284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# Cover Page

**Order ID :** Q1485

**Project ID :** NYSDOT Two Bronx River Parkway Bridges

**Client :** JPCL Engineering

| Lab Sample Number | Client Sample Number |
|---|---|
| Q1485-01 | DN-B-41 |

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: 3/7/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# 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 is 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 |

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**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

**Project #:** **Q1485**

| | 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 Castody** | ✓ |
| **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:** **PRADIP PRAJAPATI** **Date:** **03/07/2025**

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q1485 | **OrderDate:** | 3/4/2025 3:32:00 PM |
| **Client:** | JPCL Engineering | **Project:** | NYSDOT Two Bronx River Parkway Bridges |
| **Contact:** | Paul Rotondi | **Location:** | H31,I11 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q1485-01** | **DN-B-41** | **SOIL** | | | **03/04/25** | | | **03/04/25** |
| | | | SVOC-TCL BNA -20 | 8270E | | 03/05/25 | 03/05/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1485

**Client:** JPCL Engineering

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID :** | **DN-B-41** | | | | | | | | |
| Q1485-01 | DN-B-41 | SOIL | Fluoranthene | | 120.000 | J | 98.2 | 200 | ug/Kg |
| | | | **Total Svoc :** | | **120.00** | | | | |
| Q1485-01 | DN-B-41 | SOIL | Benzo[e]pyrene | * | 120.000 | J | 0 | 0 | ug/Kg |
| Q1485-01 | DN-B-41 | SOIL | Benzophenone | * | 230.000 | J | 0 | 0 | ug/Kg |
| Q1485-01 | DN-B-41 | SOIL | Butane, 2-methoxy-2-methyl- | * | 1,300.000 | JB | 0 | 0 | ug/Kg |
| Q1485-01 | DN-B-41 | SOIL | Dichloroacetic acid, heptadecyl es | * | 150.000 | J | 0 | 0 | ug/Kg |
| Q1485-01 | DN-B-41 | SOIL | n-Hexadecanoic acid | * | 290.000 | J | 0 | 0 | ug/Kg |
| | | | **Total Tics :** | | **2,090.00** | | | | |
| | | | **Total Concentration:** | | **2,210.00** | | | | |




# QC SUMMARY

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# Surrogate Summary

**SW-846**

**SDG No.:** Q1485

**Client:** JPCL Engineering

**Analytical Method:** 8270E

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| PB166984BL | PB166984BL | 2-Fluorophenol | 150 | 126 | 84 | | 18 | 112 |
| | | Phenol-d6 | 150 | 119 | 79 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 105 | 105 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 91.5 | 91 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 167 | 111 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 82.5 | 83 | | 10 | 105 |
| PB166984BS | PB166984BS | 2-Fluorophenol | 150 | 122 | 81 | | 18 | 112 |
| | | Phenol-d6 | 150 | 116 | 77 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 105 | 105 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 91.3 | 91 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 166 | 110 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 94.9 | 95 | | 10 | 105 |
| Q1485-01 | DN-B-41 | 2-Fluorophenol | 150 | 105 | 70 | | 18 | 112 |
| | | Phenol-d6 | 150 | 101 | 67 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 89.7 | 90 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 75.8 | 76 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 106 | 71 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 51.5 | 52 | | 10 | 105 |
| Q1487-01MS | DN-B-42MS | 2-Fluorophenol | 150 | 107 | 71 | | 18 | 112 |
| | | Phenol-d6 | 150 | 102 | 68 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 87.4 | 87 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 73.3 | 73 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 113 | 76 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 55.5 | 56 | | 10 | 105 |
| Q1487-01MSD | DN-B-42MSD | 2-Fluorophenol | 150 | 109 | 72 | | 18 | 112 |
| | | Phenol-d6 | 150 | 104 | 70 | | 15 | 107 |
| | | Nitrobenzene-d5 | 100 | 89.9 | 90 | | 18 | 107 |
| | | 2-Fluorobiphenyl | 100 | 75.0 | 75 | | 20 | 109 |
| | | 2,4,6-Tribromophenol | 150 | 117 | 78 | | 10 | 116 |
| | | Terphenyl-d14 | 100 | 56.9 | 57 | | 10 | 105 |

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**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q1485

**Client:** JPCL Engineering

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q1487-01MS** | | **Client Sample ID: DN-B-42MS** | | | | | | **DataFile:** | **BF141844.D** | | |
| Benzaldehyde | 1900 | 0 | 850 | ug/Kg | 45 | | | | 10 | 86 | |
| Phenol | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 67 | 126 | |
| bis(2-Chloroethyl)ether | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 54 | 125 | |
| 2-Chlorophenol | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 79 | 107 | |
| 2-Methylphenol | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 66 | 122 | |
| 2,2-oxybis(1-Chloropropane) | 1900 | 0 | 1400 | ug/Kg | 74 | | | | 65 | 110 | |
| Acetophenone | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 75 | 111 | |
| 3+4-Methylphenols | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 66 | 104 | |
| N-Nitroso-di-n-propylamine | 1900 | 0 | 1400 | ug/Kg | 74 | | | | 59 | 119 | |
| Hexachloroethane | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 65 | 117 | |
| Nitrobenzene | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 70 | 119 | |
| Isophorone | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 76 | 122 | |
| 2-Nitrophenol | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 54 | 145 | |
| 2,4-Dimethylphenol | 1900 | 0 | 2000 | ug/Kg | 105 | | | | 44 | 135 | |
| bis(2-Chloroethoxy)methane | 1900 | 0 | 1500 | ug/Kg | 79 | | | | 68 | 112 | |
| 2,4-Dichlorophenol | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 72 | 118 | |
| Naphthalene | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 72 | 110 | |
| 4-Chloroaniline | 1900 | 0 | 910 | ug/Kg | 48 | | | | 10 | 91 | |
| Hexachlorobutadiene | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 66 | 114 | |
| Caprolactam | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 51 | 134 | |
| 4-Chloro-3-methylphenol | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 57 | 132 | |
| 2-Methylnaphthalene | 1900 | 0 | 1500 | ug/Kg | 79 | | | | 59 | 123 | |
| Hexachlorocyclopentadiene | 3800 | 0 | 4800 | ug/Kg | 126 | | | | 10 | 175 | |
| 2,4,6-Trichlorophenol | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 72 | 117 | |
| 2,4,5-Trichlorophenol | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 72 | 117 | |
| 1,1-Biphenyl | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 75 | 113 | |
| 2-Chloronaphthalene | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 67 | 118 | |
| 2-Nitroaniline | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 69 | 127 | |
| Dimethylphthalate | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 70 | 113 | |
| Acenaphthylene | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 79 | 118 | |
| 2,6-Dinitrotoluene | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 70 | 125 | |
| 3-Nitroaniline | 1900 | 0 | 1300 | ug/Kg | 68 | | | | 30 | 99 | |
| Acenaphthene | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 70 | 121 | |
| 2,4-Dinitrophenol | 3800 | 0 | 2700 | ug/Kg | 71 | | | | 10 | 155 | |
| 4-Nitrophenol | 3800 | 0 | 4200 | ug/Kg | 111 | | | | 45 | 133 | |
| Dibenzofuran | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 72 | 110 | |
| 2,4-Dinitrotoluene | 1900 | 0 | 2000 | ug/Kg | 105 | | | | 55 | 128 | |
| Diethylphthalate | 1900 | 0 | 1500 | ug/Kg | 79 | | | | 70 | 112 | |
| 4-Chlorophenyl-phenylether | 1900 | 0 | 1500 | ug/Kg | 79 | | | | 71 | 108 | |
| Fluorene | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 68 | 116 | |
| 4-Nitroaniline | 1900 | 0 | 1900 | ug/Kg | 100 | | | | 55 | 120 | |
| 4,6-Dinitro-2-methylphenol | 1900 | 0 | 1500 | ug/Kg | 79 | | | | 10 | 160 | |
| N-Nitrosodiphenylamine | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 73 | 118 | |
| 4-Bromophenyl-phenylether | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 65 | 121 | |
| Hexachlorobenzene | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 67 | 118 | |
| Atrazine | 1900 | 0 | 2400 | ug/Kg | 126 | | | | 79 | 127 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q1485

**Client:** JPCL Engineering

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 3800 | 0 | 3200 | ug/Kg | 84 | | | | 47 | 128 | |
| Phenanthrene | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 52 | 128 | |
| Anthracene | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 62 | 124 | |
| Carbazole | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 59 | 119 | |
| Di-n-butylphthalate | 1900 | 0 | 1500 | ug/Kg | 79 | | | | 69 | 118 | |
| Fluoranthene | 1900 | 0 | 1500 | ug/Kg | 79 | | | | 44 | 125 | |
| Pyrene | 1900 | 0 | 1400 | ug/Kg | 74 | | | | 26 | 142 | |
| Butylbenzylphthalate | 1900 | 0 | 1400 | ug/Kg | 74 | | | | 64 | 126 | |
| 3,3-Dichlorobenzidine | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 33 | 116 | |
| Benzo(a)anthracene | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 71 | 114 | |
| Chrysene | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 57 | 121 | |
| bis(2-Ethylhexyl)phthalate | 1900 | 0 | 1400 | ug/Kg | 74 | | | | 42 | 169 | |
| Di-n-octyl phthalate | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 23 | 175 | |
| Benzo(b)fluoranthene | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 67 | 121 | |
| Benzo(k)fluoranthene | 1900 | 0 | 1500 | ug/Kg | 79 | | | | 57 | 134 | |
| Benzo(a)pyrene | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 70 | 142 | |
| Indeno(1,2,3-cd)pyrene | 1900 | 0 | 1300 | ug/Kg | 68 | | | | 40 | 129 | |
| Dibenz(a,h)anthracene | 1900 | 0 | 1300 | ug/Kg | 68 | | | | 43 | 123 | |
| Benzo(g,h,i)perylene | 1900 | 0 | 1100 | ug/Kg | 58 | | | | 24 | 125 | |
| 1,2,4,5-Tetrachlorobenzene | 1900 | 0 | 1800 | ug/Kg | 95 | | | | 69 | 124 | |
| 1,4-Dioxane | 1900 | 0 | 1600 | ug/Kg | 84 | | | | 46 | 112 | |
| 2,3,4,6-Tetrachlorophenol | 1900 | 0 | 1700 | ug/Kg | 89 | | | | 69 | 112 | |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q1485

**Client:** JPCL Engineering

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID: Q1487-01MSD** | | **Client Sample ID: DN-B-42MSD** | | | | | | **DataFile: BF141845.D** | | | |
| Benzaldehyde | 1900 | 0 | 860 | ug/Kg | 45 | 0 | | | 10 | 86 | 20 |
| Phenol | 1900 | 0 | 1700 | ug/Kg | 89 | 6 | | | 67 | 126 | 20 |
| bis(2-Chloroethyl)ether | 1900 | 0 | 1600 | ug/Kg | 84 | 0 | | | 54 | 125 | 20 |
| 2-Chlorophenol | 1900 | 0 | 1700 | ug/Kg | 89 | 6 | | | 79 | 107 | 20 |
| 2-Methylphenol | 1900 | 0 | 1600 | ug/Kg | 84 | 0 | | | 66 | 122 | 20 |
| 2,2-oxybis(1-Chloropropane) | 1900 | 0 | 1400 | ug/Kg | 74 | 0 | | | 65 | 110 | 20 |
| Acetophenone | 1900 | 0 | 1800 | ug/Kg | 95 | 7 | | | 75 | 111 | 20 |
| 3+4-Methylphenols | 1900 | 0 | 1600 | ug/Kg | 84 | 0 | | | 66 | 104 | 20 |
| N-Nitroso-di-n-propylamine | 1900 | 0 | 1400 | ug/Kg | 74 | 0 | | | 59 | 119 | 20 |
| Hexachloroethane | 1900 | 0 | 1600 | ug/Kg | 84 | 0 | | | 65 | 117 | 20 |
| Nitrobenzene | 1900 | 0 | 1800 | ug/Kg | 95 | 0 | | | 70 | 119 | 20 |
| Isophorone | 1900 | 0 | 1600 | ug/Kg | 84 | 0 | | | 76 | 122 | 20 |
| 2-Nitrophenol | 1900 | 0 | 1900 | ug/Kg | 100 | 0 | | | 54 | 145 | 20 |
| 2,4-Dimethylphenol | 1900 | 0 | 2000 | ug/Kg | 105 | 0 | | | 44 | 135 | 20 |
| bis(2-Chloroethoxy)methane | 1900 | 0 | 1500 | ug/Kg | 79 | 0 | | | 68 | 112 | 20 |
| 2,4-Dichlorophenol | 1900 | 0 | 1600 | ug/Kg | 84 | 0 | | | 72 | 118 | 20 |
| Naphthalene | 1900 | 0 | 1600 | ug/Kg | 84 | 0 | | | 72 | 110 | 20 |
| 4-Chloroaniline | 1900 | 0 | 950 | ug/Kg | 50 | 4 | | | 10 | 91 | 20 |
| Hexachlorobutadiene | 1900 | 0 | 1600 | ug/Kg | 84 | 0 | | | 66 | 114 | 20 |
| Caprolactam | 1900 | 0 | 1900 | ug/Kg | 100 | 0 | | | 51 | 134 | 20 |
| 4-Chloro-3-methylphenol | 1900 | 0 | 1600 | ug/Kg | 84 | 0 | | | 57 | 132 | 20 |
| 2-Methylnaphthalene | 1900 | 0 | 1500 | ug/Kg | 79 | 0 | | | 59 | 123 | 20 |
| Hexachlorocyclopentadiene | 3800 | 0 | 4900 | ug/Kg | 129 | 2 | | | 10 | 175 | 20 |
| 2,4,6-Trichlorophenol | 1900 | 0 | 1800 | ug/Kg | 95 | 7 | | | 72 | 117 | 20 |
| 2,4,5-Trichlorophenol | 1900 | 0 | 1800 | ug/Kg | 95 | 0 | | | 72 | 117 | 20 |
| 1,1-Biphenyl | 1900 | 0 | 1900 | ug/Kg | 100 | 5 | | | 75 | 113 | 20 |
| 2-Chloronaphthalene | 1900 | 0 | 1700 | ug/Kg | 89 | 0 | | | 67 | 118 | 20 |
| 2-Nitroaniline | 1900 | 0 | 2000 | ug/Kg | 105 | 5 | | | 69 | 127 | 20 |
| Dimethylphthalate | 1900 | 0 | 1600 | ug/Kg | 84 | 0 | | | 70 | 113 | 20 |
| Acenaphthylene | 1900 | 0 | 1800 | ug/Kg | 95 | 7 | | | 79 | 118 | 20 |
| 2,6-Dinitrotoluene | 1900 | 0 | 1900 | ug/Kg | 100 | 0 | | | 70 | 125 | 20 |
| 3-Nitroaniline | 1900 | 0 | 1400 | ug/Kg | 74 | 8 | | | 30 | 99 | 20 |
| Acenaphthene | 1900 | 0 | 1800 | ug/Kg | 95 | 7 | | | 70 | 121 | 20 |
| 2,4-Dinitrophenol | 3800 | 0 | 2800 | ug/Kg | 74 | 4 | | | 10 | 155 | 20 |
| 4-Nitrophenol | 3800 | 0 | 4300 | ug/Kg | 113 | 2 | | | 45 | 133 | 20 |
| Dibenzofuran | 1900 | 0 | 1600 | ug/Kg | 84 | 0 | | | 72 | 110 | 20 |
| 2,4-Dinitrotoluene | 1900 | 0 | 2100 | ug/Kg | 111 | 6 | | | 55 | 128 | 20 |
| Diethylphthalate | 1900 | 0 | 1500 | ug/Kg | 79 | 0 | | | 70 | 112 | 20 |
| 4-Chlorophenyl-phenylether | 1900 | 0 | 1600 | ug/Kg | 84 | 6 | | | 71 | 108 | 20 |
| Fluorene | 1900 | 0 | 1600 | ug/Kg | 84 | 0 | | | 68 | 116 | 20 |
| 4-Nitroaniline | 1900 | 0 | 2000 | ug/Kg | 105 | 5 | | | 55 | 120 | 20 |
| 4,6-Dinitro-2-methylphenol | 1900 | 0 | 1600 | ug/Kg | 84 | 6 | | | 10 | 160 | 20 |
| N-Nitrosodiphenylamine | 1900 | 0 | 1700 | ug/Kg | 89 | 7 | | | 73 | 118 | 20 |
| 4-Bromophenyl-phenylether | 1900 | 0 | 1700 | ug/Kg | 89 | 0 | | | 65 | 121 | 20 |
| Hexachlorobenzene | 1900 | 0 | 1700 | ug/Kg | 89 | 0 | | | 67 | 118 | 20 |
| Atrazine | 1900 | 0 | 2400 | ug/Kg | 126 | 0 | | | 79 | 127 | 20 |

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## Matrix Spike/Matrix Spike Duplicate Summary

**SW-846**

**SDG No.:** Q1485

**Client:** JPCL Engineering

**Analytical Method:** SW8270E

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | 3800 | 0 | 3200 | ug/Kg | 84 | 0 | | | 47 | 128 | 20 |
| Phenanthrene | 1900 | 0 | 1700 | ug/Kg | 89 | 0 | | | 52 | 128 | 20 |
| Anthracene | 1900 | 0 | 1700 | ug/Kg | 89 | 0 | | | 62 | 124 | 20 |
| Carbazole | 1900 | 0 | 1700 | ug/Kg | 89 | 0 | | | 59 | 119 | 20 |
| Di-n-butylphthalate | 1900 | 0 | 1500 | ug/Kg | 79 | 0 | | | 69 | 118 | 20 |
| Fluoranthene | 1900 | 0 | 1600 | ug/Kg | 84 | 6 | | | 44 | 125 | 20 |
| Pyrene | 1900 | 0 | 1400 | ug/Kg | 74 | 0 | | | 26 | 142 | 20 |
| Butylbenzylphthalate | 1900 | 0 | 1400 | ug/Kg | 74 | 0 | | | 64 | 126 | 20 |
| 3,3-Dichlorobenzidine | 1900 | 0 | 1800 | ug/Kg | 95 | 0 | | | 33 | 116 | 20 |
| Benzo(a)anthracene | 1900 | 0 | 1700 | ug/Kg | 89 | 0 | | | 71 | 114 | 20 |
| Chrysene | 1900 | 0 | 1700 | ug/Kg | 89 | 6 | | | 57 | 121 | 20 |
| bis(2-Ethylhexyl)phthalate | 1900 | 0 | 1500 | ug/Kg | 79 | 7 | | | 42 | 169 | 20 |
| Di-n-octyl phthalate | 1900 | 0 | 1800 | ug/Kg | 95 | 7 | | | 23 | 175 | 20 |
| Benzo(b)fluoranthene | 1900 | 0 | 1700 | ug/Kg | 89 | 6 | | | 67 | 121 | 20 |
| Benzo(k)fluoranthene | 1900 | 0 | 1500 | ug/Kg | 79 | 0 | | | 57 | 134 | 20 |
| Benzo(a)pyrene | 1900 | 0 | 1800 | ug/Kg | 95 | 7 | | | 70 | 142 | 20 |
| Indeno(1,2,3-cd)pyrene | 1900 | 0 | 1300 | ug/Kg | 68 | 0 | | | 40 | 129 | 20 |
| Dibenz(a,h)anthracene | 1900 | 0 | 1400 | ug/Kg | 74 | 8 | | | 43 | 123 | 20 |
| Benzo(g,h,i)perylene | 1900 | 0 | 1100 | ug/Kg | 58 | 0 | | | 24 | 125 | 20 |
| 1,2,4,5-Tetrachlorobenzene | 1900 | 0 | 1900 | ug/Kg | 100 | 5 | | | 69 | 124 | 20 |
| 1,4-Dioxane | 1900 | 0 | 1600 | ug/Kg | 84 | 0 | | | 46 | 112 | 20 |
| 2,3,4,6-Tetrachlorophenol | 1900 | 0 | 1700 | ug/Kg | 89 | 0 | | | 69 | 112 | 20 |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1485

