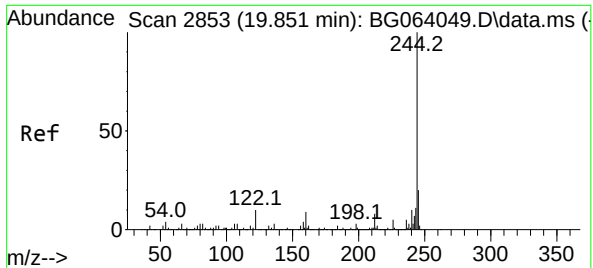


#78  
Pyrene  
Concen: 54.732 ng  
RT: 19.638 min Scan# 2817  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

Tgt Ion:202 Resp: 896907  
Ion Ratio Lower Upper  
202 100  
200 21.9 17.3 25.9  
203 17.8 13.6 20.4

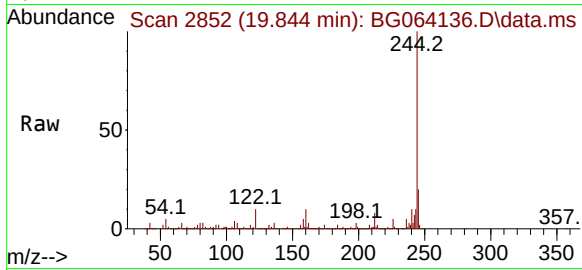






#79  
Terphenyl-d14  
Concen: 105.304 ng  
RT: 19.844 min Scan# 2853  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

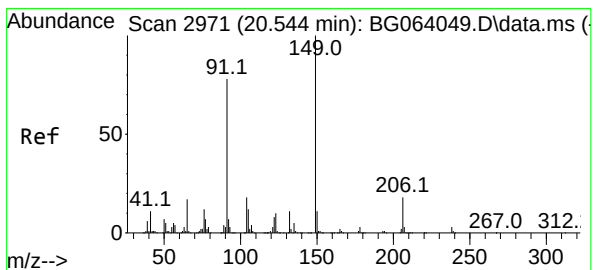
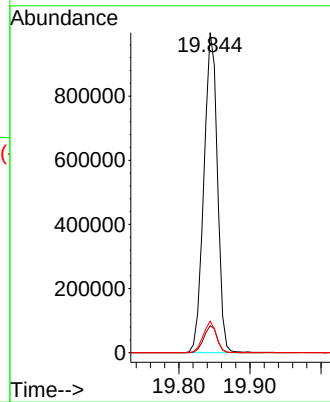
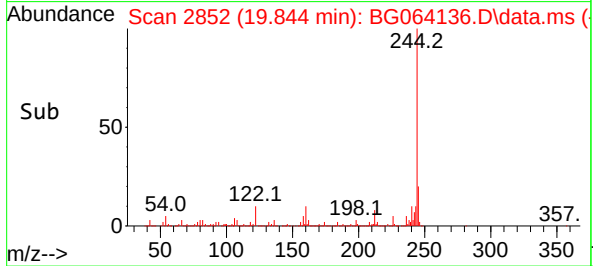
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:244 Resp: 132394  
Ion Ratio Lower Upper  
244 100  
212 8.4 6.2 9.4  
122 9.8 8.0 12.0

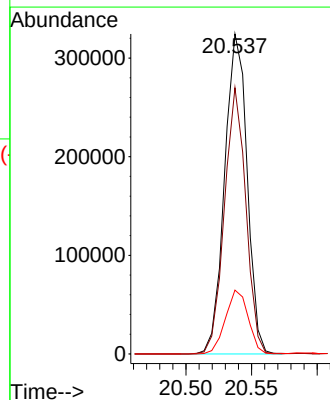
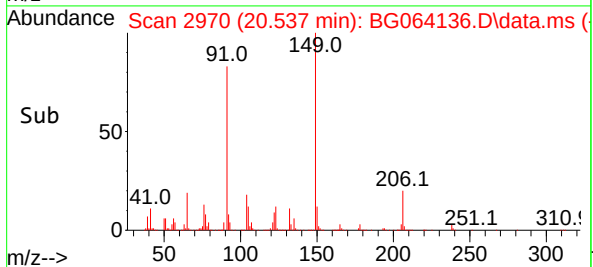
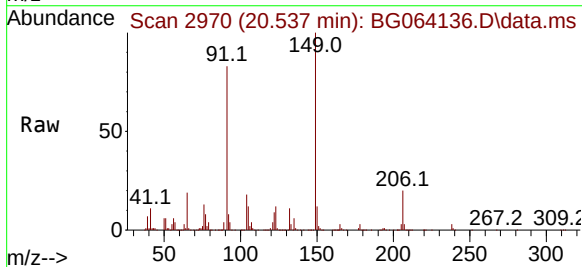
Manual Integrations  
APPROVED

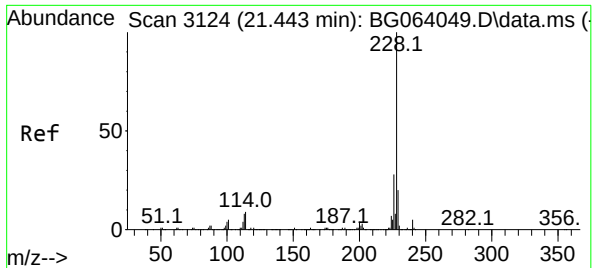
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#80  
Butylbenzylphthalate  
Concen: 61.723 ng  
RT: 20.537 min Scan# 2970  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

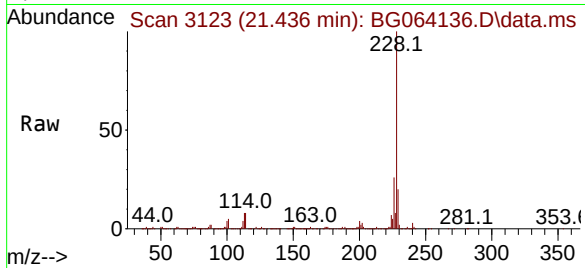
Tgt Ion:149 Resp: 386471  
Ion Ratio Lower Upper  
149 100  
91 83.2 62.0 93.0  
206 19.9 14.6 21.8





#81  
Benzo(a)anthracene  
Concen: 57.917 ng  
RT: 21.436 min Scan# 3110  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

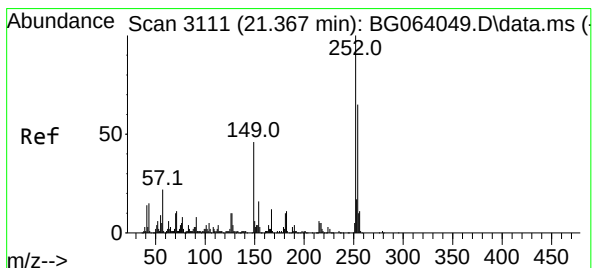
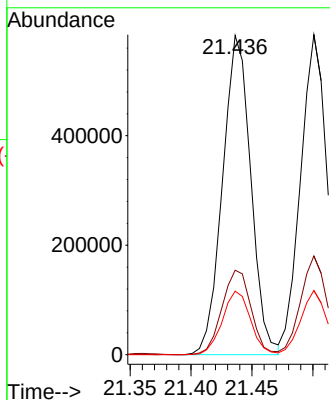
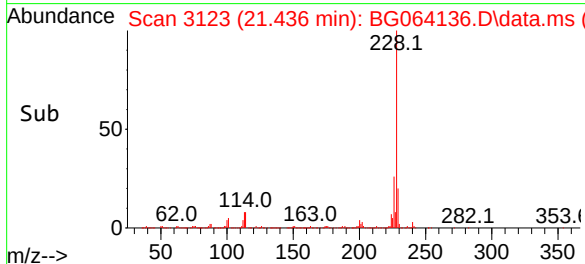
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:228 Resp: 943149  
Ion Ratio Lower Upper  
228 100  
226 26.5 22.2 33.2  
229 19.9 16.4 24.6

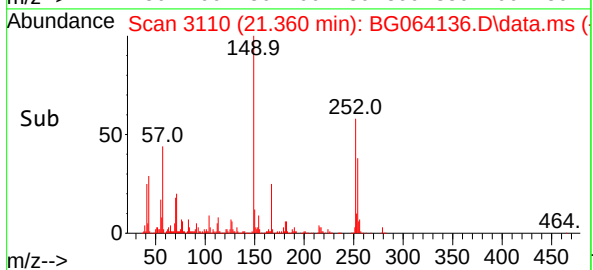
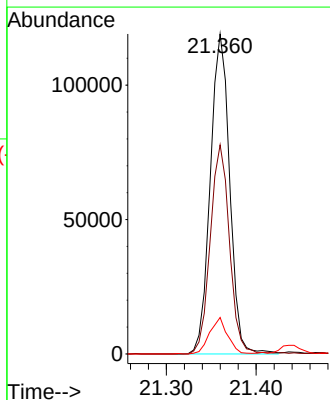
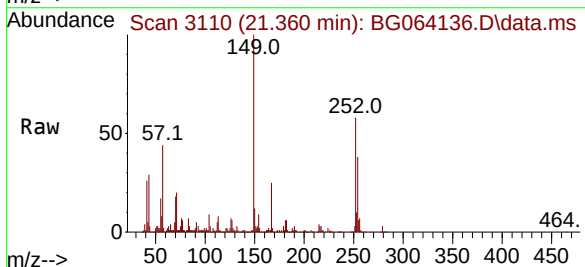
Manual Integrations  
APPROVED

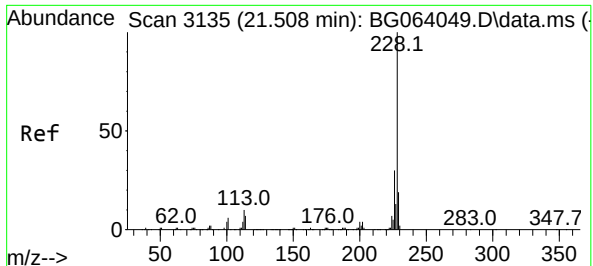
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#82  
3,3'-Dichlorobenzidine  
Concen: 33.828 ng  
RT: 21.360 min Scan# 3110  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

Tgt Ion:252 Resp: 178281  
Ion Ratio Lower Upper  
252 100  
254 65.4 52.1 78.1  
126 11.4 7.8 11.8





#83

Chrysene

Concen: 54.829 ng

RT: 21.501 min Scan# 31

Delta R.T. -0.007 min

Lab File: BG064136.D

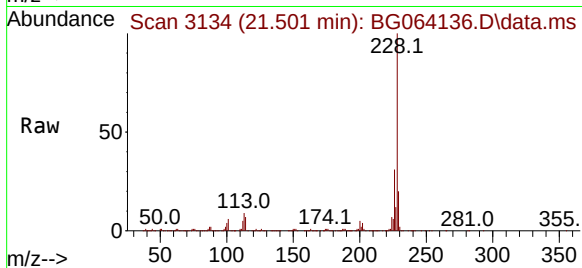
Acq: 1 Apr 2025 15:44

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-06MSD



Tgt Ion:228 Resp: 89050

Ion Ratio Lower Upper

228 100

226 30.8 23.9 35.9

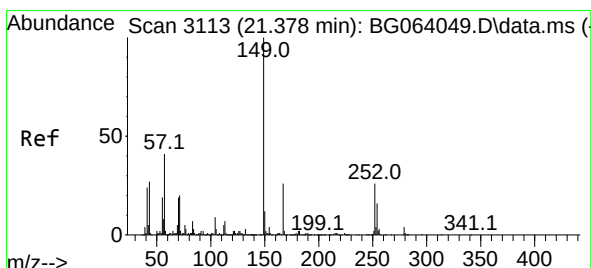
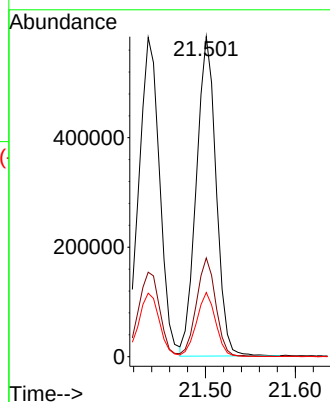
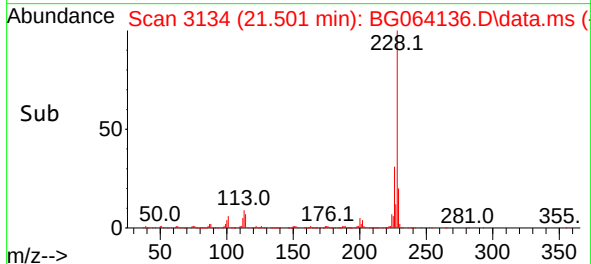
229 20.1 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 65.138 ng

RT: 21.372 min Scan# 3112

Delta R.T. -0.007 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

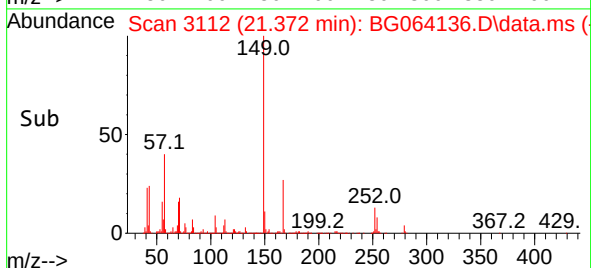
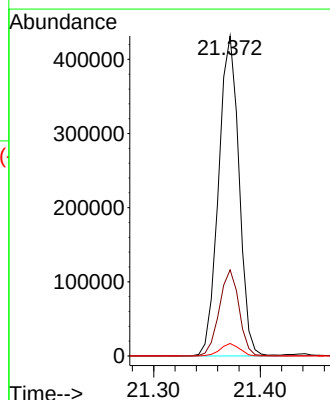
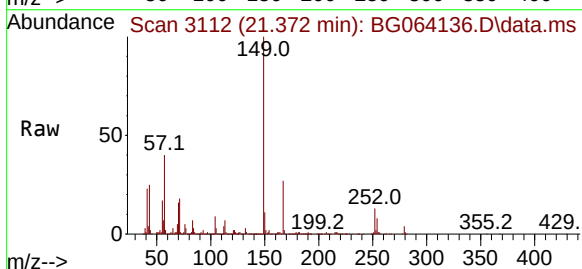
Tgt Ion:149 Resp: 573663

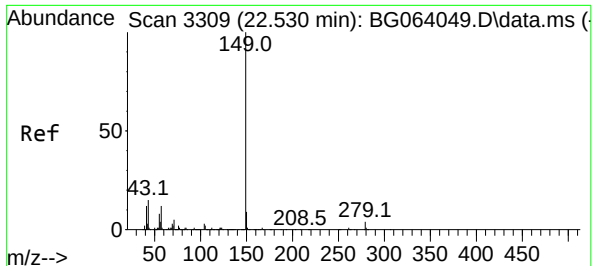
Ion Ratio Lower Upper

149 100

167 26.9 21.0 31.6

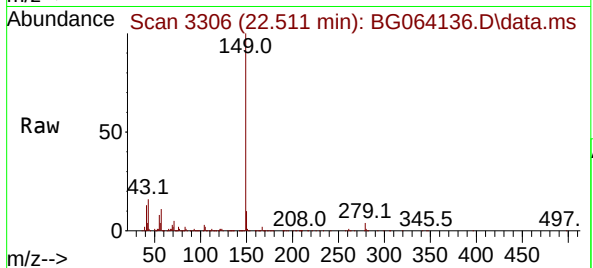
279 3.9 2.8 4.2





#85  
Di-n-octyl phthalate  
Concen: 65.521 ng  
RT: 22.511 min Scan# 311  
Delta R.T. -0.019 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

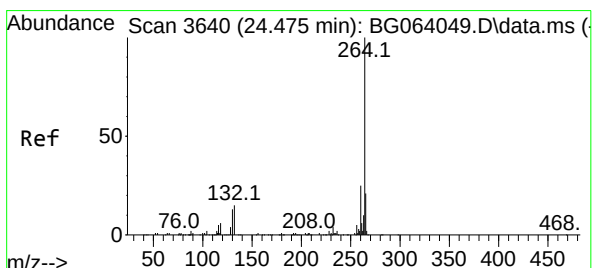
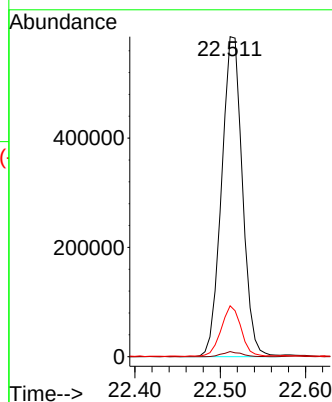
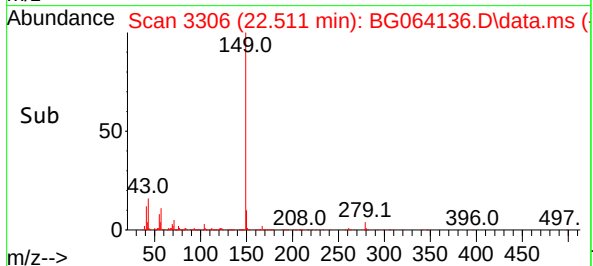
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:149 Resp: 995308  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.2 1.8  
43 15.1 12.6 19.0

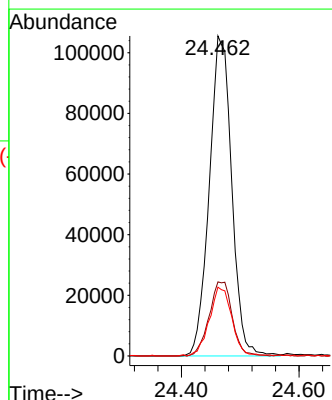
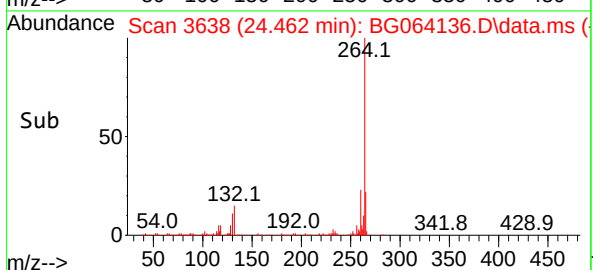
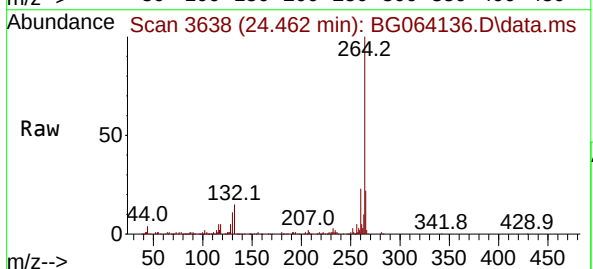
Manual Integrations  
APPROVED

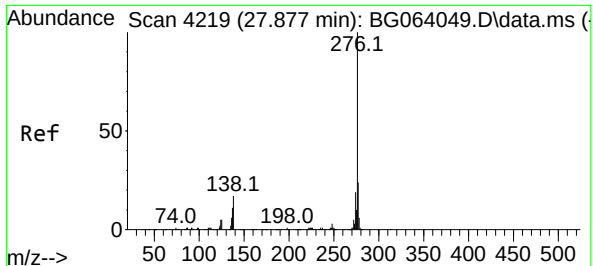
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.462 min Scan# 3638  
Delta R.T. -0.013 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

Tgt Ion:264 Resp: 279147  
Ion Ratio Lower Upper  
264 100  
260 23.1 19.6 29.4  
265 21.5 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 59.332 ng

RT: 27.870 min Scan# 4219

Delta R.T. -0.007 min

Lab File: BG064136.D

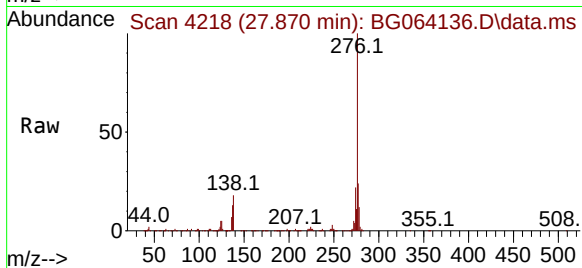
Acq: 1 Apr 2025 15:44

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-06MSD



Tgt Ion:276 Resp: 1108149

Ion Ratio Lower Upper

276 100

138 14.4 12.1 18.1

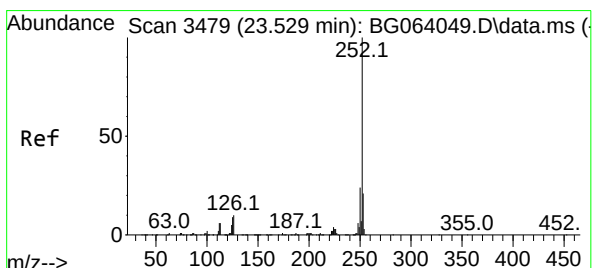
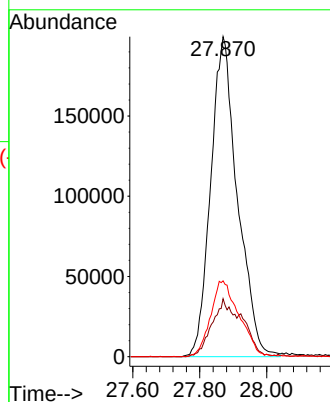
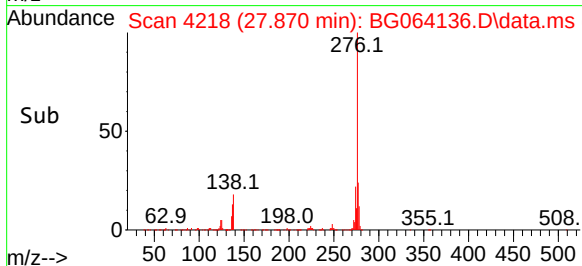
277 25.3 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#88

Benzo(b)fluoranthene

Concen: 54.663 ng

RT: 23.522 min Scan# 3478

Delta R.T. -0.007 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

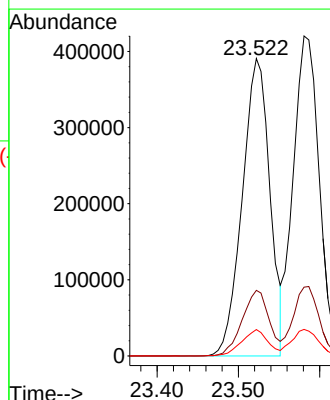
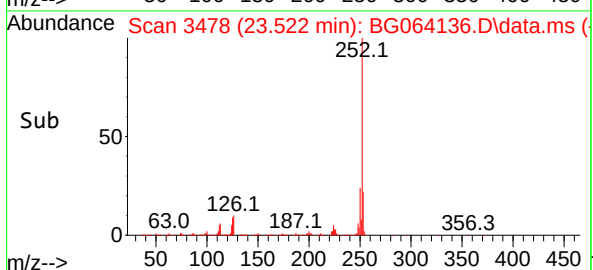
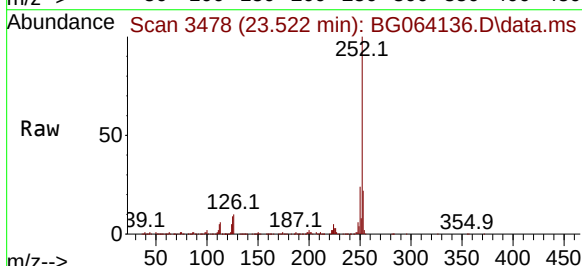
Tgt Ion:252 Resp: 922469

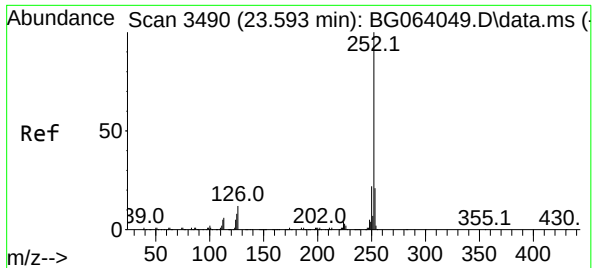
Ion Ratio Lower Upper

252 100

253 22.0 17.0 25.4

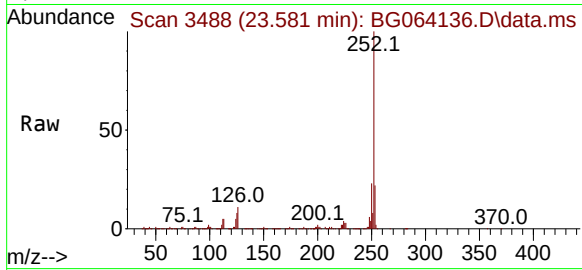
125 8.9 7.4 11.2





#89  
Benzo(k)fluoranthene  
Concen: 55.737 ng  
RT: 23.581 min Scan# 3490  
Delta R.T. -0.013 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

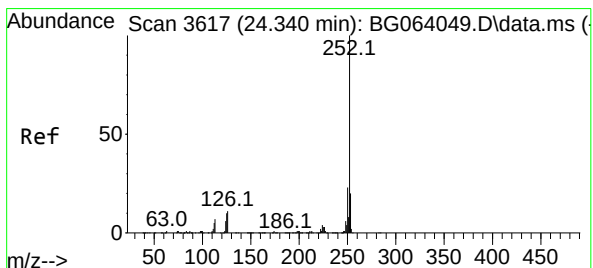
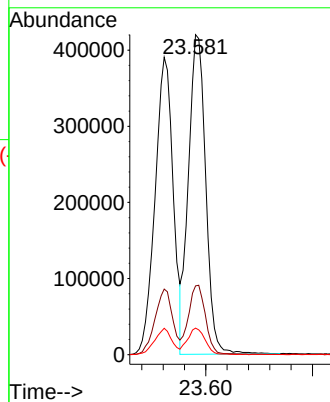
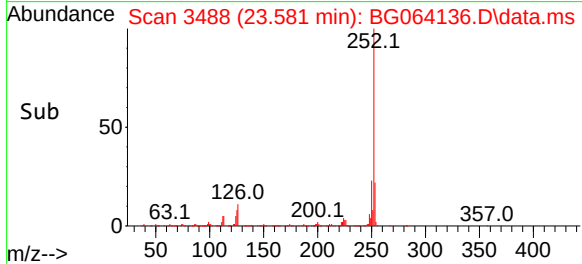
Instrument :  
BNA\_G  
ClientSampleId :  
P001-BBDGA-001-01-06MSD



Tgt Ion:252 Resp: 94359  
Ion Ratio Lower Upper  
252 100  
253 21.5 16.8 25.2  
125 8.3 6.9 10.3

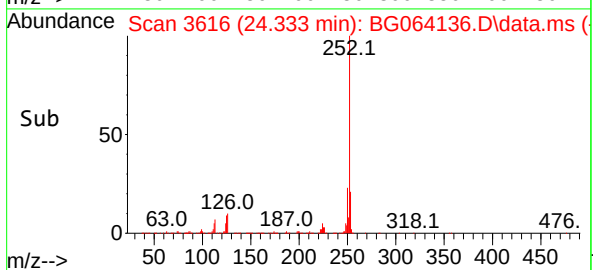
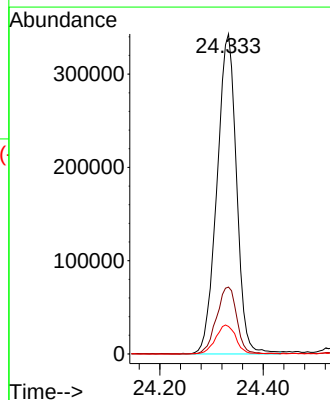
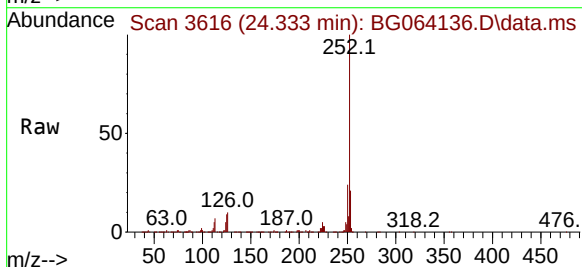
Manual Integrations  
APPROVED

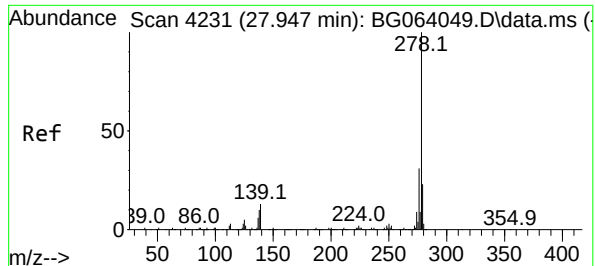
Reviewed By :Anahy Claudio 04/02/2025  
Supervised By :Jagrut Upadhyay 04/02/2025



#90  
Benzo(a)pyrene  
Concen: 59.877 ng  
RT: 24.333 min Scan# 3616  
Delta R.T. -0.007 min  
Lab File: BG064136.D  
Acq: 1 Apr 2025 15:44

Tgt Ion:252 Resp: 899894  
Ion Ratio Lower Upper  
252 100  
253 20.9 16.2 24.2  
125 8.6 7.8 11.6





#91

Dibenzo(a,h)anthracene

Concen: 58.952 ng

RT: 27.929 min Scan# 41

Delta R.T. -0.018 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

Instrument :

BNA\_G

ClientSampleId :

P001-BBDGA-001-01-06MSD

Tgt Ion:278 Resp: 91281

Ion Ratio Lower Upper

278 100

139 12.4 10.2 15.2

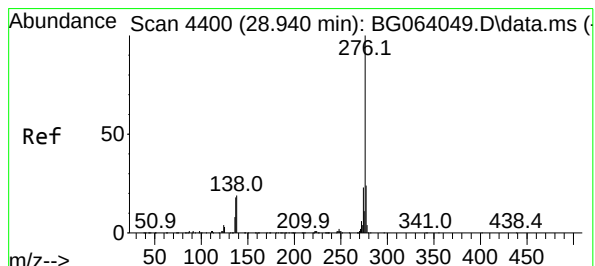
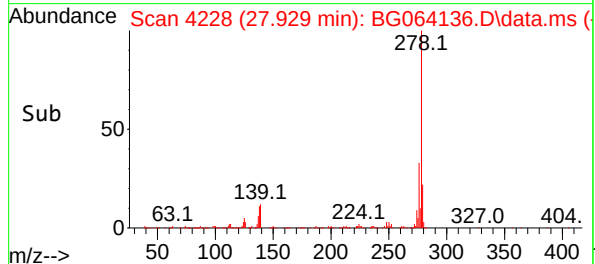
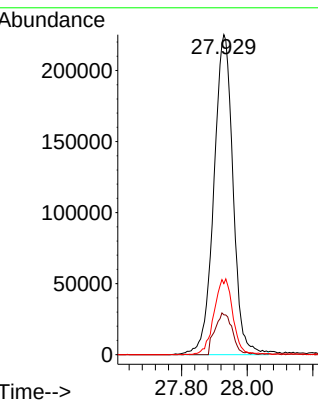
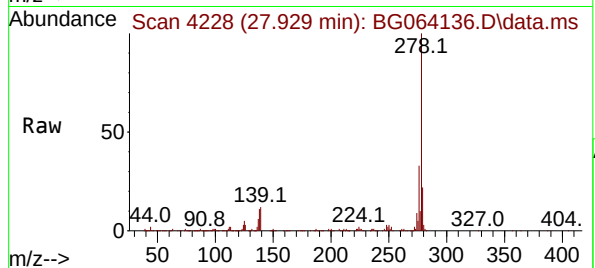
279 22.2 18.1 27.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 04/02/2025

Supervised By :Jagrut Upadhyay 04/02/2025



#92

Benzo(g,h,i)perylene

Concen: 56.274 ng

RT: 28.927 min Scan# 4398

Delta R.T. -0.013 min

Lab File: BG064136.D

Acq: 1 Apr 2025 15:44

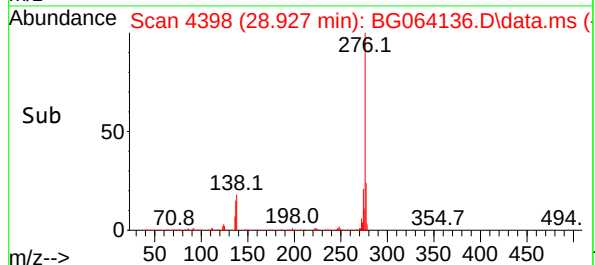
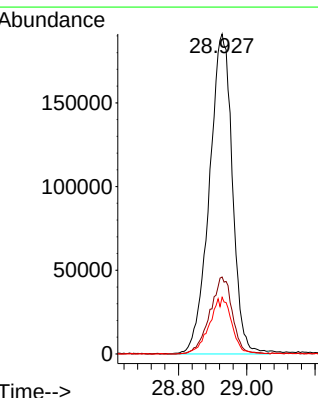
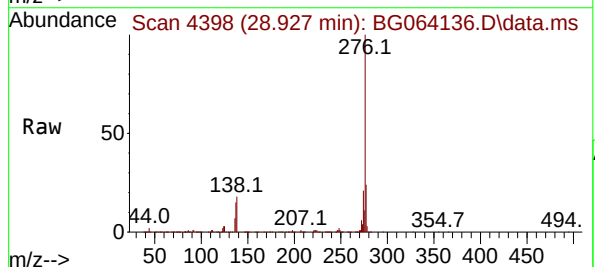
Tgt Ion:276 Resp: 894624

Ion Ratio Lower Upper

276 100

277 24.1 19.5 29.3

138 17.7 15.4 23.0



## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | bg030525 | Instrument | BNA_g |
|-----------|----------|------------|-------|

| Sample ID   | File ID    | Parameter             | Review By | Review On           | Supervised By | Supervised On       | Reason                      |
|-------------|------------|-----------------------|-----------|---------------------|---------------|---------------------|-----------------------------|
| SSTDICC005  | BG064046.D | 1,2-Dichlorobenzene   | Jagrut    | 3/6/2025 5:46:12 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICC005  | BG064046.D | 1,4-Dichlorobenzene   | Jagrut    | 3/6/2025 5:46:12 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICC005  | BG064046.D | 2,4,6-Trichlorophenol | Jagrut    | 3/6/2025 5:46:12 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICC005  | BG064046.D | Acenaphthene          | Jagrut    | 3/6/2025 5:46:12 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICC005  | BG064046.D | Benzidine             | Jagrut    | 3/6/2025 5:46:12 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICC010  | BG064047.D | Acenaphthene          | Jagrut    | 3/6/2025 5:46:22 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICC010  | BG064047.D | Benzaldehyde          | Jagrut    | 3/6/2025 5:46:22 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICC010  | BG064047.D | Benzidine             | Jagrut    | 3/6/2025 5:46:22 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICC010  | BG064047.D | Benzoic acid          | Jagrut    | 3/6/2025 5:46:22 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICC020  | BG064048.D | Acenaphthene          | Jagrut    | 3/6/2025 5:46:24 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICC020  | BG064048.D | Benzaldehyde          | Jagrut    | 3/6/2025 5:46:24 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICC020  | BG064048.D | Benzoic acid          | Jagrut    | 3/6/2025 5:46:24 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICCC040 | BG064049.D | Acenaphthene          | Jagrut    | 3/6/2025 5:46:27 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |



## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | bg030525 | Instrument | BNA_g |
|-----------|----------|------------|-------|

| Sample ID   | File ID    | Parameter    | Review By | Review On           | Supervised By | Supervised On       | Reason                      |
|-------------|------------|--------------|-----------|---------------------|---------------|---------------------|-----------------------------|
| SSTDICCC040 | BG064049.D | Benzoic acid | Jagrut    | 3/6/2025 5:46:27 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICCC050 | BG064050.D | Acenaphthene | Jagrut    | 3/6/2025 5:46:30 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICCC050 | BG064050.D | Benzoic acid | Jagrut    | 3/6/2025 5:46:30 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICCC060 | BG064051.D | Benzoic acid | Jagrut    | 3/6/2025 5:46:32 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICCC080 | BG064052.D | Benzoic acid | Jagrut    | 3/6/2025 5:46:36 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICV040  | BG064053.D | Acenaphthene | Jagrut    | 3/6/2025 5:46:42 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICV040  | BG064053.D | Benzaldehyde | Jagrut    | 3/6/2025 5:46:42 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |
| SSTDICV040  | BG064053.D | Benzoic acid | Jagrut    | 3/6/2025 5:46:42 PM | mohammad      | 3/7/2025 6:01:50 AM | Peak Integrated by Software |

## Manual Integration Report

Sequence:

bg040125

Instrument

BNA\_g

| Sample ID   | File ID    | Parameter                    | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|-------------|------------|------------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| SSTDCCC040  | BG064130.D | Acenaphthene                 | anahy     | 4/2/2025 10:04:54 AM | Jagrut        | 4/2/2025 10:55:16 AM | Peak Integrated by Software |
| SSTDCCC040  | BG064130.D | Benzoic acid                 | anahy     | 4/2/2025 10:04:54 AM | Jagrut        | 4/2/2025 10:55:16 AM | Peak Integrated by Software |
| Q1664-05MS  | BG064135.D | 2,2"-oxybis(1-Chloropropane) | anahy     | 4/2/2025 10:06:19 AM | Jagrut        | 4/2/2025 10:55:19 AM | Peak Integrated by Software |
| Q1664-05MS  | BG064135.D | Benzaldehyde                 | anahy     | 4/2/2025 10:06:19 AM | Jagrut        | 4/2/2025 10:55:19 AM | Peak Integrated by Software |
| Q1664-05MS  | BG064135.D | Benzoic acid                 | anahy     | 4/2/2025 10:06:19 AM | Jagrut        | 4/2/2025 10:55:19 AM | Peak Integrated by Software |
| Q1664-05MS  | BG064135.D | Caprolactam                  | anahy     | 4/2/2025 10:06:19 AM | Jagrut        | 4/2/2025 10:55:19 AM | Peak Integrated by Software |
| Q1664-06MSD | BG064136.D | 2,2"-oxybis(1-Chloropropane) | anahy     | 4/2/2025 10:07:14 AM | Jagrut        | 4/2/2025 10:55:22 AM | Peak Integrated by Software |
| Q1664-06MSD | BG064136.D | Benzoic acid                 | anahy     | 4/2/2025 10:07:14 AM | Jagrut        | 4/2/2025 10:55:22 AM | Peak Integrated by Software |
| Q1664-06MSD | BG064136.D | Caprolactam                  | anahy     | 4/2/2025 10:07:14 AM | Jagrut        | 4/2/2025 10:55:22 AM | Peak Integrated by Software |

## Manual Integration Report

Sequence:

BG040325

Instrument

BNA\_g

| Sample ID  | File ID    | Parameter                     | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|------------|------------|-------------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| SSTDCCC040 | BG064164.D | Benzoic acid                  | anahy     | 4/4/2025 10:53:43 AM | Jagrut        | 4/4/2025 11:51:59 AM | Peak Integrated by Software |
| PB167393BS | BG064173.D | Benzoic acid                  | Rahul     | 4/4/2025 11:47:15 AM | Jagrut        | 4/4/2025 11:52:13 AM | Peak Integrated by Software |
| PB167393BS | BG064173.D | Caprolactam                   | Rahul     | 4/4/2025 11:47:15 AM | Jagrut        | 4/4/2025 11:52:13 AM | Peak Integrated by Software |
| SSTDCCC040 | BG064180.D | 2,3,4,6-Tetrachlorophen<br>ol | Rahul     | 4/4/2025 11:47:25 AM | Jagrut        | 4/4/2025 11:52:22 AM | Peak Integrated by Software |
| SSTDCCC040 | BG064180.D | Benzoic acid                  | Rahul     | 4/4/2025 11:47:25 AM | Jagrut        | 4/4/2025 11:52:22 AM | Peak Integrated by Software |

Instrument ID: **BNA\_G**

**Daily Analysis Runlog For Sequence/QC Batch ID # BG030525**

|                          |          |                                                         |                     |                      |          |
|--------------------------|----------|---------------------------------------------------------|---------------------|----------------------|----------|
| Review By                | Jagrut   | Review On                                               | 3/6/2025 5:46:57 PM |                      |          |
| Supervise By             | mohammad | Supervise On                                            | 3/7/2025 6:01:50 AM |                      |          |
| SubDirectory             | BG030525 | HP Acquire Method                                       | BNA_G               | HP Processing Method | bg030525 |
| STD. NAME                |          | STD REF.#                                               |                     |                      |          |
| Tune/Reschk              |          | SP6717                                                  |                     |                      |          |
| Initial Calibration Stds |          | SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729 |                     |                      |          |
| CCC                      |          | SP6725                                                  |                     |                      |          |
| Internal Standard/PEM    |          | S12653,10ul/1000ul sample                               |                     |                      |          |
| ICV/I.BLK                |          | SP6686                                                  |                     |                      |          |
| Surrogate Standard       |          |                                                         |                     |                      |          |
| MS/MSD Standard          |          |                                                         |                     |                      |          |
| LCS Standard             |          |                                                         |                     |                      |          |

| Sr# | SampleId    | Data File Name | Date-Time        | Operator | Status |
|-----|-------------|----------------|------------------|----------|--------|
| 1   | DFTPP       | BG064044.D     | 5 Mar 2025 8:15  | RC/JU    | Ok     |
| 2   | SSTDICC2.5  | BG064045.D     | 5 Mar 2025 9:02  | RC/JU    | Ok     |
| 3   | SSTDICC005  | BG064046.D     | 5 Mar 2025 9:42  | RC/JU    | Ok,M   |
| 4   | SSTDICC010  | BG064047.D     | 5 Mar 2025 10:22 | RC/JU    | Ok,M   |
| 5   | SSTDICC020  | BG064048.D     | 5 Mar 2025 11:03 | RC/JU    | Ok,M   |
| 6   | SSTDICCC040 | BG064049.D     | 5 Mar 2025 11:43 | RC/JU    | Ok,M   |
| 7   | SSTDICC050  | BG064050.D     | 5 Mar 2025 12:23 | RC/JU    | Ok,M   |
| 8   | SSTDICC060  | BG064051.D     | 5 Mar 2025 13:04 | RC/JU    | Ok,M   |
| 9   | SSTDICC080  | BG064052.D     | 5 Mar 2025 13:44 | RC/JU    | Ok,M   |
| 10  | SSTDICV040  | BG064053.D     | 5 Mar 2025 15:10 | RC/JU    | Ok,M   |
| 11  | PB166970BL  | BG064054.D     | 5 Mar 2025 15:50 | RC/JU    | Ok     |

M : Manual Integration

Instrument ID: **BNA\_G**

**Daily Analysis Runlog For Sequence/QC Batch ID # BG040125**

|                          |                                                         |                      |                      |
|--------------------------|---------------------------------------------------------|----------------------|----------------------|
| Review By                | anahy                                                   | Review On            | 4/2/2025 10:09:51 AM |
| Supervise By             | Jagrut                                                  | Supervise On         | 4/2/2025 10:55:40 AM |
| SubDirectory             | BG040125                                                | HP Acquire Method    | BNA_G                |
|                          |                                                         | HP Processing Method | bg030525             |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                        |                      |                      |
| Tune/Reschk              | SP6757                                                  |                      |                      |
| Initial Calibration Stds | SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729 |                      |                      |
| CCC                      | SP6725                                                  |                      |                      |
| Internal Standard/PEM    | S12657,10ul/1000ul sample                               |                      |                      |
| ICV/I.BLK                | SP6686                                                  |                      |                      |
| Surrogate Standard       |                                                         |                      |                      |
| MS/MSD Standard          |                                                         |                      |                      |
| LCS Standard             |                                                         |                      |                      |

| Sr# | SampleId    | Data File Name | Date-Time        | Operator | Status |
|-----|-------------|----------------|------------------|----------|--------|
| 1   | DFTPP       | BG064129.D     | 1 Apr 2025 10:13 | RC/JU    | Ok     |
| 2   | SSTDCCC040  | BG064130.D     | 1 Apr 2025 11:38 | RC/JU    | Ok,M   |
| 3   | PB167373TB  | BG064131.D     | 1 Apr 2025 12:19 | RC/JU    | Ok     |
| 4   | Q1666-01    | BG064132.D     | 1 Apr 2025 13:02 | RC/JU    | Ok     |
| 5   | Q1672-01    | BG064133.D     | 1 Apr 2025 13:43 | RC/JU    | Ok     |
| 6   | Q1664-04    | BG064134.D     | 1 Apr 2025 14:23 | RC/JU    | Ok     |
| 7   | Q1664-05MS  | BG064135.D     | 1 Apr 2025 15:03 | RC/JU    | Ok,M   |
| 8   | Q1664-06MSD | BG064136.D     | 1 Apr 2025 15:44 | RC/JU    | Ok,M   |
| 9   | Q1664-08    | BG064137.D     | 1 Apr 2025 16:24 | RC/JU    | Ok     |
| 10  | Q1664-10    | BG064138.D     | 1 Apr 2025 17:04 | RC/JU    | Ok     |
| 11  | Q1664-12    | BG064139.D     | 1 Apr 2025 17:45 | RC/JU    | Ok     |
| 12  | Q1664-14    | BG064140.D     | 1 Apr 2025 18:25 | RC/JU    | Ok     |
| 13  | Q1664-16    | BG064141.D     | 1 Apr 2025 19:05 | RC/JU    | Ok     |
| 14  | Q1664-18    | BG064142.D     | 1 Apr 2025 19:45 | RC/JU    | Ok     |
| 15  | Q1664-20    | BG064143.D     | 1 Apr 2025 20:26 | RC/JU    | Ok     |
| 16  | Q1664-22    | BG064144.D     | 1 Apr 2025 21:06 | RC/JU    | Ok     |
| 17  | Q1687-01    | BG064145.D     | 1 Apr 2025 21:46 | RC/JU    | Ok,M   |

M : Manual Integration

Instrument ID: **BNA\_G**

**Daily Analysis Runlog For Sequence/QC Batch ID # BG040325**

| Review By                | Rahul    | Review On                                               | 4/4/2025 11:48:21 AM |                      |          |
|--------------------------|----------|---------------------------------------------------------|----------------------|----------------------|----------|
| Supervise By             | Jagrut   | Supervise On                                            | 4/4/2025 11:52:54 AM |                      |          |
| SubDirectory             | BG040325 | HP Acquire Method                                       | BNA_G                | HP Processing Method | bg030525 |
| STD. NAME                |          | STD REF.#                                               |                      |                      |          |
| Tune/Reschk              |          | SP6757                                                  |                      |                      |          |
| Initial Calibration Stds |          | SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729 |                      |                      |          |
| CCC                      |          | SP6725                                                  |                      |                      |          |
| Internal Standard/PEM    |          | S12657,10ul/1000ul sample                               |                      |                      |          |
| ICV/I.BLK                |          | SP6686                                                  |                      |                      |          |
| Surrogate Standard       |          |                                                         |                      |                      |          |
| MS/MSD Standard          |          |                                                         |                      |                      |          |
| LCS Standard             |          |                                                         |                      |                      |          |

| Sr# | SampleId    | Data File Name | Date-Time        | Operator | Status |
|-----|-------------|----------------|------------------|----------|--------|
| 1   | DFTPP       | BG064163.D     | 3 Apr 2025 12:24 | RC/JU    | Ok     |
| 2   | SSTDCCC040  | BG064164.D     | 3 Apr 2025 13:04 | RC/JU    | Ok,M   |
| 3   | PB167380BL  | BG064165.D     | 3 Apr 2025 13:45 | RC/JU    | Ok     |
| 4   | PB167380BS  | BG064166.D     | 3 Apr 2025 14:25 | RC/JU    | Ok,M   |
| 5   | PB167376BL  | BG064167.D     | 3 Apr 2025 15:13 | RC/JU    | Ok     |
| 6   | PB167417BS  | BG064168.D     | 3 Apr 2025 15:54 | RC/JU    | Ok,M   |
| 7   | PB167393TB  | BG064169.D     | 3 Apr 2025 16:34 | RC/JU    | Ok     |
| 8   | PB167376BS  | BG064170.D     | 3 Apr 2025 17:15 | RC/JU    | Ok,M   |
| 9   | PB167393BL  | BG064171.D     | 3 Apr 2025 17:56 | RC/JU    | Ok     |
| 10  | PB167376BSD | BG064172.D     | 3 Apr 2025 18:36 | RC/JU    | Ok,M   |
| 11  | PB167393BS  | BG064173.D     | 3 Apr 2025 19:17 | RC/JU    | Ok,M   |
| 12  | PB167451BL  | BG064174.D     | 3 Apr 2025 19:58 | RC/JU    | Ok     |
| 13  | PB167451BS  | BG064175.D     | 3 Apr 2025 20:38 | RC/JU    | Ok,M   |
| 14  | PB167451BSD | BG064176.D     | 3 Apr 2025 21:19 | RC/JU    | Ok,M   |
| 15  | PB167445BS  | BG064177.D     | 3 Apr 2025 22:00 | RC/JU    | Ok,M   |
| 16  | Q1690-01    | BG064178.D     | 3 Apr 2025 22:40 | RC/JU    | Ok     |
| 17  | DFTPP       | BG064179.D     | 3 Apr 2025 23:21 | RC/JU    | Ok     |
| 18  | SSTDCCC040  | BG064180.D     | 4 Apr 2025 00:02 | RC/JU    | Ok,M   |
| 19  | PB167445BL  | BG064181.D     | 4 Apr 2025 00:42 | RC/JU    | Ok     |
| 20  | PB167408TB  | BG064182.D     | 4 Apr 2025 1:23  | RC/JU    | Ok     |
| 21  | Q1680-04    | BG064183.D     | 4 Apr 2025 2:04  | RC/JU    | Ok     |

Instrument ID: **BNA\_G**

**Daily Analysis Runlog For Sequence/QC Batch ID # BG040325**

| Review By                | Rahul    | Review On                                               | 4/4/2025 11:48:21 AM |                      |          |
|--------------------------|----------|---------------------------------------------------------|----------------------|----------------------|----------|
| Supervise By             | Jagrut   | Supervise On                                            | 4/4/2025 11:52:54 AM |                      |          |
| SubDirectory             | BG040325 | HP Acquire Method                                       | BNA_G                | HP Processing Method | bg030525 |
| STD. NAME                |          | STD REF.#                                               |                      |                      |          |
| Tune/Reschk              |          | SP6757                                                  |                      |                      |          |
| Initial Calibration Stds |          | SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729 |                      |                      |          |
| CCC                      |          | SP6725                                                  |                      |                      |          |
| Internal Standard/PEM    |          | S12657,10ul/1000ul sample                               |                      |                      |          |
| ICV/I.BLK                |          | SP6686                                                  |                      |                      |          |
| Surrogate Standard       |          |                                                         |                      |                      |          |
| MS/MSD Standard          |          |                                                         |                      |                      |          |
| LCS Standard             |          |                                                         |                      |                      |          |

|    |             |            |                 |       |      |
|----|-------------|------------|-----------------|-------|------|
| 22 | Q1680-04MS  | BG064184.D | 4 Apr 2025 2:44 | RC/JU | Ok,M |
| 23 | Q1680-04MSD | BG064185.D | 4 Apr 2025 3:25 | RC/JU | Ok,M |
| 24 | Q1681-04    | BG064186.D | 4 Apr 2025 4:05 | RC/JU | Ok   |
| 25 | Q1693-04    | BG064187.D | 4 Apr 2025 4:46 | RC/JU | Ok   |
| 26 | Q1693-08    | BG064188.D | 4 Apr 2025 5:26 | RC/JU | Ok   |
| 27 | Q1693-12    | BG064189.D | 4 Apr 2025 6:07 | RC/JU | Ok   |
| 28 | Q1694-04    | BG064190.D | 4 Apr 2025 6:47 | RC/JU | Ok   |
| 29 | Q1695-04    | BG064191.D | 4 Apr 2025 7:27 | RC/JU | Ok   |
| 30 | Q1695-08    | BG064192.D | 4 Apr 2025 8:08 | RC/JU | Ok   |
| 31 | Q1705-02    | BG064193.D | 4 Apr 2025 8:48 | RC/JU | Ok   |
| 32 | Q1705-01    | BG064194.D | 4 Apr 2025 9:28 | RC/JU | Ok   |

M : Manual Integration

Instrument ID: BNA\_G

**Daily Analysis Runlog For Sequence/QC Batch ID # BG030525**

|              |          |                      |                     |
|--------------|----------|----------------------|---------------------|
| Review By    | Jagrut   | Review On            | 3/6/2025 5:46:57 PM |
| Supervise By | mohammad | Supervise On         | 3/7/2025 6:01:50 AM |
| SubDirectory | BG030525 | HP Acquire Method    | BNA_G               |
|              |          | HP Processing Method | bg030525            |

| STD. NAME                | STD REF.#                                               |
|--------------------------|---------------------------------------------------------|
| Tune/Reschk              | SP6717                                                  |
| Initial Calibration Stds | SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729 |
| CCC                      | SP6725                                                  |
| Internal Standard/PEM    | S12653,10ul/1000ul sample                               |
| ICV/I.BLK                | SP6686                                                  |
| Surrogate Standard       |                                                         |
| MS/MSD Standard          |                                                         |
| LCS Standard             |                                                         |

| Sr# | SampleID    | ClientID    | Data File Name | Date-Time        | Comment                                                                           | Operator | Status |
|-----|-------------|-------------|----------------|------------------|-----------------------------------------------------------------------------------|----------|--------|
| 1   | DFTPP       | DFTPP       | BG064044.D     | 5 Mar 2025 8:15  |                                                                                   | RC/JU    | Ok     |
| 2   | SSTDICC2.5  | SSTDICC2.5  | BG064045.D     | 5 Mar 2025 9:02  |                                                                                   | RC/JU    | Ok     |
| 3   | SSTDICC005  | SSTDICC005  | BG064046.D     | 5 Mar 2025 9:42  | Compound#32,54,56,65,70,85 removed from 5 ppm                                     | RC/JU    | Ok,M   |
| 4   | SSTDICC010  | SSTDICC010  | BG064047.D     | 5 Mar 2025 10:22 |                                                                                   | RC/JU    | Ok,M   |
| 5   | SSTDICC020  | SSTDICC020  | BG064048.D     | 5 Mar 2025 11:03 | Compound#32,51,54,57,65,80 Kept on LR & Compound#26,48 Kept on QR                 | RC/JU    | Ok,M   |
| 6   | SSTDICCC040 | SSTDICCC040 | BG064049.D     | 5 Mar 2025 11:43 | Calibration is good for 8270 E and 8270 DOD. Benzidine failed in the Calibration. | RC/JU    | Ok,M   |
| 7   | SSTDICC050  | SSTDICC050  | BG064050.D     | 5 Mar 2025 12:23 |                                                                                   | RC/JU    | Ok,M   |
| 8   | SSTDICC060  | SSTDICC060  | BG064051.D     | 5 Mar 2025 13:04 | Compound#69 removed from 60 ppm                                                   | RC/JU    | Ok,M   |
| 9   | SSTDICC080  | SSTDICC080  | BG064052.D     | 5 Mar 2025 13:44 | Compound#9,69 removed from 80 ppm                                                 | RC/JU    | Ok,M   |
| 10  | SSTDICV040  | ICVBG030525 | BG064053.D     | 5 Mar 2025 15:10 |                                                                                   | RC/JU    | Ok,M   |
| 11  | PB166970BL  | PB166970BL  | BG064054.D     | 5 Mar 2025 15:50 |                                                                                   | RC/JU    | Ok     |

M : Manual Integration



Instrument ID: BNA\_G

**Daily Analysis Runlog For Sequence/QC Batch ID # BG040125**

|              |          |                      |                      |
|--------------|----------|----------------------|----------------------|
| Review By    | anahy    | Review On            | 4/2/2025 10:09:51 AM |
| Supervise By | Jagrut   | Supervise On         | 4/2/2025 10:55:40 AM |
| SubDirectory | BG040125 | HP Acquire Method    | BNA_G                |
|              |          | HP Processing Method | bg030525             |

| STD. NAME                | STD REF.#                                               |
|--------------------------|---------------------------------------------------------|
| Tune/Reschk              | SP6757                                                  |
| Initial Calibration Stds | SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729 |
| CCC                      | SP6725                                                  |
| Internal Standard/PEM    | S12657,10ul/1000ul sample                               |
| ICV/I.BLK                | SP6686                                                  |
| Surrogate Standard       |                                                         |
| MS/MSD Standard          |                                                         |
| LCS Standard             |                                                         |

| Sr# | SampleID    | ClientID            | Data File Name | Date-Time        | Comment | Operator | Status |
|-----|-------------|---------------------|----------------|------------------|---------|----------|--------|
| 1   | DFTPP       | DFTPP               | BG064129.D     | 1 Apr 2025 10:13 |         | RC/JU    | Ok     |
| 2   | SSTDCCC040  | SSTDCCC040          | BG064130.D     | 1 Apr 2025 11:38 |         | RC/JU    | Ok,M   |
| 3   | PB167373TB  | PB167373TB          | BG064131.D     | 1 Apr 2025 12:19 |         | RC/JU    | Ok     |
| 4   | Q1666-01    | TW-WTS-05           | BG064132.D     | 1 Apr 2025 13:02 |         | RC/JU    | Ok     |
| 5   | Q1672-01    | TP-8                | BG064133.D     | 1 Apr 2025 13:43 |         | RC/JU    | Ok     |
| 6   | Q1664-04    | P001-BBDGA-001-01   | BG064134.D     | 1 Apr 2025 14:23 |         | RC/JU    | Ok     |
| 7   | Q1664-05MS  | P001-BBDGA-001-01-0 | BG064135.D     | 1 Apr 2025 15:03 |         | RC/JU    | Ok,M   |
| 8   | Q1664-06MSD | P001-BBDGA-001-01-0 | BG064136.D     | 1 Apr 2025 15:44 |         | RC/JU    | Ok,M   |
| 9   | Q1664-08    | P001-BBDGA-001-02   | BG064137.D     | 1 Apr 2025 16:24 |         | RC/JU    | Ok     |
| 10  | Q1664-10    | P001-BBDGA-002-01   | BG064138.D     | 1 Apr 2025 17:04 |         | RC/JU    | Ok     |
| 11  | Q1664-12    | P001-BBDGA-003-01   | BG064139.D     | 1 Apr 2025 17:45 |         | RC/JU    | Ok     |
| 12  | Q1664-14    | P001-BBDGA-004-01   | BG064140.D     | 1 Apr 2025 18:25 |         | RC/JU    | Ok     |
| 13  | Q1664-16    | P001-BBDGA-005-01   | BG064141.D     | 1 Apr 2025 19:05 |         | RC/JU    | Ok     |
| 14  | Q1664-18    | P001-BBDGA-006-01   | BG064142.D     | 1 Apr 2025 19:45 |         | RC/JU    | Ok     |
| 15  | Q1664-20    | P001-BBDGA-007-01   | BG064143.D     | 1 Apr 2025 20:26 |         | RC/JU    | Ok     |
| 16  | Q1664-22    | P001-BBDGA-008-01   | BG064144.D     | 1 Apr 2025 21:06 |         | RC/JU    | Ok     |
| 17  | Q1687-01    | 72-12016            | BG064145.D     | 1 Apr 2025 21:46 |         | RC/JU    | Ok,M   |

M : Manual Integration

Instrument ID: BNA\_G

**Daily Analysis Runlog For Sequence/QC Batch ID # BG040325**

|              |          |                   |                      |                      |          |
|--------------|----------|-------------------|----------------------|----------------------|----------|
| Review By    | Rahul    | Review On         | 4/4/2025 11:48:21 AM |                      |          |
| Supervise By | Jagrut   | Supervise On      | 4/4/2025 11:52:54 AM |                      |          |
| SubDirectory | BG040325 | HP Acquire Method | BNA_G                | HP Processing Method | bg030525 |

| STD. NAME                | STD REF.#                                               |
|--------------------------|---------------------------------------------------------|
| Tune/Reschk              | SP6757                                                  |
| Initial Calibration Stds | SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729 |
| CCC                      | SP6725                                                  |
| Internal Standard/PEM    | S12657,10ul/1000ul sample                               |
| ICV/I.BLK                | SP6686                                                  |
| Surrogate Standard       |                                                         |
| MS/MSD Standard          |                                                         |
| LCS Standard             |                                                         |

| Sr# | SampleID    | ClientID    | Data File Name | Date-Time        | Comment        | Operator | Status |
|-----|-------------|-------------|----------------|------------------|----------------|----------|--------|
| 1   | DFTPP       | DFTPP       | BG064163.D     | 3 Apr 2025 12:24 |                | RC/JU    | Ok     |
| 2   | SSTDCCC040  | SSTDCCC040  | BG064164.D     | 3 Apr 2025 13:04 |                | RC/JU    | Ok,M   |
| 3   | PB167380BL  | PB167380BL  | BG064165.D     | 3 Apr 2025 13:45 |                | RC/JU    | Ok     |
| 4   | PB167380BS  | PB167380BS  | BG064166.D     | 3 Apr 2025 14:25 |                | RC/JU    | Ok,M   |
| 5   | PB167376BL  | PB167376BL  | BG064167.D     | 3 Apr 2025 15:13 |                | RC/JU    | Ok     |
| 6   | PB167417BS  | PB167417BS  | BG064168.D     | 3 Apr 2025 15:54 |                | RC/JU    | Ok,M   |
| 7   | PB167393TB  | PB167393TB  | BG064169.D     | 3 Apr 2025 16:34 |                | RC/JU    | Ok     |
| 8   | PB167376BS  | PB167376BS  | BG064170.D     | 3 Apr 2025 17:15 |                | RC/JU    | Ok,M   |
| 9   | PB167393BL  | PB167393BL  | BG064171.D     | 3 Apr 2025 17:56 |                | RC/JU    | Ok     |
| 10  | PB167376BSD | PB167376BSD | BG064172.D     | 3 Apr 2025 18:36 |                | RC/JU    | Ok,M   |
| 11  | PB167393BS  | PB167393BS  | BG064173.D     | 3 Apr 2025 19:17 |                | RC/JU    | Ok,M   |
| 12  | PB167451BL  | PB167451BL  | BG064174.D     | 3 Apr 2025 19:58 |                | RC/JU    | Ok     |
| 13  | PB167451BS  | PB167451BS  | BG064175.D     | 3 Apr 2025 20:38 |                | RC/JU    | Ok,M   |
| 14  | PB167451BSD | PB167451BSD | BG064176.D     | 3 Apr 2025 21:19 |                | RC/JU    | Ok,M   |
| 15  | PB167445BS  | PB167445BS  | BG064177.D     | 3 Apr 2025 22:00 |                | RC/JU    | Ok,M   |
| 16  | Q1690-01    | MW112010    | BG064178.D     | 3 Apr 2025 22:40 | Surrogate Fail | RC/JU    | Ok     |
| 17  | DFTPP       | DFTPP       | BG064179.D     | 3 Apr 2025 23:21 |                | RC/JU    | Ok     |
| 18  | SSTDCCC040  | SSTDCCC040  | BG064180.D     | 4 Apr 2025 00:02 |                | RC/JU    | Ok,M   |