**Client:** JPCL Engineering

**Analytical Method:** 8270E **DataFile:** BF141860.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB166984BS | Benzaldehyde | 1700 | 710 | ug/Kg | 42 | | | | 10 | 133 | |
| | Phenol | 1700 | 1300 | ug/Kg | 76 | | | | 62 | 112 | |
| | bis(2-Chloroethyl)ether | 1700 | 1300 | ug/Kg | 76 | | | | 60 | 101 | |
| | 2-Chlorophenol | 1700 | 1400 | ug/Kg | 82 | | | | 65 | 112 | |
| | 2-Methylphenol | 1700 | 1300 | ug/Kg | 76 | | | | 61 | 108 | |
| | 2,2-oxybis(1-Chloropropane) | 1700 | 1100 | ug/Kg | 65 | | | | 51 | 100 | |
| | Acetophenone | 1700 | 1500 | ug/Kg | 88 | | | | 66 | 98 | |
| | 3+4-Methylphenols | 1700 | 1300 | ug/Kg | 76 | | | | 58 | 111 | |
| | N-Nitroso-di-n-propylamine | 1700 | 1200 | ug/Kg | 71 | | | | 63 | 95 | |
| | Hexachloroethane | 1700 | 1400 | ug/Kg | 82 | | | | 72 | 108 | |
| | Nitrobenzene | 1700 | 1500 | ug/Kg | 88 | | | | 57 | 101 | |
| | Isophorone | 1700 | 1400 | ug/Kg | 82 | | | | 59 | 99 | |
| | 2-Nitrophenol | 1700 | 1600 | ug/Kg | 94 | | | | 61 | 111 | |
| | 2,4-Dimethylphenol | 1700 | 1700 | ug/Kg | 100 | | | | 46 | 141 | |
| | bis(2-Chloroethoxy)methane | 1700 | 1300 | ug/Kg | 76 | | | | 66 | 97 | |
| | 2,4-Dichlorophenol | 1700 | 1400 | ug/Kg | 82 | | | | 62 | 107 | |
| | Naphthalene | 1700 | 1400 | ug/Kg | 82 | | | | 62 | 100 | |
| | 4-Chloroaniline | 1700 | 400 | ug/Kg | 24 | | | | 16 | 100 | |
| | Hexachlorobutadiene | 1700 | 1400 | ug/Kg | 82 | | | | 53 | 98 | |
| | Caprolactam | 1700 | 1600 | ug/Kg | 94 | | | | 67 | 110 | |
| | 4-Chloro-3-methylphenol | 1700 | 1400 | ug/Kg | 82 | | | | 58 | 112 | |
| | 2-Methylnaphthalene | 1700 | 1300 | ug/Kg | 76 | | | | 60 | 104 | |
| | Hexachlorocyclopentadiene | 3300 | 4900 | ug/Kg | 148 | | | | 45 | 165 | |
| | 2,4,6-Trichlorophenol | 1700 | 1500 | ug/Kg | 88 | | | | 59 | 102 | |
| | 2,4,5-Trichlorophenol | 1700 | 1500 | ug/Kg | 88 | | | | 61 | 98 | |
| | 1,1-Biphenyl | 1700 | 1500 | ug/Kg | 88 | | | | 57 | 103 | |
| | 2-Chloronaphthalene | 1700 | 1400 | ug/Kg | 82 | | | | 58 | 99 | |
| | 2-Nitroaniline | 1700 | 1600 | ug/Kg | 94 | | | | 66 | 101 | |
| | Dimethylphthalate | 1700 | 1400 | ug/Kg | 82 | | | | 61 | 99 | |
| | Acenaphthylene | 1700 | 1500 | ug/Kg | 88 | | | | 63 | 101 | |
| | 2,6-Dinitrotoluene | 1700 | 1600 | ug/Kg | 94 | | | | 61 | 104 | |
| | 3-Nitroaniline | 1700 | 850 | ug/Kg | 50 | | | | 28 | 100 | |
| | Acenaphthene | 1700 | 1600 | ug/Kg | 94 | | | | 57 | 104 | |
| | 2,4-Dinitrophenol | 3300 | 3700 | ug/Kg | 112 | | | | 37 | 128 | |
| | 4-Nitrophenol | 3300 | 3800 | ug/Kg | 115 | | | | 48 | 119 | |
| | Dibenzofuran | 1700 | 1300 | ug/Kg | 76 | | | | 63 | 99 | |
| | 2,4-Dinitrotoluene | 1700 | 1800 | ug/Kg | 106 | | | | 60 | 106 | |
| | Diethylphthalate | 1700 | 1400 | ug/Kg | 82 | | | | 60 | 101 | |
| | 4-Chlorophenyl-phenylether | 1700 | 1400 | ug/Kg | 82 | | | | 58 | 98 | |
| | Fluorene | 1700 | 1400 | ug/Kg | 82 | | | | 61 | 101 | |
| | 4-Nitroaniline | 1700 | 1800 | ug/Kg | 106 | | * | | 64 | 103 | |
| | 4,6-Dinitro-2-methylphenol | 1700 | 1900 | ug/Kg | 112 | | | | 76 | 113 | |
| | N-Nitrosodiphenylamine | 1700 | 1400 | ug/Kg | 82 | | | | 71 | 99 | |
| | 4-Bromophenyl-phenylether | 1700 | 1400 | ug/Kg | 82 | | | | 66 | 102 | |

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q1485

**Client:** JPCL Engineering

**Analytical Method:** 8270E **DataFile:** BF141860.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB166984BS | Hexachlorobenzene | 1700 | 1500 | ug/Kg | 88 | | | | 64 | 98 | |
| | Atrazine | 1700 | 2000 | ug/Kg | 118 | | | | 47 | 152 | |
| | Pentachlorophenol | 3300 | 3000 | ug/Kg | 91 | | | | 67 | 105 | |
| | Phenanthrene | 1700 | 1400 | ug/Kg | 82 | | | | 59 | 103 | |
| | Anthracene | 1700 | 1400 | ug/Kg | 82 | | | | 61 | 105 | |
| | Carbazole | 1700 | 1400 | ug/Kg | 82 | | | | 61 | 99 | |
| | Di-n-butylphthalate | 1700 | 1400 | ug/Kg | 82 | | | | 58 | 104 | |
| | Fluoranthene | 1700 | 1500 | ug/Kg | 88 | | | | 57 | 107 | |
| | Pyrene | 1700 | 1400 | ug/Kg | 82 | | | | 59 | 103 | |
| | Butylbenzylphthalate | 1700 | 1400 | ug/Kg | 82 | | | | 55 | 103 | |
| | 3,3-Dichlorobenzidine | 1700 | 720 | ug/Kg | 42 | | | | 42 | 91 | |
| | Benzo(a)anthracene | 1700 | 1400 | ug/Kg | 82 | | | | 60 | 102 | |
| | Chrysene | 1700 | 1400 | ug/Kg | 82 | | | | 59 | 101 | |
| | bis(2-Ethylhexyl)phthalate | 1700 | 1500 | ug/Kg | 88 | | | | 54 | 135 | |
| | Di-n-octyl phthalate | 1700 | 1400 | ug/Kg | 82 | | | | 52 | 137 | |
| | Benzo(b)fluoranthene | 1700 | 1300 | ug/Kg | 76 | | | | 62 | 109 | |
| | Benzo(k)fluoranthene | 1700 | 1300 | ug/Kg | 76 | | | | 62 | 109 | |
| | Benzo(a)pyrene | 1700 | 1500 | ug/Kg | 88 | | | | 63 | 103 | |
| | Indeno(1,2,3-cd)pyrene | 1700 | 1600 | ug/Kg | 94 | | | | 63 | 101 | |
| | Dibenz(a,h)anthracene | 1700 | 1500 | ug/Kg | 88 | | | | 61 | 112 | |
| | Benzo(g,h,i)perylene | 1700 | 1500 | ug/Kg | 88 | | | | 70 | 108 | |
| | 1,2,4,5-Tetrachlorobenzene | 1700 | 1500 | ug/Kg | 88 | | | | 53 | 101 | |
| | 1,4-Dioxane | 1700 | 1200 | ug/Kg | 71 | | | | 50 | 96 | |
| | 2,3,4,6-Tetrachlorophenol | 1700 | 1500 | ug/Kg | 88 | | | | 59 | 108 | |

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4B

# SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166984BL

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1485 SAS No.: Q1485 SDG NO.: Q1485

Lab File ID: BF141859.D Lab Sample ID: PB166984BL

Instrument ID: BNA_F Date Extracted: 03/05/2025

Matrix: (soil/water) SOIL Date Analyzed: 03/06/2025

Level: (low/med) LOW Time Analyzed: 10:22

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| PB166984BS | PB166984BS | BF141860.D | 03/06/2025 |
| DN-B-41 | Q1485-01 | BF141848.D | 03/05/2025 |
| DN-B-42MS | Q1487-01MS | BF141844.D | 03/05/2025 |
| DN-B-42MSD | Q1487-01MSD | BF141845.D | 03/05/2025 |

COMMENTS:

Raw Data: **BF141792.D**

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM SAS No.: Q1485 SDG NO.: Q1485

Lab File ID: BF141792.D DFTPP Injection Date: 02/27/2025

Instrument ID: BNA_F DFTPP Injection Time: 14:47

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 34.9 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.7 ) 1 |
| 69 | Mass 69 relative abundance | 34.9 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.4 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 46.5 |
| 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 | 6.7 |
| 275 | 10.0 - 60.0% of mass 198 | 27.6 |
| 365 | Greater than 1% of mass 198 | 3.7 |
| 441 | Present, but less than mass 443 | 14.6 |
| 442 | Greater than 50% of mass 198 | 93.2 |
| 443 | 15.0 - 24.0% of mass 442 | 18.1 (19.4) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDICC2.5 | SSTDICC2.5 | BF141793.D | 02/27/2025 | 15:17 |
| SSTDICC005 | SSTDICC005 | BF141794.D | 02/27/2025 | 15:46 |
| SSTDICC010 | SSTDICC010 | BF141795.D | 02/27/2025 | 16:16 |
| SSTDICC020 | SSTDICC020 | BF141796.D | 02/27/2025 | 16:46 |
| SSTDICCC040 | SSTDICCC040 | BF141797.D | 02/27/2025 | 17:16 |
| SSTDICC050 | SSTDICC050 | BF141798.D | 02/27/2025 | 17:46 |
| SSTDICC060 | SSTDICC060 | BF141799.D | 02/27/2025 | 18:15 |
| SSTDICC080 | SSTDICC080 | BF141800.D | 02/27/2025 | 18:45 |

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**5B**

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK**
**DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM SAS No.: Q1485 SDG NO.: Q1485

Lab File ID: BF141834.D DFTPP Injection Date: 03/05/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:40

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 36 |
| 68 | Less than 2.0% of mass 69 | 0.6 ( 1.8 ) 1 |
| 69 | Mass 69 relative abundance | 35.5 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.6 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 47.3 |
| 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 | 6.8 |
| 275 | 10.0 - 60.0% of mass 198 | 27.6 |
| 365 | Greater than 1% of mass 198 | 3.6 |
| 441 | Present, but less than mass 443 | 13.5 |
| 442 | Greater than 50% of mass 198 | 84.3 |
| 443 | 15.0 - 24.0% of mass 442 | 16.7 (19.8) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF141835.D | 03/05/2025 | 10:09 |
| DN-B-42MS | Q1487-01MS | BF141844.D | 03/05/2025 | 15:21 |
| DN-B-42MSD | Q1487-01MSD | BF141845.D | 03/05/2025 | 15:51 |
| DN-B-41 | Q1485-01 | BF141848.D | 03/05/2025 | 17:20 |

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**5B**

**SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK**
**DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)**

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM SAS No.: Q1485 SDG NO.: Q1485

Lab File ID: BF141857.D DFTPP Injection Date: 03/06/2025

Instrument ID: BNA_F DFTPP Injection Time: 08:34

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 51 | 10.0 - 80.0% of mass 198 | 33.8 |
| 68 | Less than 2.0% of mass 69 | 0.7 ( 2 ) 1 |
| 69 | Mass 69 relative abundance | 34.8 |
| 70 | Less than 2.0% of mass 69 | 0.2 ( 0.7 ) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 46.7 |
| 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 | 28.6 |
| 365 | Greater than 1% of mass 198 | 3.8 |
| 441 | Present, but less than mass 443 | 15.3 |
| 442 | Greater than 50% of mass 198 | 94.6 |
| 443 | 15.0 - 24.0% of mass 442 | 18.6 (19.7) 2 |

1-Value is % mass 69 2-Value is % mass 442

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| SSTDCCC040 | SSTDCCC040 | BF141858.D | 03/06/2025 | 09:52 |
| PB166984BL | PB166984BL | BF141859.D | 03/06/2025 | 10:22 |
| PB166984BS | PB166984BS | BF141860.D | 03/06/2025 | 10:52 |

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1485 SAS No.: Q1485 SDG NO.: Q1485

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/05/2025

Lab File ID: BF141835.D Time Analyzed: 10:09

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 246608 | 6.887 | 945299 | 8.17 | 507589 | 9.92 |
| | UPPER LIMIT | 493216 | 7.387 | 1890600 | 8.669 | 1015180 | 10.422 |
| | LOWER LIMIT | 123304 | 6.387 | 472650 | 7.669 | 253795 | 9.422 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | DN-B-41 | 184965 | 6.89 | 688845 | 8.16 | 344199 | 9.92 |
| 02 | DN-B-42MS | 192210 | 6.89 | 734232 | 8.17 | 370025 | 9.92 |
| 03 | DN-B-42MSD | 191311 | 6.89 | 731999 | 8.17 | 367233 | 9.92 |

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1485 SAS No.: Q1485 SDG NO.: Q1485

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/05/2025

Lab File ID: BF141835.D Time Analyzed: 10:09

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 873644 | 11.404 | 595765 | 14.045 | 513355 | 15.51 |
| | UPPER LIMIT | 1747290 | 11.904 | 1191530 | 14.545 | 1026710 | 16.01 |
| | LOWER LIMIT | 436822 | 10.904 | 297883 | 13.545 | 256678 | 15.01 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | DN-B-41 | 520985 | 11.40 | 419399 | 14.03 | 456966 | 15.51 |
| 02 | DN-B-42MS | 565314 | 11.40 | 409462 | 14.04 | 473342 | 15.51 |
| 03 | DN-B-42MSD | 575333 | 11.40 | 414755 | 14.04 | 465047 | 15.51 |

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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1485 SAS No.: Q1485 SDG NO.: Q1485

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/06/2025

Lab File ID: BF141858.D Time Analyzed: 09:52

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

| | | IS1 (DCB) AREA # | RT # | IS2 (NPT) AREA # | RT # | IS3 (ANT) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 207866 | 6.887 | 779725 | 8.17 | 422269 | 9.92 |
| | UPPER LIMIT | 415732 | 7.387 | 1559450 | 8.669 | 844538 | 10.422 |
| | LOWER LIMIT | 103933 | 6.387 | 389863 | 7.669 | 211135 | 9.422 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB166984BL | 218862 | 6.89 | 871720 | 8.16 | 477596 | 9.92 |
| 02 | PB166984BS | 222677 | 6.89 | 860348 | 8.17 | 467040 | 9.92 |

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1485 SAS No.: Q1485 SDG NO.: Q1485

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/06/2025

Lab File ID: BF141858.D Time Analyzed: 09:52

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

| | | IS4 (PHN) AREA # | RT # | IS5 (CRY) AREA # | RT # | IS6 (PRY) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 691934 | 11.404 | 434521 | 14.045 | 382575 | 15.515 |
| | UPPER LIMIT | 1383870 | 11.904 | 869042 | 14.545 | 765150 | 16.015 |
| | LOWER LIMIT | 345967 | 10.904 | 217261 | 13.545 | 191288 | 15.015 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | PB166984BL | 848035 | 11.40 | 691946 | 14.04 | 552165 | 15.51 |
| 02 | PB166984BS | 801941 | 11.41 | 537472 | 14.05 | 470320 | 15.52 |

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

Raw Data: **BF141848.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | 03/04/25 |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | 03/04/25 |
| Client Sample ID: | DN-B-41 | SDG No.: | Q1485 |
| Lab Sample ID: | Q1485-01 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 83.1 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141848.D | 1 | 03/05/25 09:40 | 03/05/25 17:20 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 400 | U | 220 | 400 | ug/Kg |
| 108-95-2 | Phenol | 200 | U | 99.6 | 200 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 200 | U | 100 | 200 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 200 | U | 100 | 200 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 200 | U | 96.8 | 200 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 200 | U | 110 | 200 | ug/Kg |
| 98-86-2 | Acetophenone | 200 | U | 100 | 200 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 400 | U | 95.9 | 400 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 96.1 | U | 48.4 | 96.1 | ug/Kg |
| 67-72-1 | Hexachloroethane | 200 | U | 99.7 | 200 | ug/Kg |
| 98-95-3 | Nitrobenzene | 200 | U | 110 | 200 | ug/Kg |
| 78-59-1 | Isophorone | 200 | U | 100 | 200 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 200 | U | 110 | 200 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 200 | U | 110 | 200 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 200 | U | 100 | 200 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 200 | U | 90.7 | 200 | ug/Kg |
| 91-20-3 | Naphthalene | 200 | U | 99.2 | 200 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 200 | U | 99.2 | 200 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 200 | U | 100 | 200 | ug/Kg |
| 105-60-2 | Caprolactam | 400 | U | 100 | 400 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 200 | U | 93.1 | 200 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 200 | U | 99.1 | 200 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 400 | U | 190 | 400 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 200 | U | 85.8 | 200 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 200 | U | 88.9 | 200 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 200 | U | 100 | 200 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 200 | U | 100 | 200 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 200 | U | 110 | 200 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 200 | U | 98.2 | 200 | ug/Kg |