Instrument ID: BNA\_G

**Daily Analysis Runlog For Sequence/QC Batch ID # BG040325**

|                          |          |                                                         |                      |                      |          |
|--------------------------|----------|---------------------------------------------------------|----------------------|----------------------|----------|
| Review By                | Rahul    | Review On                                               | 4/4/2025 11:48:21 AM |                      |          |
| Supervise By             | Jagrut   | Supervise On                                            | 4/4/2025 11:52:54 AM |                      |          |
| SubDirectory             | BG040325 | HP Acquire Method                                       | BNA_G                | HP Processing Method | bg030525 |
| STD. NAME                |          | STD REF.#                                               |                      |                      |          |
| Tune/Reschk              |          | SP6757                                                  |                      |                      |          |
| Initial Calibration Stds |          | SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729 |                      |                      |          |
| CCC                      |          | SP6725                                                  |                      |                      |          |
| Internal Standard/PEM    |          | S12657,10ul/1000ul sample                               |                      |                      |          |
| ICV/I.BLK                |          | SP6686                                                  |                      |                      |          |
| Surrogate Standard       |          |                                                         |                      |                      |          |
| MS/MSD Standard          |          |                                                         |                      |                      |          |
| LCS Standard             |          |                                                         |                      |                      |          |

|    |             |            |            |                  |  |       |      |
|----|-------------|------------|------------|------------------|--|-------|------|
| 19 | PB167445BL  | PB167445BL | BG064181.D | 4 Apr 2025 00:42 |  | RC/JU | Ok   |
| 20 | PB167408TB  | PB167408TB | BG064182.D | 4 Apr 2025 1:23  |  | RC/JU | Ok   |
| 21 | Q1680-04    | TP-4       | BG064183.D | 4 Apr 2025 2:04  |  | RC/JU | Ok   |
| 22 | Q1680-04MS  | TP-4MS     | BG064184.D | 4 Apr 2025 2:44  |  | RC/JU | Ok,M |
| 23 | Q1680-04MSD | TP-4MSD    | BG064185.D | 4 Apr 2025 3:25  |  | RC/JU | Ok,M |
| 24 | Q1681-04    | TP-12      | BG064186.D | 4 Apr 2025 4:05  |  | RC/JU | Ok   |
| 25 | Q1693-04    | WCS-TP-3   | BG064187.D | 4 Apr 2025 4:46  |  | RC/JU | Ok   |
| 26 | Q1693-08    | WCS-TP-2   | BG064188.D | 4 Apr 2025 5:26  |  | RC/JU | Ok   |
| 27 | Q1693-12    | WCS-TP-1   | BG064189.D | 4 Apr 2025 6:07  |  | RC/JU | Ok   |
| 28 | Q1694-04    | TP-18      | BG064190.D | 4 Apr 2025 6:47  |  | RC/JU | Ok   |
| 29 | Q1695-04    | TT-2       | BG064191.D | 4 Apr 2025 7:27  |  | RC/JU | Ok   |
| 30 | Q1695-08    | TT-3       | BG064192.D | 4 Apr 2025 8:08  |  | RC/JU | Ok   |
| 31 | Q1705-02    | ETGI-275   | BG064193.D | 4 Apr 2025 8:48  |  | RC/JU | Ok   |
| 32 | Q1705-01    | ETGI-327   | BG064194.D | 4 Apr 2025 9:28  |  | RC/JU | Ok   |

M : Manual Integration

SOP ID : M1312-SPLP-10

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pipette ID : WC

Tumbler ID : T-2

TCLP Filter ID : 115525

Start Prep Date : 03/28/2025 Time : 15:20

End Prep Date : 03/29/2025 Time : 09:50

Combination Ratio : 20

ZHE Cleaning Batch : <sup>78</sup>N/A

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : <sup>78</sup>

Supervisor By : <sup>12</sup>

| Standard Name | MLS USED | STD REF. # FROM LOG |
|---------------|----------|---------------------|
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |

| Chemical Used        | ML/SAMPLE U  | Lot Number                  |
|----------------------|--------------|-----------------------------|
| SPLP FLUID           | N/A          | WP110806                    |
| N/A                  | N/A          | N/A                         |
| HNO3-TCLP, 1N        | N/A          | WP110804                    |
| pH Strips            | W3172.       | W1931, W1934, W3171, W3172  |
| pH Strips            | W1941, W1942 | W3166, W1938, W1939, W1940, |
| 1 Liter Amber        | N/A          | 90424-08                    |
| 120ml Plastic bottle | N/A          | 405130101                   |
| 1:1 HNO3             | N/A          | MP84041                     |

**Extraction Conformance/Non-Conformance Comments:**

TUMBLER T-2 checked, 30 rpm. Particle size reduction is not required. Matrix spikes are added after filtration and before preservation.

| Date / Time    | Prepped Sample Relinquished By/Location | Received By/Location |
|----------------|-----------------------------------------|----------------------|
| 03/31/25 10:30 | <sup>78</sup> / TCLP Room               | <sup>15</sup> / Ext  |
|                | Preparation Group                       | Analysis Group       |

## SPLP EXTRACTION LOGPAGE

PB167372

| Sample ID  | ClientID          | TCLP Vessel ID | Sample Wt (g) | Volume Extraction Fluid #1 (mL) | Multi phasic | Phase Miscible | Phases Combined | Final Leachate PH | Metals Leachate Adj. PH | Prep Pos |
|------------|-------------------|----------------|---------------|---------------------------------|--------------|----------------|-----------------|-------------------|-------------------------|----------|
| PB167372TB | LEB372            | 20             | N/A           | 2000                            | N/A          | N/A            | N/A             | 4.24              | 1.5                     | T-2      |
| Q1664-04   | P001-BBDGA-001-01 | 11             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 5.5               | 1.0                     | T-2      |
| Q1664-05   | Q1664-04MS        | 11             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 5.5               | 1.0                     | T-2      |
| Q1664-06   | Q1664-04MSD       | 11             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 5.5               | 1.0                     | T-2      |
| Q1664-08   | P001-BBDGA-001-02 | 12             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.2               | 1.5                     | T-2      |
| Q1664-10   | P001-BBDGA-002-01 | 13             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 7.6               | 1.5                     | T-2      |
| Q1664-12   | P001-BBDGA-003-01 | 14             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.2               | 1.0                     | T-2      |
| Q1664-14   | P001-BBDGA-004-01 | 15             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.6               | 1.5                     | T-2      |
| Q1664-16   | P001-BBDGA-005-01 | 16             | 100.01        | 2000                            | N/A          | N/A            | N/A             | 7.2               | 1.5                     | T-2      |
| Q1664-18   | P001-BBDGA-006-01 | 17             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.6               | 1.0                     | T-2      |
| Q1664-20   | P001-BBDGA-007-01 | 18             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 7.2               | 1.5                     | T-2      |
| Q1664-22   | P001-BBDGA-008-01 | 19             | 100.04        | 2000                            | N/A          | N/A            | N/A             | 7.6               | 1.0                     | T-2      |

| SampleID   | ClientID          | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|------------|-------------------|-------------------|-------------------|---------------|------------------------------|----------|--------------|
| PB167372TB | LEB372            | N/A               | N/A               | N/A           | N/A                          | N/A      | N/A          |
| Q1664-04   | P001-BBDGA-001-01 | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q1664-05   | Q1664-04MS        | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q1664-06   | Q1664-04MSD       | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q1664-08   | P001-BBDGA-001-02 | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q1664-10   | P001-BBDGA-002-01 | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q1664-12   | P001-BBDGA-003-01 | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q1664-14   | P001-BBDGA-004-01 | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q1664-16   | P001-BBDGA-005-01 | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q1664-18   | P001-BBDGA-006-01 | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q1664-20   | P001-BBDGA-007-01 | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q1664-22   | P001-BBDGA-008-01 | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |

**Hot Block ID :** WC S-1 /WC S-2

**Thermometer ID :** FLASHPOINT

| SampleID   | ClientID          | Sample Weight (g) | Volume DI Water (mL) | PH after 5 min stir | PH after 10 min stir | Extraction Fluid 1 or 2 | pH Extraction Fluid |
|------------|-------------------|-------------------|----------------------|---------------------|----------------------|-------------------------|---------------------|
| PB167372TB | LEB372            | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q1664-04   | P001-BBDGA-001-01 | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q1664-05   | Q1664-04MS        | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q1664-06   | Q1664-04MSD       | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q1664-08   | P001-BBDGA-001-02 | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q1664-10   | P001-BBDGA-002-01 | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q1664-12   | P001-BBDGA-003-01 | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q1664-14   | P001-BBDGA-004-01 | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q1664-16   | P001-BBDGA-005-01 | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q1664-18   | P001-BBDGA-006-01 | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q1664-20   | P001-BBDGA-007-01 | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q1664-22   | P001-BBDGA-008-01 | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : SPLP Q1664      WorkList ID : 188612      Department : TCLP Extraction      Date : 03-28-2025 12:15:15

| Sample   | Customer Sample   | Matrix | Test            | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|----------|-------------------|--------|-----------------|--------------|----------|-----------------------------|--------------|--------|
| Q1664-04 | P001-BBDGA-001-01 | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | I31                         | 03/26/2025   | 1312   |
| Q1664-05 | Q1664-04MS        | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | I31                         | 03/26/2025   | 1312   |
| Q1664-06 | Q1664-04MSD       | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | I31                         | 03/26/2025   | 1312   |
| Q1664-08 | P001-BBDGA-001-02 | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | I31                         | 03/26/2025   | 1312   |
| Q1664-10 | P001-BBDGA-002-01 | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | I31                         | 03/26/2025   | 1312   |
| Q1664-12 | P001-BBDGA-003-01 | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | I31                         | 03/26/2025   | 1312   |
| Q1664-14 | P001-BBDGA-004-01 | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | I31                         | 03/26/2025   | 1312   |
| Q1664-16 | P001-BBDGA-005-01 | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | I31                         | 03/26/2025   | 1312   |
| Q1664-18 | P001-BBDGA-006-01 | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | I31                         | 03/26/2025   | 1312   |
| Q1664-20 | P001-BBDGA-007-01 | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | I31                         | 03/26/2025   | 1312   |
| Q1664-22 | P001-BBDGA-008-01 | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | I31                         | 03/26/2025   | 1312   |

Date/Time 03/28/25 12:40  
 Raw Sample Received by: [Signature]  
 Raw Sample Relinquished by: [Signature]

Date/Time 03/28/25 15:30  
 Raw Sample Received by: [Signature]  
 Raw Sample Relinquished by: [Signature]



SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Extraction Start Date : 03/31/2025

Matrix : Water

Extraction Start Time : 11:00

Weigh By: EH

Extraction By: RJ

Extraction End Date : 03/31/2025

Balance check: N/A

Filter By: RJ

Extraction End Time : 16:00

Balance ID: N/A

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: E3880

Hood ID: 4,5,6,7

Supervisor By : rajesh

Extraction Method: ☒ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☐ Soxhlet

| Standard Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---------------|----------|---------------------|---------------------|
| Spike Sol 1   | 1.0ML    | 50/100 PPM          | SP6752              |
| Surrogate     | 1.0ML    | 100/150 PPM         | SP6754              |
| N/A           | N/A      | N/A                 | N/A                 |
| N/A           | N/A      | N/A                 | N/A                 |
| N/A           | N/A      | N/A                 | N/A                 |

| Chemical Used      | ML/SAMPLE USED | Lot Number |
|--------------------|----------------|------------|
| Methylene Chloride | N/A            | E3904      |
| Baked Na2SO4       | N/A            | EP2597     |
| 10N NaOH           | N/A            | EP2559     |
| H2SO4 1:1          | N/A            | EP2565     |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |

## Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673. p H Adjusted &lt;2 with 1:1 H2SO4 &amp; &gt;11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

Envap Temperature: 40 °C

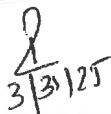
| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
| 03/31/25    | RP (Sat Lab)                            | AC/SVOC              |
| 16:05       | Preparation Group                       | Analysis Group       |

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/31/2025

| Sample ID  | Client Sample ID  | Test     | g / (mL) | PH | Surr/Spike By: |            | Final Vol.<br>(mL) | JarID | Comments | Prep<br>Pos |
|------------|-------------------|----------|----------|----|----------------|------------|--------------------|-------|----------|-------------|
|            |                   |          |          |    | AddedBy        | VerifiedBy |                    |       |          |             |
| PB167393BL | PB167393BL        | SPLP BNA | 1000     | 6  | ritesh         | rajesh     | 1                  |       |          | SEP-01      |
| PB167393BS | PB167393BS        | SPLP BNA | 1000     | 6  | ritesh         | rajesh     | 1                  |       |          | 2           |
| PB167393TB | PB167393TB        | SPLP BNA | 1000     | 6  | ritesh         | rajesh     | 1                  |       |          | 3           |
| Q1664-04   | P001-BBDGA-001-01 | SPLP BNA | 1000     | 6  | ritesh         | rajesh     | 1                  | A     |          | 4           |
| Q1664-05   | Q1664-04MS        | SPLP BNA | 1000     | 6  | ritesh         | rajesh     | 1                  | A     |          | 5           |
| Q1664-06   | Q1664-04MSD       | SPLP BNA | 1000     | 6  | ritesh         | rajesh     | 1                  | A     |          | 6           |
| Q1664-08   | P001-BBDGA-001-02 | SPLP BNA | 1000     | 6  | ritesh         | rajesh     | 1                  | A     |          | 7           |
| Q1664-10   | P001-BBDGA-002-01 | SPLP BNA | 1000     | 6  | ritesh         | rajesh     | 1                  | A     |          | 8           |
| Q1664-12   | P001-BBDGA-003-01 | SPLP BNA | 1000     | 6  | ritesh         | rajesh     | 1                  | A     |          | 9           |
| Q1664-14   | P001-BBDGA-004-01 | SPLP BNA | 1000     | 6  | ritesh         | rajesh     | 1                  | A     |          | 10          |
| Q1664-16   | P001-BBDGA-005-01 | SPLP BNA | 1000     | 6  | ritesh         | rajesh     | 1                  | A     |          | 11          |
| Q1664-18   | P001-BBDGA-006-01 | SPLP BNA | 1000     | 6  | ritesh         | rajesh     | 1                  | A     |          | 12          |
| Q1664-20   | P001-BBDGA-007-01 | SPLP BNA | 1000     | 6  | ritesh         | rajesh     | 1                  | A     |          | 13          |
| Q1664-22   | P001-BBDGA-008-01 | SPLP BNA | 1000     | 6  | ritesh         | rajesh     | 1                  | A     |          | 14          |

\* Extracts relinquished on the same date as received.



## Prep Standard - Chemical Standard Summary

**Order ID :** Q1664

**Test :** SPLP BNA

**Prepbatch ID :** PB167393,

**Sequence ID/Qc Batch ID:** BG040125,BG040325,

**Standard ID :**

EP2559,EP2565,EP2597,SP6685,SP6686,SP6721,SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729,SP6752,SP6754,SP6757,

**Chemical ID :**

10ul/1000ul

sample,E3551,E3657,E3828,E3874,E3876,E3902,E3904,M5173,S10104,S10397,S10584,S11074,S11087,S11143,S11161,S11487,S11495,S11650,S11785,S11786,S11787,S11788,S12114,S12142,S12189,S12190,S12191,S12192,S12193,S12194,S12195,S12208,S12209,S12210,S12211,S12212,S12213,S12214,S12215,S12216,S12270,S12276,S12327,S12469,S12478,S12479,S12480,S12481,S12482,S12483,S12484,S12485,S12486,S12517,S12525,S12526,S12527,S12528,S12529,S12530,S12531,S12532,S12533,S12577,S12649,S12657,S12791,S12966,S12967,S12968,S12969,S12970,S12971,S12972,S12973,S12974,W3112,



| <u>Recipe ID</u>                                                                         | <u>NAME</u>                | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                      | <u>PipetteID</u> | <u>Supervised By</u>              |
|------------------------------------------------------------------------------------------|----------------------------|------------------------|------------------|------------------------|--------------------|-------------------------------------|------------------|-----------------------------------|
| 1874                                                                                     | 10 N SODIUM HYDROXIDE SOLN | <a href="#">EP2559</a> | 11/14/2024       | 05/14/2025             | Rajesh Parikh      | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | RUPESHKUMAR<br>SHAH<br>11/14/2024 |
| <b>FROM</b> 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml |                            |                        |                  |                        |                    |                                     |                  |                                   |

| <u>Recipe ID</u>                                                                               | <u>NAME</u>    | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>              |
|------------------------------------------------------------------------------------------------|----------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|-----------------------------------|
| 314                                                                                            | 1.1 H2SO4 SOLN | <a href="#">EP2565</a> | 11/20/2024       | 05/20/2025             | Rajesh Parikh      | None           | None             | RUPESHKUMAR<br>SHAH<br>11/20/2024 |
| <b><u>FROM</u></b> 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml |                |                        |                  |                        |                    |                |                  |                                   |



| <u>Recipe ID</u>                                                           | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                      | <u>PipetteID</u> | <u>Supervised By</u>           |
|----------------------------------------------------------------------------|----------------------|------------------------|------------------|------------------------|--------------------|-------------------------------------|------------------|--------------------------------|
| 3923                                                                       | Baked Sodium Sulfate | <a href="#">EP2597</a> | 03/28/2025       | 07/01/2025             | Rajesh Parikh      | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | Evelyn Huang<br><br>03/28/2025 |
| <b><u>FROM</u></b> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram |                      |                        |                  |                        |                    |                                     |                  |                                |

[illegible]

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 416              | 40 ng BNA ICV, 40 PPM | <a href="#">SP6686</a> | 11/15/2024       | 04/10/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel         |
|                  |                       |                        |                  |                        |                    |                |                  | 12/27/2024           |

**FROM** 0.01000ml of S12327 + 0.60000ml of E3828 + 0.40000ml of SP6685 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>                    | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|--------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3764             | 8270/625 Stock solution 100 ng | <a href="#">SP6721</a> | 01/30/2025       | 05/12/2025             | Jagrut Upadhyay    | None           | None             | Shreena Patel        |
|                  |                                |                        |                  |                        |                    |                |                  | 02/07/2025           |

**FROM** 0.26700ml of S10104 + 0.40000ml of S11495 + 0.50000ml of S12114 + 1.00000ml of S11087 + 1.00000ml of S11161 + 1.00000ml of S12270 + 1.00000ml of S12276 + 1.00000ml of S12791 + 3.83300ml of E3874 = Final Quantity: 10.000 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>       |
|------------------|-----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 413              | 80 ng BNA ICC, 80 PPM | <a href="#">SP6722</a> | 01/30/2025       | 05/12/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel<br>02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.20000ml of E3874 + 0.80000ml of SP6721 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>       |
|------------------|-----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 412              | 60 ng BNA ICC, 60 PPM | <a href="#">SP6723</a> | 01/30/2025       | 05/12/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel<br>02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.40000ml of E3874 + 0.60000ml of SP6721 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>       |
|------------------|-----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 411              | 50 ng BNA ICC, 50 PPM | <a href="#">SP6724</a> | 01/30/2025       | 05/12/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel<br>02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6721 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>       |
|------------------|-----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 410              | 40 ng BNA ICC, 40 PPM | <a href="#">SP6725</a> | 01/30/2025       | 05/12/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel<br>02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.60000ml of E3874 + 0.40000ml of SP6721 = Final Quantity: 1.010 ml



## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>       |
|------------------|-----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 3678             | 20 ng BNA ICC, 20 PPM | <a href="#">SP6726</a> | 01/30/2025       | 05/12/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel<br>02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.80000ml of E3874 + 0.20000ml of SP6721 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>       |
|------------------|-----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 408              | 10 ng BNA ICC, 10 PPM | <a href="#">SP6727</a> | 01/30/2025       | 05/12/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel<br>02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.90000ml of E3874 + 0.10000ml of SP6721 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>         | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>       |
|------------------|---------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 407              | 5 ng BNA ICC, 5 PPM | <a href="#">SP6728</a> | 01/30/2025       | 05/12/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel<br>02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.95000ml of E3874 + 0.05000ml of SP6721 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>             | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>       |
|------------------|-------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 175              | 2.5 ng BNA ICC, 2.5 PPM | <a href="#">SP6729</a> | 01/30/2025       | 05/12/2025             | Jagrut Upadhyay    | None           | None             | Yogesh Patel<br>02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6728 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                         | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 171              | 8270/625 Spike Solution, 50/100 PPM | <a href="#">SP6752</a> | 03/10/2025       | 05/31/2025             | Rahul Chavli       | None           | None             | Jagrut Upadhyay      |
|                  |                                     |                        |                  |                        |                    |                |                  | 04/03/2025           |

**FROM** 0.10000ml of S12478 + 0.30000ml of S12525 + 0.40000ml of S10397 + 0.40000ml of S10584 + 0.40000ml of S11143 + 0.40000ml of S11487 + 0.40000ml of S11650 + 0.40000ml of S12533 + 0.40000ml of S12974 + 0.60000ml of S12486 + 0.80000ml of S12966 + 1.10000ml of S11788 + 1.20000ml of S11785 + 1.20000ml of S12483 + 1.20000ml of S12526 + 1.20000ml of S12967 + 1.20000ml of S12968 + 1.20000ml of S12970 + 1.20000ml of S12972 + 1.30000ml of S11786 + 1.30000ml of S12481 + 1.30000ml of S12482 + 1.30000ml of S12484 + 1.30000ml of S12528 + 1.30000ml of S12529 + 1.30000ml of S12531 + 1.30000ml of S12969 + 1.30000ml of S12973 + 1.40000ml of S11787 + 1.40000ml of S12479 + 1.40000ml of S12480 + 1.40000ml of S12485 + 1.40000ml of S12527 + 1.40000ml of S12530 + 1.40000ml of S12532 + 1.40000ml of S12971 + 163.00000ml of E3876 = Final Quantity: 200.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                                          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 19               | 8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID | <a href="#">SP6754</a> | 03/18/2025       | 09/18/2025             | Rahul Chavli       | None           | None             | Jagrut Upadhyay      |
|                  |                                                      |                        |                  |                        |                    |                |                  | 04/03/2025           |

**FROM** 1930.00000ml of E3902 + 2.60000ml of S12216 + 2.70000ml of S12195 + 5.20000ml of S12210 + 5.30000ml of S12192 + 5.30000ml of S12194 + 5.30000ml of S12209 + 5.30000ml of S12211 + 5.30000ml of S12212 + 5.30000ml of S12213 + 5.40000ml of S12190 + 5.40000ml of S12214 + 5.60000ml of S12191 + 5.60000ml of S12215 + 5.70000ml of S12193 = Final Quantity: 2000.000 ml



| <u>Recipe ID</u>                                                                         | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>          |
|------------------------------------------------------------------------------------------|----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|-------------------------------|
| 3895                                                                                     | 50 ug/ml DFTPP 8270E | <a href="#">SP6757</a> | 03/31/2025       | 09/30/2025             | Rahul Chavli       | None           | None             | Jagrut Upadhyay<br>04/01/2025 |
| <b><u>FROM</u></b> 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml |                      |                        |                  |                        |                    |                |                  |                               |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                    | ItemCode / ItemName                                    | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 313201 | 07/01/2025      | 01/03/2024 / Rajesh     | 07/20/2023 / Rajesh         | E3551          |

| Supplier                    | ItemCode / ItemName                                  | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4 | 23B1556310 | 12/31/2025      | 12/04/2023 / Rajesh     | 12/01/2023 / Rajesh         | E3657          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24G0862003 | 05/09/2025      | 11/09/2024 / Rajesh     | 11/04/2024 / Rajesh         | E3828          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 25A0262002 | 07/30/2025      | 01/30/2025 / Rajesh     | 01/20/2025 / Rajesh         | E3874          |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H2762008 | 08/25/2025      | 02/25/2025 /            | 02/12/2025 / Rajesh         | E3876          |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H2762008 | 09/18/2025      | 03/18/2025 / RUPESH     | 02/12/2025 / RUPESH         | E3902          |

## CHEMICAL RECEIPT LOG BOOK

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24K1762005 | 01/07/2026      | 03/13/2025 /            | 12/27/2024 / RUPESH         | E3904          |

| Supplier         | ItemCode / ItemName                                     | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 0000281827 | 06/02/2025      | 06/01/2022 /            | 04/05/2022 / william        | M5173          |

| Supplier          | ItemCode / ItemName                                       | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|-----------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml | 440246 | 07/30/2025      | 01/30/2025 / anahy      | 12/09/2021 / Christian      | S10104         |

| Supplier | ItemCode / ItemName                                     | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4] | A0185300 | 05/31/2025      | 01/29/2025 / anahy      | 05/18/2022 / Christian      | S10397         |

| Supplier | ItemCode / ItemName                                 | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-----------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555868 / Custom Standard, Benzidine Std [CS 5328-1] | A0186373 | 06/30/2025      | 01/29/2025 / anahy      | 07/05/2022 / Christian      | S10584         |

| Supplier | ItemCode / ItemName                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0187043 | 05/15/2025      | 11/15/2024 / Jagrut     | 02/06/2023 / Christian      | S11074         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier          | ItemCode / ItemName                                                                                         | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|-------------------------------------------------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-010074-07 /<br>3,3'-Dichlorobenzidine<br>Solution, 1,000 mg/L, 1 ml,<br>(Maximum Expiration: 180<br>days) | 406703 | 07/30/2025      | 01/30/2025 /<br>anahy   | 02/07/2023 /<br>Christian   | S11087         |

| Supplier | ItemCode / ItemName                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555869 / Custom<br>Standard,<br>hexachlorocyclopentadiene<br>Std [CS 5328-2] | A0194702 | 07/29/2025      | 01/29/2025 /<br>anahy   | 02/20/2023 /<br>Christian   | S11143         |

| Supplier          | ItemCode / ItemName                                                                          | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|----------------------------------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-110817-01 / Custom<br>8270 Mix, 4-55, 1000 mg/L,<br>1 ml, (Maximum Expiration:<br>90 Days) | 414125 | 06/21/2025      | 01/30/2025 /<br>anahy   | 03/06/2023 /<br>Christian   | S11161         |

| Supplier | ItemCode / ItemName                                               | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555870 / Custom<br>Standard, 2,4-dinitrophenol<br>Std [CS 5328-3] | A0200549 | 08/31/2026      | 01/29/2025 /<br>anahy   | 08/10/2023 /<br>yogesh      | S11487         |

| Supplier          | ItemCode / ItemName                                                     | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|-------------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-110094-02 / CLP<br>Base/Neutral Surrogate<br>Solution, 5000 mg/L, 1ml | 506889 | 05/12/2025      | 11/12/2024 /<br>Jagrut  | 08/11/2023 /<br>Yogesh      | S11495         |

| Supplier | ItemCode / ItemName                                                  | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555872 / Custom<br>Standard,<br>pentachlorophenol Std [CS<br>5328-5] | A0201728 | 07/29/2025      | 01/29/2025 /<br>anahy   | 11/09/2023 /<br>Yogesh      | S11650         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0196453 | 07/29/2025      | 01/29/2025 / anahy      | 11/21/2023 / Rahul          | S11785         |

| Supplier | ItemCode / ItemName                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0196453 | 09/10/2025      | 03/10/2025 / anahy      | 11/21/2023 / Rahul          | S11786         |

| Supplier | ItemCode / ItemName                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0196453 | 09/10/2025      | 03/10/2025 / anahy      | 11/21/2023 / Rahul          | S11787         |

| Supplier | ItemCode / ItemName                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0196453 | 09/10/2025      | 03/10/2025 / anahy      | 11/21/2023 / Rahul          | S11788         |

| Supplier          | ItemCode / ItemName                                | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|----------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml | 454157 | 05/12/2025      | 11/12/2024 / Jagrut     | 03/08/2024 / Rahul          | S12114         |

| Supplier | ItemCode / ItemName                                                                                                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0203726 | 04/30/2025      | 11/14/2024 / anahy      | 03/15/2024 / Rahul          | S12142         |



## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate<br>10,000ug/ml,methanol,5ml/<br>ampul | A0206206 | 04/10/2025      | 10/10/2024 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12189         |

| Supplier | ItemCode / ItemName                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate<br>10,000ug/ml,methanol,5ml/<br>ampul | A0206206 | 09/18/2025      | 03/18/2025 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12190         |

| Supplier | ItemCode / ItemName                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate<br>10,000ug/ml,methanol,5ml/<br>ampul | A0206206 | 09/18/2025      | 03/18/2025 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12191         |

| Supplier | ItemCode / ItemName                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate<br>10,000ug/ml,methanol,5ml/<br>ampul | A0206206 | 09/18/2025      | 03/18/2025 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12192         |

| Supplier | ItemCode / ItemName                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate<br>10,000ug/ml,methanol,5ml/<br>ampul | A0206206 | 09/18/2025      | 03/18/2025 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12193         |

| Supplier | ItemCode / ItemName                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate<br>10,000ug/ml,methanol,5ml/<br>ampul | A0206206 | 09/18/2025      | 03/18/2025 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12194         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate<br>10,000ug/ml, methanol, 5ml/<br>ampul | A0206206 | 09/18/2025      | 03/18/2025 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12195         |

| Supplier | ItemCode / ItemName                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral<br>Surrogate<br>5000ug/ml, CH <sub>2</sub> Cl <sub>2</sub> , 5ml | A0206381 | 05/15/2025      | 11/15/2024 /<br>Jagrut  | 03/15/2024 /<br>Rahul       | S12208         |

| Supplier | ItemCode / ItemName                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral<br>Surrogate<br>5000ug/ml, CH <sub>2</sub> Cl <sub>2</sub> , 5ml | A0206381 | 09/18/2025      | 03/18/2025 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12209         |

| Supplier | ItemCode / ItemName                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral<br>Surrogate<br>5000ug/ml, CH <sub>2</sub> Cl <sub>2</sub> , 5ml | A0206381 | 09/18/2025      | 03/18/2025 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12210         |

| Supplier | ItemCode / ItemName                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral<br>Surrogate<br>5000ug/ml, CH <sub>2</sub> Cl <sub>2</sub> , 5ml | A0206381 | 09/18/2025      | 03/18/2025 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12211         |

| Supplier | ItemCode / ItemName                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral<br>Surrogate<br>5000ug/ml, CH <sub>2</sub> Cl <sub>2</sub> , 5ml | A0206381 | 09/18/2025      | 03/18/2025 /<br>anahy   | 03/15/2024 /<br>Rahul       | S12212         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral Surrogate<br>5000ug/ml,CH <sub>2</sub> Cl <sub>2</sub> ,5ml | A0206381 | 09/18/2025      | 03/18/2025 / anahy      | 03/15/2024 / Rahul          | S12213         |

| Supplier | ItemCode / ItemName                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral Surrogate<br>5000ug/ml,CH <sub>2</sub> Cl <sub>2</sub> ,5ml | A0206381 | 09/18/2025      | 03/18/2025 / anahy      | 03/15/2024 / Rahul          | S12214         |

| Supplier | ItemCode / ItemName                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral Surrogate<br>5000ug/ml,CH <sub>2</sub> Cl <sub>2</sub> ,5ml | A0206381 | 09/18/2025      | 03/18/2025 / anahy      | 03/15/2024 / Rahul          | S12215         |

| Supplier | ItemCode / ItemName                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral Surrogate<br>5000ug/ml,CH <sub>2</sub> Cl <sub>2</sub> ,5ml | A0206381 | 09/18/2025      | 03/18/2025 / anahy      | 03/15/2024 / Rahul          | S12216         |

| Supplier          | ItemCode / ItemName                                                  | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|----------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml | 520963 | 07/30/2025      | 01/30/2025 / anahy      | 05/24/2024 / Rahul          | S12270         |

| Supplier          | ItemCode / ItemName                                                                   | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|---------------------------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days) | 495833 | 05/12/2025      | 11/12/2024 / Jagrut     | 05/24/2024 / Rahul          | S12276         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                                        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> , 1mL | A0206540 | 05/12/2025      | 11/12/2024 / anahy      | 05/30/2024 / Rahul          | S12327         |

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0214021 | 05/14/2025      | 11/14/2024 / anahy      | 07/23/2024 / RAHUL          | S12469         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0214021 | 07/29/2025      | 01/29/2025 / anahy      | 07/23/2024 / RAHUL          | S12478         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0214021 | 09/10/2025      | 03/10/2025 / anahy      | 07/23/2024 / RAHUL          | S12479         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0214021 | 09/10/2025      | 03/10/2025 / anahy      | 07/23/2024 / RAHUL          | S12480         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0214021 | 09/10/2025      | 03/10/2025 / anahy      | 07/23/2024 / RAHUL          | S12481         |

[CS 4978-1]