Raw Data: **BF141848.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | 03/04/25 |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | 03/04/25 |
| Client Sample ID: | DN-B-41 | SDG No.: | Q1485 |
| Lab Sample ID: | Q1485-01 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 83.1 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141848.D | 1 | 03/05/25 09:40 | 03/05/25 17:20 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 200 | U | 100 | 200 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 200 | U | 100 | 200 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 200 | U | 110 | 200 | ug/Kg |
| 83-32-9 | Acenaphthene | 200 | U | 97.4 | 200 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 400 | U | 290 | 400 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 400 | U | 140 | 400 | ug/Kg |
| 132-64-9 | Dibenzofuran | 200 | U | 100 | 200 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 200 | U | 100 | 200 | ug/Kg |
| 84-66-2 | Diethylphthalate | 200 | U | 96.2 | 200 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 200 | U | 100 | 200 | ug/Kg |
| 86-73-7 | Fluorene | 200 | U | 100 | 200 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 200 | UQ | 130 | 200 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 400 | U | 140 | 400 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 200 | U | 98.0 | 200 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 200 | U | 94.8 | 200 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 200 | U | 100 | 200 | ug/Kg |
| 1912-24-9 | Atrazine | 200 | U | 110 | 200 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 400 | U | 92.9 | 400 | ug/Kg |
| 85-01-8 | Phenanthrene | 200 | U | 100 | 200 | ug/Kg |
| 120-12-7 | Anthracene | 200 | U | 100 | 200 | ug/Kg |
| 86-74-8 | Carbazole | 200 | U | 96.5 | 200 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 200 | U | 100 | 200 | ug/Kg |
| 206-44-0 | Fluoranthene | 120 | J | 98.2 | 200 | ug/Kg |
| 129-00-0 | Pyrene | 200 | U | 99.7 | 200 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 200 | U | 120 | 200 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 400 | U | 120 | 400 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 200 | U | 97.0 | 200 | ug/Kg |
| 218-01-9 | Chrysene | 200 | U | 95.5 | 200 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 200 | U | 110 | 200 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 400 | U | 130 | 400 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 200 | U | 97.4 | 200 | ug/Kg |

Raw Data: **BF141848.D**

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | 03/04/25 |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | 03/04/25 |
| Client Sample ID: | DN-B-41 | SDG No.: | Q1485 |
| Lab Sample ID: | Q1485-01 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 83.1 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141848.D | 1 | 03/05/25 09:40 | 03/05/25 17:20 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 200 | U | 99.2 | 200 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 200 | U | 110 | 200 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 200 | U | 93.8 | 200 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 200 | U | 97.6 | 200 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 200 | U | 96.2 | 200 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 200 | U | 100 | 200 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 200 | U | 130 | 200 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 200 | U | 89.7 | 200 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 105 | | 18 - 112 | 70% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 101 | | 15 - 107 | 67% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 89.7 | | 18 - 107 | 90% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 75.8 | | 20 - 109 | 76% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 106 | | 10 - 116 | 71% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 51.5 | | 10 - 105 | 52% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 185000 | 6.887 | | | |
| 1146-65-2 | Naphthalene-d8 | 689000 | 8.163 | | | |
| 15067-26-2 | Acenaphthene-d10 | 344000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 521000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 419000 | 14.033 | | | |
| 1520-96-3 | Perylene-d12 | 457000 | 15.51 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 1300 | JB | | 2.17 | ug/Kg |
| 000119-61-9 | Benzophenone | 230 | J | | 10.6 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid | 290 | J | | 11.9 | ug/Kg |
| 1000282-98-2 | Dichloroacetic acid, heptadecyl es | 150 | J | | 13.9 | ug/Kg |
| 000192-97-2 | Benzo[e]pyrene | 120 | J | | 15.1 | ug/Kg |

Raw Data: **BF141848.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | 03/04/25 |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | 03/04/25 |
| Client Sample ID: | DN-B-41 | SDG No.: | Q1485 |
| Lab Sample ID: | Q1485-01 | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 83.1 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141848.D | 1 | 03/05/25 09:40 | 03/05/25 17:20 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|

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_F\Data\BF030525\
Data File : BF141848.D
Acq On : 05 Mar 2025 17:20
Operator : RC/JU
Sample : Q1485-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Quant Time: Mar 06 00:12:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

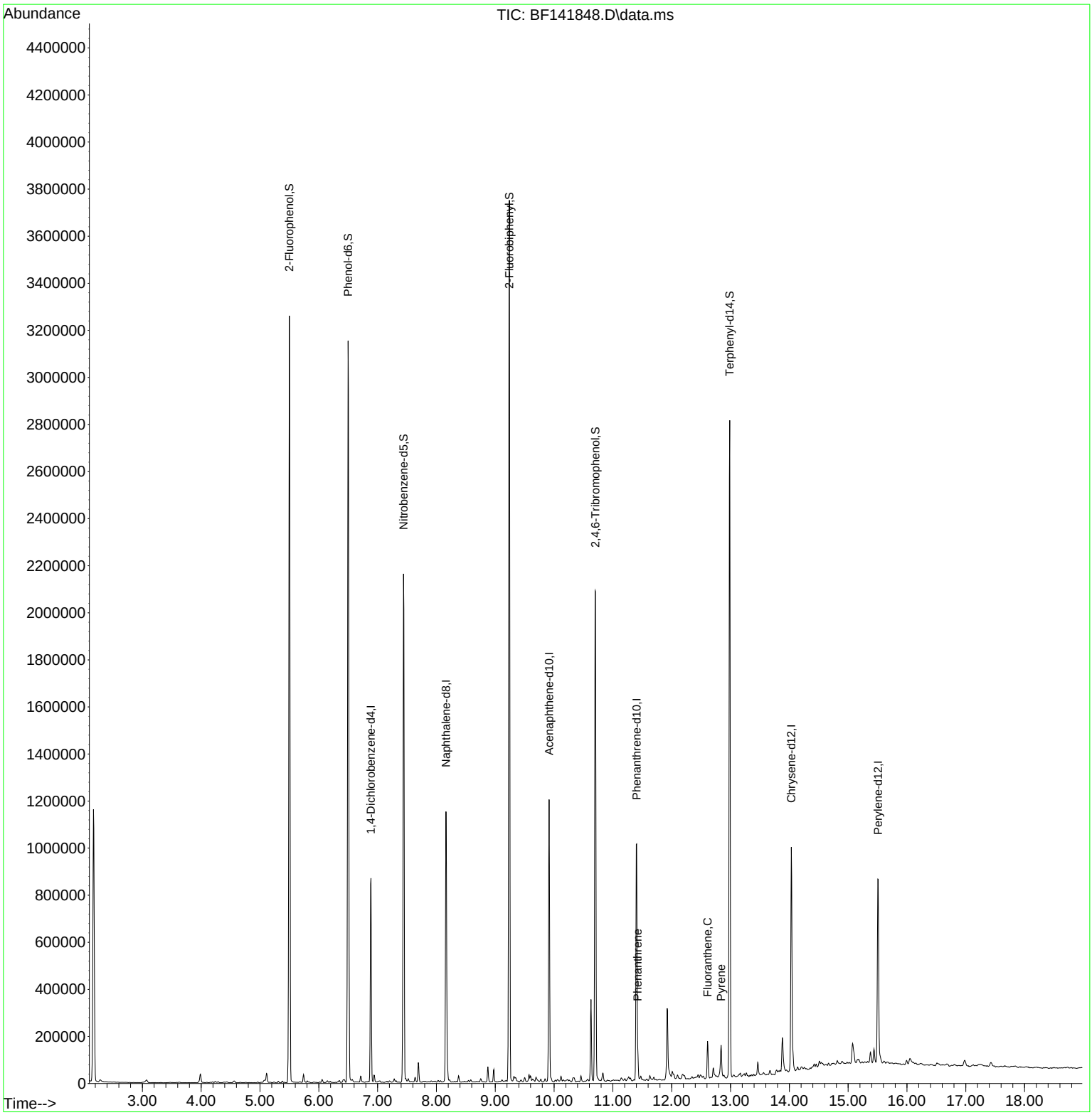
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.887 | 152 | 184965 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.163 | 136 | 688845 | 20.000 | ng | -0.01 |
| 39) Acenaphthene-d10 | 9.916 | 164 | 344199 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.404 | 188 | 520985 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.033 | 240 | 419399 | 20.000 | ng | -0.02 |
| 86) Perylene-d12 | 15.510 | 264 | 456966 | 20.000 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.499 | 112 | 1220622 | 105.388 | ng | 0.00 |
| 7) Phenol-d6 | 6.498 | 99 | 1515049 | 100.500 | ng | -0.01 |
| 23) Nitrobenzene-d5 | 7.440 | 82 | 966701 | 89.703 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.704 | 330 | 342039 | 105.848 | ng | -0.01 |
| 45) 2-Fluorobiphenyl | 9.239 | 172 | 1627909 | 75.836 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.986 | 244 | 1336212 | 51.547 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 71) Phenanthrene | 11.422 | 178 | 59607 | 2.139 | ng | 97 |
| 75) Fluoranthene | 12.610 | 202 | 84247 | 2.950 | ng | 98 |
| 78) Pyrene | 12.839 | 202 | 76121 | 2.096 | ng | 98 |

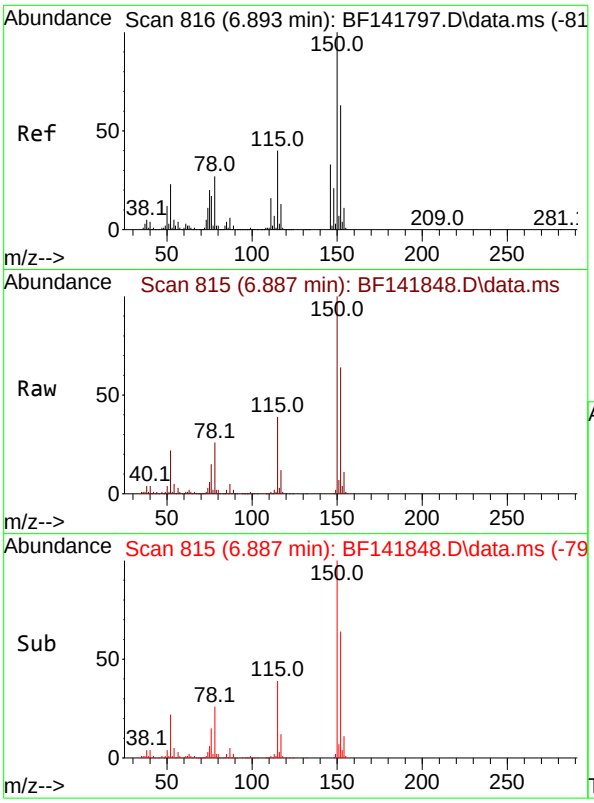
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141848.D
Acq On : 05 Mar 2025 17:20
Operator : RC/JU
Sample : Q1485-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Quant Time: Mar 06 00:12:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



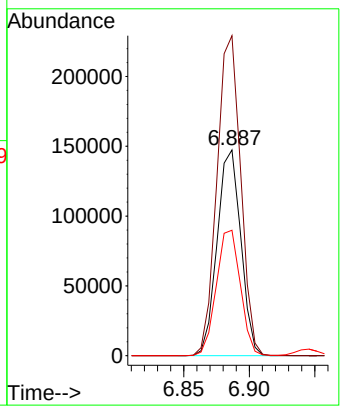


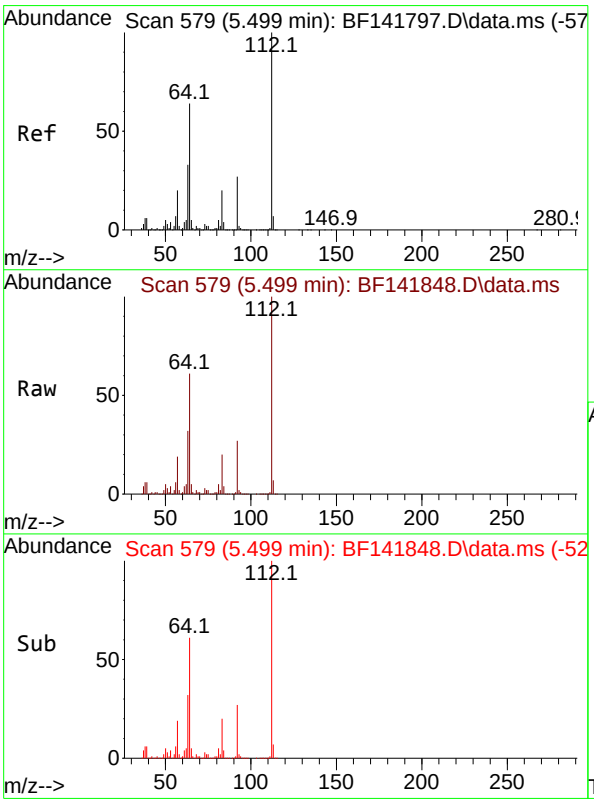

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Tgt Ion:152 Resp: 184965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.5 | 127.5 | 191.3 |
| 115 | 60.9 | 51.4 | 77.2 |

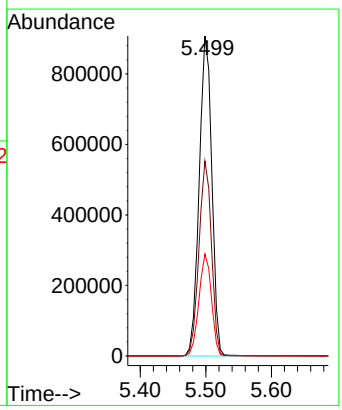


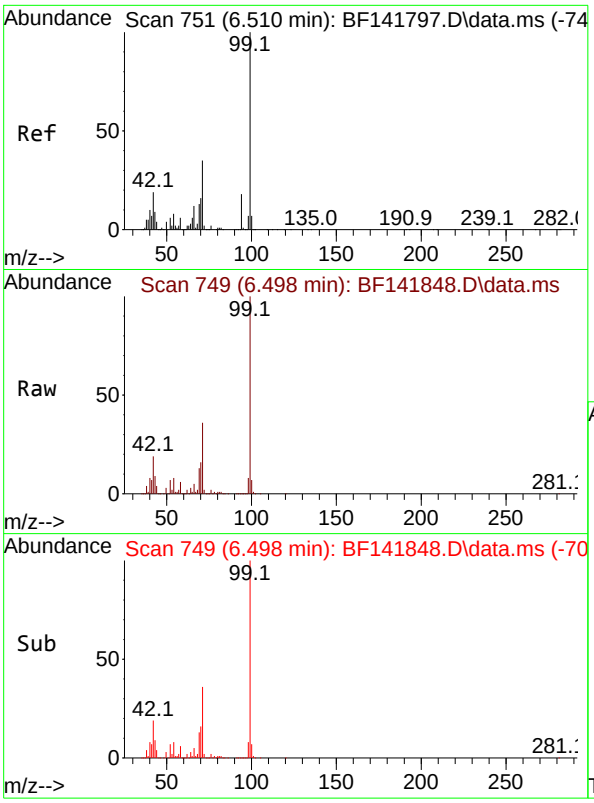




#5
2-Fluorophenol
Concen: 105.388 ng
RT: 5.499 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

Tgt Ion:112 Resp: 1220622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 60.9 | 51.3 | 76.9 |
| 63 | 31.9 | 26.2 | 39.4 |



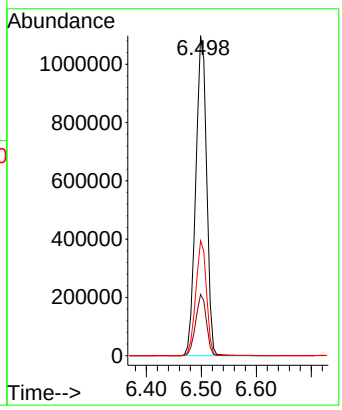


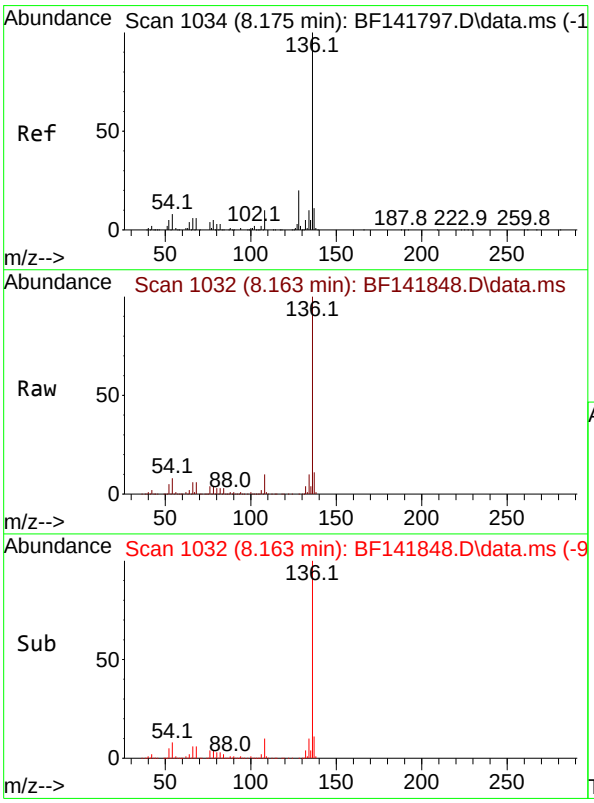

#7
Phenol-d6
Concen: 100.500 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Tgt Ion: 99 Resp: 1515049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.1 | 15.2 | 22.8 |
| 71 | 35.9 | 28.2 | 42.2 |

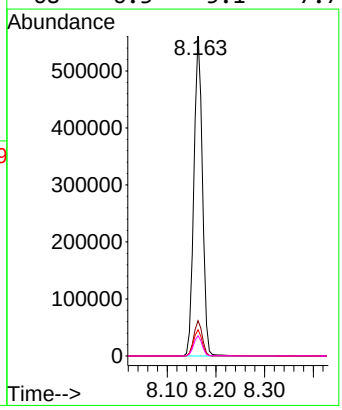


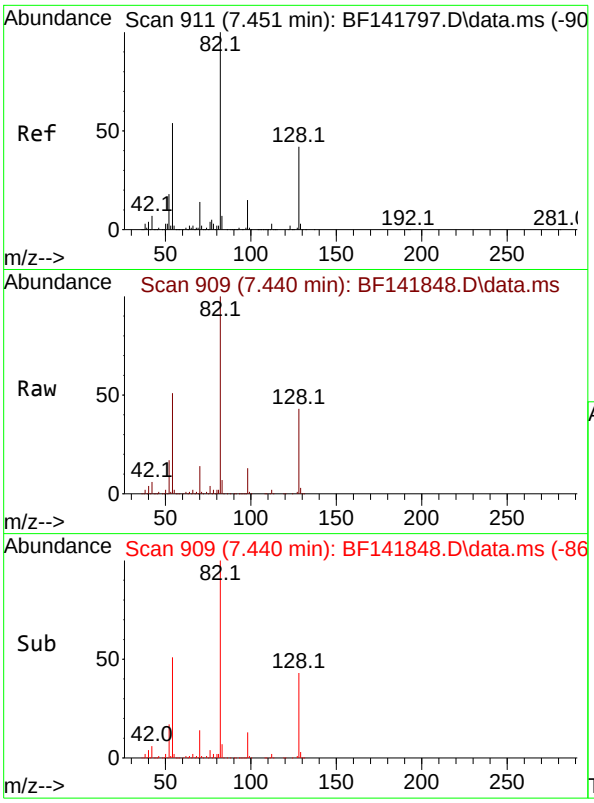




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

Tgt Ion:136 Resp: 688845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.9 | 13.3 |
| 54 | 8.2 | 6.9 | 10.3 |
| 68 | 6.3 | 5.1 | 7.7 |



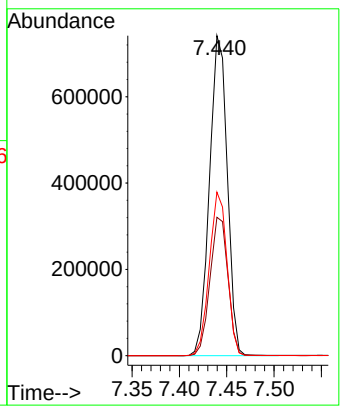


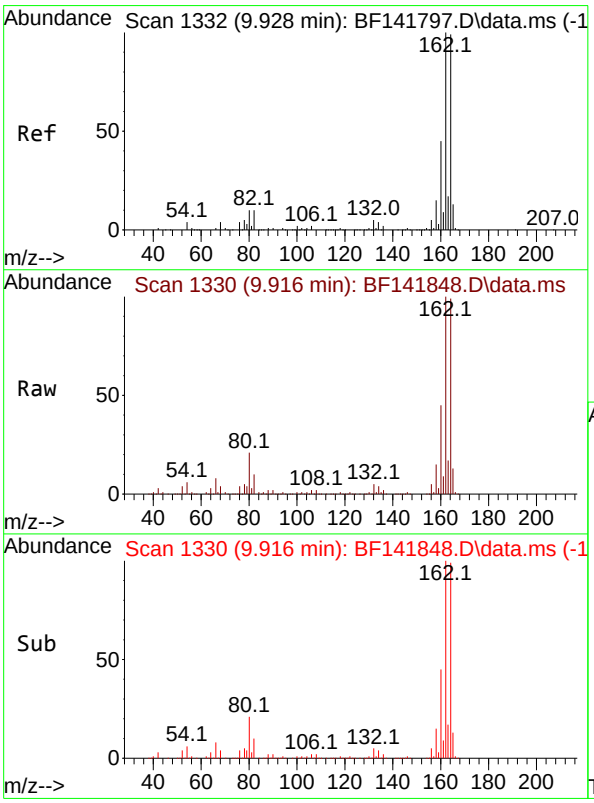

#23
Nitrobenzene-d5
Concen: 89.703 ng
RT: 7.440 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Tgt Ion: 82 Resp: 966701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.2 | 33.5 | 50.3 |
| 54 | 51.1 | 42.7 | 64.1 |

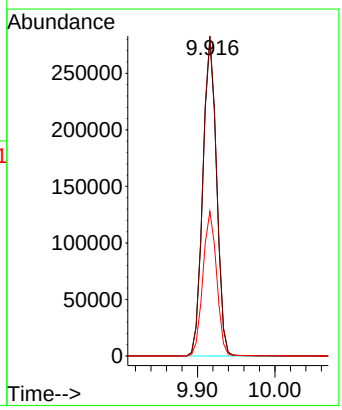


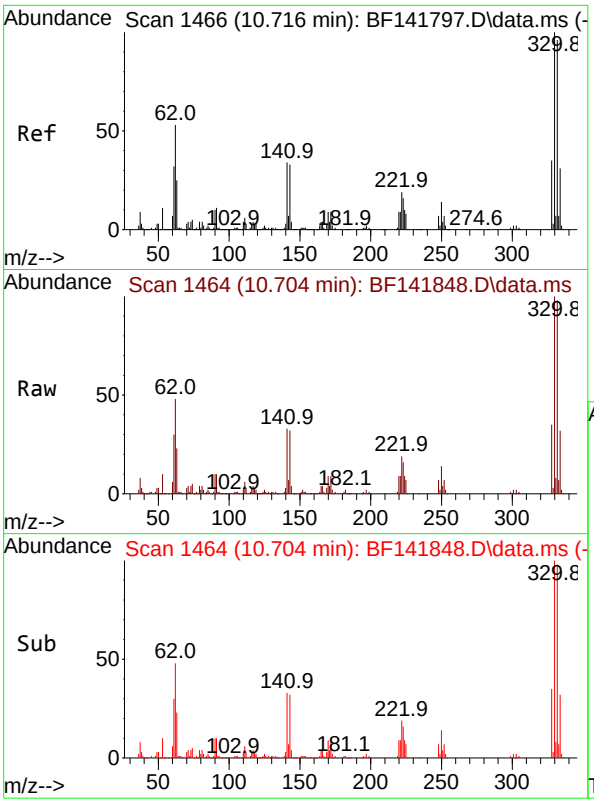




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

Tgt Ion:164 Resp: 344199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.1 | 80.6 | 120.8 |
| 160 | 45.7 | 36.3 | 54.5 |



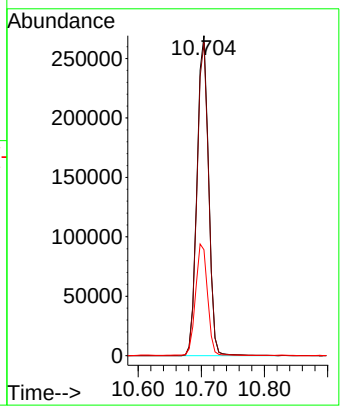


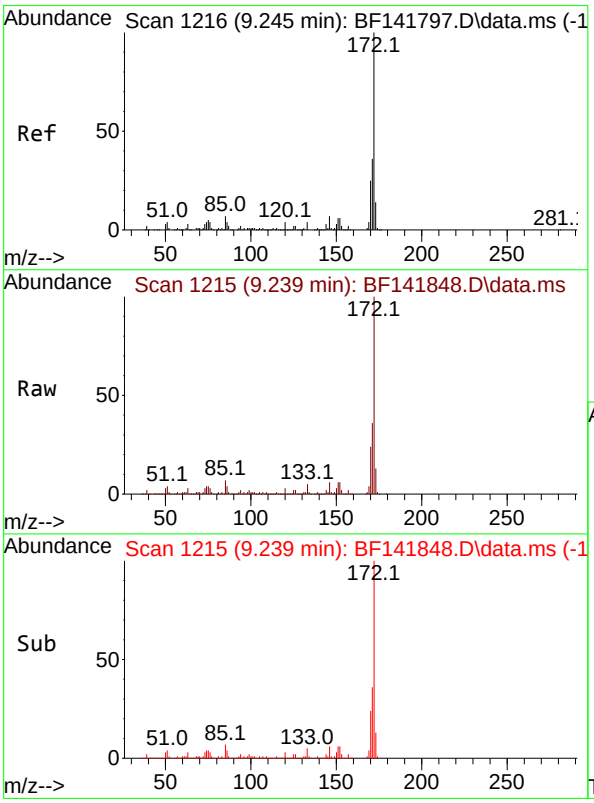

#42
2,4,6-Tribromophenol
Concen: 105.848 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Tgt Ion:330 Resp: 342039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.8 | 76.6 | 115.0 |
| 141 | 35.9 | 29.0 | 43.4 |

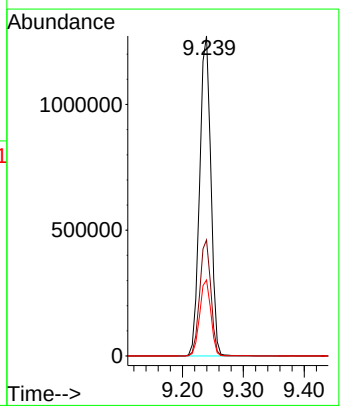


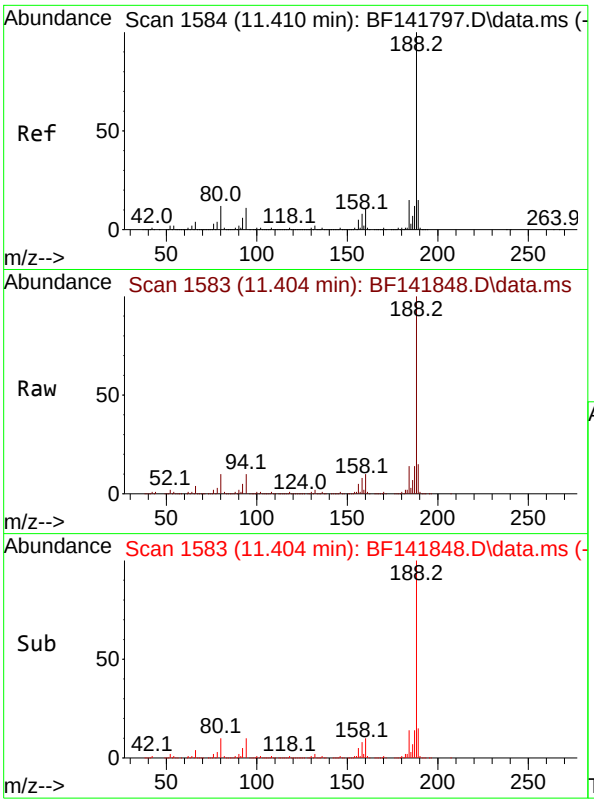




#45
2-Fluorobiphenyl
Concen: 75.836 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

Tgt Ion:172 Resp: 1627909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.3 | 29.2 | 43.8 |
| 170 | 23.8 | 19.7 | 29.5 |



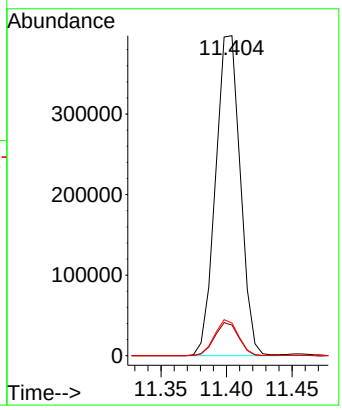


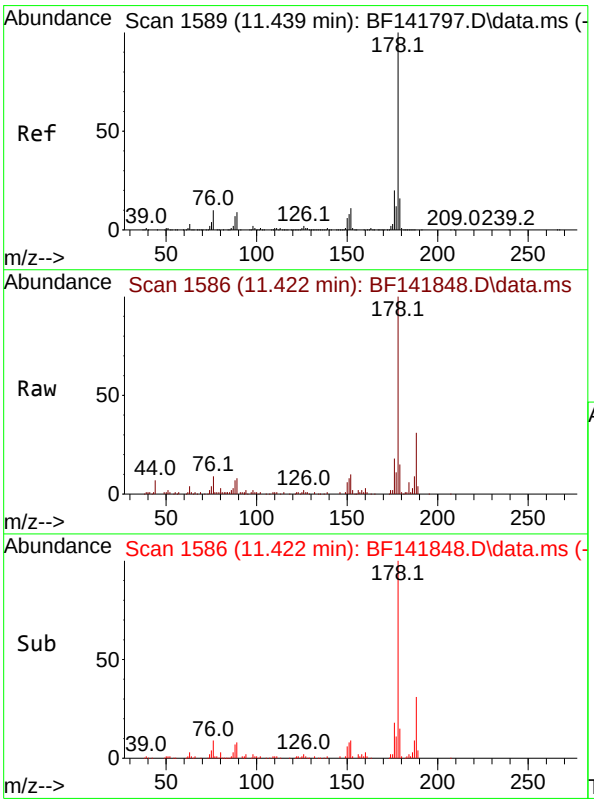

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Tgt Ion:188 Resp: 520985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.6 | 8.9 | 13.3 |
| 80 | 10.2 | 9.7 | 14.5 |

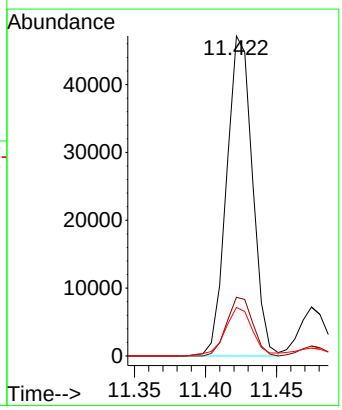


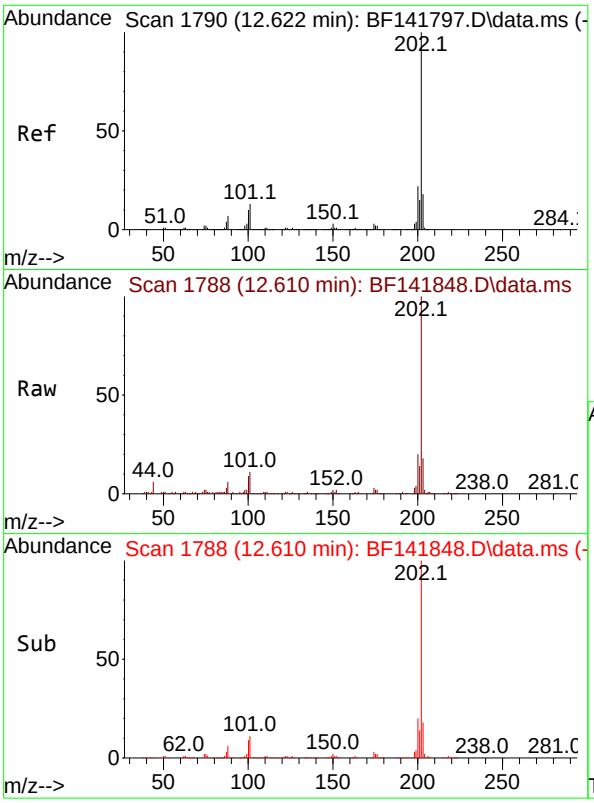




#71
Phenanthrene
Concen: 2.139 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.018 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

Tgt Ion:178 Resp: 59607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.4 | 16.0 | 24.0 |
| 179 | 15.2 | 12.6 | 19.0 |



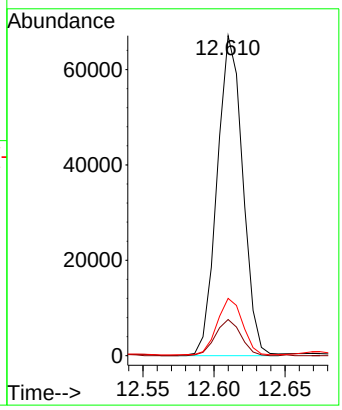


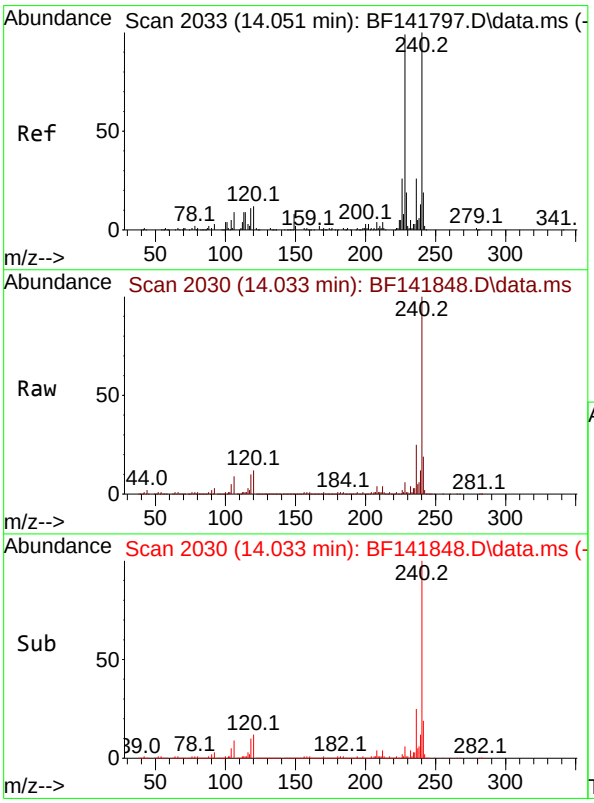

#75
Fluoranthene
Concen: 2.950 ng
RT: 12.610 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Tgt Ion:202 Resp: 84247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.3 | 0.0 | 32.8 |
| 203 | 17.9 | 0.0 | 38.0 |

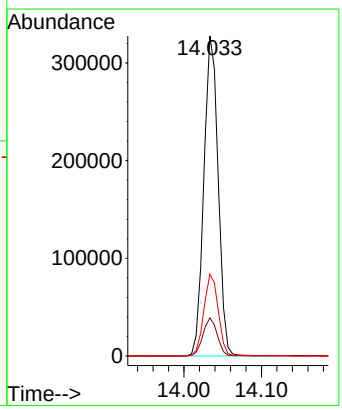


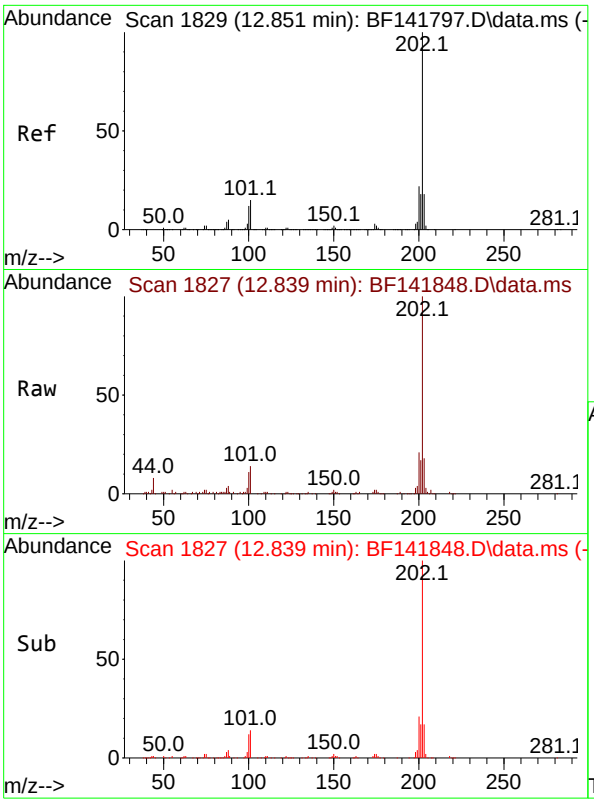




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.018 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

Tgt Ion:240 Resp: 419399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.9 | 9.7 | 14.5 |
| 236 | 25.5 | 21.0 | 31.4 |