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270<br>Plus Std #1 [2nd lot at \$100<br>per ampul if requested -<br>contact ARM with Request] | A0214021 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12482         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270<br>Plus Std #1 [2nd lot at \$100<br>per ampul if requested -<br>contact ARM with Request] | A0214021 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12483         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270<br>Plus Std #1 [2nd lot at \$100<br>per ampul if requested -<br>contact ARM with Request] | A0214021 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12484         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270<br>Plus Std #1 [2nd lot at \$100<br>per ampul if requested -<br>contact ARM with Request] | A0214021 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12485         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270<br>Plus Std #1 [2nd lot at \$100<br>per ampul if requested -<br>contact ARM with Request] | A0214021 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12486         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 05/14/2025      | 11/14/2024 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12517         |

[CS 4978-2]

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 07/29/2025      | 01/29/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12525         |

[CS 4978-2]

| Supplier | ItemCode / ItemName                                                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12526         |

[CS 4978-2]

| Supplier | ItemCode / ItemName                                                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12527         |

[CS 4978-2]

| Supplier | ItemCode / ItemName                                                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12528         |

[CS 4978-2]

| Supplier | ItemCode / ItemName                                                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12529         |

[CS 4978-2]

| Supplier | ItemCode / ItemName                                                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12530         |

[CS 4978-2]

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12531         |

[CS 4978-2]

| Supplier | ItemCode / ItemName                                                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12532         |

[CS 4978-2]

| Supplier | ItemCode / ItemName                                                                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 09/10/2025      | 03/10/2025 /<br>anahy   | 07/23/2024 /<br>RAHUL       | S12533         |

[CS 4978-2]

| Supplier | ItemCode / ItemName                                                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31615 / SV Mixture,<br>GC/MS Tuning Mixture,<br>CH <sub>2</sub> Cl <sub>2</sub> , 1mL, | A0212955 | 06/30/2027      | 03/31/2025 /<br>Rahul   | 08/01/2024 /<br>Rahul       | S12577         |

| Supplier | ItemCode / ItemName                                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31206 / SV Mix, CLP<br>method, Internal Std,<br>2000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> , 1mL | A0212266 | 07/21/2025      | 01/21/2025 /<br>anahy   | 09/20/2024 /<br>anahy       | S12649         |

| Supplier | ItemCode / ItemName                                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31206 / SV Mix, CLP<br>method, Internal Std,<br>2000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> , 1mL | A0212266 | 10/01/2025      | 04/01/2025 /<br>anahy   | 09/20/2024 /<br>anahy       | S12657         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier          | ItemCode / ItemName                                                                  | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|--------------------------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days) | 414127 | 06/21/2025      | 01/30/2025 / anahy      | 05/24/2024 / Rahul          | S12791         |

| Supplier | ItemCode / ItemName                                                                                                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0219438 | 07/29/2025      | 01/29/2025 / anahy      | 12/11/2024 / anahy          | S12966         |

| Supplier | ItemCode / ItemName                                                                                                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0219438 | 09/10/2025      | 03/10/2025 / anahy      | 12/11/2024 / anahy          | S12967         |

| Supplier | ItemCode / ItemName                                                                                                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0219438 | 09/10/2025      | 03/10/2025 / anahy      | 12/11/2024 / anahy          | S12968         |

| Supplier | ItemCode / ItemName                                                                                                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0219438 | 09/10/2025      | 03/10/2025 / anahy      | 12/11/2024 / anahy          | S12969         |

| Supplier | ItemCode / ItemName                                                                                                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0219438 | 09/10/2025      | 03/10/2025 / anahy      | 12/11/2024 / anahy          | S12970         |



## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0219438 | 09/10/2025      | 03/10/2025 /<br>anahy   | 12/11/2024 /<br>anahy       | S12971         |

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0219438 | 09/10/2025      | 03/10/2025 /<br>anahy   | 12/11/2024 /<br>anahy       | S12972         |

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0219438 | 09/10/2025      | 03/10/2025 /<br>anahy   | 12/11/2024 /<br>anahy       | S12973         |

| Supplier | ItemCode / ItemName                                                                                                                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0219438 | 09/10/2025      | 03/10/2025 /<br>anahy   | 12/11/2024 /<br>anahy       | S12974         |

| Supplier         | ItemCode / ItemName | Lot #               | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------|---------------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | DIW / DI Water      | Daily Lab-Certified | 07/03/2029      | 07/03/2024 /<br>lwona   | 07/03/2024 /<br>lwona       | W3112          |



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

|              |          |          |                    |            |                                                   |
|--------------|----------|----------|--------------------|------------|---------------------------------------------------|
| Catalog No.: | Lot No.: | Storage: | Solvent:           | Exp. Date: | Description:                                      |
| Z-010074-07  | 406703   | ≤ -10 °C | Methylene Chloride | 3/30/2025  | 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL |

| Compound               | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|------------------------|---------|------------|------------------|---------------------|
| 3,3'-dichlorobenzidine | 91-94-1 | 99.5       | 74.3.26P         | 989 ± 7.53          |

Received on  
02/07/23  
by  
CG  
S11084  
to  
S11088

\*Not a certified value

Certified By: \_\_\_\_\_

Jacob Mulloy  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



5580 Skylane Blvd  
Santa Rosa, CA 95403

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Manufacturer's Quality System  
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by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

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|                     |                 |                 |                    |                   |                                        |
|---------------------|-----------------|-----------------|--------------------|-------------------|----------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                    |
| Z-110817-01         | 414125          | ≤ -10 °C        | Methylene Chloride | 6/21/2025         | Custom 8270 Mix, 4-55, 1000 mg/L, 1 mL |

| Compound                   | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|----------------------------|---------|------------|------------------|---------------------|
| acetophenone               | 98-86-2 | 99.2       | 85.8.1P          | 998 ± 11.5          |
| benzoic acid               | 65-85-0 | 100        | 123.7.1P         | 1010 ± 5.88         |
| biphenyl                   | 92-52-4 | 99.9       | 366.29.1P        | 999 ± 5.82          |
| 1,2,4,5-tetrachlorobenzene | 95-94-3 | 99.7       | 53.7.2P          | 993 ± 5.79          |

Received on  
02/07/23  
by  
CG  
S11089  
to  
S11093

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: \_\_\_\_\_

Shane Overcash  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
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(707)545-7901 Fax

Manufacturer's Quality System  
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by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

**Catalog No.:** Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**  
Z-112090 440246  $\leq -10^{\circ}\text{C}$  Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL  
-04

| Compound                      | CAS No.    | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-------------------------------|------------|------------|------------------|---------------------|
| 2-chlorophenol-d <sub>4</sub> | 93951-73-6 | 99.3       | 248.12.7P        | 7487 $\pm$ 17.2     |
| 2-fluorophenol                | 367-12-4   | 99.8       | 10.7.3.3P        | 7513 $\pm$ 17.26    |
| phenol-d <sub>6</sub>         | 13127-88-3 | 99.9       | 949.120.8P       | 7481 $\pm$ 17.19    |
| 2,4,6-tribromophenol          | 118-79-6   | 99.8       | 12.1.6P          | 7469 $\pm$ 17.17    |

Received on

02/25/21

by  
CG

S9236  
to

S9240

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: \_\_\_\_\_

Erica Castiglione  
Chemist



CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Gravimetric Certificate



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 555871 Lot No.: A0185300  
Description : Custom 4-Nitrophenol Standard  
Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul  
Container Size : 2 mL Pkg Amt: > 1 mL  
Expiration Date : May 31, 2025 Storage: 10°C or colder  
Ship: Ambient

Received by  
CG ON  
05/18/22  
S10393  
+U  
S10402

### CERTIFIED VALUES

| Component # | Compound       | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) |
|-------------|----------------|-----------------------------|--------------------------------------|
| 1           | 4-Nitrophenol  | 25,060.0 µg/mL              | +/- 231.9100 µg/mL Gravimetric       |
|             | CAS # 100-02-7 |                             | +/- 753.2622 µg/mL Unstressed        |
|             | Purity 99%     |                             | +/- 905.6020 µg/mL Stressed          |

Solvent: Methanol  
CAS # 67-56-1  
Purity 99%

Katelyn McGinnis - Operations Tech I

Date Mixed: 16-May-2022 Balance: 1128342314

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions                                          | Standard Conditions | Non-Standard Conditions |
|-----------------------------------------------------------|---------------------|-------------------------|
| 25°C Nominal (Room Temperature)                           | < 60°C              | ≥ 60°C up to 7 days     |
| 10°C or colder (Refrigerate)                              | < 40°C              | ≥ 40°C up to 7 days     |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C              | ≥ 25°C up to 7 days     |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

## Gravimetric Certificate



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received by  
CG  
on  
07/05/22  
S 10583  
to  
S 10592

Catalog No.: 555868 Lot No.: A0186373  
Description: Custom Benzidine Standard  
Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul  
Container Size: 2 mL Pkg Amt: > 1 mL  
Expiration Date: June 30, 2025 Storage: 10°C or colder  
Handling: Contains carcinogen/reproductive toxin. Ship: Ambient

### CERTIFIED VALUES

| Component # | Compound                      | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) |
|-------------|-------------------------------|-----------------------------|--------------------------------------|
| 1           | Benzidine                     | 25,200.0 µg/mL              | +/- 233.2055 µg/mL Gravimetric       |
|             | CAS # 92-87-5 (Lot 220511RSR) |                             | +/- 351.6606 µg/mL Unstressed        |
|             | Purity 99%                    |                             | +/- 512.6054 µg/mL Stressed          |

Solvent: Methanol  
CAS # 67-56-1  
Purity 99%

Tom Suckal - Mix Technician

Date Mixed: 16-Jun-2022 Balance: 1122030677

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ $\mu$ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions                                          | Standard Conditions | Non-Standard Conditions |
|-----------------------------------------------------------|---------------------|-------------------------|
| 25°C Nominal (Room Temperature)                           | < 60°C              | ≥ 60°C up to 7 days     |
| 10°C or colder (Refrigerate)                              | < 40°C              | ≥ 40°C up to 7 days     |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C              | ≥ 25°C up to 7 days     |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.





# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received on  
02/08/23

b1

CG

S 11071

to

S 11075

Catalog No. : 31853

Lot No.: A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2027

Storage: 0°C or colder

Ship: Ambient

### CERTIFIED VALUES

| Elution Order | Compound                                                      | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                        |
|---------------|---------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------|
| 1             | 1,4-Dioxane<br>CAS # 123-91-1<br>Purity 99%<br>(Lot SHBN5929) | 2,019.0 µg/mL               | +/- 11.8486 µg/mL Gravimetric<br>+/- 43.2570 µg/mL Unstressed<br>+/- 44.5129 µg/mL Stressed |

Solvent: Methylene chloride

CAS # 75-09-2

Purity 99%

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

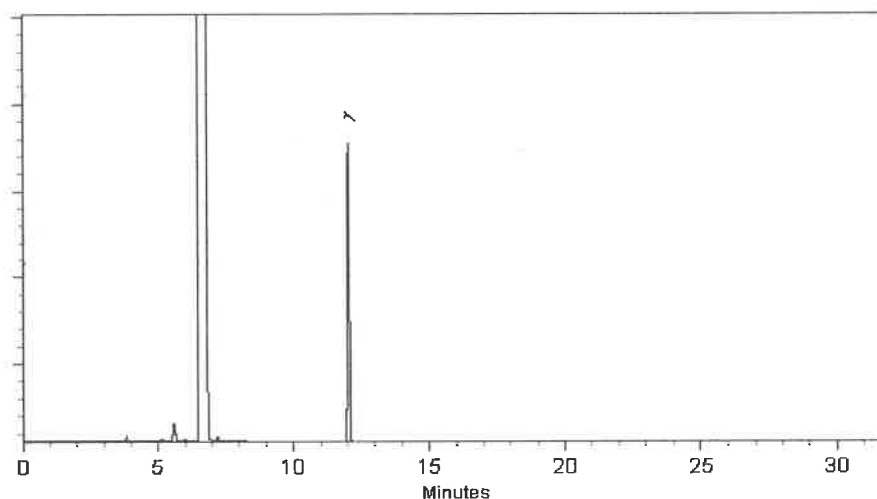
200°C

**Det. Temp:**

250°C

**Det. Type:**

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555869 **Lot No.:** A0194702

**Description :** Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED

| Component # | Compound                  | CAS #   | Lot #   | Purity | Grav. Conc. (weight/volume) |
|-------------|---------------------------|---------|---------|--------|-----------------------------|
| 1           | Hexachlorocyclopentadiene | 77-47-4 | 0012019 | 99%    | 25,008.0 µg/mL              |

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

Russ Bookhamer - Operations Technician I

**Date Mixed:** 15-Feb-2023

**Balance:** B442140311

Manufactured under Restek  
Registered Quality  
Certificate #FM1

**ified Reference Material Notes**

**es:**

n date valid for unopened ampul stored in compliance with the recommended conditions.  
nty, concentration, and expiration of the CRM are based on the unopened product being stored according to the  
ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD,  
LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A  
n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the  
mpound in solution.

isomeric compounds is reported as the sum of the isomers.

ues are rounded to the nearest whole number.

**rtainty Value Notes:**

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded  
ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability  
ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

verage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure  
nimum packaged amount can be sufficiently transferred.

**Notes:**

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily  
traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through  
ion displayed on the product label and certificate. Contact Restek for additional opened product stability  
i, with the knowledge/understanding that open product stability is subject to the specific handling and  
ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with  
ards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom  
m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861,  
des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely



**PRODUCTOS  
QUÍMICOS  
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR  
MONTERREY, N.L. MEXICO  
CP 64070  
TEL +52 81 13 52 57 57  
www.pqm.com.mx

## CERTIFICATE OF ANALYSIS

|                        |                                   |               |                                 |
|------------------------|-----------------------------------|---------------|---------------------------------|
| PRODUCT :              | SODIUM SULFATE CRYSTALS ANHYDROUS |               |                                 |
| QUALITY :              | ACS (CODE RMB3375)                | FORMULA :     | Na <sub>2</sub> SO <sub>4</sub> |
| SPECIFICATION NUMBER : | 6399                              | RELEASE DATE: | ABR/21/2023                     |
| LOT NUMBER :           | 313201                            |               |                                 |

| TEST                                     | SPECIFICATIONS | LOT VALUES  |
|------------------------------------------|----------------|-------------|
| Assay (Na <sub>2</sub> SO <sub>4</sub> ) | Min. 99.0%     | 99.7 %      |
| pH of a 5% solution at 25°C              | 5.2 - 9.2      | 6.1         |
| Insoluble matter                         | Max. 0.01%     | 0.005 %     |
| Loss on ignition                         | Max. 0.5%      | 0.1 %       |
| Chloride (Cl)                            | Max. 0.001%    | <0.001 %    |
| Nitrogen compounds (as N)                | Max. 5 ppm     | <5 ppm      |
| Phosphate (PO <sub>4</sub> )             | Max. 0.001%    | <0.001 %    |
| Heavy metals (as Pb)                     | Max. 5 ppm     | <5 ppm      |
| Iron (Fe)                                | Max. 0.001%    | <0.001 %    |
| Calcium (Ca)                             | Max. 0.01%     | 0.002 %     |
| Magnesium (Mg)                           | Max. 0.005%    | 0.001 %     |
| Potassium (K)                            | Max. 0.008%    | 0.003 %     |
| Extraction-concentration suitability     | Passes test    | Passes test |
| Appearance                               | Passes test    | Passes test |
| Identification                           | Passes test    | Passes test |
| Solubility and foreign matter            | Passes test    | Passes test |
| Retained on US Standard No. 10 sieve     | Max. 1%        | 0.1 %       |
| Retained on US Standard No. 60 sieve     | Min. 94%       | 97.3 %      |
| Through US Standard No. 60 sieve         | Max. 5%        | 2.5 %       |
| Through US Standard No. 100 sieve        | Max. 10%       | 0.1 %       |

### COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



# Certificate of Analysis

## Sodium Hydroxide (Pellets)

**Material:** 0583  
**Grade:** ACS GRADE  
**Batch Number:** 23B1556310

Chemical Formula: NaOH  
Molecular Weight: 40  
CAS #: 1310-73-2  
Appearance:

Manufacture Date: 12/14/2022  
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

| TEST               | SPECIFICATION          | ANALYSIS            | DISPOSITION |
|--------------------|------------------------|---------------------|-------------|
| Calcium            | $\leq 0.005 \%$        | $< 0.005 \%$        | PASS        |
| Chloride           | $\leq 0.005 \%$        | 0.002 %             | PASS        |
| Heavy Metals       | $\leq 0.002 \%$        | $< 0.002 \%$        | PASS        |
| Iron               | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Magnesium          | $\leq 0.002 \%$        | $< 0.002 \%$        | PASS        |
| Mercury            | $\leq 0.1 \text{ ppm}$ | $< 0.1 \text{ ppm}$ | PASS        |
| Nickel             | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Nitrogen Compounds | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Phosphate          | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Potassium          | $\leq 0.02 \%$         | $< 0.02 \%$         | PASS        |
| Purity             | $\geq 97.0 \%$         | 99.2 %              | PASS        |
| Sodium Carbonate   | $\leq 1.0 \%$          | 0.5 %               | PASS        |
| Sulfate            | $\leq 0.003 \%$        | $< 0.003 \%$        | PASS        |

Internal ID #: 710

### Signature

We certify that this batch conforms to the specifications listed.

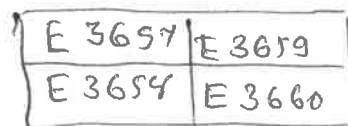
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon  
VWR Chemicals, LLC.  
28600 Fountain Parkway, Solon OH 44139 USA

### Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)

 **avantor**™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification  | Result     |
|--------------------------------------------------------------------------------------------|----------------|------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$       | 2          |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)                        | $\leq 10$      | 1          |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8\%$  | 100.0 %    |
| Color (APHA)                                                                               | $\leq 10$      | 5          |
| Residue after Evaporation                                                                  | $\leq 1.0$ ppm | 0.2 ppm    |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$     | $< 0.1$    |
| Chloride (Cl)                                                                              | $\leq 10$ ppm  | $< 5$ ppm  |
| Water (by KF, coulometric)                                                                 | $\leq 0.02\%$  | $< 0.01\%$ |

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828



Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 25A0262002  
Manufactured Date: 2024-11-21  
Expiration Date: 2026-02-20  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification  | Result     |
|--------------------------------------------------------------------------------------------|----------------|------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$       | 1          |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)                        | $\leq 10$      | 4          |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8\%$  | 99.9%      |
| Color (APHA)                                                                               | $\leq 10$      | 10         |
| Residue after Evaporation                                                                  | $\leq 1.0$ ppm | 0.8 ppm    |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$     | $< 0.1$    |
| Chloride (Cl)                                                                              | $\leq 10$ ppm  | $< 5$ ppm  |
| Water (by KF, coulometric)                                                                 | $\leq 0.02\%$  | $< 0.01\%$ |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700



Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

## Certificate of Analysis

| Test                                                                    | Specification | Result      |
|-------------------------------------------------------------------------|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water) | >= 99.4 %     | 100.0 %     |
| Color (APHA)                                                            | <= 10         | 5           |
| Residue after Evaporation                                               | <= 1.0 ppm    | 0.0 ppm     |
| Substances Reducing Permanganate                                        | Passes Test   | Passes Test |
| Titration Acid (µeq/g)                                                  | <= 0.3        | 0.2         |
| Titration Base (µeq/g)                                                  | <= 0.6        | <0.1        |
| Water (H <sub>2</sub> O)                                                | <= 0.5 %      | <0.1 %      |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)    | <= 5          | 1           |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)    | <= 10         | 1           |

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr &amp; DC

E3902

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis



Material No.: 9530-33  
Batch No.: 0000281827  
Manufactured Date: 2021/03/30  
Retest Date: 2026/03/29  
Revision No: 1

## Certificate of Analysis

| Test                                      | Specification | Result  |
|-------------------------------------------|---------------|---------|
| ACS – Assay (as HCl) (by acid–base titrn) | 36.5 – 38.0 % | 37.6    |
| ACS – Color (APHA)                        | <= 10         | 5       |
| ACS – Residue after Ignition              | <= 3 ppm      | 1       |
| ACS – Specific Gravity at 60°/60°F        | 1.185 – 1.192 | 1.189   |
| ACS – Bromide (Br)                        | <= 0.005 %    | < 0.005 |
| ACS – Extractable Organic Substances      | <= 5 ppm      | < 1     |
| ACS – Free Chlorine (as Cl <sub>2</sub> ) | <= 0.5 ppm    | < 0.5   |
| Phosphate (PO <sub>4</sub> )              | <= 0.05 ppm   | < 0.03  |
| Sulfate (SO <sub>4</sub> )                | <= 0.5 ppm    | < 0.3   |
| Sulfite (SO <sub>3</sub> )                | <= 0.8 ppm    | 0.3     |
| Ammonium (NH <sub>4</sub> )               | <= 3 ppm      | < 1     |
| Trace Impurities – Arsenic (As)           | <= 0.010 ppm  | < 0.003 |
| Trace Impurities – Aluminum (Al)          | <= 10.0 ppb   | 0.5     |
| Arsenic and Antimony (as As)              | <= 5 ppb      | < 3     |
| Trace Impurities – Barium (Ba)            | <= 1.0 ppb    | < 0.2   |
| Trace Impurities – Beryllium (Be)         | <= 1.0 ppb    | < 0.2   |
| Trace Impurities – Bismuth (Bi)           | <= 10.0 ppb   | < 1.0   |
| Trace Impurities – Boron (B)              | <= 20.0 ppb   | < 5.0   |
| Trace Impurities – Cadmium (Cd)           | <= 1.0 ppb    | < 0.3   |
| Trace Impurities – Calcium (Ca)           | <= 50.0 ppb   | 15.0    |
| Trace Impurities – Chromium (Cr)          | <= 1.0 ppb    | < 0.4   |
| Trace Impurities – Cobalt (Co)            | <= 1.0 ppb    | < 0.3   |
| Trace Impurities – Copper (Cu)            | <= 1.0 ppb    | < 0.1   |
| Trace Impurities – Gallium (Ga)           | <= 1.0 ppb    | < 0.2   |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700  
Avantor Performance Materials, LLC  
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

| Test                                                   | Specification | Result |
|--------------------------------------------------------|---------------|--------|
| Trace Impurities – Germanium (Ge)                      | <= 3.0 ppb    | < 2.0  |
| Trace Impurities – Gold (Au)                           | <= 4.0 ppb    | 3.0    |
| Heavy Metals (as Pb)                                   | <= 100 ppb    | < 50   |
| Trace Impurities – Iron (Fe)                           | <= 15.0 ppb   | 1.0    |
| Trace Impurities – Lead (Pb)                           | <= 1.0 ppb    | < 0.5  |
| Trace Impurities – Lithium (Li)                        | <= 1.0 ppb    | < 0.2  |
| Trace Impurities – Magnesium (Mg)                      | <= 10.0 ppb   | < 0.4  |
| Trace Impurities – Manganese (Mn)                      | <= 1.0 ppb    | < 0.4  |
| Trace Impurities – Mercury (Hg)                        | <= 0.5 ppb    | 0.2    |
| Trace Impurities – Molybdenum (Mo)                     | <= 10.0 ppb   | < 5.0  |
| Trace Impurities – Nickel (Ni)                         | <= 4.0 ppb    | < 0.3  |
| Trace Impurities – Niobium (Nb)                        | <= 1.0 ppb    | < 0.2  |
| Trace Impurities – Potassium (K)                       | <= 9.0 ppb    | < 2.0  |
| Trace Impurities – Selenium (Se), For Information Only | ppb           | 1.0    |
| Trace Impurities – Silicon (Si)                        | <= 100.0 ppb  | 18.0   |
| Trace Impurities – Silver (Ag)                         | <= 1.0 ppb    | < 0.3  |
| Trace Impurities – Sodium (Na)                         | <= 100.0 ppb  | < 5.0  |
| Trace Impurities – Strontium (Sr)                      | <= 1.0 ppb    | < 0.2  |
| Trace Impurities – Tantalum (Ta)                       | <= 1.0 ppb    | < 0.9  |
| Trace Impurities – Thallium (Tl)                       | <= 5.0 ppb    | < 2.0  |
| Trace Impurities – Tin (Sn)                            | <= 5.0 ppb    | < 0.8  |
| Trace Impurities – Titanium (Ti)                       | <= 1.0 ppb    | < 0.2  |
| Trace Impurities – Vanadium (V)                        | <= 1.0 ppb    | < 0.2  |
| Trace Impurities – Zinc (Zn)                           | <= 5.0 ppb    | 0.4    |
| Trace Impurities – Zirconium (Zr)                      | <= 1.0 ppb    | < 0.1  |

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC

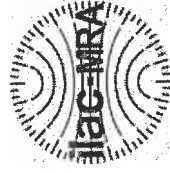
  
Jamie Ethier  
Vice President Global Quality



## CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

[www.restek.com](http://www.restek.com)



## Certificate of Analysis

*gravimetric*

### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No.: 555870 Lot No.: A0200549

Description: Custom 2,4-Dinitrophenol Standard

Container Size: 2 mL Pkg Amt: > 1 mL

Expiration Date: August 31, 2026 Storage: 10°C or colder

Ship: Ambient

5116gh } Y.P.  
↓  
511693 } 08/10/28

### CERTIFIED VALUES

| Component # | Compound          | CAS #   | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|-------------------|---------|-------------|--------|-----------------------------|----------------------------------------|
| 1           | 2,4-Dinitrophenol | 51-28-5 | DR230417RSR | 99%    | 25,008.0 µg/mL              | +/- 777.3323                           |

Solvent: Methanol  
CAS # 67-56-1  
Purity 99%

  
Tom Suckar, Mix Technician

Date Mixed: 02-Aug-2023 Balance: 1128342314

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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5580 Skyline Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Page 1 of 1

| Catalog No.: Lot No.:              | Storage: | Solvent:           | Exp. Date: | Rev              | Description:                                          |
|------------------------------------|----------|--------------------|------------|------------------|-------------------------------------------------------|
| Z-110094-02 506889                 | ≤ -10 °C | Methylene Chloride | 7/25/2028  | 0                | CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml |
| Compound                           |          |                    |            |                  |                                                       |
|                                    |          | CAS No.            | Purity (%) | Compound Lot No. | Concentration, mg/L                                   |
| 1,2-dichlorobenzene-d <sub>4</sub> |          | 2199-69-1          | 99.7       | 247.29.3P        | 5035 ± 28.02                                          |
| 2-fluorobiphenyl                   |          | 321-60-8           | 99.69      | 8.286.1.1P       | 4999 ± 103.66                                         |
| nitrobenzene-d5                    |          | 4165-60-0          | 99.67      | 7.9.3P           | 4988 ± 27.32                                          |
| p-terphenyl-d14                    |          | 1718-51-0          | 99.3       | 9.120.8P         | 5005 ± 27.85                                          |

511494 } Y.P.  
↓ 08/11/2023  
511498

\*Not a certified value

Certified By: \_\_\_\_\_  
Clint Tipton  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.





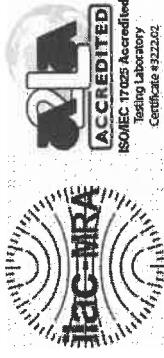
110 Benner Circle  
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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No.: 555872      Lot No.: A0201728

Description: Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size: 2 mL      Pkg Amt: > 1 mL

Expiration Date: September 30, 2026      Storage: 10°C or colder

Ship: Ambient

511649 } Y.P.  
↓ 11/13/23  
511658 }

### CERTIFIED VALUES

| Component # | Compound          | CAS #   | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty* (95% C.L.; K=2) |
|-------------|-------------------|---------|-------------|--------|-----------------------------|---------------------------------------|
| 1           | Pentachlorophenol | 87-86-5 | RP230530RSR | 99%    | 25,000.0 µg/mL              | +/- 777.0837                          |

Solvent: Methanol  
CAS # 67-56-1  
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023      Balance: B251644995

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0196453  
**Description :** 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** March 31, 2028 **Storage:** 0°C or colder  
**Ship:** Ambient

S11749  
↓  
S11794 } RC / 11/30/23

### CERTIFIED VALUES

| Elution Order | Compound    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dioxane | 123-91-1 | SHBN3770 | 99%    | 2,013.0 µg/mL               | +/- 25.0521                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**

80°C (hold 0.1 min.) to 330°C  
@ 9.6°C/min. (hold 2.86 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

340°C

**Det. Type:**

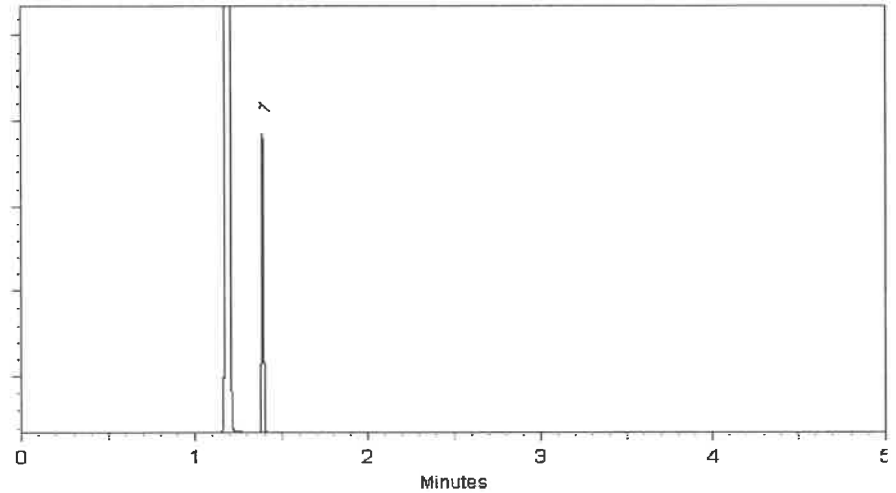
FID

**Split Vent:**

100 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Sam Moodler*  
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 Balance Serial # B707717271

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0196453  
**Description :** 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** March 31, 2028 **Storage:** 0°C or colder  
**Ship:** Ambient

S11749  
↓  
S11794 } RC / 11/30/23

### CERTIFIED VALUES

| Elution Order | Compound    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dioxane | 123-91-1 | SHBN3770 | 99%    | 2,013.0 µg/mL               | +/- 25.0521                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**

80°C (hold 0.1 min.) to 330°C  
@ 9.6°C/min. (hold 2.86 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

340°C

**Det. Type:**

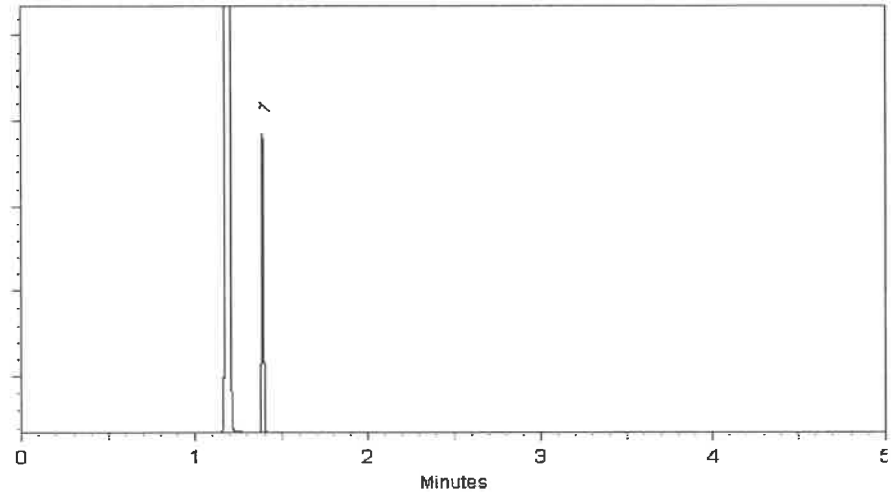
FID

**Split Vent:**

100 mL/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Sam Moodler*  
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Catalog No. : 31853

Lot No.: A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : March 31, 2028

Storage: 0°C or colder

Ship: Ambient

S11749  
↓  
S11794 } RC / 11/30/23

### CERTIFIED VALUES

| Elution Order | Compound    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dioxane | 123-91-1 | SHBN3770 | 99%    | 2,013.0 µg/mL               | +/- 25.0521                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride

CAS # 75-09-2

Purity 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**

80°C (hold 0.1 min.) to 330°C  
@ 9.6°C/min. (hold 2.86 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

340°C

**Det. Type:**

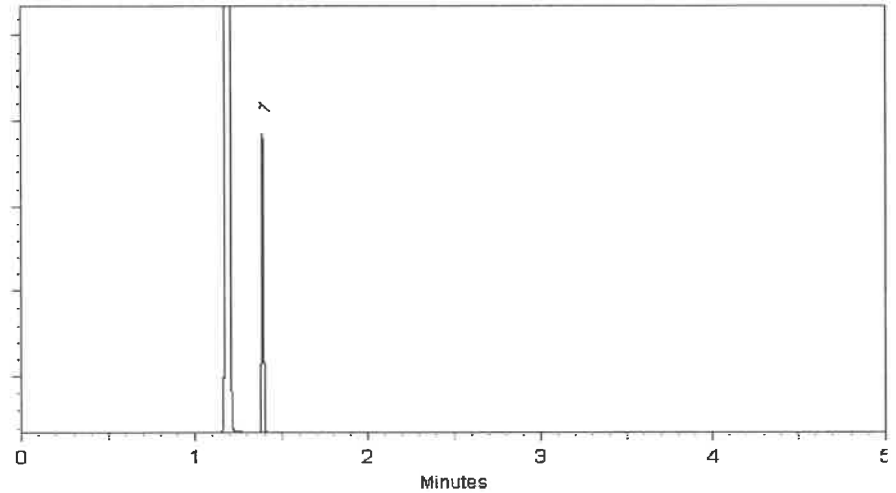
FID

**Split Vent:**

100 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Sam Moodler*  
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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### Purity Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

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$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

**Catalog No. :** 31853 **Lot No.:** A0196453  
**Description :** 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** March 31, 2028 **Storage:** 0°C or colder  
**Ship:** Ambient

S11749  
↓  
S11794 } RC / 11/30/23

### CERTIFIED VALUES

| Elution Order | Compound    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dioxane | 123-91-1 | SHBN3770 | 99%    | 2,013.0 µg/mL               | +/- 25.0521                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**

80°C (hold 0.1 min.) to 330°C  
@ 9.6°C/min. (hold 2.86 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

340°C

**Det. Type:**

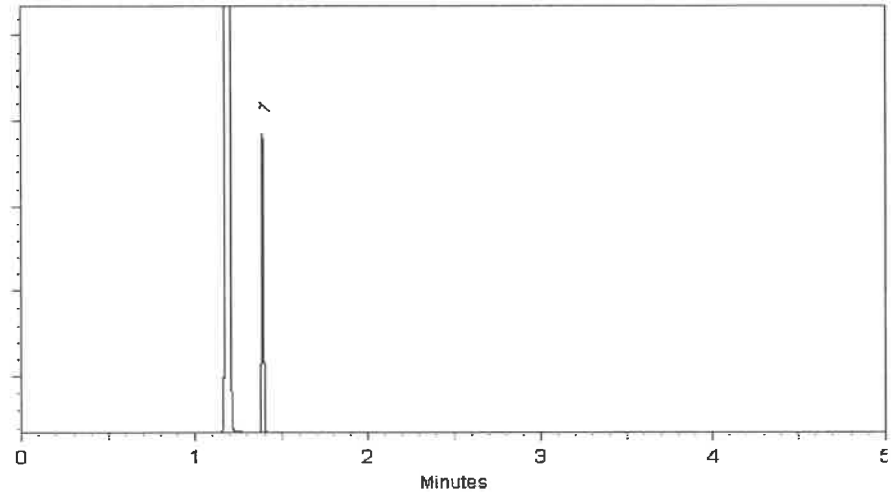
FID

**Split Vent:**

100 mL/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Sam Moodler*  
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 Balance Serial # B707717271

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.







5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

| Catalog No.: | Lot No.: | Storage: | Solvent:     | Exp. Date: | Description:                             |                     |
|--------------|----------|----------|--------------|------------|------------------------------------------|---------------------|
| Z-020223-01  | 454157   | ≤ -10 °C | P/T Methanol | 6/10/2026  | 1,4-Dioxane Solution, 2000 mg/L,<br>1 mL |                     |
| Compound     |          |          | CAS No.      | Purity (%) | Compound Lot No.                         | Concentration, mg/L |
| 1,4-dioxane  |          |          | 123-91-1     | 100        | 223.1.3P                                 | 1997 ± 57.08        |

512112 } RC/  
↓  
912116 } 03/08/24

\*Not a certified value

Certified By: \_\_\_\_\_

*Melissa Workoff*  
Melissa Workoff  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0203726

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/  
↓ 03/18/24  
512146 }

### CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBP6240    | 99%    | 1,001.6 µg/mL               | +/- 36.4412                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | 230209JLM   | 99%    | 1,005.9 µg/mL               | +/- 36.5968                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.3 µg/mL               | +/- 36.5038                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,005.8 µg/mL               | +/- 36.5928                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | SHBL6942    | 99%    | 1,008.1 µg/mL               | +/- 36.6776                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,001.8 µg/mL               | +/- 36.4492                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,002.3 µg/mL               | +/- 36.4654                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,003.7 µg/mL               | +/- 36.5159                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,008.7 µg/mL               | +/- 36.6979                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBN3835    | 99%    | 1,000.3 µg/mL               | +/- 36.3926                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,003.5 µg/mL               | +/- 36.5099                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,007.3 µg/mL               | +/- 36.6493                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 504.3 µg/mL                 | +/- 18.3500                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.6 µg/mL                 | +/- 18.3237                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,008.3 µg/mL               | +/- 36.6857                            |
| 16            | Hexachloroethane             | 67-72-1  | QTORH       | 99%    | 1,007.5 µg/mL               | +/- 36.6554                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,008.6 µg/mL               | +/- 36.6938                            |

|    |                                               |           |             |     |         |       |             |
|----|-----------------------------------------------|-----------|-------------|-----|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCC9506    | 99% | 1,005.9 | µg/mL | +/- 36.5988 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710    | 99% | 1,003.2 | µg/mL | +/- 36.4998 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK       | 99% | 1,003.8 | µg/mL | +/- 36.5200 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 13670200    | 99% | 1,002.1 | µg/mL | +/- 36.4573 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCBZ6787    | 99% | 1,003.7 | µg/mL | +/- 36.5180 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900    | 99% | 1,007.6 | µg/mL | +/- 36.6574 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057    | 99% | 1,008.3 | µg/mL | +/- 36.6837 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217    | 99% | 1,001.3 | µg/mL | +/- 36.4290 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | RP230823RSR | 98% | 1,008.3 | µg/mL | +/- 36.6829 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461    | 99% | 1,003.1 | µg/mL | +/- 36.4937 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBK0259    | 96% | 1,001.9 | µg/mL | +/- 36.4505 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8   | 98% | 1,000.0 | µg/mL | +/- 36.3838 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L  | 98% | 1,008.5 | µg/mL | +/- 36.6909 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBJ5914    | 99% | 1,004.4 | µg/mL | +/- 36.5442 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | FHN01       | 98% | 1,001.9 | µg/mL | +/- 36.4512 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O       | 99% | 1,001.1 | µg/mL | +/- 36.4230 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP230531    | 99% | 1,002.9 | µg/mL | +/- 36.4876 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP230816    | 99% | 1,005.7 | µg/mL | +/- 36.5887 |
| 36 | Acenaphthylene                                | 208-96-8  | p06V        | 98% | 1,009.5 | µg/mL | +/- 36.7265 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | 1-DXX-24-1  | 99% | 1,004.4 | µg/mL | +/- 36.5422 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K  | 99% | 1,005.9 | µg/mL | +/- 36.5968 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833    | 99% | 1,003.2 | µg/mL | +/- 36.4998 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP230428    | 99% | 1,002.2 | µg/mL | +/- 36.4634 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169    | 99% | 1,009.3 | µg/mL | +/- 36.7221 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP230822RSR | 99% | 1,003.9 | µg/mL | +/- 36.5240 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | DR230417RSR | 99% | 1,002.0 | µg/mL | +/- 36.4553 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCD9952    | 99% | 1,006.7 | µg/mL | +/- 36.6251 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | MKAA0690V   | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | RP230627    | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-30126    | 99% | 1,008.7 | µg/mL | +/- 36.6979 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP230919    | 99% | 1,006.3 | µg/mL | +/- 36.6130 |
| 49 | Fluorene                                      | 86-73-7   | 10241100    | 99% | 1,008.3 | µg/mL | +/- 36.6857 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248    | 99% | 1,003.8 | µg/mL | +/- 36.5220 |
| 51 | Diethylphthalate                              | 84-66-2   | MKCD2547    | 99% | 1,008.6 | µg/mL | +/- 36.6958 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111    | 99% | 1,001.1 | µg/mL | +/- 36.4230 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | 230718JLM   | 99% | 1,002.0 | µg/mL | +/- 36.4553 |

|    |                            |          |               |     |         |       |             |
|----|----------------------------|----------|---------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCH1042      | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887      | 99% | 1,005.8 | µg/mL | +/- 36.5928 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361      | 99% | 1,003.0 | µg/mL | +/- 36.4917 |
| 57 | Hexachlorobenzene          | 118-74-1 | 14821700      | 99% | 1,007.5 | µg/mL | +/- 36.6554 |
| 58 | Pentachlorophenol          | 87-86-5  | RP230530RSR   | 99% | 1,008.8 | µg/mL | +/- 36.7019 |
| 59 | Phenanthrene               | 85-01-8  | MKCQ8876      | 99% | 1,008.4 | µg/mL | +/- 36.6877 |
| 60 | Anthracene                 | 120-12-7 | MKCR0570      | 99% | 1,009.0 | µg/mL | +/- 36.7100 |
| 61 | Carbazole                  | 86-74-8  | 14351100      | 99% | 1,000.9 | µg/mL | +/- 36.4149 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337      | 99% | 1,007.6 | µg/mL | +/- 36.6595 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728      | 99% | 1,009.6 | µg/mL | +/- 36.7302 |
| 64 | Pyrene                     | 129-00-0 | BCCG8479      | 98% | 1,007.2 | µg/mL | +/- 36.6453 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018       | 99% | 1,002.1 | µg/mL | +/- 36.4573 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988      | 99% | 1,005.2 | µg/mL | +/- 36.5705 |
| 67 | Benz(a)anthracene          | 56-55-3  | I220012022BAA | 99% | 1,002.2 | µg/mL | +/- 36.4614 |
| 68 | Chrysene                   | 218-01-9 | RP230601      | 99% | 1,008.3 | µg/mL | +/- 36.6837 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCQ3468      | 99% | 1,001.8 | µg/mL | +/- 36.4472 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 14382700      | 99% | 1,006.0 | µg/mL | +/- 36.6008 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 012013B       | 99% | 1,002.8 | µg/mL | +/- 36.4836 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K       | 99% | 1,003.0 | µg/mL | +/- 36.4917 |
| 73 | Benzo(a)pyrene             | 50-32-8  | P54915-0703   | 99% | 1,002.3 | µg/mL | +/- 36.4674 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9  | 97% | 1,009.4 | µg/mL | +/- 36.7243 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1    | 99% | 1,007.6 | µg/mL | +/- 36.6595 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP231003RSR   | 99% | 1,002.9 | µg/mL | +/- 36.4876 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%





110 Benner Circle  
Bellefonte, PA 16823-8812  
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Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206

**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder

**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                           |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                           |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

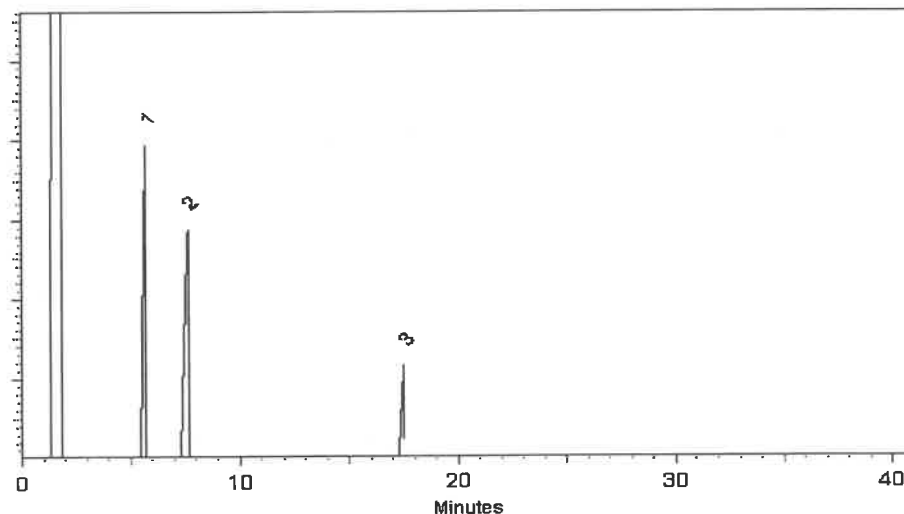
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397





110 Benner Circle  
Bellefonte, PA 16823-8812  
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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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**Catalog No. :** 31087 **Lot No.:** A0206206  
**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                           |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                           |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

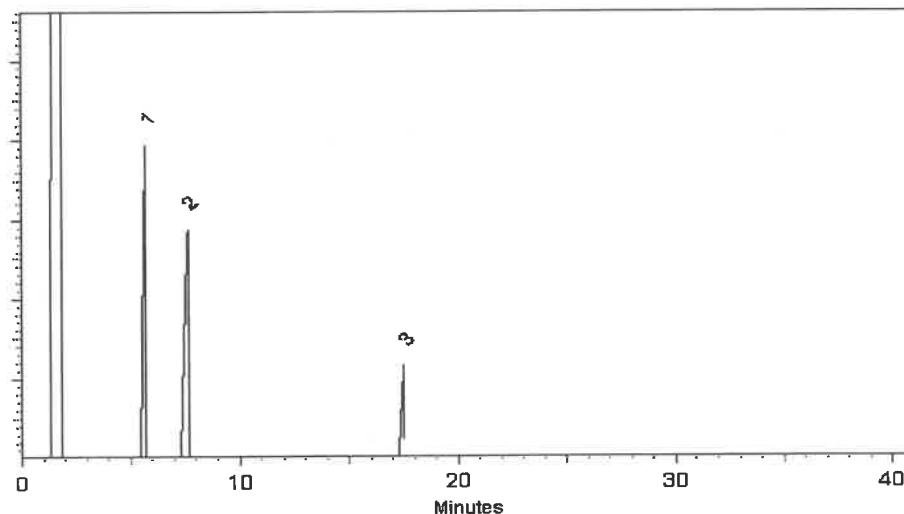
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206  
**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                           |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                           |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

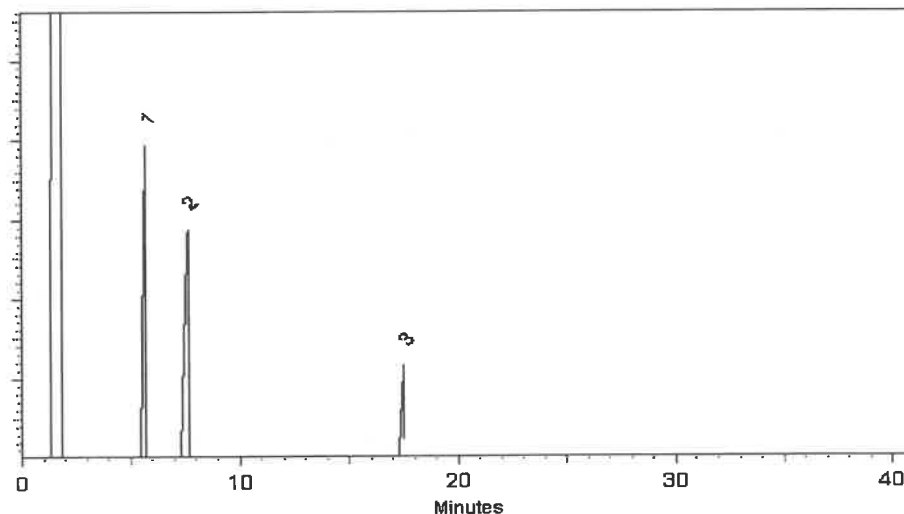
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015  
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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



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**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                           |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                           |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

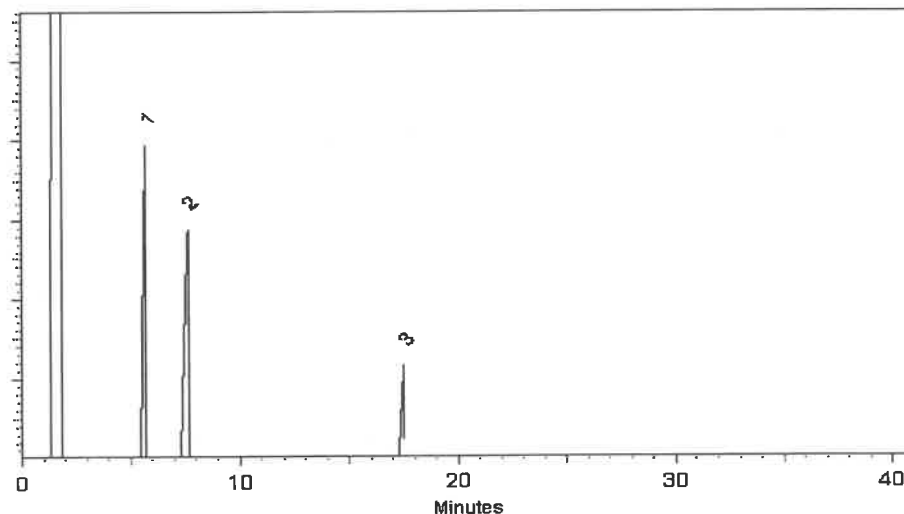
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206  
**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                           |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                           |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

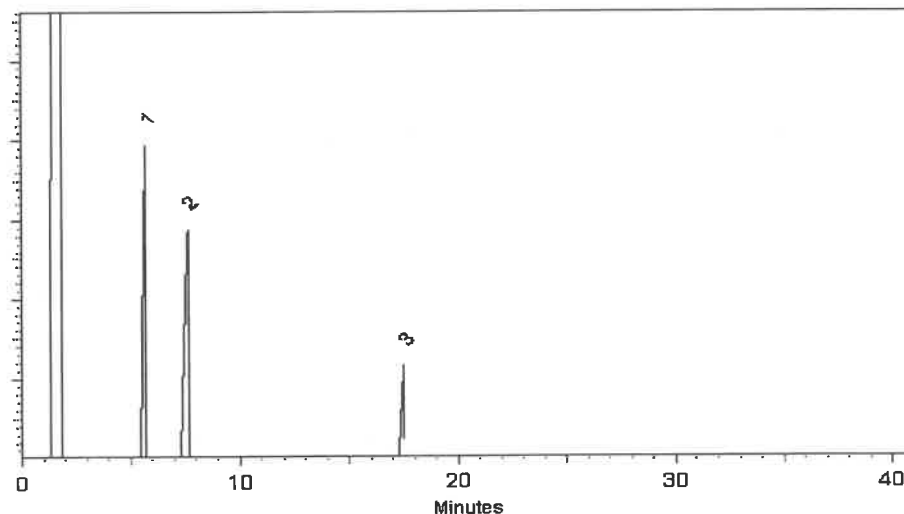
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

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**Catalog No. :** 31087 **Lot No.:** A0206206  
**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                           |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                           |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

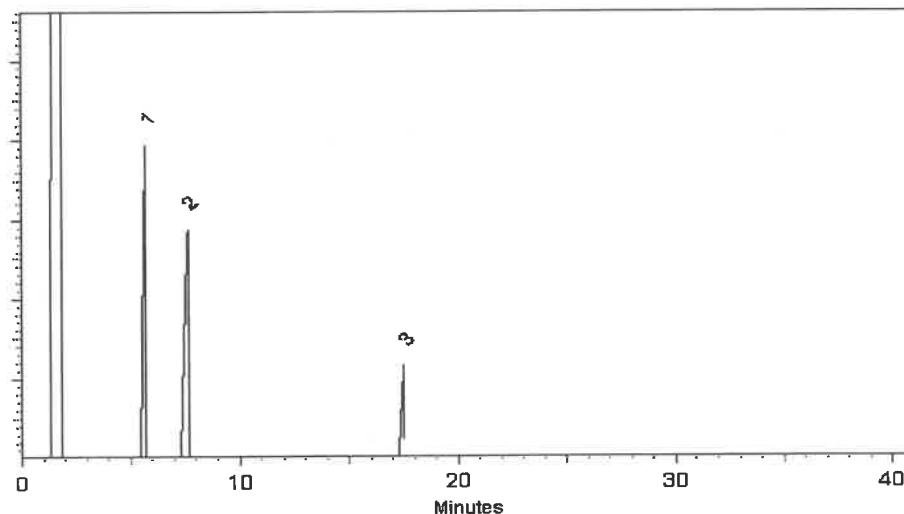
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206

**Description :** Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder

**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty* (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|---------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                          |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                          |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                          |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

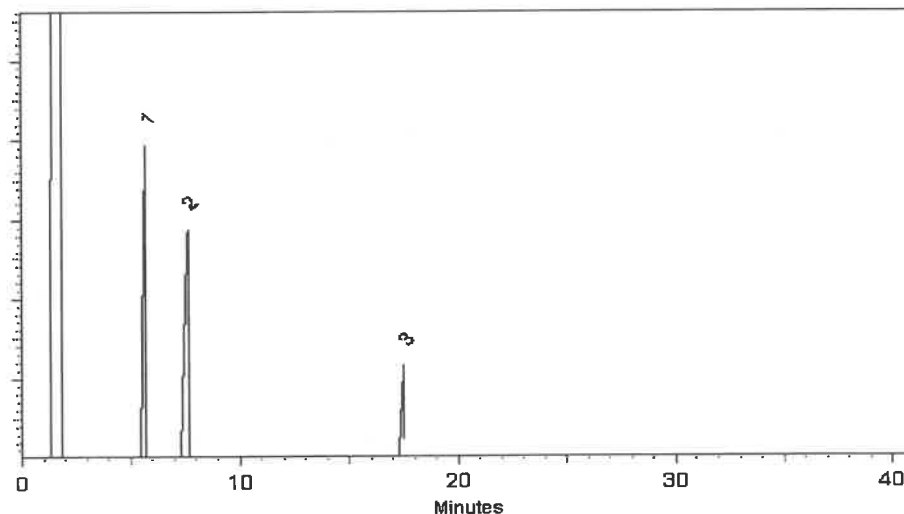
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



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*Penelope S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 } RC/  
↓  
S12221 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

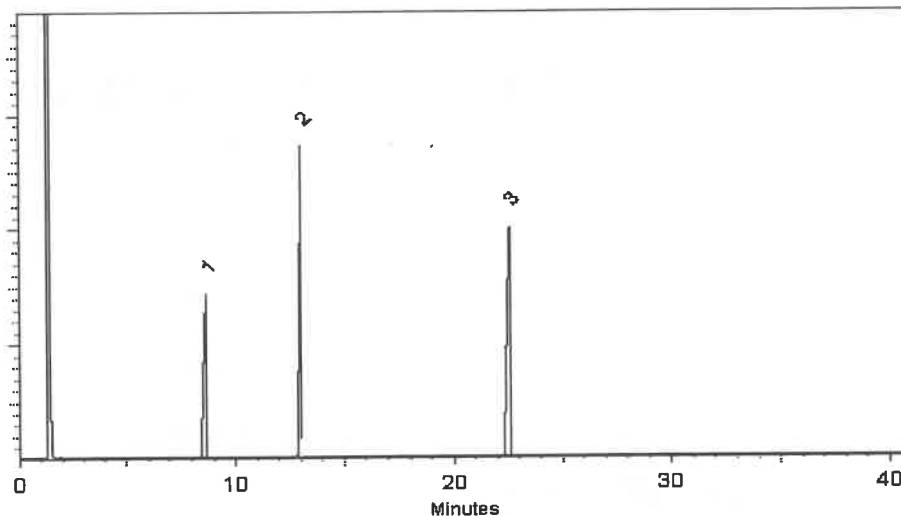
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 } RC/  
↓  
S12221 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

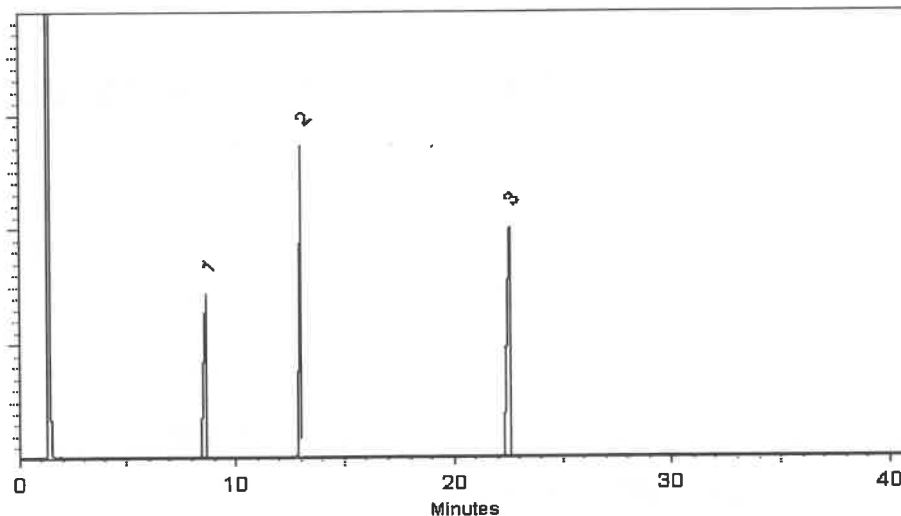
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015  
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Certificate #FM 80397





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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 } RC/  
↓  
S12221 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

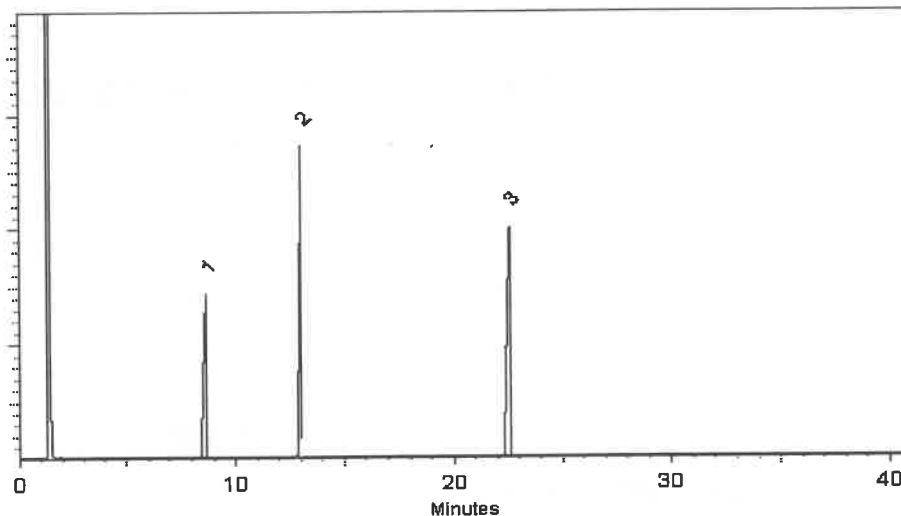
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015  
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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 } RC/  
↓  
S12221 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

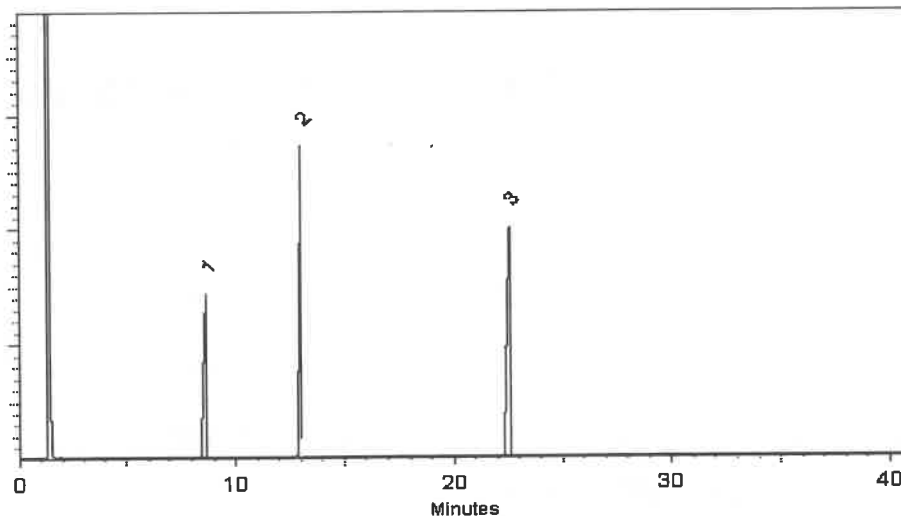
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 } RC/  
↓  
S12221 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

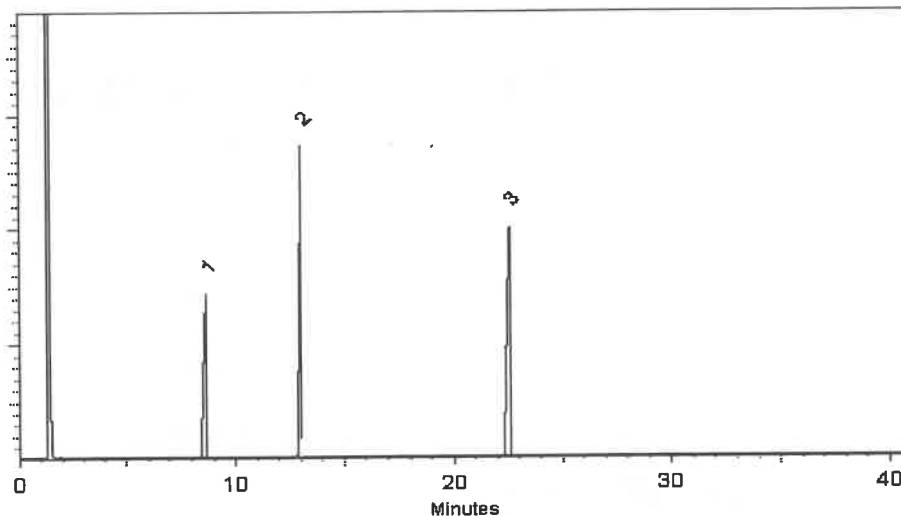
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



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Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 } RC/  
↓  
S12221 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

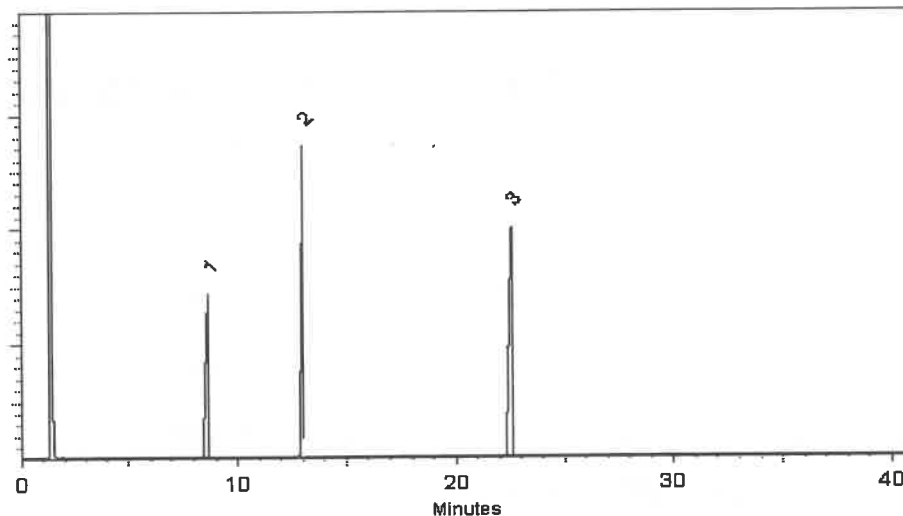
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397