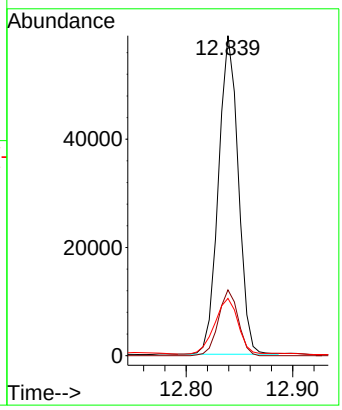


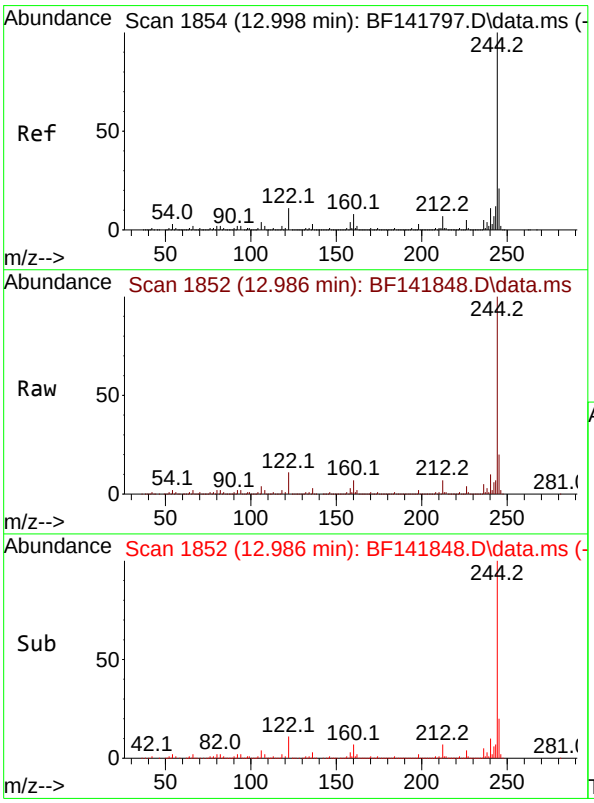

#78
Pyrene
Concen: 2.096 ng
RT: 12.839 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Tgt Ion:202 Resp: 76121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.6 | 17.4 | 26.0 |
| 203 | 17.9 | 14.6 | 22.0 |

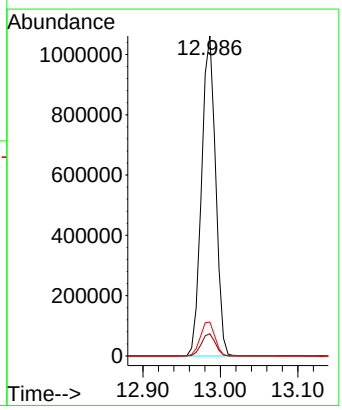


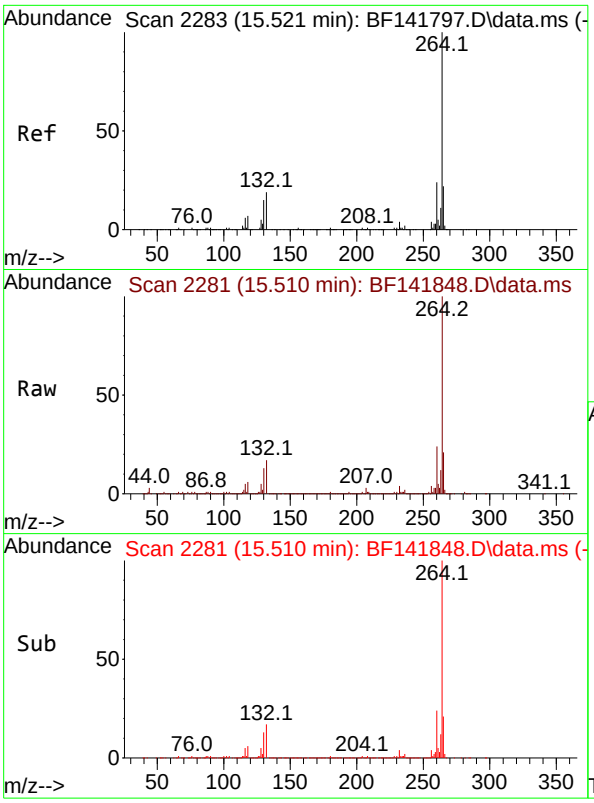




#79
Terphenyl-d14
Concen: 51.547 ng
RT: 12.986 min Scan# 1852
Delta R.T. -0.012 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

Tgt Ion:244 Resp: 1336212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.0 | 6.0 | 9.0 |
| 122 | 10.6 | 9.0 | 13.6 |



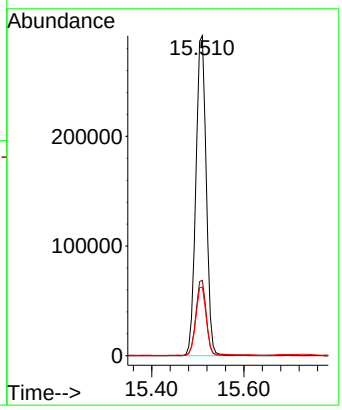



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141848.D
Acq: 05 Mar 2025 17:20

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Tgt Ion:264 Resp: 456966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.6 | 18.9 | 28.3 |
| 265 | 21.4 | 17.4 | 26.0 |



Sample Results: **BF141848.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141848.D
Acq On : 05 Mar 2025 17:20
Operator : RC/JU
Sample : Q1485-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141848.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.169 | 6 | 13 | 27 | rVB | 1156397 | 1854757 | 38.58% | 5.239% |
| 2 | 3.987 | 311 | 322 | 330 | rBV | 36495 | 63817 | 1.33% | 0.180% |
| 3 | 5.110 | 509 | 513 | 519 | rVB | 38323 | 61312 | 1.28% | 0.173% |
| 4 | 5.499 | 572 | 579 | 584 | rBV | 3258331 | 4363149 | 90.75% | 12.324% |
| 5 | 6.498 | 743 | 749 | 758 | rBV | 3150355 | 4398855 | 91.49% | 12.425% |
| 6 | 6.887 | 809 | 815 | 821 | rBV | 865206 | 1105448 | 22.99% | 3.122% |
| 7 | 7.440 | 900 | 909 | 914 | rBV | 2161176 | 2834318 | 58.95% | 8.006% |
| 8 | 7.693 | 947 | 952 | 961 | rVB | 83027 | 104801 | 2.18% | 0.296% |
| 9 | 8.163 | 1022 | 1032 | 1040 | rBV | 1148770 | 1501575 | 31.23% | 4.241% |
| 10 | 8.875 | 1146 | 1153 | 1159 | rBV | 64959 | 80940 | 1.68% | 0.229% |
| 11 | 8.975 | 1166 | 1170 | 1174 | rBV | 51868 | 61697 | 1.28% | 0.174% |
| 12 | 9.239 | 1209 | 1215 | 1220 | rBV | 3744161 | 4807903 | 100.00% | 13.580% |
| 13 | 9.916 | 1324 | 1330 | 1335 | rBV | 1196950 | 1489359 | 30.98% | 4.207% |
| 14 | 10.628 | 1445 | 1451 | 1458 | rBV | 345789 | 426474 | 8.87% | 1.205% |
| 15 | 10.698 | 1458 | 1463 | 1475 | rVV | 2081873 | 2794514 | 58.12% | 7.893% |
| 16 | 10.828 | 1480 | 1485 | 1495 | rVB2 | 34868 | 60781 | 1.26% | 0.172% |
| 17 | 11.404 | 1577 | 1583 | 1591 | rBV | 1004088 | 1461281 | 30.39% | 4.128% |
| 18 | 11.922 | 1664 | 1671 | 1683 | rBV2 | 303870 | 529681 | 11.02% | 1.496% |
| 19 | 12.610 | 1783 | 1788 | 1794 | rBV | 157096 | 200185 | 4.16% | 0.565% |
| 20 | 12.710 | 1800 | 1805 | 1812 | rBV2 | 39767 | 70168 | 1.46% | 0.198% |
| 21 | 12.839 | 1819 | 1827 | 1833 | rBV | 133485 | 207739 | 4.32% | 0.587% |
| 22 | 12.986 | 1844 | 1852 | 1857 | rBV | 2793868 | 3577618 | 74.41% | 10.105% |
| 23 | 13.463 | 1929 | 1933 | 1941 | rVB | 52370 | 74548 | 1.55% | 0.211% |
| 24 | 13.880 | 2000 | 2004 | 2014 | rBV | 142833 | 251139 | 5.22% | 0.709% |
| 25 | 14.033 | 2024 | 2030 | 2042 | rVB | 949532 | 1382162 | 28.75% | 3.904% |
| 26 | 15.074 | 2202 | 2207 | 2217 | rBV | 84380 | 196652 | 4.09% | 0.555% |
| 27 | 15.380 | 2255 | 2259 | 2264 | rVB | 44319 | 66441 | 1.38% | 0.188% |
| 28 | 15.439 | 2265 | 2269 | 2274 | rVV | 58875 | 87088 | 1.81% | 0.246% |
| 29 | 15.504 | 2275 | 2280 | 2293 | rVB | 782185 | 1288902 | 26.81% | 3.641% |

Sum of corrected areas: 35403304

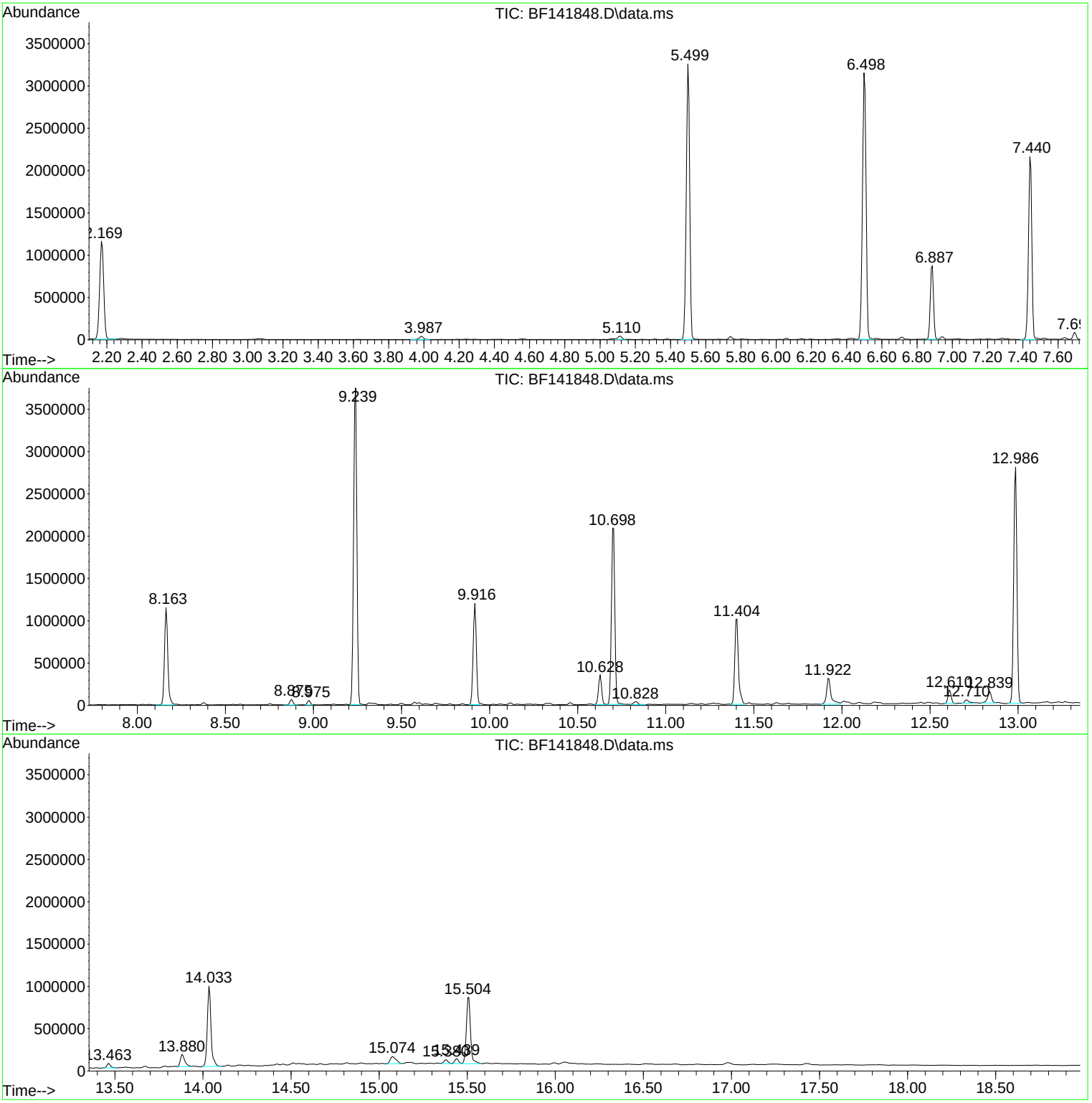
Sample Results: **BF141848.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141848.D
Acq On : 05 Mar 2025 17:20
Operator : RC/JU
Sample : Q1485-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141848.D
Acq On : 05 Mar 2025 17:20
Operator : RC/JU
Sample : Q1485-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

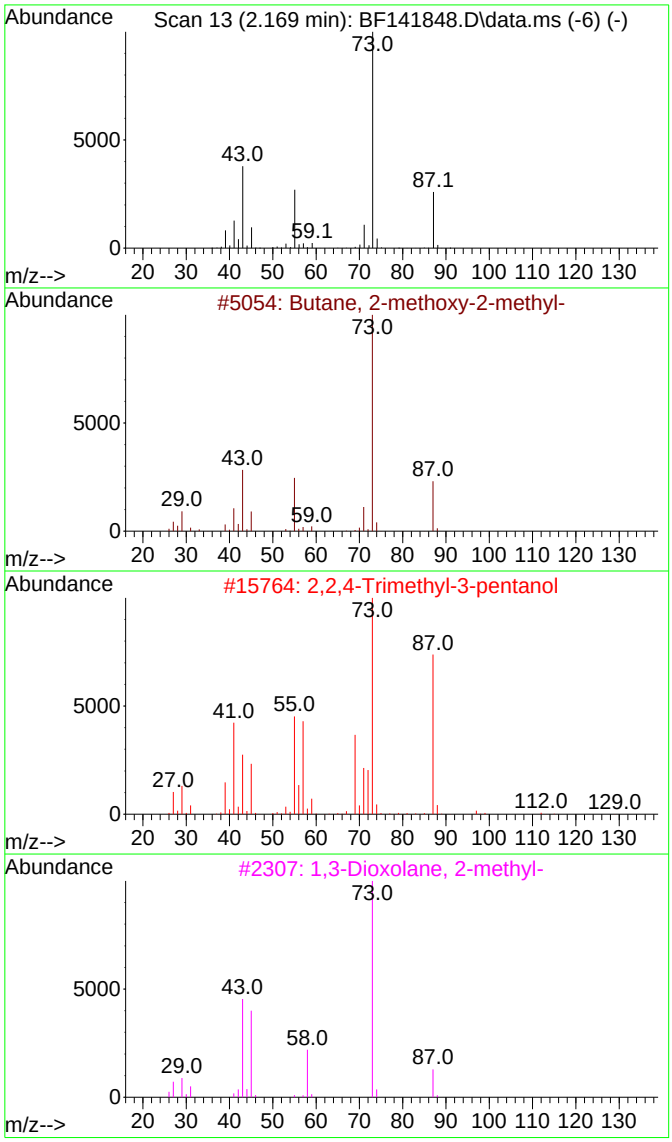
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

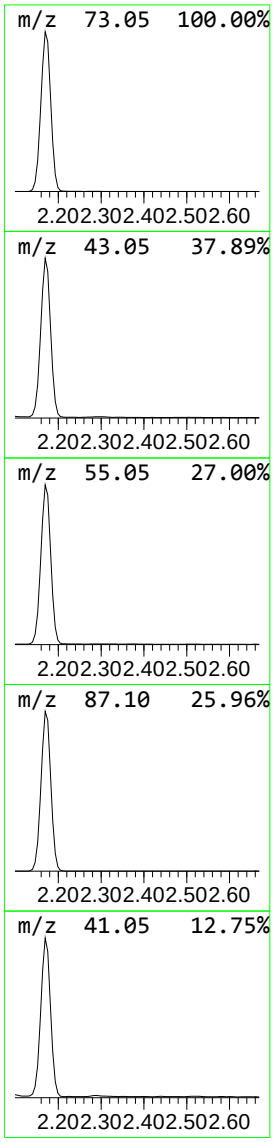
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.169 | 33.56 ng | 1854760 | 1,4-Dichlorobenzene-d4 | 6.887 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 78 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 40 |
| 3 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 37 |
| 4 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 17 |
| 5 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 12 |



Sample Results: **BF141848.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141848.D
Acq On : 05 Mar 2025 17:20
Operator : RC/JU
Sample : Q1485-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

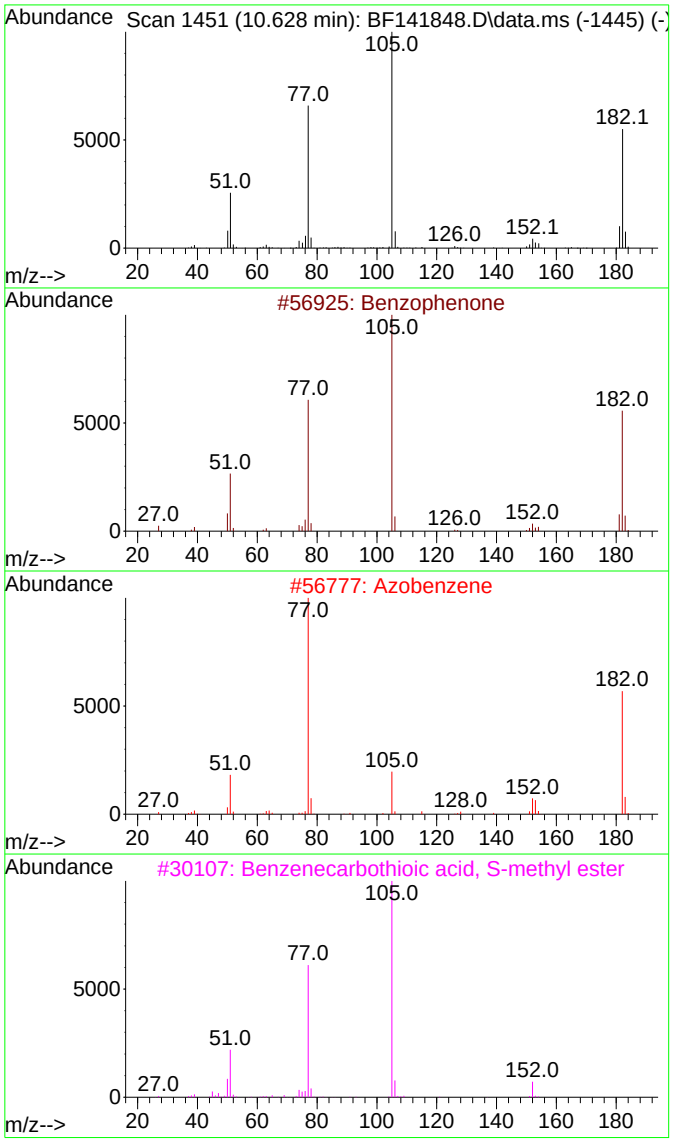
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