110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

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S12221 } 03/18/24

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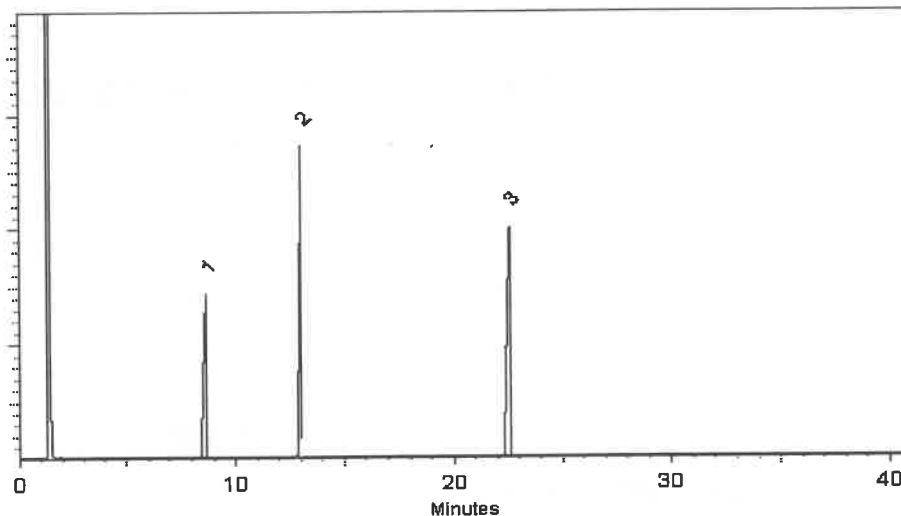
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S12221 } 03/18/24

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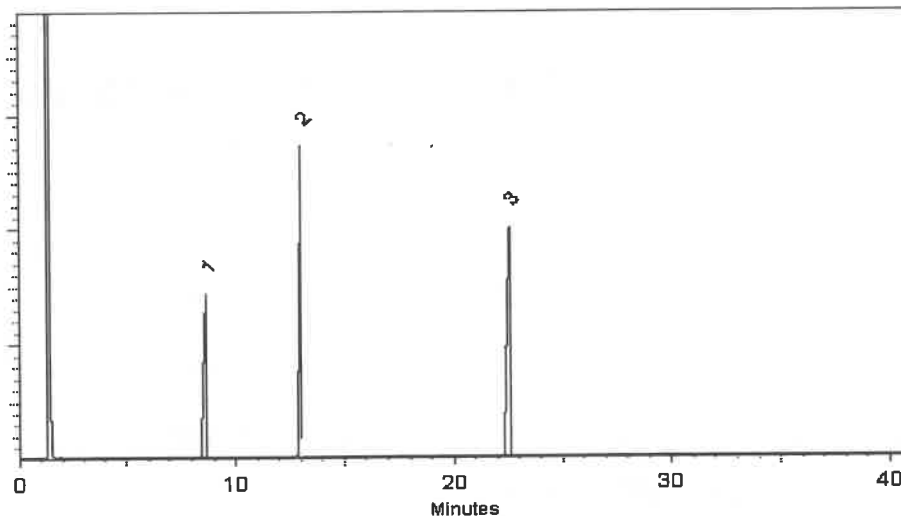
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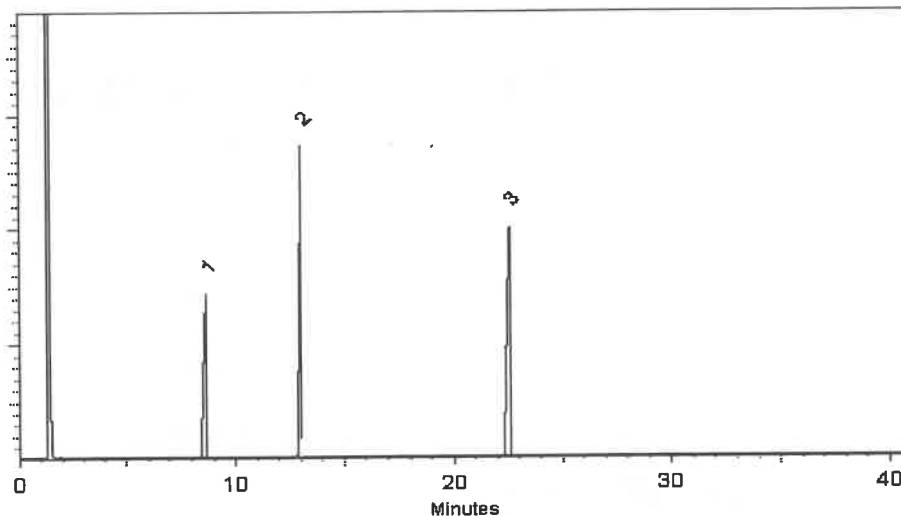
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5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 4

|                     |                 |                 |                    |                   |                                                                |
|---------------------|-----------------|-----------------|--------------------|-------------------|----------------------------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                                            |
| Z-110381-01         | 520963          | ≤ -10 °C        | Methylene Chloride | 10/10/2028        | Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL |

| Compound                          | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-----------------------------------|----------|------------|------------------|---------------------|
| acenaphthene                      | 83-32-9  | 99.9       | 13.1.5P          | 1010 ± 9.89         |
| acenaphthylene                    | 208-96-8 | 97.6       | 14.290.1P        | 1014 ± 9.93         |
| aniline                           | 62-53-3  | 99.97      | 64.1.4P          | 1001 ± 9.8          |
| anthracene                        | 120-12-7 | 99.5       | 15.7.1P          | 999.6 ± 9.79        |
| azobenzene                        | 103-33-3 | 98.1       | 252.7.2P         | 999.1 ± 9.8         |
| benzo[a]anthracene                | 56-55-3  | 100        | 16.7.3P          | 1007 ± 9.86         |
| benzo[b]fluoranthene              | 205-99-2 | 99.8       | 17.421.3P        | 1011 ± 14.11        |
| benzo[k]fluoranthene              | 207-08-9 | 98.9       | 18.421.4P        | 1001 ± 10.96        |
| benzo[ghi]perylene                | 191-24-2 | 93         | 19.286.4P        | 999.6 ± 13.95       |
| benzo[a]pyrene                    | 50-32-8  | 97         | 20.286.2P        | 999.9 ± 22.24       |
| benzyl alcohol                    | 100-51-6 | 99.9       | 65.18.1P         | 1001 ± 9.82         |
| bis(2-chloroethoxy)methane        | 111-91-1 | 99.1       | 31.3.15P         | 1000 ± 14.69        |
| bis(2-chloroethyl)ether           | 111-44-4 | 99.8       | 32.7.1P          | 1003 ± 13.89        |
| bis(2-chloro-1-methylethyl) ether | 108-60-1 | 99.5       | 34.3.15P         | 999.4 ± 14.68       |
| bis(2-ethylhexyl)adipate          | 103-23-1 | 99.5       | 874.7.1P         | 999.5 ± 9.8         |
| bis(2-ethylhexyl)phthalate        | 117-81-7 | 99.4       | 33.29.1P         | 998.8 ± 17.03       |
| 4-bromophenyl phenyl ether        | 101-55-3 | 99.4       | 35.7.1.1P        | 1000 ± 13.85        |
| butyl benzyl phthalate            | 85-68-7  | 98.4       | 36.1.6P          | 984.7 ± 16.79       |
| carbazole                         | 86-74-8  | 99.4       | 239.7.2P         | 1000 ± 9.8          |

\*Not a certified value

512270 } RC/  
↓  
512274 } 05/24/24

*Kerry Kane*

Certified By: \_\_\_\_\_

Kerry Kane  
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.

# Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| Compound                   | CAS No.   | Purity (%) | Compound Lot No. | Concentration, mg/L |
|----------------------------|-----------|------------|------------------|---------------------|
| 4-chloroaniline            | 106-47-8  | 100        | 66.7.1P          | 1000 ± 9.79         |
| 4-chlorophenylphenyl ether | 7005-72-3 | 98         | 37.158.2P        | 1001 ± 17.07        |
| 4-chloro-3-methylphenol    | 59-50-7   | 99         | 102.1.2P         | 1006 ± 17.16        |
| 2-chloronaphthalene        | 91-58-7   | 99.9       | 42.7.6P          | 1000 ± 9.79         |
| 2-chlorophenol             | 95-57-8   | 99.8       | 103.7.1P         | 1007 ± 13.96        |
| chrysene                   | 218-01-9  | 96         | 21.286.2P        | 998.4 ± 12.85       |
| dibenz[a,h]anthracene      | 53-70-3   | 99.44      | 22.286.3P        | 1000 ± 9.74         |
| dibenzofuran               | 132-64-9  | 100        | 67.7.2.1P        | 1002 ± 9.77         |
| di-n-butyl phthalate       | 84-74-2   | 99.84      | 40.286.1P        | 1007 ± 24.48        |
| 1,2-dichlorobenzene        | 95-50-1   | 99.8       | 43.7.1P          | 1000 ± 9.79         |
| 1,3-dichlorobenzene        | 541-73-1  | 99.5       | 44.1.3P          | 999.4 ± 9.79        |
| 1,4-dichlorobenzene        | 106-46-7  | 99.9       | 45.29.2P         | 1000 ± 9.79         |
| 2,4-dichlorophenol         | 120-83-2  | 99.6       | 104.7.1.1P       | 1005 ± 13.93        |
| diethyl phthalate          | 84-66-2   | 99.8       | 38.7.1P          | 1011 ± 14           |
| 2,4-dimethylphenol         | 105-67-9  | 99.6       | 105.7.1.1P       | 1009 ± 13.98        |
| dimethyl phthalate         | 131-11-3  | 99.9       | 39.9.2P          | 996.5 ± 13.8        |
| 1,2-dinitrobenzene         | 528-29-0  | 99.86      | 86.7.3.1P        | 999.5 ± 9.75        |
| 1,3-dinitrobenzene         | 99-65-0   | 100        | 313.7.2P         | 998 ± 9.79          |
| 1,4-dinitrobenzene         | 100-25-4  | 100        | 907.7.1P         | 999.5 ± 9.8         |
| 2,4-dinitrophenol          | 51-28-5   | 99.9       | 106.1.6DP        | 1002 ± 13.89        |
| 2,4-dinitrotoluene         | 121-14-2  | 100        | 87.7.3P          | 999.8 ± 13.85       |
| 2,6-dinitrotoluene         | 606-20-2  | 99.4       | 88.7.2.1P        | 999.6 ± 13.85       |
| di-n-octyl phthalate       | 117-84-0  | 99.1       | 41.7.5P          | 991.6 ± 13.74       |
| diphenylamine              | 122-39-4  | 100        | 78.1.6P          | 998 ± 13.79         |
| 2,3,5,6-tetrachlorophenol  | 935-95-5  | 97         | 1112.286.1P      | 1004 ± 14.02        |
| fluoranthene               | 206-44-0  | 98.6       | 23.7.4P          | 999.6 ± 9.79        |
| fluorene                   | 86-73-7   | 98.4       | 24.7.1P          | 999.7 ± 9.79        |

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Chemist

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|----------------------------|----------|------------|------------------|---------------------|
| hexachlorobenzene          | 118-74-1 | 99         | 46.158.4P        | 999.9 ± 13.96       |
| hexachlorobutadiene        | 87-68-3  | 97.4       | 47.1.4P          | 1000 ± 9.79         |
| hexachlorocyclopentadiene  | 77-47-4  | 99.2       | 48.2.2P          | 1001 ± 9.8          |
| hexachloroethane           | 67-72-1  | 99.9       | 49.1.4P          | 1003 ± 9.82         |
| indeno[1,2,3-cd]pyrene     | 193-39-5 | 98         | 25.286.4P        | 999.4 ± 22.23       |
| isophorone                 | 78-59-1  | 98.9       | 90.1.4P          | 999.9 ± 13.85       |
| 2-methyl-4,6-dinitrophenol | 534-52-1 | 99.6       | 107.421.2DP      | 991 ± 24.09         |
| 1-methylnaphthalene        | 90-12-0  | 97.1       | 249.7.5P         | 999.2 ± 13.95       |
| 2-methylnaphthalene        | 91-57-6  | 97.4       | 68.7.2P          | 1006 ± 22.38        |
| 2-methylphenol             | 95-48-7  | 99.6       | 114.7.3P         | 1001 ± 13.87        |
| 3-methylphenol             | 108-39-4 | 99.1       | 115.7.4P         | 499.7 ± 6.92        |
| 4-methylphenol             | 106-44-5 | 99.5       | 116.7.1P         | 501.2 ± 6.94        |
| naphthalene                | 91-20-3  | 99.8       | 26.9.1P          | 1018 ± 9.97         |
| 2-nitroaniline             | 88-74-4  | 99.7       | 69.29.1P         | 999.6 ± 9.79        |
| 3-nitroaniline             | 99-09-2  | 100        | 70.7.3P          | 1000 ± 9.74         |
| 4-nitroaniline             | 100-01-6 | 99.7       | 71.29.1P         | 1001 ± 9.8          |
| nitrobenzene               | 98-95-3  | 100        | 94.7.1P          | 1000 ± 13.85        |
| 2-nitrophenol              | 88-75-5  | 99.1       | 108.29.1P        | 996.5 ± 13.81       |
| 4-nitrophenol              | 100-02-7 | 100        | 109.7.1P         | 1000 ± 13.82        |
| N-nitrosodimethylamine     | 62-75-9  | 99.5       | 57.3.19P         | 998.5 ± 14.67       |
| N-nitrosodi-n-propylamine  | 621-64-7 | 99.8       | 59.286.1P        | 996.8 ± 17          |
| pentachlorophenol          | 87-86-5  | 99         | 110.1.7P         | 1004 ± 13.92        |
| phenanthrene               | 85-01-8  | 99.7       | 27.1.5P          | 999 ± 12.87         |
| phenol                     | 108-95-2 | 100        | 112.7.1P         | 998.5 ± 13.8        |
| pyrene                     | 129-00-0 | 99.2       | 28.9.2P          | 998.9 ± 9.78        |
| pyridine                   | 110-86-1 | 100        | 101.24.1P        | 999 ± 9.73          |
| 2,3,4,6-Tetrachlorophenol  | 58-90-2  | 91.8       | 120.421.1P       | 996.5 ± 13.92       |

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Page 4 of 4

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Lot No.: 520963

Expiration Date: 10/10/2028

| <u>Compound</u>        | <u>CAS No.</u> | <u>Purity (%)</u> | <u>Compound Lot No.</u> | <u>Concentration, mg/L</u> |
|------------------------|----------------|-------------------|-------------------------|----------------------------|
| 1,2,4-trichlorobenzene | 120-82-1       | 99.6              | 54.29.1P                | 999.6 ± 9.79               |
| 2,4,5-trichlorophenol  | 95-95-4        | 96.5              | 121.7.1.1P              | 999.5 ± 13.85              |
| 2,4,6-trichlorophenol  | 88-06-2        | 99.6              | 113.7.1P                | 996 ± 13.8                 |

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5580 Skylane Blvd  
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Manufacturer's Quality System  
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by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

| Catalog No.: | Lot No.: | Storage: | Solvent:           | Exp. Date: | Description:                             |
|--------------|----------|----------|--------------------|------------|------------------------------------------|
| Z-010442-07  | 495833   | ≤ -10 °C | Methylene Chloride | 1/16/2028  | Benzaldehyde Solution, 1000 mg/L, 1.3 mL |

| Compound     | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|--------------|----------|------------|------------------|---------------------|
| benzaldehyde | 100-52-7 | 98.3       | 442.421.1P       | 996.8 ± 11.49       |

512275 } RC/  
↓  
512279 } 05/24/24

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Certified By: \_\_\_\_\_

*S. Hunter*

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CERTIFIED REFERENCE MATERIAL

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chromatographic plus



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31206 **Lot No.:** A0206540

**Description :** SV Internal Standard Mix 2mg/ml  
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/  
↓ 05/30/24  
S12331

## CERTIFIED VALUES

| Elution Order | Compound               | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dichlorobenzene-d4 | 3855-82-1  | PR-30447 | 99%    | 2,007.1 µg/mL               | +/- 90.4025                            |
| 2             | Naphthalene-d8         | 1146-65-2  | M-2180   | 99%    | 2,005.9 µg/mL               | +/- 90.3454                            |
| 3             | Acenaphthene-d10       | 15067-26-2 | PR-33507 | 99%    | 2,007.9 µg/mL               | +/- 90.4385                            |
| 4             | Phenanthrene-d10       | 1517-22-2  | PR-32303 | 99%    | 2,006.7 µg/mL               | +/- 90.3845                            |
| 5             | Chrysene-d12           | 1719-03-5  | PR-32210 | 99%    | 2,015.5 µg/mL               | +/- 90.7778                            |
| 6             | Perylene-d12           | 1520-96-3  | PR-33205 | 99%    | 2,014.7 µg/mL               | +/- 90.7448                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

75°C (hold 1 min.) to 330°C  
@ 20°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

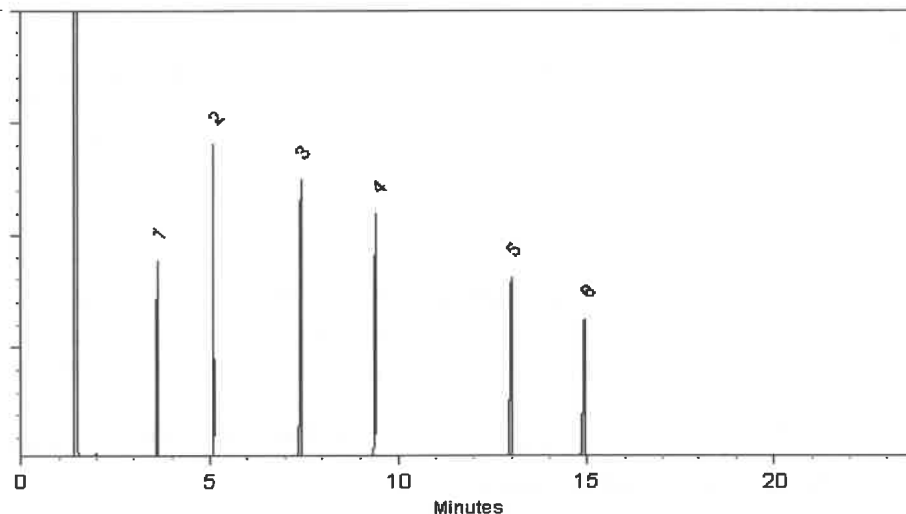
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



110 Benner Circle  
Bellefonte, PA 16823-8812  
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Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 3,3'-Dichlorobenzidine | 91-94-1   | S240326RSR | 99%    | 1,004.0 µg/mL               | +/- 23.0487                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,005.0 µg/mL               | +/- 23.0717                            |
| 3           | Benzidine              | 92-87-5   | S240430RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,000.0 µg/mL               | +/- 22.9569                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

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**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

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**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

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**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
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**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

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### CERTIFIED VALUES

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**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
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**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
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**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

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**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

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**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

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- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle  
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Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 3,3'-Dichlorobenzidine | 91-94-1   | S240326RSR | 99%    | 1,004.0 µg/mL               | +/- 23.0487                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,005.0 µg/mL               | +/- 23.0717                            |
| 3           | Benzidine              | 92-87-5   | S240430RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,000.0 µg/mL               | +/- 22.9569                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓ 7/24/24  
S12508 }

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

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**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 3,3'-Dichlorobenzidine | 91-94-1   | S240326RSR | 99%    | 1,004.0 µg/mL               | +/- 23.0487                            |
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| 3           | Benzidine              | 92-87-5   | S240430RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,000.0 µg/mL               | +/- 22.9569                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
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Certificate #FM 80397

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**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 3,3'-Dichlorobenzidine | 91-94-1   | S240326RSR | 99%    | 1,004.0 µg/mL               | +/- 23.0487                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,005.0 µg/mL               | +/- 23.0717                            |
| 3           | Benzidine              | 92-87-5   | S240430RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,000.0 µg/mL               | +/- 22.9569                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
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## General Certified Reference Material Notes

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**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 3,3'-Dichlorobenzidine | 91-94-1   | S240326RSR | 99%    | 1,004.0 µg/mL               | +/- 23.0487                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,005.0 µg/mL               | +/- 23.0717                            |
| 3           | Benzidine              | 92-87-5   | S240430RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,000.0 µg/mL               | +/- 22.9569                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



## General Certified Reference Material Notes

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,010.0 µg/mL               | +/- 29.688874                          |
| 5           | Biphenyl                   | 92-52-4  | MKCS5928     | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12509 } RC/  
↓  
S12568 } 7/24/24

  
Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,010.0 µg/mL               | +/- 29.688874                          |
| 5           | Biphenyl                   | 92-52-4  | MKCS5928     | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12509 } RC/  
↓  
S12568 } 7/24/24

  
Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
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## General Certified Reference Material Notes

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# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,010.0 µg/mL               | +/- 29.688874                          |
| 5           | Biphenyl                   | 92-52-4  | MKCS5928     | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12509 } RC/  
↓  
S12568 } 7/24/24

  
Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

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Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,010.0 µg/mL               | +/- 29.688874                          |
| 5           | Biphenyl                   | 92-52-4  | MKCS5928     | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12509 } RC/  
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S12568 } 7/24/24

  
Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015  
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gravimetric



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**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

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**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

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Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

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Manufactured under Restek's ISO 9001:2015  
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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



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**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
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| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
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**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

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↓  
S12568 } 7/24/24

  
Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015  
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**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

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**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

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**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

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↓  
S12568 } 7/24/24

  
Jess Hoy - Operations Tech I

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**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

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**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

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S12568 } 7/24/24

  
Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

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- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,010.0 µg/mL               | +/- 29.688874                          |
| 5           | Biphenyl                   | 92-52-4  | MKCS5928     | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12509 } RC/  
↓  
S12568 } 7/24/24

  
Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31615 **Lot No.:** A0212955

**Description :** GC/MS Tuning Mixture  
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2027 **Storage:** 10°C or colder

**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound                             | CAS #     | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------------------|-----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pentachlorophenol                    | 87-86-5   | RP240517RSR | 99%    | 1,004.5 µg/mL               | +/- 44.8902                            |
| 2             | DFTPP (Decafluorotriphenylphosphine) | 5074-71-5 | Q117-147    | 99%    | 1,004.5 µg/mL               | +/- 44.8902                            |
| 3             | Benzidine                            | 92-87-5   | S240430RSR  | 99%    | 1,006.0 µg/mL               | +/- 44.9572                            |
| 4             | 4,4'-DDT                             | 50-29-3   | S240530RSR  | 97%    | 1,000.1 µg/mL               | +/- 44.6922                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12577 } RC  
↓  
S12579 } 8/2/24

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

75°C (hold 1 min.) to 330°C  
@ 20°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

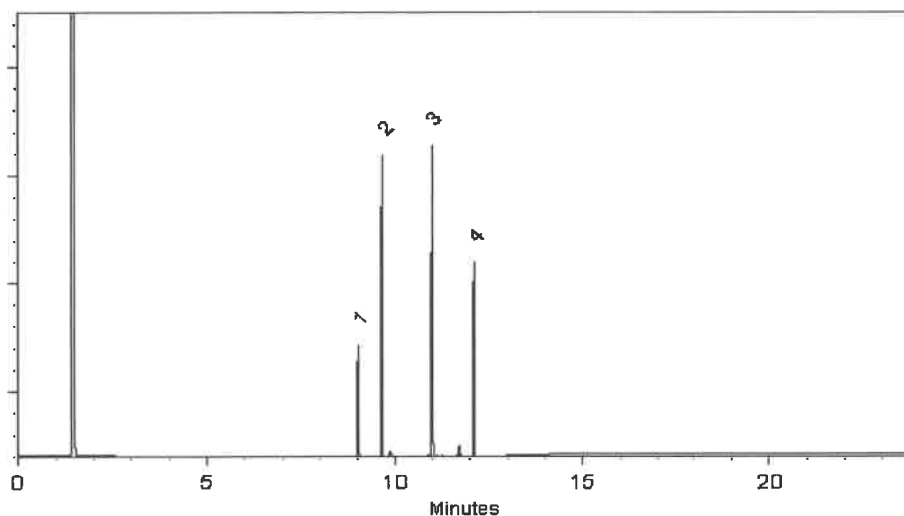
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

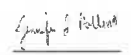


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024

Balance Serial # 1128353505

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31206 **Lot No.:** A0212266

**Description :** SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2030 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound               | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dichlorobenzene-d4 | 3855-82-1  | PR-30447 | 99%    | 2,000.6 µg/mL               | +/- 90.1075                            |
| 2             | Naphthalene-d8         | 1146-65-2  | M-2180   | 99%    | 2,000.3 µg/mL               | +/- 90.0925                            |
| 3             | Acenaphthene-d10       | 15067-26-2 | PR-33507 | 99%    | 2,000.4 µg/mL               | +/- 90.1000                            |
| 4             | Phenanthrene-d10       | 1517-22-2  | PR-34099 | 99%    | 2,000.5 µg/mL               | +/- 90.1037                            |
| 5             | Chrysene-d12           | 1719-03-5  | PR-33506 | 99%    | 2,000.7 µg/mL               | +/- 90.1112                            |
| 6             | Perylene-d12           | 1520-96-3  | PR-33205 | 99%    | 2,000.6 µg/mL               | +/- 90.1075                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12645  
↓  
S12674 } AC  
10/1/24





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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31206 **Lot No.:** A0212266

**Description :** SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2030 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound               | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dichlorobenzene-d4 | 3855-82-1  | PR-30447 | 99%    | 2,000.6 µg/mL               | +/- 90.1075                            |
| 2             | Naphthalene-d8         | 1146-65-2  | M-2180   | 99%    | 2,000.3 µg/mL               | +/- 90.0925                            |
| 3             | Acenaphthene-d10       | 15067-26-2 | PR-33507 | 99%    | 2,000.4 µg/mL               | +/- 90.1000                            |
| 4             | Phenanthrene-d10       | 1517-22-2  | PR-34099 | 99%    | 2,000.5 µg/mL               | +/- 90.1037                            |
| 5             | Chrysene-d12           | 1719-03-5  | PR-33506 | 99%    | 2,000.7 µg/mL               | +/- 90.1112                            |
| 6             | Perylene-d12           | 1520-96-3  | PR-33205 | 99%    | 2,000.6 µg/mL               | +/- 90.1075                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12645 } AC  
↓  
S12674 } 10/1/24



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

|              |          |          |                    |            |                                           |
|--------------|----------|----------|--------------------|------------|-------------------------------------------|
| Catalog No.: | Lot No.: | Storage: | Solvent:           | Exp. Date: | Description:                              |
| Z-110816-01  | 414127   | ≤ -10 °C | Methylene Chloride | 6/21/2025  | Custom 8270 Mix, 4-79,<br>1000 mg/L, 1 mL |

| Compound    | CAS No.   | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-------------|-----------|------------|------------------|---------------------|
| atrazine    | 1912-24-9 | 99.5       | 337.7.3P         | 997 ± 5.81          |
| benzidine   | 92-87-5   | 99.9       | 124.18.6.2P      | 991.8 ± 5.77        |
| caprolactam | 105-60-2  | 99.9       | 271.1.6P         | 999 ± 5.82          |

~~512280~~ } RCL  
↓  
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL  
↓  
512794 } 11/12/24

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: \_\_\_\_\_

Shane Overcash  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0219438

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963  
↓  
S12992 } AC  
12/17/24

### CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBP6240    | 99%    | 1,008.3 µg/mL               | +/- 36.6849                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S240313RSR  | 99%    | 1,008.6 µg/mL               | +/- 36.6985                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,002.9 µg/mL               | +/- 36.4893                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,003.0 µg/mL               | +/- 36.4938                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.6 µg/mL               | +/- 36.5894                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,004.1 µg/mL               | +/- 36.5348                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,002.1 µg/mL               | +/- 36.4620                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBL6287    | 99%    | 1,005.3 µg/mL               | +/- 36.5757                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,008.4 µg/mL               | +/- 36.6894                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 502.1 µg/mL                 | +/- 18.2697                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.8 µg/mL                 | +/- 18.3288                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,006.5 µg/mL               | +/- 36.6212                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,002.5 µg/mL               | +/- 36.4757                            |

|    |                                               |           |                  |       |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-------|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99%   | 1,003.4 | µg/mL | +/- 36.5075 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK            | 99%   | 1,006.5 | µg/mL | +/- 36.6212 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCKK6969         | 99%   | 1,001.5 | µg/mL | +/- 36.4393 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99%   | 1,002.1 | µg/mL | +/- 36.4620 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98%   | 1,002.5 | µg/mL | +/- 36.4771 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461         | 99%   | 1,004.5 | µg/mL | +/- 36.5484 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98%   | 990.2   | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L       | 98%   | 1,001.3 | µg/mL | +/- 36.4325 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97%   | 1,004.6 | µg/mL | +/- 36.5505 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99%   | 1,004.3 | µg/mL | +/- 36.5393 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR      | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP240703RSR      | 99%   | 1,002.8 | µg/mL | +/- 36.4847 |
| 36 | Acenaphthylene                                | 208-96-8  | RP241029RSR      | 98%   | 1,000.0 | µg/mL | +/- 36.3835 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99%   | 1,006.3 | µg/mL | +/- 36.6121 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99%   | 1,008.9 | µg/mL | +/- 36.7076 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP240701RSR      | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99%   | 1,004.6 | µg/mL | +/- 36.5530 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | ----% | 1,005.6 | µg/mL | +/- 36.5894 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCN1772         | 99%   | 1,003.5 | µg/mL | +/- 36.5120 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99%   | 1,008.3 | µg/mL | +/- 36.6849 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241029-2-AN    | 99%   | 1,004.8 | µg/mL | +/- 36.5575 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99%   | 1,005.8 | µg/mL | +/- 36.5939 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP231219RSR      | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98%   | 1,000.7 | µg/mL | +/- 36.4102 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248         | 99%   | 1,004.9 | µg/mL | +/- 36.5621 |
| 51 | Diethylphthalate                              | 84-66-2   | BCCJ6241         | 99%   | 1,003.9 | µg/mL | +/- 36.5257 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S241008RSR       | 99%   | 1,001.3 | µg/mL | +/- 36.4302 |

|    |                            |          |              |     |         |       |             |
|----|----------------------------|----------|--------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512     | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887     | 99% | 1,002.4 | µg/mL | +/- 36.4711 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361     | 99% | 1,008.8 | µg/mL | +/- 36.7031 |
| 57 | Hexachlorobenzene          | 118-74-1 | 15458400     | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240517RSR  | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 59 | Phenanthrene               | 85-01-8  | MKCT3391     | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 60 | Anthracene                 | 120-12-7 | 101492T18R   | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 61 | Carbazole                  | 86-74-8  | 15276700     | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337     | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728     | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 64 | Pyrene                     | 129-00-0 | BCKK2592     | 99% | 1,002.0 | µg/mL | +/- 36.4575 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018      | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988     | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 67 | Benz(a)anthracene          | 56-55-3  | I70012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 68 | Chrysene                   | 218-01-9 | RP241007RSR  | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065     | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 15566400     | 99% | 1,002.3 | µg/mL | +/- 36.4666 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 052013B      | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K      | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA        | 98% | 1,006.2 | µg/mL | +/- 36.6108 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9 | 97% | 1,001.8 | µg/mL | +/- 36.4490 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1   | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP241014RSR  | 98% | 1,003.8 | µg/mL | +/- 36.5217 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

#### **Tech Tips:**

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.