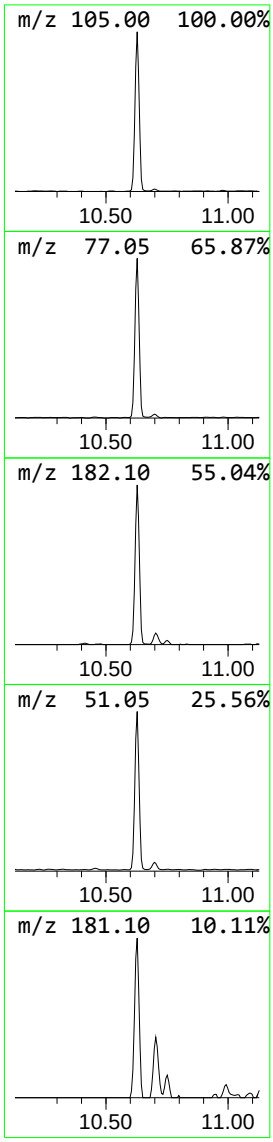
**********

Peak Number 2 Benzophenone Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.628 | 5.73 ng | 426474 | Acenaphthene-d10 | 9.916 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzophenone | 182 | C13H10O | 000119-61-9 | 96 |
| 2 | Azobenzene | 182 | C12H10N2 | 000103-33-3 | 64 |
| 3 | Benzenecarbothioic acid, S-methy... | 152 | C8H8OS | 005925-68-8 | 49 |
| 4 | Acetophenone, 2-chloro- | 154 | C8H7ClO | 000532-27-4 | 49 |
| 5 | N-Methoxy-N-methylbenzamide | 165 | C9H11NO2 | 006919-61-5 | 47 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141848.D
Acq On : 05 Mar 2025 17:20
Operator : RC/JU
Sample : Q1485-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

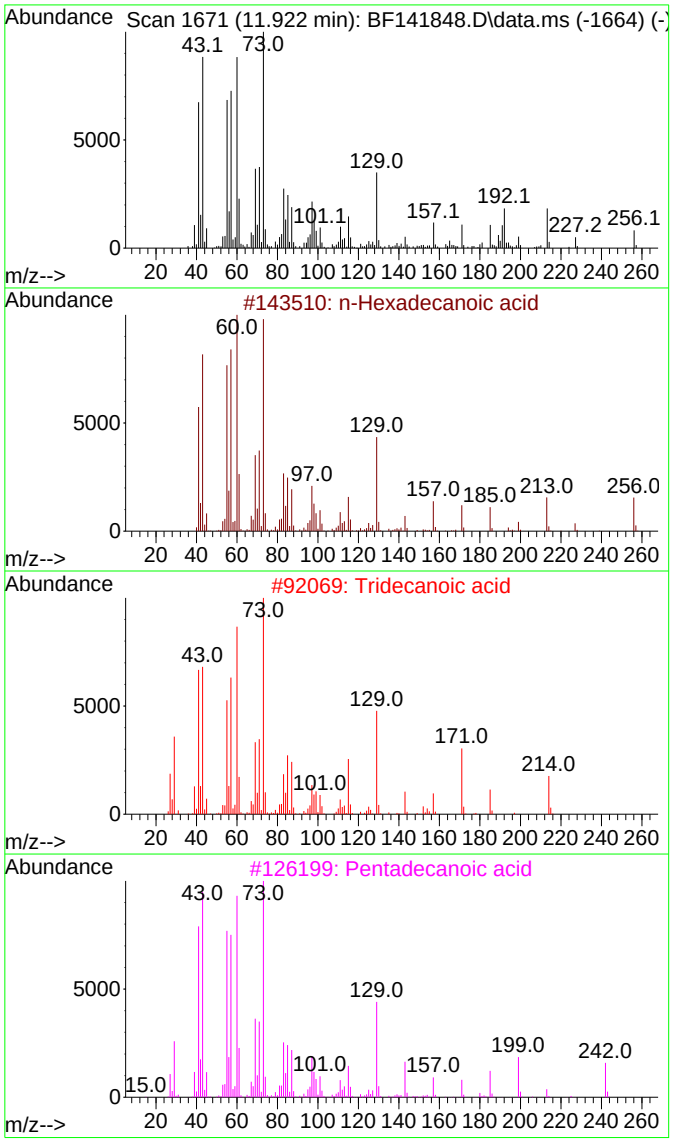
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

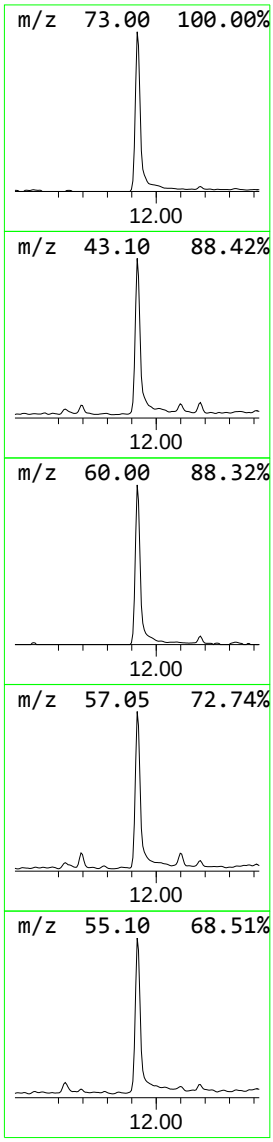
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.922 | 7.25 ng | 529681 | Phenanthrene-d10 | 11.404 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 96 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 87 |
| 4 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 64 |
| 5 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 53 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141848.D
Acq On : 05 Mar 2025 17:20
Operator : RC/JU
Sample : Q1485-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

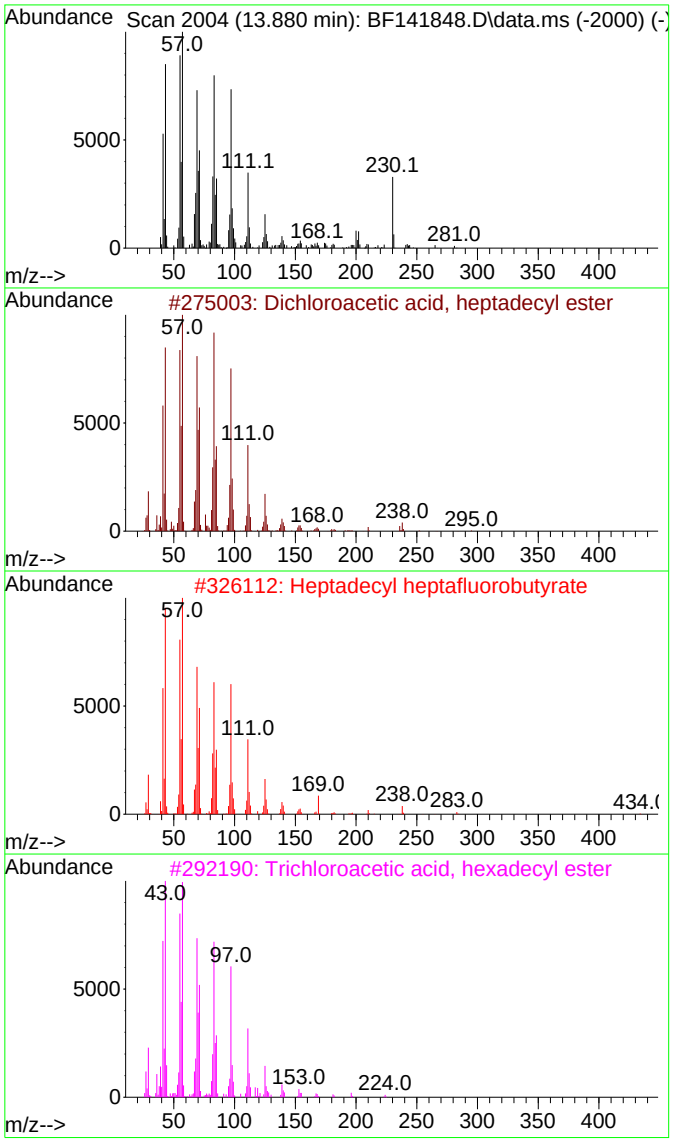
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

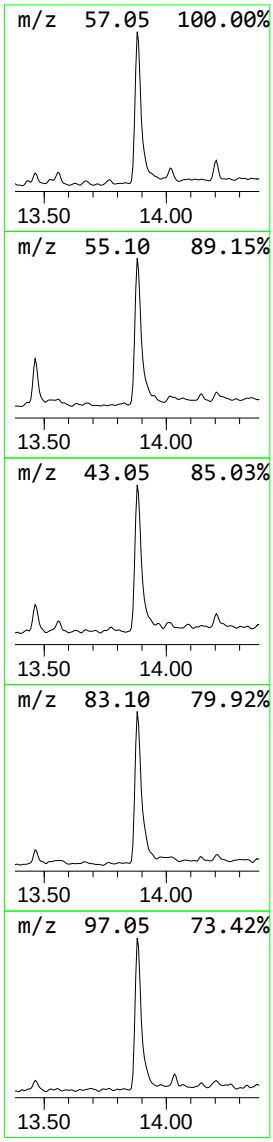
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 Dichloroacetic acid, heptad... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.880 | 3.63 ng | 251139 | Chrysene-d12 | 14.033 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 95 |
| 2 | Heptadecyl heptafluorobutyrate | 452 | C21H35F7O2 | 959085-66-6 | 94 |
| 3 | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1 | 94 |
| 4 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 94 |
| 5 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 94 |



Sample Results: **BF141848.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141848.D
Acq On : 05 Mar 2025 17:20
Operator : RC/JU
Sample : Q1485-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

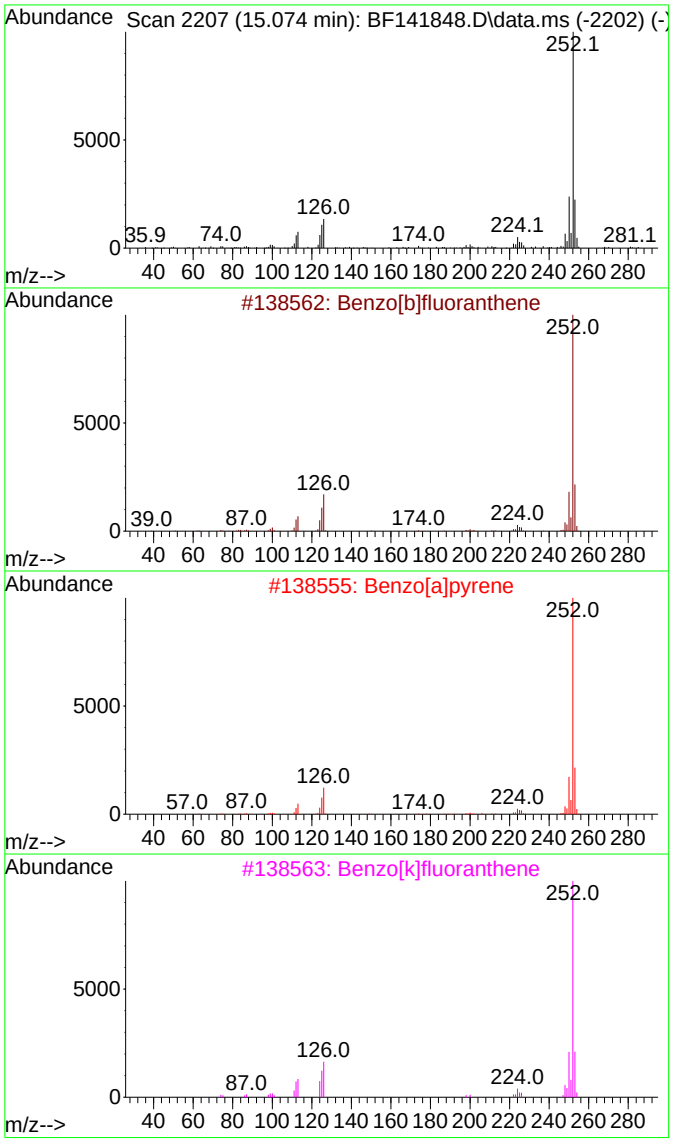
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

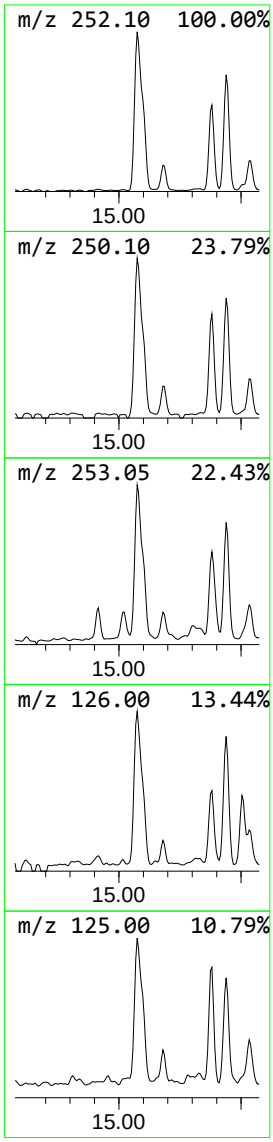
**********

Peak Number 5 Benzo[e]pyrene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.074 | 3.05 ng | 196652 | Perylene-d12 | 15.510 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]fluoranthene | 252 | C20H12 | 000205-99-2 | 96 |
| 2 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 96 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 96 |
| 4 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 95 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 87 |



Sample Results: **BF141848.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141848.D
Acq On : 05 Mar 2025 17:20
Operator : RC/JU
Sample : Q1485-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-41

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane, 2-metho... | 2.169 | 33.6 | ng | 1854760 | 1 | 6.887 | 1105450 | 20.0 |
| Benzophenone | 10.628 | 5.7 | ng | 426474 | 3 | 9.916 | 1489360 | 20.0 |
| n-Hexadecanoic ... | 11.922 | 7.3 | ng | 529681 | 4 | 11.404 | 1461280 | 20.0 |
| Dichloroacetic ... | 13.880 | 3.6 | ng | 251139 | 5 | 14.033 | 1382160 | 20.0 |
| Benzo[e]pyrene | 15.074 | 3.0 | ng | 196652 | 6 | 15.510 | 1288900 | 20.0 |

# CALIBRATION SUMMARY

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1485 SAS No.: Q1485 SDG No.: Q1485

Instrument ID: BNA_F Calibration Date(s): 02/27/2025 02/27/2025

Calibration Time(s): 15:17 18:45

LAB FILE ID: RRF2.5 = BF141793.D RRF005 = BF141794.D RRF010 = BF141795.D
RRF020 = BF141796.D RRF040 = BF141797.D RRF050 = BF141798.D

| COMPOUND | RRF2.5 | RRF005 | RRF010 | RRF020 | RRF040 | RRF050 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | | 1.348 | 1.315 | 1.326 | 1.286 | 1.185 | 1.252 | 6.9 |
| Benzaldehyde | | 1.151 | 1.088 | 1.024 | 0.982 | 0.874 | 0.948 | 16.8 |
| Phenol-d6 | | 1.750 | 1.707 | 1.728 | 1.684 | 1.541 | 1.630 | 6.9 |
| Phenol | | 1.854 | 1.823 | 1.866 | 1.819 | 1.641 | 1.742 | 7.3 |
| bis(2-Chloroethyl)ether | | 1.377 | 1.376 | 1.392 | 1.339 | 1.279 | 1.328 | 4.3 |
| 2-Chlorophenol | | 1.442 | 1.406 | 1.439 | 1.412 | 1.299 | 1.355 | 6.7 |
| 2-Methylphenol | | 1.155 | 1.132 | 1.165 | 1.164 | 1.079 | 1.118 | 4.2 |
| 2,2-oxybis(1-Chloropropane) | | 2.139 | 2.094 | 2.149 | 2.079 | 1.930 | 2.016 | 6.5 |
| Acetophenone | | 0.539 | 0.517 | 0.512 | 0.497 | 0.456 | 0.487 | 8.0 |
| 3+4-Methylphenols | | 1.507 | 1.510 | 1.506 | 1.442 | 1.304 | 1.392 | 9.3 |
| n-Nitroso-di-n-propylamine | 1.133 | 1.136 | 1.105 | 1.120 | 1.087 | 1.009 | 1.072 | 6.0 |
| Nitrobenzene-d5 | | 0.248 | 0.271 | 0.318 | 0.341 | 0.332 | 0.313 | 12.1 |
| Hexachloroethane | | 0.559 | 0.542 | 0.575 | 0.578 | 0.533 | 0.547 | 4.4 |
| Nitrobenzene | | 0.273 | 0.303 | 0.346 | 0.363 | 0.349 | 0.335 | 10.1 |
| Isophorone | | 0.702 | 0.682 | 0.690 | 0.682 | 0.642 | 0.672 | 3.4 |
| 2-Nitrophenol | | 0.079 | 0.090 | 0.116 | 0.144 | 0.145 | 0.127 | 25.2 |
| 2,4-Dimethylphenol | | 0.258 | 0.250 | 0.256 | 0.254 | 0.238 | 0.247 | 3.9 |
| bis(2-Chloroethoxy)methane | | 0.463 | 0.448 | 0.450 | 0.435 | 0.404 | 0.429 | 6.2 |
| 2,4-Dichlorophenol | | 0.280 | 0.288 | 0.296 | 0.298 | 0.277 | 0.285 | 3.2 |
| Naphthalene | | 1.140 | 1.097 | 1.100 | 1.043 | 0.960 | 1.028 | 8.7 |
| 4-Chloroaniline | | 0.402 | 0.392 | 0.398 | 0.379 | 0.350 | 0.377 | 5.7 |
| Hexachlorobutadiene | | 0.199 | 0.193 | 0.202 | 0.199 | 0.188 | 0.194 | 3.0 |
| Caprolactam | | 0.087 | 0.086 | 0.090 | 0.091 | 0.085 | 0.088 | 2.8 |
| 4-Chloro-3-methylphenol | | 0.333 | 0.316 | 0.329 | 0.326 | 0.300 | 0.317 | 4.2 |
| 2-Methylnaphthalene | | 0.762 | 0.725 | 0.723 | 0.677 | 0.621 | 0.674 | 9.7 |
| Hexachlorocyclopentadiene | | 0.217 | 0.230 | 0.252 | 0.258 | 0.246 | 0.241 | 5.9 |
| 2,4,6-Trichlorophenol | | 0.355 | 0.368 | 0.381 | 0.398 | 0.366 | 0.373 | 3.7 |
| 2-Fluorobiphenyl | | 1.443 | 1.387 | 1.346 | 1.237 | 1.128 | 1.247 | 11.9 |
| 2,4,5-Trichlorophenol | | 0.348 | 0.364 | 0.388 | 0.383 | 0.364 | 0.369 | 3.9 |
| 1,1-Biphenyl | | 1.694 | 1.659 | 1.630 | 1.519 | 1.413 | 1.522 | 9.4 |
| 2-Chloronaphthalene | | 1.211 | 1.184 | 1.201 | 1.135 | 1.058 | 1.124 | 7.1 |
| 2-Nitroaniline | | 0.152 | 0.187 | 0.246 | 0.300 | 0.297 | 0.260 | 26.0 |
| Dimethylphthalate | | 1.431 | 1.405 | 1.405 | 1.363 | 1.262 | 1.339 | 6.1 |
| Acenaphthylene | | 1.847 | 1.809 | 1.798 | 1.711 | 1.560 | 1.685 | 8.5 |

All other compounds must meet a minimum RRF of 0.010.

Raw Data

Alliance TECHNICAL GROUP

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1485 SAS No.: Q1485 SDG No.: Q1485

Instrument ID: BNA_F Calibration Date(s): 02/27/2025 02/27/2025

Calibration Time(s): 15:17 18:45

LAB FILE ID: RRF2.5 = BF141793.D RRF005 = BF141794.D RRF010 = BF141795.D
RRF020 = BF141796.D RRF040 = BF141797.D RRF050 = BF141798.D

| COMPOUND | RRF2.5 | RRF005 | RRF010 | RRF020 | RRF040 | RRF050 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | | 0.136 | 0.184 | 0.231 | 0.257 | 0.251 | 0.226 | 21.5 |
| 3-Nitroaniline | | 0.146 | 0.193 | 0.243 | 0.277 | 0.264 | 0.241 | 21.7 |
| Acenaphthene | | 1.217 | 1.201 | 1.197 | 1.150 | 1.068 | 1.137 | 6.4 |
| 2,4-Dinitrophenol | | | 0.049 | 0.066 | 0.093 | 0.096 | 0.089 | 29.7 |
| 4-Nitrophenol | | 0.129 | 0.159 | 0.197 | 0.228 | 0.215 | 0.198 | 19.9 |
| Dibenzofuran | | 1.850 | 1.794 | 1.765 | 1.663 | 1.532 | 1.654 | 9.4 |
| 2,4-Dinitrotoluene | | 0.151 | 0.198 | 0.265 | 0.313 | 0.310 | 0.269 | 25.6 |
| Diethylphthalate | | 1.429 | 1.413 | 1.428 | 1.383 | 1.259 | 1.343 | 6.8 |
| 4-Chlorophenyl-phenylether | | 0.691 | 0.665 | 0.654 | 0.620 | 0.572 | 0.621 | 8.1 |
| Fluorene | | 1.433 | 1.367 | 1.313 | 1.228 | 1.128 | 1.239 | 11.0 |
| 4-Nitroaniline | | 0.149 | 0.187 | 0.229 | 0.267 | 0.248 | 0.229 | 19.5 |
| 4,6-Dinitro-2-methylphenol | | | 0.043 | 0.063 | 0.087 | 0.090 | 0.081 | 28.9 |
| n-Nitrosodiphenylamine | | 0.702 | 0.681 | 0.689 | 0.665 | 0.631 | 0.657 | 5.6 |
| 2,4,6-Tribromophenol | | 0.175 | 0.179 | 0.188 | 0.199 | 0.183 | 0.188 | 4.8 |
| 4-Bromophenyl-phenylether | | 0.241 | 0.237 | 0.239 | 0.238 | 0.227 | 0.234 | 2.9 |
| Hexachlorobenzene | | 0.253 | 0.249 | 0.255 | 0.251 | 0.240 | 0.247 | 2.8 |
| Atrazine | | 0.213 | 0.208 | 0.196 | 0.179 | 0.149 | 0.181 | 17.1 |
| Pentachlorophenol | | 0.137 | 0.146 | 0.161 | 0.169 | 0.159 | 0.156 | 7.1 |
| Phenanthrene | | 1.186 | 1.152 | 1.134 | 1.073 | 1.001 | 1.070 | 8.6 |
| Anthracene | | 1.203 | 1.156 | 1.155 | 1.068 | 1.002 | 1.072 | 9.5 |
| Carbazole | | 1.074 | 1.010 | 1.014 | 0.955 | 0.882 | 0.947 | 9.7 |
| Di-n-butylphthalate | | 1.335 | 1.291 | 1.291 | 1.208 | 1.128 | 1.200 | 9.3 |
| Fluoranthene | | 1.285 | 1.217 | 1.192 | 1.089 | 0.992 | 1.096 | 12.7 |
| Pyrene | | 1.698 | 1.687 | 1.815 | 1.796 | 1.738 | 1.732 | 3.3 |
| Terphenyl-d14 | | 1.250 | 1.233 | 1.297 | 1.259 | 1.230 | 1.236 | 3.4 |
| Butylbenzylphthalate | | 0.546 | 0.579 | 0.643 | 0.668 | 0.650 | 0.629 | 7.5 |
| 3,3-Dichlorobenzidine | | 0.406 | 0.380 | 0.382 | 0.393 | 0.364 | 0.379 | 4.3 |
| Benzo(a)anthracene | | 1.367 | 1.387 | 1.384 | 1.312 | 1.244 | 1.321 | 4.5 |
| Chrysene | | 1.303 | 1.184 | 1.235 | 1.265 | 1.185 | 1.218 | 4.4 |
| Bis(2-ethylhexyl)phthalate | | 0.702 | 0.696 | 0.788 | 0.832 | 0.811 | 0.783 | 7.6 |
| Di-n-octyl phthalate | | 0.903 | 0.922 | 1.109 | 1.307 | 1.304 | 1.173 | 16.6 |
| Benzo(b)fluoranthene | | 1.442 | 1.396 | 1.533 | 1.306 | 1.232 | 1.362 | 7.8 |
| Benzo(k)fluoranthene | | 1.274 | 1.240 | 1.098 | 1.214 | 1.165 | 1.158 | 7.7 |
| Benzo(a)pyrene | | 1.113 | 1.083 | 1.133 | 1.119 | 1.060 | 1.093 | 2.7 |
| Indeno(1,2,3-cd)pyrene | | 1.097 | 1.126 | 1.240 | 1.346 | 1.337 | 1.274 | 9.5 |

All other compounds must meet a minimum RRF of 0.010.

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1485 SAS No.: Q1485 SDG No.: Q1485

Instrument ID: BNA_F Calibration Date(s): 02/27/2025 02/27/2025

Calibration Time(s): 15:17 18:45

LAB FILE ID: RRF2.5 = BF141793.D RRF005 = BF141794.D RRF010 = BF141795.D
RRF020 = BF141796.D RRF040 = BF141797.D RRF050 = BF141798.D

| COMPOUND | RRF2.5 | RRF005 | RRF010 | RRF020 | RRF040 | RRF050 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dibenzo(a,h)anthracene | | 0.902 | 0.931 | 1.025 | 1.109 | 1.094 | 1.040 | 8.6 |
| Benzo(g,h,i)perylene | | 0.898 | 0.929 | 1.034 | 1.130 | 1.129 | 1.065 | 10.6 |
| 1,2,4,5-Tetrachlorobenzene | | 0.609 | 0.600 | 0.602 | 0.589 | 0.549 | 0.578 | 5.0 |
| 1,4-Dioxane | | 0.613 | 0.554 | 0.576 | 0.596 | 0.545 | 0.568 | 4.8 |
| 2,3,4,6-Tetrachlorophenol | | 0.313 | 0.314 | 0.336 | 0.339 | 0.309 | 0.321 | 3.7 |

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141793.D 5 =BF141794.D 10 =BF141795.D 20 =BF141796.D 40 =BF141797.D 50 =BF141798.D 60 =BF141799.D 80 =BF141800.D

| | | Compound | 2.5 | 5 | 10 | 20 | 40 | 50 | 60 | 80 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ---------- | ISTD | ---------- | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.613 | 0.554 | 0.576 | 0.596 | 0.545 | 0.554 | 0.541 | 0.568 | 4.81 |
| 3) | | Pyridine | | 1.403 | 1.412 | 1.486 | 1.476 | 1.380 | 1.389 | 1.350 | 1.414 | 3.54 |
| 4) | | n-Nitrosodimet... | | 0.634 | 0.666 | 0.689 | 0.730 | 0.674 | 0.686 | 0.683 | 0.680 | 4.21 |
| 5) | S | 2-Fluorophenol | | 1.348 | 1.315 | 1.326 | 1.286 | 1.185 | 1.176 | 1.131 | 1.252 | 6.91 |
| 6) | | Aniline | | 1.746 | 1.727 | 1.805 | 1.809 | 1.642 | 1.625 | 1.509 | 1.695 | 6.42 |
| 7) | S | Phenol-d6 | | 1.750 | 1.707 | 1.728 | 1.684 | 1.541 | 1.523 | 1.477 | 1.630 | 6.90 |
| 8) | | 2-Chlorophenol | | 1.442 | 1.406 | 1.439 | 1.412 | 1.299 | 1.266 | 1.220 | 1.355 | 6.72 |
| 9) | | Benzaldehyde | | 1.151 | 1.088 | 1.024 | 0.982 | 0.874 | 0.824 | 0.694 | 0.948 | 16.84 |
| 10) | C | Phenol | | 1.854 | 1.823 | 1.866 | 1.819 | 1.641 | 1.625 | 1.564 | 1.742 | 7.26 |
| 11) | | bis(2-Chloroet... | | 1.377 | 1.376 | 1.392 | 1.339 | 1.279 | 1.265 | 1.265 | 1.328 | 4.26 |
| 12) | | 1,3-Dichlorobe... | | 1.544 | 1.520 | 1.541 | 1.504 | 1.378 | 1.361 | 1.308 | 1.451 | 6.80 |
| 13) | C | 1,4-Dichlorobe... | | 1.554 | 1.533 | 1.549 | 1.512 | 1.390 | 1.377 | 1.317 | 1.462 | 6.66 |
| 14) | | 1,2-Dichlorobe... | | 1.493 | 1.444 | 1.476 | 1.401 | 1.286 | 1.270 | 1.186 | 1.365 | 8.63 |
| 15) | | Benzyl Alcohol | | 1.347 | 1.353 | 1.374 | 1.366 | 1.258 | 1.241 | 1.180 | 1.303 | 5.82 |
| 16) | | 2,2'-oxybis(1-... | | 2.139 | 2.094 | 2.149 | 2.079 | 1.930 | 1.910 | 1.814 | 2.016 | 6.47 |
| 17) | | 2-Methylphenol | | 1.155 | 1.132 | 1.165 | 1.164 | 1.079 | 1.084 | 1.049 | 1.118 | 4.22 |
| 18) | | Hexachloroethane | | 0.559 | 0.542 | 0.575 | 0.578 | 0.533 | 0.530 | 0.513 | 0.547 | 4.39 |
| 19) | P | n-Nitroso-di-n... | 1.133 | 1.136 | 1.105 | 1.120 | 1.087 | 1.009 | 1.007 | 0.975 | 1.072 | 6.01 |
| 20) | | 3+4-Methylphenols | | 1.507 | 1.510 | 1.506 | 1.442 | 1.304 | 1.281 | 1.198 | 1.392 | 9.29 |
| 21) | I | Naphthalene-d8 | ---------- | ISTD | ---------- | | | | | | | |
| 22) | | Acetophenone | | 0.539 | 0.517 | 0.512 | 0.497 | 0.456 | 0.455 | 0.434 | 0.487 | 8.04 |
| 23) | S | Nitrobenzene-d5 | | 0.248 | 0.271 | 0.318 | 0.341 | 0.332 | 0.340 | 0.339 | 0.313 | 12.10 |
| 24) | | Nitrobenzene | | 0.273 | 0.303 | 0.346 | 0.363 | 0.349 | 0.357 | 0.354 | 0.335 | 10.07 |
| 25) | | Isophorone | | 0.702 | 0.682 | 0.690 | 0.682 | 0.642 | 0.659 | 0.649 | 0.672 | 3.35 |
| 26) | C | 2-Nitrophenol | | 0.079 | 0.090 | 0.116 | 0.144 | 0.145 | 0.155 | 0.158 | 0.127 | 25.21 |
| 27) | | 2,4-Dimethylph... | | 0.258 | 0.250 | 0.256 | 0.254 | 0.238 | 0.238 | 0.236 | 0.247 | 3.87 |
| 28) | | bis(2-Chloroet... | | 0.463 | 0.448 | 0.450 | 0.435 | 0.404 | 0.408 | 0.394 | 0.429 | 6.19 |
| 29) | C | 2,4-Dichloroph... | | 0.280 | 0.288 | 0.296 | 0.298 | 0.277 | 0.281 | 0.275 | 0.285 | 3.20 |
| 30) | | 1,2,4-Trichlor... | | 0.328 | 0.321 | 0.327 | 0.319 | 0.298 | 0.301 | 0.292 | 0.312 | 4.71 |
| 31) | | Naphthalene | | 1.140 | 1.097 | 1.100 | 1.043 | 0.960 | 0.950 | 0.906 | 1.028 | 8.74 |
| 32) | | Benzoic acid | | | 0.099 | 0.145 | 0.191 | 0.200 | 0.215 | 0.226 | 0.179 | 26.89 |
| 33) | | 4-Chloroaniline | | 0.402 | 0.392 | 0.398 | 0.379 | 0.350 | 0.356 | 0.360 | 0.377 | 5.66 |
| 34) | C | Hexachlorobuta... | | 0.199 | 0.193 | 0.202 | 0.199 | 0.188 | 0.191 | 0.187 | 0.194 | 2.98 |
| 35) | | Caprolactam | | 0.087 | 0.086 | 0.090 | 0.091 | 0.085 | 0.089 | 0.086 | 0.088 | 2.77 |
| 36) | C | 4-Chloro-3-met... | | 0.333 | 0.316 | 0.329 | 0.326 | 0.300 | 0.310 | 0.303 | 0.317 | 4.16 |
| 37) | | 2-Methylnaphth... | | 0.762 | 0.725 | 0.723 | 0.677 | 0.621 | 0.619 | 0.591 | 0.674 | 9.66 |
| 38) | | 1-Methylnaphth... | | 0.734 | 0.688 | 0.697 | 0.652 | 0.594 | 0.594 | 0.570 | 0.647 | 9.67 |