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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0219438

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963  
↓  
S12992 } AC  
12/17/24

## CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBP6240    | 99%    | 1,008.3 µg/mL               | +/- 36.6849                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S240313RSR  | 99%    | 1,008.6 µg/mL               | +/- 36.6985                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,002.9 µg/mL               | +/- 36.4893                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,003.0 µg/mL               | +/- 36.4938                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.6 µg/mL               | +/- 36.5894                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,004.1 µg/mL               | +/- 36.5348                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,002.1 µg/mL               | +/- 36.4620                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBL6287    | 99%    | 1,005.3 µg/mL               | +/- 36.5757                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,008.4 µg/mL               | +/- 36.6894                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 502.1 µg/mL                 | +/- 18.2697                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.8 µg/mL                 | +/- 18.3288                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,006.5 µg/mL               | +/- 36.6212                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,002.5 µg/mL               | +/- 36.4757                            |

|    |                                               |           |                  |       |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-------|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99%   | 1,003.4 | µg/mL | +/- 36.5075 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK            | 99%   | 1,006.5 | µg/mL | +/- 36.6212 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCKK6969         | 99%   | 1,001.5 | µg/mL | +/- 36.4393 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99%   | 1,002.1 | µg/mL | +/- 36.4620 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98%   | 1,002.5 | µg/mL | +/- 36.4771 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461         | 99%   | 1,004.5 | µg/mL | +/- 36.5484 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98%   | 990.2   | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L       | 98%   | 1,001.3 | µg/mL | +/- 36.4325 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97%   | 1,004.6 | µg/mL | +/- 36.5505 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99%   | 1,004.3 | µg/mL | +/- 36.5393 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR      | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP240703RSR      | 99%   | 1,002.8 | µg/mL | +/- 36.4847 |
| 36 | Accenaphthylene                               | 208-96-8  | RP241029RSR      | 98%   | 1,000.0 | µg/mL | +/- 36.3835 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99%   | 1,006.3 | µg/mL | +/- 36.6121 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99%   | 1,008.9 | µg/mL | +/- 36.7076 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP240701RSR      | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99%   | 1,004.6 | µg/mL | +/- 36.5530 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | ----% | 1,005.6 | µg/mL | +/- 36.5894 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCN1772         | 99%   | 1,003.5 | µg/mL | +/- 36.5120 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99%   | 1,008.3 | µg/mL | +/- 36.6849 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241029-2-AN    | 99%   | 1,004.8 | µg/mL | +/- 36.5575 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99%   | 1,005.8 | µg/mL | +/- 36.5939 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP231219RSR      | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98%   | 1,000.7 | µg/mL | +/- 36.4102 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248         | 99%   | 1,004.9 | µg/mL | +/- 36.5621 |
| 51 | Diethylphthalate                              | 84-66-2   | BCCJ6241         | 99%   | 1,003.9 | µg/mL | +/- 36.5257 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S241008RSR       | 99%   | 1,001.3 | µg/mL | +/- 36.4302 |



|    |                            |          |              |     |         |       |             |
|----|----------------------------|----------|--------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512     | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887     | 99% | 1,002.4 | µg/mL | +/- 36.4711 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361     | 99% | 1,008.8 | µg/mL | +/- 36.7031 |
| 57 | Hexachlorobenzene          | 118-74-1 | 15458400     | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240517RSR  | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 59 | Phenanthrene               | 85-01-8  | MKCT3391     | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 60 | Anthracene                 | 120-12-7 | 101492T18R   | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 61 | Carbazole                  | 86-74-8  | 15276700     | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337     | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728     | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 64 | Pyrene                     | 129-00-0 | BCKK2592     | 99% | 1,002.0 | µg/mL | +/- 36.4575 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018      | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988     | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 67 | Benz(a)anthracene          | 56-55-3  | I70012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 68 | Chrysene                   | 218-01-9 | RP241007RSR  | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065     | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 15566400     | 99% | 1,002.3 | µg/mL | +/- 36.4666 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 052013B      | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K      | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA        | 98% | 1,006.2 | µg/mL | +/- 36.6108 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9 | 97% | 1,001.8 | µg/mL | +/- 36.4490 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1   | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP241014RSR  | 98% | 1,003.8 | µg/mL | +/- 36.5217 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

#### Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.





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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0219438

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963  
↓  
S12992 } AC  
12/17/24

## CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBP6240    | 99%    | 1,008.3 µg/mL               | +/- 36.6849                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S240313RSR  | 99%    | 1,008.6 µg/mL               | +/- 36.6985                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,002.9 µg/mL               | +/- 36.4893                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,003.0 µg/mL               | +/- 36.4938                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.6 µg/mL               | +/- 36.5894                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,004.1 µg/mL               | +/- 36.5348                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,002.1 µg/mL               | +/- 36.4620                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBL6287    | 99%    | 1,005.3 µg/mL               | +/- 36.5757                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,008.4 µg/mL               | +/- 36.6894                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 502.1 µg/mL                 | +/- 18.2697                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.8 µg/mL                 | +/- 18.3288                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,006.5 µg/mL               | +/- 36.6212                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,002.5 µg/mL               | +/- 36.4757                            |

|    |                                               |           |                  |       |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-------|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99%   | 1,003.4 | µg/mL | +/- 36.5075 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK            | 99%   | 1,006.5 | µg/mL | +/- 36.6212 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCKK6969         | 99%   | 1,001.5 | µg/mL | +/- 36.4393 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99%   | 1,002.1 | µg/mL | +/- 36.4620 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98%   | 1,002.5 | µg/mL | +/- 36.4771 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461         | 99%   | 1,004.5 | µg/mL | +/- 36.5484 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98%   | 990.2   | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L       | 98%   | 1,001.3 | µg/mL | +/- 36.4325 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97%   | 1,004.6 | µg/mL | +/- 36.5505 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99%   | 1,004.3 | µg/mL | +/- 36.5393 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR      | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP240703RSR      | 99%   | 1,002.8 | µg/mL | +/- 36.4847 |
| 36 | Acenaphthylene                                | 208-96-8  | RP241029RSR      | 98%   | 1,000.0 | µg/mL | +/- 36.3835 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99%   | 1,006.3 | µg/mL | +/- 36.6121 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99%   | 1,008.9 | µg/mL | +/- 36.7076 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP240701RSR      | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99%   | 1,004.6 | µg/mL | +/- 36.5530 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | ----% | 1,005.6 | µg/mL | +/- 36.5894 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCN1772         | 99%   | 1,003.5 | µg/mL | +/- 36.5120 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99%   | 1,008.3 | µg/mL | +/- 36.6849 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241029-2-AN    | 99%   | 1,004.8 | µg/mL | +/- 36.5575 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99%   | 1,005.8 | µg/mL | +/- 36.5939 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP231219RSR      | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98%   | 1,000.7 | µg/mL | +/- 36.4102 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248         | 99%   | 1,004.9 | µg/mL | +/- 36.5621 |
| 51 | Diethylphthalate                              | 84-66-2   | BCCJ6241         | 99%   | 1,003.9 | µg/mL | +/- 36.5257 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S241008RSR       | 99%   | 1,001.3 | µg/mL | +/- 36.4302 |

|    |                            |          |              |     |         |       |             |
|----|----------------------------|----------|--------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512     | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887     | 99% | 1,002.4 | µg/mL | +/- 36.4711 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361     | 99% | 1,008.8 | µg/mL | +/- 36.7031 |
| 57 | Hexachlorobenzene          | 118-74-1 | 15458400     | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240517RSR  | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 59 | Phenanthrene               | 85-01-8  | MKCT3391     | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 60 | Anthracene                 | 120-12-7 | 101492T18R   | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 61 | Carbazole                  | 86-74-8  | 15276700     | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337     | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728     | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 64 | Pyrene                     | 129-00-0 | BCKK2592     | 99% | 1,002.0 | µg/mL | +/- 36.4575 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018      | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988     | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 67 | Benz(a)anthracene          | 56-55-3  | I70012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 68 | Chrysene                   | 218-01-9 | RP241007RSR  | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065     | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 15566400     | 99% | 1,002.3 | µg/mL | +/- 36.4666 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 052013B      | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K      | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA        | 98% | 1,006.2 | µg/mL | +/- 36.6108 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9 | 97% | 1,001.8 | µg/mL | +/- 36.4490 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1   | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP241014RSR  | 98% | 1,003.8 | µg/mL | +/- 36.5217 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

#### **Tech Tips:**

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.





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# Certificate of Analysis

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## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0219438

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963  
↓  
S12992 } AC  
12/17/24

## CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBP6240    | 99%    | 1,008.3 µg/mL               | +/- 36.6849                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S240313RSR  | 99%    | 1,008.6 µg/mL               | +/- 36.6985                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,002.9 µg/mL               | +/- 36.4893                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,003.0 µg/mL               | +/- 36.4938                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.6 µg/mL               | +/- 36.5894                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,004.1 µg/mL               | +/- 36.5348                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,002.1 µg/mL               | +/- 36.4620                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBL6287    | 99%    | 1,005.3 µg/mL               | +/- 36.5757                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,008.4 µg/mL               | +/- 36.6894                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 502.1 µg/mL                 | +/- 18.2697                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.8 µg/mL                 | +/- 18.3288                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,006.5 µg/mL               | +/- 36.6212                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,002.5 µg/mL               | +/- 36.4757                            |

|    |                                               |           |                  |       |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-------|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99%   | 1,003.4 | µg/mL | +/- 36.5075 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK            | 99%   | 1,006.5 | µg/mL | +/- 36.6212 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCKK6969         | 99%   | 1,001.5 | µg/mL | +/- 36.4393 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99%   | 1,002.1 | µg/mL | +/- 36.4620 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98%   | 1,002.5 | µg/mL | +/- 36.4771 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461         | 99%   | 1,004.5 | µg/mL | +/- 36.5484 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98%   | 990.2   | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L       | 98%   | 1,001.3 | µg/mL | +/- 36.4325 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97%   | 1,004.6 | µg/mL | +/- 36.5505 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99%   | 1,004.3 | µg/mL | +/- 36.5393 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR      | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP240703RSR      | 99%   | 1,002.8 | µg/mL | +/- 36.4847 |
| 36 | Acenaphthylene                                | 208-96-8  | RP241029RSR      | 98%   | 1,000.0 | µg/mL | +/- 36.3835 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99%   | 1,006.3 | µg/mL | +/- 36.6121 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99%   | 1,008.9 | µg/mL | +/- 36.7076 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP240701RSR      | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99%   | 1,004.6 | µg/mL | +/- 36.5530 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | ----% | 1,005.6 | µg/mL | +/- 36.5894 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCN1772         | 99%   | 1,003.5 | µg/mL | +/- 36.5120 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99%   | 1,008.3 | µg/mL | +/- 36.6849 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241029-2-AN    | 99%   | 1,004.8 | µg/mL | +/- 36.5575 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99%   | 1,005.8 | µg/mL | +/- 36.5939 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP231219RSR      | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98%   | 1,000.7 | µg/mL | +/- 36.4102 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248         | 99%   | 1,004.9 | µg/mL | +/- 36.5621 |
| 51 | Diethylphthalate                              | 84-66-2   | BCCJ6241         | 99%   | 1,003.9 | µg/mL | +/- 36.5257 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S241008RSR       | 99%   | 1,001.3 | µg/mL | +/- 36.4302 |



|    |                            |          |              |     |         |       |             |
|----|----------------------------|----------|--------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512     | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887     | 99% | 1,002.4 | µg/mL | +/- 36.4711 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361     | 99% | 1,008.8 | µg/mL | +/- 36.7031 |
| 57 | Hexachlorobenzene          | 118-74-1 | 15458400     | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240517RSR  | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 59 | Phenanthrene               | 85-01-8  | MKCT3391     | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 60 | Anthracene                 | 120-12-7 | 101492T18R   | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 61 | Carbazole                  | 86-74-8  | 15276700     | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337     | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728     | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 64 | Pyrene                     | 129-00-0 | BCKK2592     | 99% | 1,002.0 | µg/mL | +/- 36.4575 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018      | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988     | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 67 | Benz(a)anthracene          | 56-55-3  | I70012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 68 | Chrysene                   | 218-01-9 | RP241007RSR  | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065     | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 15566400     | 99% | 1,002.3 | µg/mL | +/- 36.4666 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 052013B      | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K      | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA        | 98% | 1,006.2 | µg/mL | +/- 36.6108 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9 | 97% | 1,001.8 | µg/mL | +/- 36.4490 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1   | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP241014RSR  | 98% | 1,003.8 | µg/mL | +/- 36.5217 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

#### **Tech Tips:**

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.





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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0219438

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963  
↓  
S12992 } AC  
12/17/24

## CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBP6240    | 99%    | 1,008.3 µg/mL               | +/- 36.6849                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S240313RSR  | 99%    | 1,008.6 µg/mL               | +/- 36.6985                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,002.9 µg/mL               | +/- 36.4893                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,003.0 µg/mL               | +/- 36.4938                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.6 µg/mL               | +/- 36.5894                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,004.1 µg/mL               | +/- 36.5348                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,002.1 µg/mL               | +/- 36.4620                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBL6287    | 99%    | 1,005.3 µg/mL               | +/- 36.5757                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,008.4 µg/mL               | +/- 36.6894                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 502.1 µg/mL                 | +/- 18.2697                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.8 µg/mL                 | +/- 18.3288                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,006.5 µg/mL               | +/- 36.6212                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,002.5 µg/mL               | +/- 36.4757                            |

|    |                                               |           |                  |       |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-------|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99%   | 1,003.4 | µg/mL | +/- 36.5075 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK            | 99%   | 1,006.5 | µg/mL | +/- 36.6212 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCKK6969         | 99%   | 1,001.5 | µg/mL | +/- 36.4393 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99%   | 1,002.1 | µg/mL | +/- 36.4620 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98%   | 1,002.5 | µg/mL | +/- 36.4771 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461         | 99%   | 1,004.5 | µg/mL | +/- 36.5484 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98%   | 990.2   | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L       | 98%   | 1,001.3 | µg/mL | +/- 36.4325 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97%   | 1,004.6 | µg/mL | +/- 36.5505 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99%   | 1,004.3 | µg/mL | +/- 36.5393 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR      | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP240703RSR      | 99%   | 1,002.8 | µg/mL | +/- 36.4847 |
| 36 | Acenaphthylene                                | 208-96-8  | RP241029RSR      | 98%   | 1,000.0 | µg/mL | +/- 36.3835 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99%   | 1,006.3 | µg/mL | +/- 36.6121 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99%   | 1,008.9 | µg/mL | +/- 36.7076 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP240701RSR      | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99%   | 1,004.6 | µg/mL | +/- 36.5530 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | ----% | 1,005.6 | µg/mL | +/- 36.5894 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCN1772         | 99%   | 1,003.5 | µg/mL | +/- 36.5120 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99%   | 1,008.3 | µg/mL | +/- 36.6849 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241029-2-AN    | 99%   | 1,004.8 | µg/mL | +/- 36.5575 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99%   | 1,005.8 | µg/mL | +/- 36.5939 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP231219RSR      | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98%   | 1,000.7 | µg/mL | +/- 36.4102 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248         | 99%   | 1,004.9 | µg/mL | +/- 36.5621 |
| 51 | Diethylphthalate                              | 84-66-2   | BCCJ6241         | 99%   | 1,003.9 | µg/mL | +/- 36.5257 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S241008RSR       | 99%   | 1,001.3 | µg/mL | +/- 36.4302 |

|    |                            |          |              |     |         |       |             |
|----|----------------------------|----------|--------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512     | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887     | 99% | 1,002.4 | µg/mL | +/- 36.4711 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361     | 99% | 1,008.8 | µg/mL | +/- 36.7031 |
| 57 | Hexachlorobenzene          | 118-74-1 | 15458400     | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240517RSR  | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 59 | Phenanthrene               | 85-01-8  | MKCT3391     | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 60 | Anthracene                 | 120-12-7 | 101492T18R   | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 61 | Carbazole                  | 86-74-8  | 15276700     | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337     | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728     | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 64 | Pyrene                     | 129-00-0 | BCKK2592     | 99% | 1,002.0 | µg/mL | +/- 36.4575 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018      | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988     | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 67 | Benz(a)anthracene          | 56-55-3  | I70012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 68 | Chrysene                   | 218-01-9 | RP241007RSR  | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065     | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 15566400     | 99% | 1,002.3 | µg/mL | +/- 36.4666 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 052013B      | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K      | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA        | 98% | 1,006.2 | µg/mL | +/- 36.6108 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9 | 97% | 1,001.8 | µg/mL | +/- 36.4490 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1   | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP241014RSR  | 98% | 1,003.8 | µg/mL | +/- 36.5217 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

#### **Tech Tips:**

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.





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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0219438

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963  
↓  
S12992 } AC  
12/17/24

## CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBP6240    | 99%    | 1,008.3 µg/mL               | +/- 36.6849                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S240313RSR  | 99%    | 1,008.6 µg/mL               | +/- 36.6985                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,002.9 µg/mL               | +/- 36.4893                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,003.0 µg/mL               | +/- 36.4938                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.6 µg/mL               | +/- 36.5894                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,004.1 µg/mL               | +/- 36.5348                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,002.1 µg/mL               | +/- 36.4620                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBL6287    | 99%    | 1,005.3 µg/mL               | +/- 36.5757                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,008.4 µg/mL               | +/- 36.6894                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 502.1 µg/mL                 | +/- 18.2697                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.8 µg/mL                 | +/- 18.3288                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,006.5 µg/mL               | +/- 36.6212                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,002.5 µg/mL               | +/- 36.4757                            |

|    |                                               |           |                  |       |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-------|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99%   | 1,003.4 | µg/mL | +/- 36.5075 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK            | 99%   | 1,006.5 | µg/mL | +/- 36.6212 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCKK6969         | 99%   | 1,001.5 | µg/mL | +/- 36.4393 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99%   | 1,002.1 | µg/mL | +/- 36.4620 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98%   | 1,002.5 | µg/mL | +/- 36.4771 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461         | 99%   | 1,004.5 | µg/mL | +/- 36.5484 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98%   | 990.2   | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L       | 98%   | 1,001.3 | µg/mL | +/- 36.4325 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97%   | 1,004.6 | µg/mL | +/- 36.5505 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99%   | 1,004.3 | µg/mL | +/- 36.5393 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR      | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP240703RSR      | 99%   | 1,002.8 | µg/mL | +/- 36.4847 |
| 36 | Acenaphthylene                                | 208-96-8  | RP241029RSR      | 98%   | 1,000.0 | µg/mL | +/- 36.3835 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99%   | 1,006.3 | µg/mL | +/- 36.6121 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99%   | 1,008.9 | µg/mL | +/- 36.7076 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP240701RSR      | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99%   | 1,004.6 | µg/mL | +/- 36.5530 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | ----% | 1,005.6 | µg/mL | +/- 36.5894 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCN1772         | 99%   | 1,003.5 | µg/mL | +/- 36.5120 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99%   | 1,008.3 | µg/mL | +/- 36.6849 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241029-2-AN    | 99%   | 1,004.8 | µg/mL | +/- 36.5575 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99%   | 1,005.8 | µg/mL | +/- 36.5939 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP231219RSR      | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98%   | 1,000.7 | µg/mL | +/- 36.4102 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248         | 99%   | 1,004.9 | µg/mL | +/- 36.5621 |
| 51 | Diethylphthalate                              | 84-66-2   | BCCJ6241         | 99%   | 1,003.9 | µg/mL | +/- 36.5257 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S241008RSR       | 99%   | 1,001.3 | µg/mL | +/- 36.4302 |



|    |                            |          |              |     |         |       |             |
|----|----------------------------|----------|--------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512     | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887     | 99% | 1,002.4 | µg/mL | +/- 36.4711 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361     | 99% | 1,008.8 | µg/mL | +/- 36.7031 |
| 57 | Hexachlorobenzene          | 118-74-1 | 15458400     | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240517RSR  | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 59 | Phenanthrene               | 85-01-8  | MKCT3391     | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 60 | Anthracene                 | 120-12-7 | 101492T18R   | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 61 | Carbazole                  | 86-74-8  | 15276700     | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337     | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728     | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 64 | Pyrene                     | 129-00-0 | BCKK2592     | 99% | 1,002.0 | µg/mL | +/- 36.4575 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018      | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988     | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 67 | Benz(a)anthracene          | 56-55-3  | I70012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 68 | Chrysene                   | 218-01-9 | RP241007RSR  | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065     | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 15566400     | 99% | 1,002.3 | µg/mL | +/- 36.4666 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 052013B      | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K      | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA        | 98% | 1,006.2 | µg/mL | +/- 36.6108 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9 | 97% | 1,001.8 | µg/mL | +/- 36.4490 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1   | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP241014RSR  | 98% | 1,003.8 | µg/mL | +/- 36.5217 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

#### Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.





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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0219438

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963  
↓  
S12992 } AC  
12/17/24

## CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBP6240    | 99%    | 1,008.3 µg/mL               | +/- 36.6849                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S240313RSR  | 99%    | 1,008.6 µg/mL               | +/- 36.6985                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,002.9 µg/mL               | +/- 36.4893                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,003.0 µg/mL               | +/- 36.4938                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.6 µg/mL               | +/- 36.5894                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,004.1 µg/mL               | +/- 36.5348                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,002.1 µg/mL               | +/- 36.4620                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBL6287    | 99%    | 1,005.3 µg/mL               | +/- 36.5757                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,008.4 µg/mL               | +/- 36.6894                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 502.1 µg/mL                 | +/- 18.2697                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.8 µg/mL                 | +/- 18.3288                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,006.5 µg/mL               | +/- 36.6212                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,002.5 µg/mL               | +/- 36.4757                            |

|    |                                               |           |                  |       |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-------|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99%   | 1,003.4 | µg/mL | +/- 36.5075 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK            | 99%   | 1,006.5 | µg/mL | +/- 36.6212 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCKK6969         | 99%   | 1,001.5 | µg/mL | +/- 36.4393 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99%   | 1,002.1 | µg/mL | +/- 36.4620 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98%   | 1,002.5 | µg/mL | +/- 36.4771 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461         | 99%   | 1,004.5 | µg/mL | +/- 36.5484 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98%   | 990.2   | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L       | 98%   | 1,001.3 | µg/mL | +/- 36.4325 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97%   | 1,004.6 | µg/mL | +/- 36.5505 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99%   | 1,004.3 | µg/mL | +/- 36.5393 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR      | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP240703RSR      | 99%   | 1,002.8 | µg/mL | +/- 36.4847 |
| 36 | Acenaphthylene                                | 208-96-8  | RP241029RSR      | 98%   | 1,000.0 | µg/mL | +/- 36.3835 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99%   | 1,006.3 | µg/mL | +/- 36.6121 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99%   | 1,008.9 | µg/mL | +/- 36.7076 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP240701RSR      | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99%   | 1,004.6 | µg/mL | +/- 36.5530 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | ----% | 1,005.6 | µg/mL | +/- 36.5894 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCN1772         | 99%   | 1,003.5 | µg/mL | +/- 36.5120 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99%   | 1,008.3 | µg/mL | +/- 36.6849 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241029-2-AN    | 99%   | 1,004.8 | µg/mL | +/- 36.5575 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99%   | 1,005.8 | µg/mL | +/- 36.5939 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP231219RSR      | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98%   | 1,000.7 | µg/mL | +/- 36.4102 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248         | 99%   | 1,004.9 | µg/mL | +/- 36.5621 |
| 51 | Diethylphthalate                              | 84-66-2   | BCCJ6241         | 99%   | 1,003.9 | µg/mL | +/- 36.5257 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S241008RSR       | 99%   | 1,001.3 | µg/mL | +/- 36.4302 |

|    |                            |          |              |     |         |       |             |
|----|----------------------------|----------|--------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512     | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887     | 99% | 1,002.4 | µg/mL | +/- 36.4711 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361     | 99% | 1,008.8 | µg/mL | +/- 36.7031 |
| 57 | Hexachlorobenzene          | 118-74-1 | 15458400     | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240517RSR  | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 59 | Phenanthrene               | 85-01-8  | MKCT3391     | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 60 | Anthracene                 | 120-12-7 | 101492T18R   | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 61 | Carbazole                  | 86-74-8  | 15276700     | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337     | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728     | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 64 | Pyrene                     | 129-00-0 | BCKK2592     | 99% | 1,002.0 | µg/mL | +/- 36.4575 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018      | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988     | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 67 | Benz(a)anthracene          | 56-55-3  | I70012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 68 | Chrysene                   | 218-01-9 | RP241007RSR  | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065     | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 15566400     | 99% | 1,002.3 | µg/mL | +/- 36.4666 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 052013B      | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K      | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA        | 98% | 1,006.2 | µg/mL | +/- 36.6108 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9 | 97% | 1,001.8 | µg/mL | +/- 36.4490 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1   | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP241014RSR  | 98% | 1,003.8 | µg/mL | +/- 36.5217 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

#### **Tech Tips:**

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.





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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0219438

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963  
↓  
S12992 } AC  
12/17/24

## CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBP6240    | 99%    | 1,008.3 µg/mL               | +/- 36.6849                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S240313RSR  | 99%    | 1,008.6 µg/mL               | +/- 36.6985                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,002.9 µg/mL               | +/- 36.4893                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,003.0 µg/mL               | +/- 36.4938                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.6 µg/mL               | +/- 36.5894                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,004.1 µg/mL               | +/- 36.5348                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,002.1 µg/mL               | +/- 36.4620                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBL6287    | 99%    | 1,005.3 µg/mL               | +/- 36.5757                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,008.4 µg/mL               | +/- 36.6894                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 502.1 µg/mL                 | +/- 18.2697                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.8 µg/mL                 | +/- 18.3288                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,006.5 µg/mL               | +/- 36.6212                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,002.5 µg/mL               | +/- 36.4757                            |

|    |                                               |           |                  |       |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-------|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99%   | 1,003.4 | µg/mL | +/- 36.5075 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK            | 99%   | 1,006.5 | µg/mL | +/- 36.6212 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCKK6969         | 99%   | 1,001.5 | µg/mL | +/- 36.4393 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99%   | 1,002.1 | µg/mL | +/- 36.4620 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98%   | 1,002.5 | µg/mL | +/- 36.4771 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461         | 99%   | 1,004.5 | µg/mL | +/- 36.5484 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98%   | 990.2   | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L       | 98%   | 1,001.3 | µg/mL | +/- 36.4325 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97%   | 1,004.6 | µg/mL | +/- 36.5505 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99%   | 1,004.3 | µg/mL | +/- 36.5393 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR      | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP240703RSR      | 99%   | 1,002.8 | µg/mL | +/- 36.4847 |
| 36 | Acenaphthylene                                | 208-96-8  | RP241029RSR      | 98%   | 1,000.0 | µg/mL | +/- 36.3835 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99%   | 1,006.3 | µg/mL | +/- 36.6121 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99%   | 1,008.9 | µg/mL | +/- 36.7076 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP240701RSR      | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99%   | 1,004.6 | µg/mL | +/- 36.5530 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | ----% | 1,005.6 | µg/mL | +/- 36.5894 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCN1772         | 99%   | 1,003.5 | µg/mL | +/- 36.5120 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99%   | 1,008.3 | µg/mL | +/- 36.6849 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241029-2-AN    | 99%   | 1,004.8 | µg/mL | +/- 36.5575 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99%   | 1,005.8 | µg/mL | +/- 36.5939 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP231219RSR      | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98%   | 1,000.7 | µg/mL | +/- 36.4102 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248         | 99%   | 1,004.9 | µg/mL | +/- 36.5621 |
| 51 | Diethylphthalate                              | 84-66-2   | BCCJ6241         | 99%   | 1,003.9 | µg/mL | +/- 36.5257 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S241008RSR       | 99%   | 1,001.3 | µg/mL | +/- 36.4302 |



|    |                            |          |              |     |         |       |             |
|----|----------------------------|----------|--------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512     | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887     | 99% | 1,002.4 | µg/mL | +/- 36.4711 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361     | 99% | 1,008.8 | µg/mL | +/- 36.7031 |
| 57 | Hexachlorobenzene          | 118-74-1 | 15458400     | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240517RSR  | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 59 | Phenanthrene               | 85-01-8  | MKCT3391     | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 60 | Anthracene                 | 120-12-7 | 101492T18R   | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 61 | Carbazole                  | 86-74-8  | 15276700     | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337     | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728     | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 64 | Pyrene                     | 129-00-0 | BCKK2592     | 99% | 1,002.0 | µg/mL | +/- 36.4575 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018      | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988     | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 67 | Benz(a)anthracene          | 56-55-3  | I70012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 68 | Chrysene                   | 218-01-9 | RP241007RSR  | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065     | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 15566400     | 99% | 1,002.3 | µg/mL | +/- 36.4666 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 052013B      | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K      | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA        | 98% | 1,006.2 | µg/mL | +/- 36.6108 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9 | 97% | 1,001.8 | µg/mL | +/- 36.4490 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1   | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP241014RSR  | 98% | 1,003.8 | µg/mL | +/- 36.5217 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

#### **Tech Tips:**

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.





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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0219438

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963  
↓  
S12992 } AC  
12/17/24

## CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBP6240    | 99%    | 1,008.3 µg/mL               | +/- 36.6849                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S240313RSR  | 99%    | 1,008.6 µg/mL               | +/- 36.6985                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,002.9 µg/mL               | +/- 36.4893                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,003.0 µg/mL               | +/- 36.4938                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.6 µg/mL               | +/- 36.5894                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,004.1 µg/mL               | +/- 36.5348                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,002.1 µg/mL               | +/- 36.4620                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBL6287    | 99%    | 1,005.3 µg/mL               | +/- 36.5757                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,008.4 µg/mL               | +/- 36.6894                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 502.1 µg/mL                 | +/- 18.2697                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.8 µg/mL                 | +/- 18.3288                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,006.5 µg/mL               | +/- 36.6212                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,002.5 µg/mL               | +/- 36.4757                            |

|    |                                               |           |                  |       |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-------|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99%   | 1,003.4 | µg/mL | +/- 36.5075 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK            | 99%   | 1,006.5 | µg/mL | +/- 36.6212 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCKK6969         | 99%   | 1,001.5 | µg/mL | +/- 36.4393 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99%   | 1,002.1 | µg/mL | +/- 36.4620 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98%   | 1,002.5 | µg/mL | +/- 36.4771 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461         | 99%   | 1,004.5 | µg/mL | +/- 36.5484 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98%   | 990.2   | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L       | 98%   | 1,001.3 | µg/mL | +/- 36.4325 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97%   | 1,004.6 | µg/mL | +/- 36.5505 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99%   | 1,004.3 | µg/mL | +/- 36.5393 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR      | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP240703RSR      | 99%   | 1,002.8 | µg/mL | +/- 36.4847 |
| 36 | Acenaphthylene                                | 208-96-8  | RP241029RSR      | 98%   | 1,000.0 | µg/mL | +/- 36.3835 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99%   | 1,006.3 | µg/mL | +/- 36.6121 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99%   | 1,008.9 | µg/mL | +/- 36.7076 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP240701RSR      | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99%   | 1,004.6 | µg/mL | +/- 36.5530 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | ----% | 1,005.6 | µg/mL | +/- 36.5894 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCN1772         | 99%   | 1,003.5 | µg/mL | +/- 36.5120 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99%   | 1,008.3 | µg/mL | +/- 36.6849 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241029-2-AN    | 99%   | 1,004.8 | µg/mL | +/- 36.5575 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99%   | 1,005.8 | µg/mL | +/- 36.5939 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP231219RSR      | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98%   | 1,000.7 | µg/mL | +/- 36.4102 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248         | 99%   | 1,004.9 | µg/mL | +/- 36.5621 |
| 51 | Diethylphthalate                              | 84-66-2   | BCCJ6241         | 99%   | 1,003.9 | µg/mL | +/- 36.5257 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S241008RSR       | 99%   | 1,001.3 | µg/mL | +/- 36.4302 |

|    |                            |          |              |     |         |       |             |
|----|----------------------------|----------|--------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512     | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887     | 99% | 1,002.4 | µg/mL | +/- 36.4711 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361     | 99% | 1,008.8 | µg/mL | +/- 36.7031 |
| 57 | Hexachlorobenzene          | 118-74-1 | 15458400     | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240517RSR  | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 59 | Phenanthrene               | 85-01-8  | MKCT3391     | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 60 | Anthracene                 | 120-12-7 | 101492T18R   | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 61 | Carbazole                  | 86-74-8  | 15276700     | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337     | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728     | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 64 | Pyrene                     | 129-00-0 | BCKK2592     | 99% | 1,002.0 | µg/mL | +/- 36.4575 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018      | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988     | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 67 | Benz(a)anthracene          | 56-55-3  | I70012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 68 | Chrysene                   | 218-01-9 | RP241007RSR  | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065     | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 15566400     | 99% | 1,002.3 | µg/mL | +/- 36.4666 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 052013B      | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K      | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA        | 98% | 1,006.2 | µg/mL | +/- 36.6108 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9 | 97% | 1,001.8 | µg/mL | +/- 36.4490 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1   | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP241014RSR  | 98% | 1,003.8 | µg/mL | +/- 36.5217 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

#### **Tech Tips:**

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.





# SHIPPING DOCUMENTS

Q1664

## USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

## CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

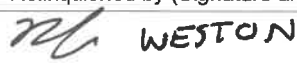
Lab: Alliance Technical Group, LLC - Non  
CLP

Lab Phone: 908-728-3144

| Lab # | Sample #          | Location       | CLP<br>Sample # | Tag | Analyses                             | Matrix | Sample<br>Date | Sample<br>Time | Numb<br>Cont | Container           | Preservati<br>ve | Lab<br>QC |
|-------|-------------------|----------------|-----------------|-----|--------------------------------------|--------|----------------|----------------|--------------|---------------------|------------------|-----------|
|       | P001-BBDGA-001-01 | P001-BBDGA-001 |                 | A   | TAL VOCs (TAT 3 Days)                | Stone  | 3/26/2025      | 09:30          | 9            | 5-g Encore          | 4 C              | Y         |
|       | P001-BBDGA-001-01 | P001-BBDGA-001 |                 | B   | TAL SVOC+Pest+PCB (TAT 3 Days)       | Stone  | 3/26/2025      | 09:30          | 6            | 8 oz glass          | 4 C              | Y         |
|       | P001-BBDGA-001-01 | P001-BBDGA-001 |                 | C   | Percent Moisture (TAT 3 Days)        | Stone  | 3/26/2025      | 09:30          | 3            | 4 oz glass w/septum | 4 C              | Y         |
|       | P001-BBDGA-001-01 | P001-BBDGA-001 |                 | D   | TAL Metals+Hg+CN (TAT 3 Days)        | Stone  | 3/26/2025      | 09:30          | 6            | 8 oz glass          | 4 C              | Y         |
|       | P001-BBDGA-001-01 | P001-BBDGA-001 |                 | E   | EPH (TAT 3 Days)                     | Stone  | 3/26/2025      | 09:30          | 3            | 8 oz glass          | 4 C              | Y         |
|       | P001-BBDGA-001-01 | P001-BBDGA-001 |                 | F   | SPLP EPH                             | Stone  | 3/26/2025      | 09:30          | 3            | 8 oz glass          | 4 C              | Y         |
|       | P001-BBDGA-001-01 | P001-BBDGA-001 |                 | G   | SPLP VOCs                            | Stone  | 3/26/2025      | 09:30          | 9            | 5-g Encore          | 4 C              | Y         |
|       | P001-BBDGA-001-01 | P001-BBDGA-001 |                 | H   | SPLP SVOCs + Pest+PCBs (TAT 7 Days)  | Stone  | 3/26/2025      | 09:30          | 6            | 8 oz glass          | 4 C              | Y         |
|       | P001-BBDGA-001-01 | P001-BBDGA-001 |                 | I   | Percent Moisture (SPLP) (TAT 7 Days) | Stone  | 3/26/2025      | 09:30          | 3            | 4 oz glass w/septum | 4 C              | Y         |
|       | P001-BBDGA-001-01 | P001-BBDGA-001 |                 | J   | SPLP Metals+Hg+CN (TAT 7 Days)       | Stone  | 3/26/2025      | 09:30          | 6            | 8 oz glass          | 4 C              | Y         |

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

**SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #**

| Items/Reason                | Relinquished by (Signature and Organization)                                               | Date/Time       | Received by (Signature and Organization)                                              | Date/Time       | Sample Condition Upon Receipt                           |
|-----------------------------|--------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------|
| ALL SAMPLES<br>ALL ANALYSES |  WESTON | 8:35<br>3-27-25 |  | 8:35<br>3-27-25 | IF Gen #1 2.14<br>no Custody Seal<br>Temp Blank present |
|                             |                                                                                            |                 |                                                                                       |                 |                                                         |
|                             |                                                                                            |                 |                                                                                       |                 |                                                         |
|                             |                                                                                            |                 |                                                                                       |                 |                                                         |



Q1669

## USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

## CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non  
CLP

Lab Phone: 908-728-3144

| Lab # | Sample #          | Location       | CLP Sample # | Tag | Analyses                             | Matrix | Sample Date | Sample Time | Numb Cont | Container           | Preservative | Lab QC |
|-------|-------------------|----------------|--------------|-----|--------------------------------------|--------|-------------|-------------|-----------|---------------------|--------------|--------|
|       | P001-BBDGA-001-02 | P001-BBDGA-001 |              | A   | TAL VOCs (TAT 3 Days)                | Stone  | 3/26/2025   | 09:30       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-001-02 | P001-BBDGA-001 |              | B   | TAL SVOC+Pest+PCB (TAT 3 Days)       | Stone  | 3/26/2025   | 09:30       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-001-02 | P001-BBDGA-001 |              | C   | Percent Moisture (TAT 3 Days)        | Stone  | 3/26/2025   | 09:30       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-001-02 | P001-BBDGA-001 |              | D   | TAL Metals+Hg+CN (TAT 3 Days)        | Stone  | 3/26/2025   | 09:30       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-001-02 | P001-BBDGA-001 |              | E   | EPH (TAT 3 Days)                     | Stone  | 3/26/2025   | 09:30       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-001-02 | P001-BBDGA-001 |              | F   | SPLP EPH                             | Stone  | 3/26/2025   | 09:30       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-001-02 | P001-BBDGA-001 |              | G   | SPLP VOCs                            | Stone  | 3/26/2025   | 09:30       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-001-02 | P001-BBDGA-001 |              | H   | SPLP SVOCs + Pest+PCBs (TAT 7 Days)  | Stone  | 3/26/2025   | 09:30       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-001-02 | P001-BBDGA-001 |              | I   | Percent Moisture (SPLP) (TAT 7 Days) | Stone  | 3/26/2025   | 09:30       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-001-02 | P001-BBDGA-001 |              | J   | SPLP Metals+Hg+CN (TAT 7 Days)       | Stone  | 3/26/2025   | 09:30       | 2         | 8 oz glass          | 4 C          | N      |

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

| Items/Reason                | Relinquished by (Signature and Organization) | Date/Time       | Received by (Signature and Organization) | Date/Time       | Sample Condition Upon Receipt                            |
|-----------------------------|----------------------------------------------|-----------------|------------------------------------------|-----------------|----------------------------------------------------------|
| ALL SAMPLES<br>ALL ANALYSES | <i>WJ</i> WESTON                             | 0835<br>3/27/25 | <i>CF</i>                                | 0835<br>3-27-25 | IR-Bin #1 2-1-C<br>No Custody Seal<br>Temp Blank present |
|                             |                                              |                 |                                          |                 |                                                          |
|                             |                                              |                 |                                          |                 |                                                          |
|                             |                                              |                 |                                          |                 |                                                          |

Q1669

## USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

## CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non  
CLP

Lab Phone: 908-728-3144

| Lab # | Sample #          | Location       | CLP Sample # | Tag | Analyses                             | Matrix | Sample Date | Sample Time | Numb Cont | Container           | Preservative | Lab QC |
|-------|-------------------|----------------|--------------|-----|--------------------------------------|--------|-------------|-------------|-----------|---------------------|--------------|--------|
|       | P001-BBDGA-002-01 | P001-BBDGA-002 |              | A   | TAL VOCs (TAT 3 Days)                | Stone  | 3/26/2025   | 09:35       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-002-01 | P001-BBDGA-002 |              | B   | TAL SVOC+Pest+PCB (TAT 3 Days)       | Stone  | 3/26/2025   | 09:35       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-002-01 | P001-BBDGA-002 |              | C   | Percent Moisture (TAT 3 Days)        | Stone  | 3/26/2025   | 09:35       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-002-01 | P001-BBDGA-002 |              | D   | TAL Metals+Hg+CN (TAT 3 Days)        | Stone  | 3/26/2025   | 09:35       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-002-01 | P001-BBDGA-002 |              | E   | EPH (TAT 3 Days)                     | Stone  | 3/26/2025   | 09:35       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-002-01 | P001-BBDGA-002 |              | F   | SPLP EPH                             | Stone  | 3/26/2025   | 09:35       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-002-01 | P001-BBDGA-002 |              | G   | SPLP VOCs                            | Stone  | 3/26/2025   | 09:35       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-002-01 | P001-BBDGA-002 |              | H   | SPLP SVOCs + Pest+PCBs (TAT 7 Days)  | Stone  | 3/26/2025   | 09:35       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-002-01 | P001-BBDGA-002 |              | I   | Percent Moisture (SPLP) (TAT 7 Days) | Stone  | 3/26/2025   | 09:35       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-002-01 | P001-BBDGA-002 |              | J   | SPLP Metals+Hg+CN (TAT 7 Days)       | Stone  | 3/26/2025   | 09:35       | 2         | 8 oz glass          | 4 C          | N      |

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

**SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #**

| Items/Reason                | Relinquished by (Signature and Organization) | Date/Time       | Received by (Signature and Organization) | Date/Time       | Sample Condition Upon Receipt                                |
|-----------------------------|----------------------------------------------|-----------------|------------------------------------------|-----------------|--------------------------------------------------------------|
| ALL SAMPLES<br>ALL ANALYSES | <i>Wm</i> WESTON                             | 0835<br>3/27/25 | <i>CF</i>                                | 0835<br>3-27-25 | If Cont#1 2-1°C<br>No Custody Seal<br>No<br>Total Temp Blank |
|                             |                                              |                 |                                          |                 |                                                              |
|                             |                                              |                 |                                          |                 |                                                              |
|                             |                                              |                 |                                          |                 |                                                              |

## USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

## CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non  
CLP

Lab Phone: 908-728-3144

| Lab # | Sample #          | Location       | CLP Sample # | Tag | Analyses                             | Matrix | Sample Date | Sample Time | Numb Cont | Container           | Preservative | Lab QC |
|-------|-------------------|----------------|--------------|-----|--------------------------------------|--------|-------------|-------------|-----------|---------------------|--------------|--------|
|       | P001-BBDGA-003-01 | P001-BBDGA-003 |              | A   | TAL VOCs (TAT 3 Days)                | Stone  | 3/26/2025   | 09:40       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-003-01 | P001-BBDGA-003 |              | B   | TAL SVOC+Pest+PCB (TAT 3 Days)       | Stone  | 3/26/2025   | 09:40       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-003-01 | P001-BBDGA-003 |              | C   | Percent Moisture (TAT 3 Days)        | Stone  | 3/26/2025   | 09:40       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-003-01 | P001-BBDGA-003 |              | D   | TAL Metals+Hg+CN (TAT 3 Days)        | Stone  | 3/26/2025   | 09:40       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-003-01 | P001-BBDGA-003 |              | E   | EPH (TAT 3 Days)                     | Stone  | 3/26/2025   | 09:40       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-003-01 | P001-BBDGA-003 |              | F   | SPLP EPH                             | Stone  | 3/26/2025   | 09:40       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-003-01 | P001-BBDGA-003 |              | G   | SPLP VOCs                            | Stone  | 3/26/2025   | 09:40       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-003-01 | P001-BBDGA-003 |              | H   | SPLP SVOCs + Pest+PCBs (TAT 7 Days)  | Stone  | 3/26/2025   | 09:40       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-003-01 | P001-BBDGA-003 |              | I   | Percent Moisture (SPLP) (TAT 7 Days) | Stone  | 3/26/2025   | 09:40       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-003-01 | P001-BBDGA-003 |              | J   | SPLP Metals+Hg+CN (TAT 7 Days)       | Stone  | 3/26/2025   | 09:40       | 2         | 8 oz glass          | 4 C          | N      |

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

**SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #**

| Items/Reason                | Relinquished by (Signature and Organization) | Date/Time       | Received by (Signature and Organization) | Date/Time       | Sample Condition Upon Receipt |
|-----------------------------|----------------------------------------------|-----------------|------------------------------------------|-----------------|-------------------------------|
| ALL SAMPLES<br>ALL ANALYSES | <i>Weston</i> WESTON                         | 0835<br>3/27/25 | <i>CR</i>                                | 8:35<br>3-27-25 | IR Cont 1 2.1"                |
|                             |                                              |                 |                                          |                 | No Custody Seal               |
|                             |                                              |                 |                                          |                 | Temp Blank present            |
|                             |                                              |                 |                                          |                 |                               |

## USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

## CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non  
CLP

Lab Phone: 908-728-3144

| Lab # | Sample #          | Location       | CLP Sample # | Tag | Analyses                             | Matrix | Sample Date | Sample Time | Numb Cont | Container           | Preservative | Lab QC |
|-------|-------------------|----------------|--------------|-----|--------------------------------------|--------|-------------|-------------|-----------|---------------------|--------------|--------|
|       | P001-BBDGA-004-01 | P001-BBDGA-004 |              | A   | TAL VOCs (TAT 3 Days)                | Stone  | 3/26/2025   | 09:45       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-004-01 | P001-BBDGA-004 |              | B   | TAL SVOC+Pest+PCB (TAT 3 Days)       | Stone  | 3/26/2025   | 09:45       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-004-01 | P001-BBDGA-004 |              | C   | Percent Moisture (TAT 3 Days)        | Stone  | 3/26/2025   | 09:45       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-004-01 | P001-BBDGA-004 |              | D   | TAL Metals+Hg+CN (TAT 3 Days)        | Stone  | 3/26/2025   | 09:45       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-004-01 | P001-BBDGA-004 |              | E   | EPH (TAT 3 Days)                     | Stone  | 3/26/2025   | 09:45       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-004-01 | P001-BBDGA-004 |              | F   | SPLP EPH                             | Stone  | 3/26/2025   | 09:45       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-004-01 | P001-BBDGA-004 |              | G   | SPLP VOCs                            | Stone  | 3/26/2025   | 09:45       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-004-01 | P001-BBDGA-004 |              | H   | SPLP SVOCs + Pest+PCBs (TAT 7 Days)  | Stone  | 3/26/2025   | 09:45       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-004-01 | P001-BBDGA-004 |              | I   | Percent Moisture (SPLP) (TAT 7 Days) | Stone  | 3/26/2025   | 09:45       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-004-01 | P001-BBDGA-004 |              | J   | SPLP Metals+Hg+CN (TAT 7 Days)       | Stone  | 3/26/2025   | 09:45       | 2         | 8 oz glass          | 4 C          | N      |

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

**SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #**

| Items/Reason                | Relinquished by (Signature and Organization) | Date/Time       | Received by (Signature and Organization) | Date/Time       | Sample Condition Upon Receipt                                    |
|-----------------------------|----------------------------------------------|-----------------|------------------------------------------|-----------------|------------------------------------------------------------------|
| ALL SAMPLES<br>ALL ANALYSES | <i>[Signature]</i> WESTON                    | 0835<br>3/27/25 | <i>[Signature]</i>                       | 0835<br>3-27-25 | If C-#1 2-1 <sup>st</sup><br>No Custody Seal<br>Temp BLK present |
|                             |                                              |                 |                                          |                 |                                                                  |
|                             |                                              |                 |                                          |                 |                                                                  |
|                             |                                              |                 |                                          |                 |                                                                  |

## USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

## CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non  
CLP

Lab Phone: 908-728-3144

| Lab # | Sample #          | Location       | CLP Sample # | Tag | Analyses                             | Matrix | Sample Date | Sample Time | Numb Cont | Container           | Preservative | Lab QC |
|-------|-------------------|----------------|--------------|-----|--------------------------------------|--------|-------------|-------------|-----------|---------------------|--------------|--------|
|       | P001-BBDGA-005-01 | P001-BBDGA-005 |              | A   | TAL VOCs (TAT 3 Days)                | Stone  | 3/26/2025   | 09:50       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-005-01 | P001-BBDGA-005 |              | B   | TAL SVOC+Pest+PCB (TAT 3 Days)       | Stone  | 3/26/2025   | 09:50       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-005-01 | P001-BBDGA-005 |              | C   | Percent Moisture (TAT 3 Days)        | Stone  | 3/26/2025   | 09:50       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-005-01 | P001-BBDGA-005 |              | D   | TAL Metals+Hg+CN (TAT 3 Days)        | Stone  | 3/26/2025   | 09:50       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-005-01 | P001-BBDGA-005 |              | E   | EPH (TAT 3 Days)                     | Stone  | 3/26/2025   | 09:50       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-005-01 | P001-BBDGA-005 |              | F   | SPLP EPH                             | Stone  | 3/26/2025   | 09:50       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-005-01 | P001-BBDGA-005 |              | G   | SPLP VOCs                            | Stone  | 3/26/2025   | 09:50       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-005-01 | P001-BBDGA-005 |              | H   | SPLP SVOCs + Pest+PCBs (TAT 7 Days)  | Stone  | 3/26/2025   | 09:50       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-005-01 | P001-BBDGA-005 |              | I   | Percent Moisture (SPLP) (TAT 7 Days) | Stone  | 3/26/2025   | 09:50       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-005-01 | P001-BBDGA-005 |              | J   | SPLP Metals+Hg+CN (TAT 7 Days)       | Stone  | 3/26/2025   | 09:50       | 2         | 8 oz glass          | 4 C          | N      |

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

**SAMPLES TRANSFERRED FROM**  
**CHAIN OF CUSTODY #**

| Items/Reason                | Relinquished by (Signature and Organization) | Date/Time       | Received by (Signature and Organization) | Date/Time       | Sample Condition Upon Receipt                     |
|-----------------------------|----------------------------------------------|-----------------|------------------------------------------|-----------------|---------------------------------------------------|
| ALL SAMPLES<br>ALL ANALYSES | <i>Wm</i> WESTON                             | 0135<br>3/27/25 | <i>CF</i>                                | 0135<br>3-27-25 | IR Out 1 2.1<br>no custody seal<br>Imp Back print |
|                             |                                              |                 |                                          |                 |                                                   |
|                             |                                              |                 |                                          |                 |                                                   |
|                             |                                              |                 |                                          |                 |                                                   |

## USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

## CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non  
CLP

Lab Phone: 908-728-3144

| Lab # | Sample #          | Location       | CLP Sample # | Tag | Analyses                             | Matrix | Sample Date | Sample Time | Numb Cont | Container           | Preservative | Lab QC |
|-------|-------------------|----------------|--------------|-----|--------------------------------------|--------|-------------|-------------|-----------|---------------------|--------------|--------|
|       | P001-BBDGA-006-01 | P001-BBDGA-006 |              | A   | TAL VOCs (TAT 3 Days)                | Stone  | 3/26/2025   | 09:55       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-006-01 | P001-BBDGA-006 |              | B   | TAL SVOC+Pest+PCB (TAT 3 Days)       | Stone  | 3/26/2025   | 09:55       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-006-01 | P001-BBDGA-006 |              | C   | Percent Moisture (TAT 3 Days)        | Stone  | 3/26/2025   | 09:55       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-006-01 | P001-BBDGA-006 |              | D   | TAL Metals+Hg+CN (TAT 3 Days)        | Stone  | 3/26/2025   | 09:55       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-006-01 | P001-BBDGA-006 |              | E   | EPH (TAT 3 Days)                     | Stone  | 3/26/2025   | 09:55       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-006-01 | P001-BBDGA-006 |              | F   | SPLP EPH                             | Stone  | 3/26/2025   | 09:55       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-006-01 | P001-BBDGA-006 |              | G   | SPLP VOCs                            | Stone  | 3/26/2025   | 09:55       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-006-01 | P001-BBDGA-006 |              | H   | SPLP SVOCs + Pest+PCBs (TAT 7 Days)  | Stone  | 3/26/2025   | 09:55       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-006-01 | P001-BBDGA-006 |              | I   | Percent Moisture (SPLP) (TAT 7 Days) | Stone  | 3/26/2025   | 09:55       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-006-01 | P001-BBDGA-006 |              | J   | SPLP Metals+Hg+CN (TAT 7 Days)       | Stone  | 3/26/2025   | 09:55       | 2         | 8 oz glass          | 4 C          | N      |

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

**SAMPLES TRANSFERRED FROM**  
**CHAIN OF CUSTODY #**

| Items/Reason                | Relinquished by (Signature and Organization)                                               | Date/Time       | Received by (Signature and Organization)                                              | Date/Time       | Sample Condition Upon Receipt                                             |
|-----------------------------|--------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------|
| ALL SAMPLES<br>ALL ANALYSES |  WESTON | 3/27/25<br>0835 |  | 8:35<br>3-27-25 | IF Cont #1 2-1 <sup>st</sup><br>no Custody Seal Intact<br>Twp Blank print |
|                             |                                                                                            |                 |                                                                                       |                 |                                                                           |
|                             |                                                                                            |                 |                                                                                       |                 |                                                                           |
|                             |                                                                                            |                 |                                                                                       |                 |                                                                           |

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

## CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non  
CLP

Lab Phone: 908-728-3144

| Lab # | Sample #          | Location       | CLP Sample # | Tag | Analyses                             | Matrix | Sample Date | Sample Time | Numb Cont | Container           | Preservative | Lab QC |
|-------|-------------------|----------------|--------------|-----|--------------------------------------|--------|-------------|-------------|-----------|---------------------|--------------|--------|
|       | P001-BBDGA-007-01 | P001-BBDGA-007 |              | A   | TAL VOCs (TAT 3 Days)                | Stone  | 3/26/2025   | 10:00       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-007-01 | P001-BBDGA-007 |              | B   | TAL SVOC+Pest+PCB (TAT 3 Days)       | Stone  | 3/26/2025   | 10:00       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-007-01 | P001-BBDGA-007 |              | C   | Percent Moisture (TAT 3 Days)        | Stone  | 3/26/2025   | 10:00       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-007-01 | P001-BBDGA-007 |              | D   | TAL Metals+Hg+CN (TAT 3 Days)        | Stone  | 3/26/2025   | 10:00       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-007-01 | P001-BBDGA-007 |              | E   | EPH (TAT 3 Days)                     | Stone  | 3/26/2025   | 10:00       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-007-01 | P001-BBDGA-007 |              | F   | SPLP EPH                             | Stone  | 3/26/2025   | 10:00       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-007-01 | P001-BBDGA-007 |              | G   | SPLP VOCs                            | Stone  | 3/26/2025   | 10:00       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-007-01 | P001-BBDGA-007 |              | H   | SPLP SVOCs + Pest+PCBs (TAT 7 Days)  | Stone  | 3/26/2025   | 10:00       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-007-01 | P001-BBDGA-007 |              | I   | Percent Moisture (SPLP) (TAT 7 Days) | Stone  | 3/26/2025   | 10:00       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-007-01 | P001-BBDGA-007 |              | J   | SPLP Metals+Hg+CN (TAT 7 Days)       | Stone  | 3/26/2025   | 10:00       | 2         | 8 oz glass          | 4 C          | N      |

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

**SAMPLES TRANSFERRED FROM**  
**CHAIN OF CUSTODY #**

| Items/Reason                | Relinquished by (Signature and Organization) | Date/Time       | Received by (Signature and Organization) | Date/Time       | Sample Condition Upon Receipt                        |
|-----------------------------|----------------------------------------------|-----------------|------------------------------------------|-----------------|------------------------------------------------------|
| ALL SAMPLES<br>ALL ANALYSES | <i>Wu</i> WESTON                             | 3/27/25<br>0835 | <i>OR</i>                                | 8:35<br>3-27-25 | IR Cont #1 2-1<br>No Custody Seal<br>Temp back print |
|                             |                                              |                 |                                          |                 |                                                      |
|                             |                                              |                 |                                          |                 |                                                      |
|                             |                                              |                 |                                          |                 |                                                      |

## USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

## CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non  
CLP

Lab Phone: 908-728-3144

| Lab # | Sample #          | Location       | CLP Sample # | Tag | Analyses                             | Matrix | Sample Date | Sample Time | Numb Cont | Container           | Preservative | Lab QC |
|-------|-------------------|----------------|--------------|-----|--------------------------------------|--------|-------------|-------------|-----------|---------------------|--------------|--------|
|       | P001-BBDGA-008-01 | P001-BBDGA-008 |              | A   | TAL VOCs (TAT 3 Days)                | Stone  | 3/26/2025   | 10:05       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-008-01 | P001-BBDGA-008 |              | B   | TAL SVOC+Pest+PCB (TAT 3 Days)       | Stone  | 3/26/2025   | 10:05       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-008-01 | P001-BBDGA-008 |              | C   | Percent Moisture (TAT 3 Days)        | Stone  | 3/26/2025   | 10:05       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-008-01 | P001-BBDGA-008 |              | D   | TAL Metals+Hg+CN (TAT 3 Days)        | Stone  | 3/26/2025   | 10:05       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-008-01 | P001-BBDGA-008 |              | E   | EPH (TAT 3 Days)                     | Stone  | 3/26/2025   | 10:05       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-008-01 | P001-BBDGA-008 |              | F   | SPLP EPH                             | Stone  | 3/26/2025   | 10:05       | 1         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-008-01 | P001-BBDGA-008 |              | G   | SPLP VOCs                            | Stone  | 3/26/2025   | 10:05       | 3         | 5-g Encore          | 4 C          | N      |
|       | P001-BBDGA-008-01 | P001-BBDGA-008 |              | H   | SPLP SVOCs + Pest+PCBs (TAT 7 Days)  | Stone  | 3/26/2025   | 10:05       | 2         | 8 oz glass          | 4 C          | N      |
|       | P001-BBDGA-008-01 | P001-BBDGA-008 |              | I   | Percent Moisture (SPLP) (TAT 7 Days) | Stone  | 3/26/2025   | 10:05       | 1         | 4 oz glass w/septum | 4 C          | N      |
|       | P001-BBDGA-008-01 | P001-BBDGA-008 |              | J   | SPLP Metals+Hg+CN (TAT 7 Days)       | Stone  | 3/26/2025   | 10:05       | 2         | 8 oz glass          | 4 C          | N      |

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

**SAMPLES TRANSFERRED FROM**  
**CHAIN OF CUSTODY #**

| Items/Reason                | Relinquished by (Signature and Organization)                                               | Date/Time       | Received by (Signature and Organization)                                              | Date/Time       | Sample Condition Upon Receipt                            |
|-----------------------------|--------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------|
| ALL SAMPLES<br>ALL ANALYSES |  WESTON | 0835<br>3/27/25 |  | 8:35<br>3/27/25 | IF Cont #1 21°C<br>no Custody Seal<br>Temp Blank present |
|                             |                                                                                            |                 |                                                                                       |                 |                                                          |
|                             |                                                                                            |                 |                                                                                       |                 |                                                          |
|                             |                                                                                            |                 |                                                                                       |                 |                                                          |



### Laboratory Certification

| Certified By         | License No.      |
|----------------------|------------------|
|                      |                  |
| CAS EPA CLP Contract | 68HERH20D0011    |
|                      |                  |
| Connecticut          | PH-0830          |
|                      |                  |
| DOD ELAP (ANAB)      | L2219            |
|                      |                  |
| Maine                | 2024021          |
|                      |                  |
| Maryland             | 296              |
|                      |                  |
| New Hampshire        | 255424 Rev 1     |
|                      |                  |
| New Jersey           | 20012            |
|                      |                  |
| New York             | 11376            |
|                      |                  |
| Pennsylvania         | 68-00548         |
|                      |                  |
| Soil Permit          | 525-24-234-08441 |
|                      |                  |
| Texas                | T104704488       |

## LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q1664 ROYF02

**Order Date :** 3/27/2025 10:47:00 AM

**Project Mgr :**

**Client Name :** Weston Solutions, Inc.

**Project Name :** RFP 905

**Report Type :** Level 4

**Client Contact :** Smita Sumbaly

**Receive DateTime :** 3/27/2025 8:35:00 AM

**EDD Type :** EXCEL NOCLEANUP

**Invoice Name :** Weston Solutions, Inc.

**Purchase Order :**

**Hard Copy Date :**

**Invoice Contact :** Smita Sumbaly

**Date Signoff :**

| LAB ID   | CLIENT ID         | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST          | TEST GROUP | METHOD | FAX DATE     | DUE DATES |
|----------|-------------------|--------|-------------|-------------|---------------|------------|--------|--------------|-----------|
| Q1664-01 | P001-BBDGA-001-01 | Solid  | 03/26/2025  | 09:30       | VOC-TCLVOA-10 |            | 8260D  | 10 Bus. Days | 3 Days    |
| Q1664-02 | Q1664-01MS        | Solid  | 03/26/2025  | 09:30       | VOC-TCLVOA-10 |            | 8260D  | 10 Bus. Days |           |
| Q1664-03 | Q1664-01MSD       | Solid  | 03/26/2025  | 09:30       | VOC-TCLVOA-10 |            | 8260D  | 10 Bus. Days |           |
| Q1664-07 | P001-BBDGA-001-02 | Solid  | 03/26/2025  | 09:30       | VOC-TCLVOA-10 |            | 8260D  | 10 Bus. Days |           |
| Q1664-09 | P001-BBDGA-002-01 | Solid  | 03/26/2025  | 09:35       | VOC-TCLVOA-10 |            | 8260D  | 10 Bus. Days |           |
| Q1664-11 | P001-BBDGA-003-01 | Solid  | 03/26/2025  | 09:40       | VOC-TCLVOA-10 |            | 8260D  | 10 Bus. Days |           |
| Q1664-13 | P001-BBDGA-004-01 | Solid  | 03/26/2025  | 09:45       | VOC-TCLVOA-10 |            | 8260D  | 10 Bus. Days |           |
| Q1664-15 | P001-BBDGA-005-01 | Solid  | 03/26/2025  | 09:50       |               |            |        |              |           |

## LOGIN REPORT/SAMPLE TRANSFER

|                                              |               |                                                |                                   |
|----------------------------------------------|---------------|------------------------------------------------|-----------------------------------|
| <b>Order ID :</b> Q1664                      | <b>ROYF02</b> | <b>Order Date :</b> 3/27/2025 10:47:00 AM      | <b>Project Mgr :</b>              |
| <b>Client Name :</b> Weston Solutions, Inc.  |               | <b>Project Name :</b> RFP 905                  | <b>Report Type :</b> Level 4      |
| <b>Client Contact :</b> Smita Sumbaly        |               | <b>Receive DateTime :</b> 3/27/2025 8:35:00 AM | <b>EDD Type :</b> EXCEL NOCLEANUP |
| <b>Invoice Name :</b> Weston Solutions, Inc. |               | <b>Purchase Order :</b>                        | <b>Hard Copy Date :</b>           |
| <b>Invoice Contact :</b> Smita Sumbaly       |               |                                                | <b>Date Signoff :</b>             |

| LAB ID   | CLIENT ID         | MATRIX | SAMPLE<br>DATE | SAMPLE<br>TIME | TEST          | TEST GROUP | METHOD | FAX DATE     | DUE<br>DATES |
|----------|-------------------|--------|----------------|----------------|---------------|------------|--------|--------------|--------------|
| Q1664-17 | P001-BBDGA-006-01 | Solid  | 03/26/2025     | 09:55          | VOC-TCLVOA-10 |            | 8260D  | 10 Bus. Days | 3 days       |
| Q1664-19 | P001-BBDGA-007-01 | Solid  | 03/26/2025     | 10:00          | VOC-TCLVOA-10 |            | 8260D  | 10 Bus. Days |              |
| Q1664-21 | P001-BBDGA-008-01 | Solid  | 03/26/2025     | 10:05          | VOC-TCLVOA-10 |            | 8260D  | 10 Bus. Days |              |
|          |                   |        |                |                | VOC-TCLVOA-10 |            | 8260D  | 10 Bus. Days |              |

Relinquished By :

Date / Time : 3/27/25 1200

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room