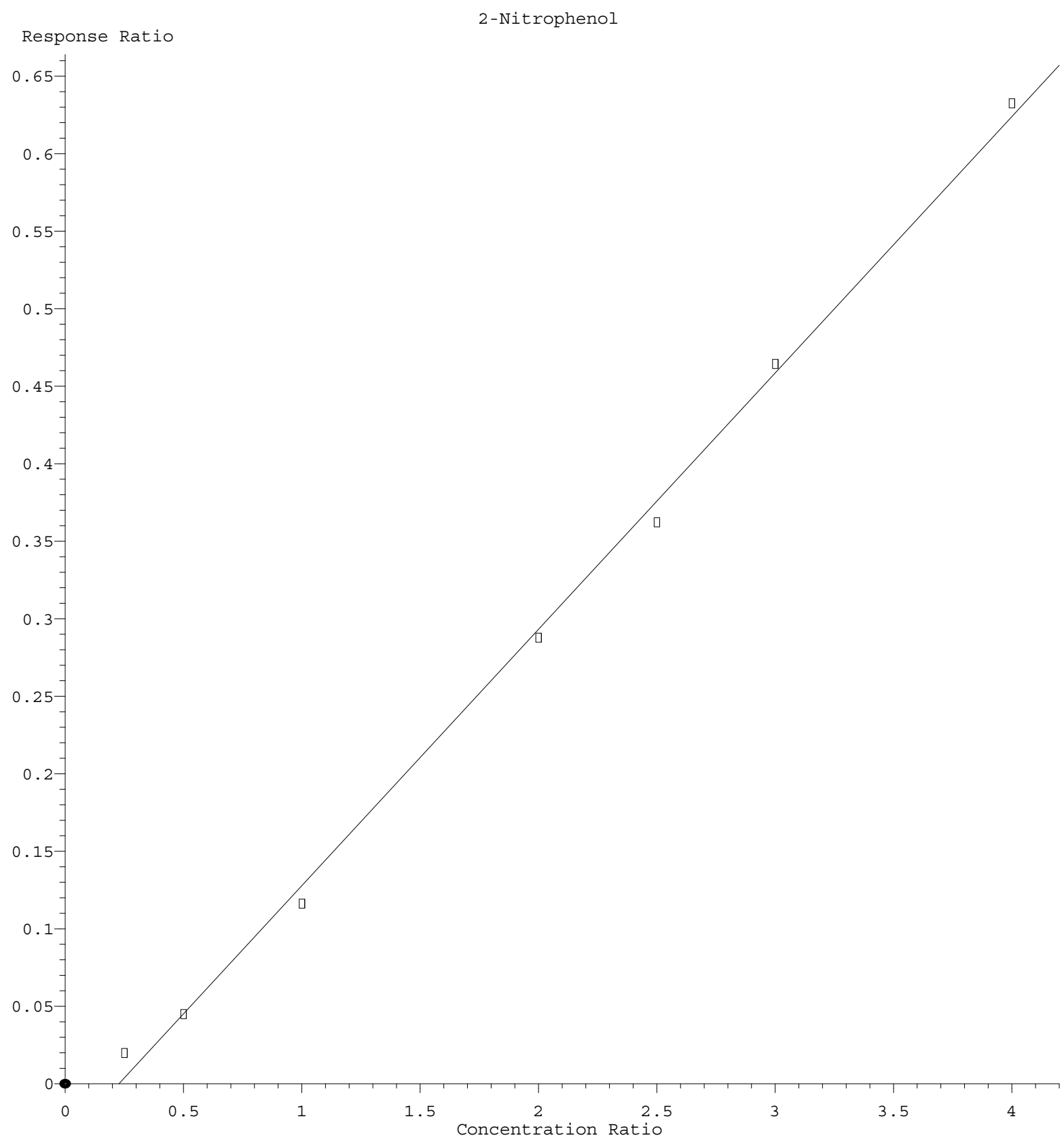
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 40) | | 1,2,4,5-Tetrac... | 0.609 | 0.600 | 0.602 | 0.589 | 0.549 | 0.553 | 0.540 | 0.578 | 5.03 |
| 41) | P | Hexachlorocycl... | 0.217 | 0.230 | 0.252 | 0.258 | 0.246 | 0.247 | 0.236 | 0.241 | 5.87 |
| 42) | S | 2,4,6-Tribromo... | 0.175 | 0.179 | 0.188 | 0.199 | 0.183 | 0.196 | 0.194 | 0.188 | 4.80 |
| 43) | C | 2,4,6-Trichlor... | 0.355 | 0.368 | 0.381 | 0.398 | 0.366 | 0.368 | 0.377 | 0.373 | 3.65 |
| 44) | | 2,4,5-Trichlor... | 0.348 | 0.364 | 0.388 | 0.383 | 0.364 | 0.380 | 0.360 | 0.369 | 3.89 |
| 45) | S | 2-Fluorobiphenyl | 1.443 | 1.387 | 1.346 | 1.237 | 1.128 | 1.141 | 1.049 | 1.247 | 11.93 |
| 46) | | 1,1'-Biphenyl | 1.694 | 1.659 | 1.630 | 1.519 | 1.413 | 1.419 | 1.323 | 1.522 | 9.38 |
| 47) | | 2-Chloronaphth... | 1.211 | 1.184 | 1.201 | 1.135 | 1.058 | 1.071 | 1.006 | 1.124 | 7.10 |
| 48) | | 2-Nitroaniline | 0.152 | 0.187 | 0.246 | 0.300 | 0.297 | 0.319 | 0.323 | 0.260 | 26.00 |
| 49) | | Acenaphthylene | 1.847 | 1.809 | 1.798 | 1.711 | 1.560 | 1.596 | 1.472 | 1.685 | 8.54 |
| 50) | | Dimethylphthalate | 1.431 | 1.405 | 1.405 | 1.363 | 1.262 | 1.285 | 1.224 | 1.339 | 6.09 |
| 51) | | 2,6-Dinitrotol... | 0.136 | 0.184 | 0.231 | 0.257 | 0.251 | 0.265 | 0.261 | 0.226 | 21.50 |
| 52) | C | Acenaphthene | 1.217 | 1.201 | 1.197 | 1.150 | 1.068 | 1.084 | 1.039 | 1.137 | 6.37 |
| 53) | | 3-Nitroaniline | 0.146 | 0.193 | 0.243 | 0.277 | 0.264 | 0.282 | 0.280 | 0.241 | 21.68 |
| 54) | P | 2,4-Dinitrophenol | | 0.049 | 0.066 | 0.093 | 0.096 | 0.112 | 0.116 | 0.089 | 29.73 |
| 55) | | Dibenzofuran | 1.850 | 1.794 | 1.765 | 1.663 | 1.532 | 1.542 | 1.436 | 1.654 | 9.40 |
| 56) | P | 4-Nitrophenol | 0.129 | 0.159 | 0.197 | 0.228 | 0.215 | 0.229 | 0.227 | 0.198 | 19.87 |
| 57) | | 2,4-Dinitrotol... | 0.151 | 0.198 | 0.265 | 0.313 | 0.310 | 0.325 | 0.320 | 0.269 | 25.57 |
| 58) | | Fluorene | 1.433 | 1.367 | 1.313 | 1.228 | 1.128 | 1.134 | 1.072 | 1.239 | 10.97 |
| 59) | | 2,3,4,6-Tetrac... | 0.313 | 0.314 | 0.336 | 0.339 | 0.309 | 0.322 | 0.315 | 0.321 | 3.66 |
| 60) | | Diethylphthalate | 1.429 | 1.413 | 1.428 | 1.383 | 1.259 | 1.275 | 1.212 | 1.343 | 6.78 |
| 61) | | 4-Chlorophenyl... | 0.691 | 0.665 | 0.654 | 0.620 | 0.572 | 0.583 | 0.562 | 0.621 | 8.09 |
| 62) | | 4-Nitroaniline | 0.149 | 0.187 | 0.229 | 0.267 | 0.248 | 0.265 | 0.256 | 0.229 | 19.54 |
| 63) | | Azobenzene | 1.544 | 1.503 | 1.505 | 1.437 | 1.320 | 1.325 | 1.262 | 1.414 | 7.81 |
| 64) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 65) | | 4,6-Dinitro-2-... | | 0.043 | 0.063 | 0.087 | 0.090 | 0.100 | 0.103 | 0.081 | 28.86 |
| 66) | c | n-Nitrosodiphe... | 0.702 | 0.681 | 0.689 | 0.665 | 0.631 | 0.623 | 0.607 | 0.657 | 5.56 |
| 67) | | 4-Bromophenyl-... | 0.241 | 0.237 | 0.239 | 0.238 | 0.227 | 0.230 | 0.224 | 0.234 | 2.86 |
| 68) | | Hexachlorobenzene | 0.253 | 0.249 | 0.255 | 0.251 | 0.240 | 0.242 | 0.237 | 0.247 | 2.79 |
| 69) | | Atrazine | 0.213 | 0.208 | 0.196 | 0.179 | 0.149 | 0.139 | | 0.181 | 17.11 |
| 70) | C | Pentachlorophenol | 0.137 | 0.146 | 0.161 | 0.169 | 0.159 | 0.164 | 0.160 | 0.156 | 7.07 |
| 71) | | Phenanthrene | 1.186 | 1.152 | 1.134 | 1.073 | 1.001 | 1.001 | 0.940 | 1.070 | 8.58 |
| 72) | | Anthracene | 1.203 | 1.156 | 1.155 | 1.068 | 1.002 | 0.990 | 0.931 | 1.072 | 9.54 |
| 73) | | Carbazole | 1.074 | 1.010 | 1.014 | 0.955 | 0.882 | 0.871 | 0.821 | 0.947 | 9.69 |
| 74) | | Di-n-butylphth... | 1.335 | 1.291 | 1.291 | 1.208 | 1.128 | 1.114 | 1.035 | 1.200 | 9.30 |
| 75) | C | Fluoranthene | 1.285 | 1.216 | 1.192 | 1.089 | 0.992 | 0.981 | 0.917 | 1.096 | 12.66 |
| 76) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 77) | | Benzidine | | 0.342 | 0.198 | 0.259 | 0.214 | 0.181 | 0.316 | 0.252 | 26.09 |
| 78) | | Pyrene | 1.698 | 1.687 | 1.815 | 1.796 | 1.738 | 1.734 | 1.656 | 1.732 | 3.32 |
| 79) | S | Terphenyl-d14 | 1.250 | 1.233 | 1.297 | 1.259 | 1.230 | 1.227 | 1.157 | 1.236 | 3.43 |
| 80) | | Butylbenzylpht... | 0.546 | 0.579 | 0.643 | 0.668 | 0.650 | 0.667 | 0.652 | 0.629 | 7.54 |
| 81) | | Benzo(a)anthra... | 1.367 | 1.387 | 1.384 | 1.312 | 1.244 | 1.262 | 1.292 | 1.321 | 4.46 |
| 82) | | 3,3'-Dichlorob... | 0.406 | 0.380 | 0.382 | 0.393 | 0.364 | 0.364 | 0.365 | 0.379 | 4.27 |
| 83) | | Chrysene | 1.303 | 1.184 | 1.235 | 1.265 | 1.185 | 1.209 | 1.144 | 1.218 | 4.42 |
| 84) | | Bis(2-ethylhex... | 0.702 | 0.696 | 0.788 | 0.832 | 0.811 | 0.828 | 0.827 | 0.783 | 7.59 |
| 85) | c | Di-n-octyl pht... | 0.903 | 0.922 | 1.109 | 1.307 | 1.304 | 1.318 | 1.348 | 1.173 | 16.59 |

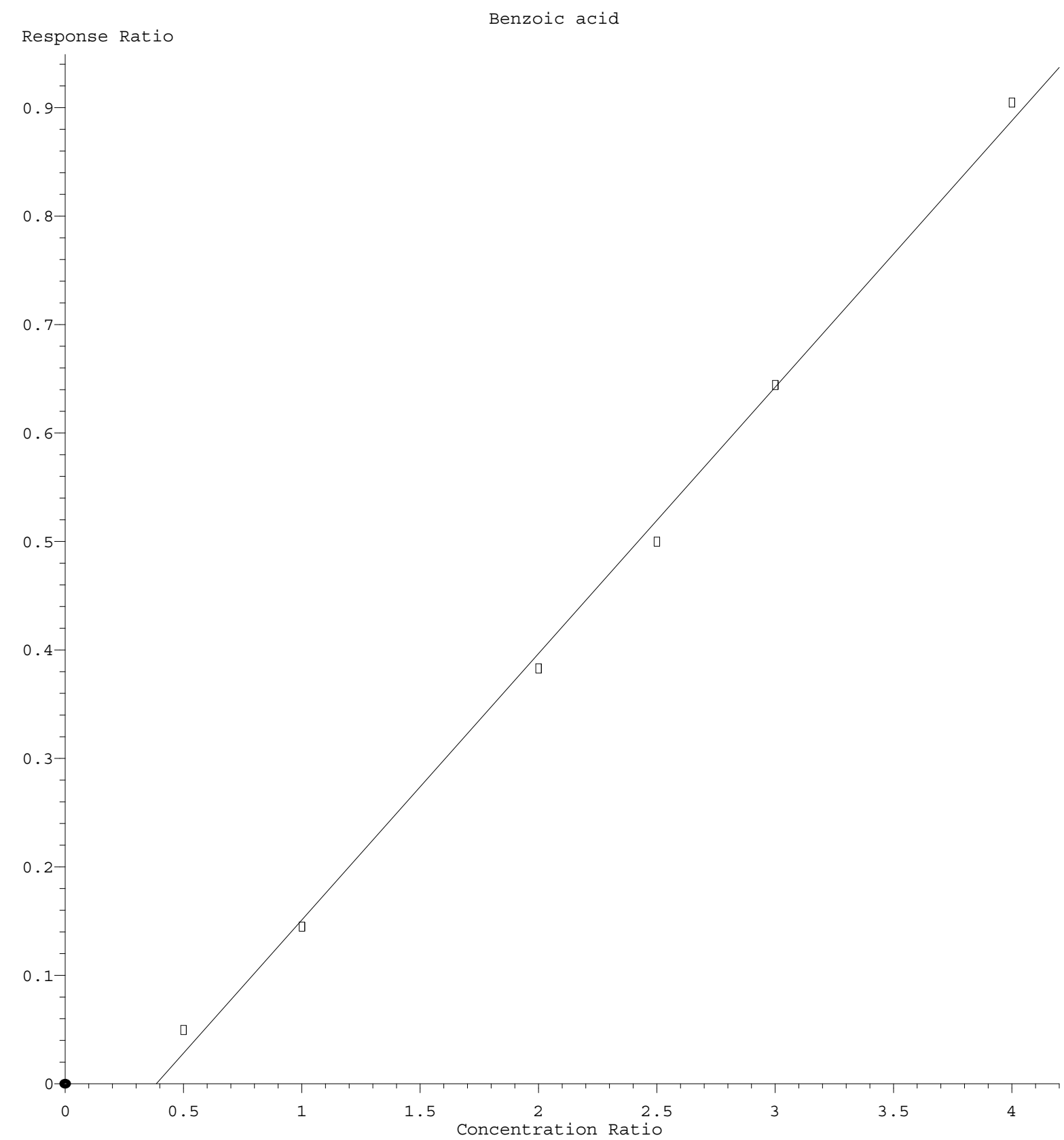
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 86) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | | |
| 87) | | Indeno(1,2,3-c... | 1.097 | 1.126 | 1.240 | 1.346 | 1.337 | 1.371 | 1.397 | 1.274 | 9.52 |
| 88) | | Benzo(b)fluora... | 1.442 | 1.396 | 1.533 | 1.306 | 1.232 | 1.370 | 1.256 | 1.362 | 7.81 |
| 89) | | Benzo(k)fluora... | 1.274 | 1.240 | 1.098 | 1.214 | 1.165 | 1.040 | 1.074 | 1.158 | 7.70 |
| 90) | C | Benzo(a)pyrene | 1.113 | 1.083 | 1.133 | 1.119 | 1.060 | 1.080 | 1.060 | 1.093 | 2.68 |
| 91) | | Dibenzo(a,h)an... | 0.902 | 0.931 | 1.025 | 1.109 | 1.094 | 1.101 | 1.115 | 1.040 | 8.63 |
| 92) | | Benzo(g,h,i)pe... | 0.898 | 0.929 | 1.034 | 1.130 | 1.129 | 1.156 | 1.179 | 1.065 | 10.60 |

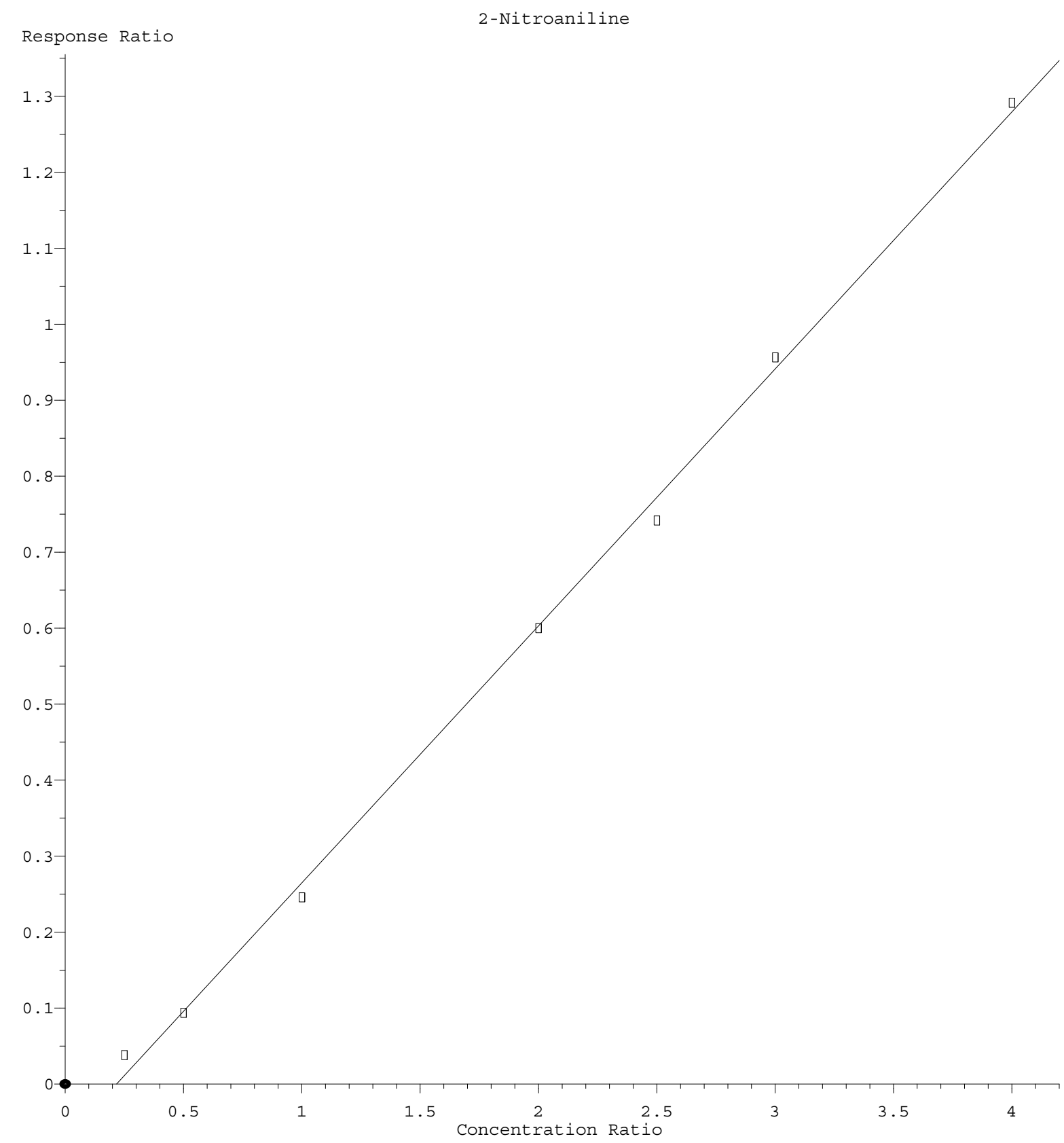
(#) = Out of Range



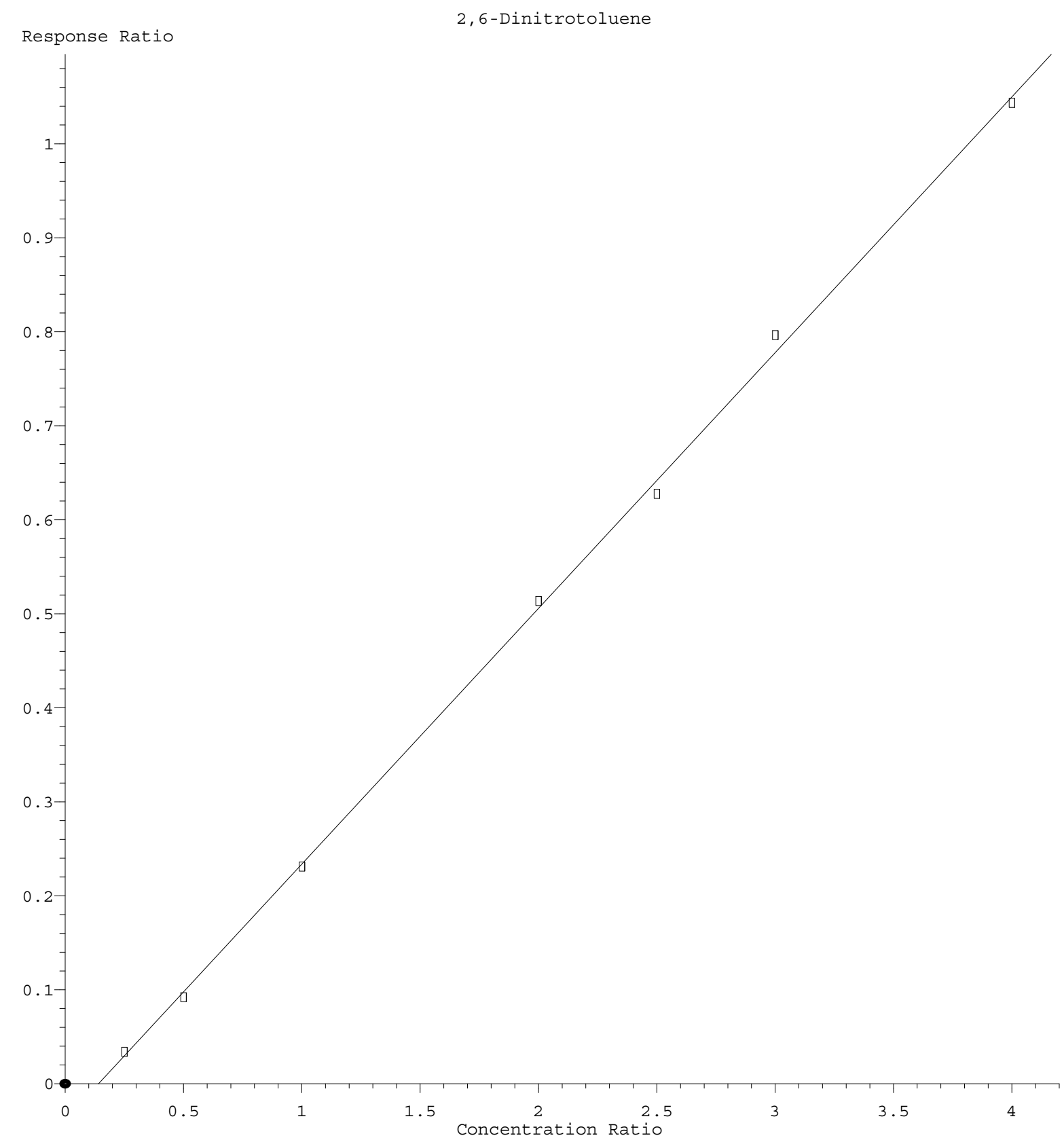

Response = 1.654e-001 * Amt - 3.762e-002
Coef of Det (r^2) = 0.997727  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



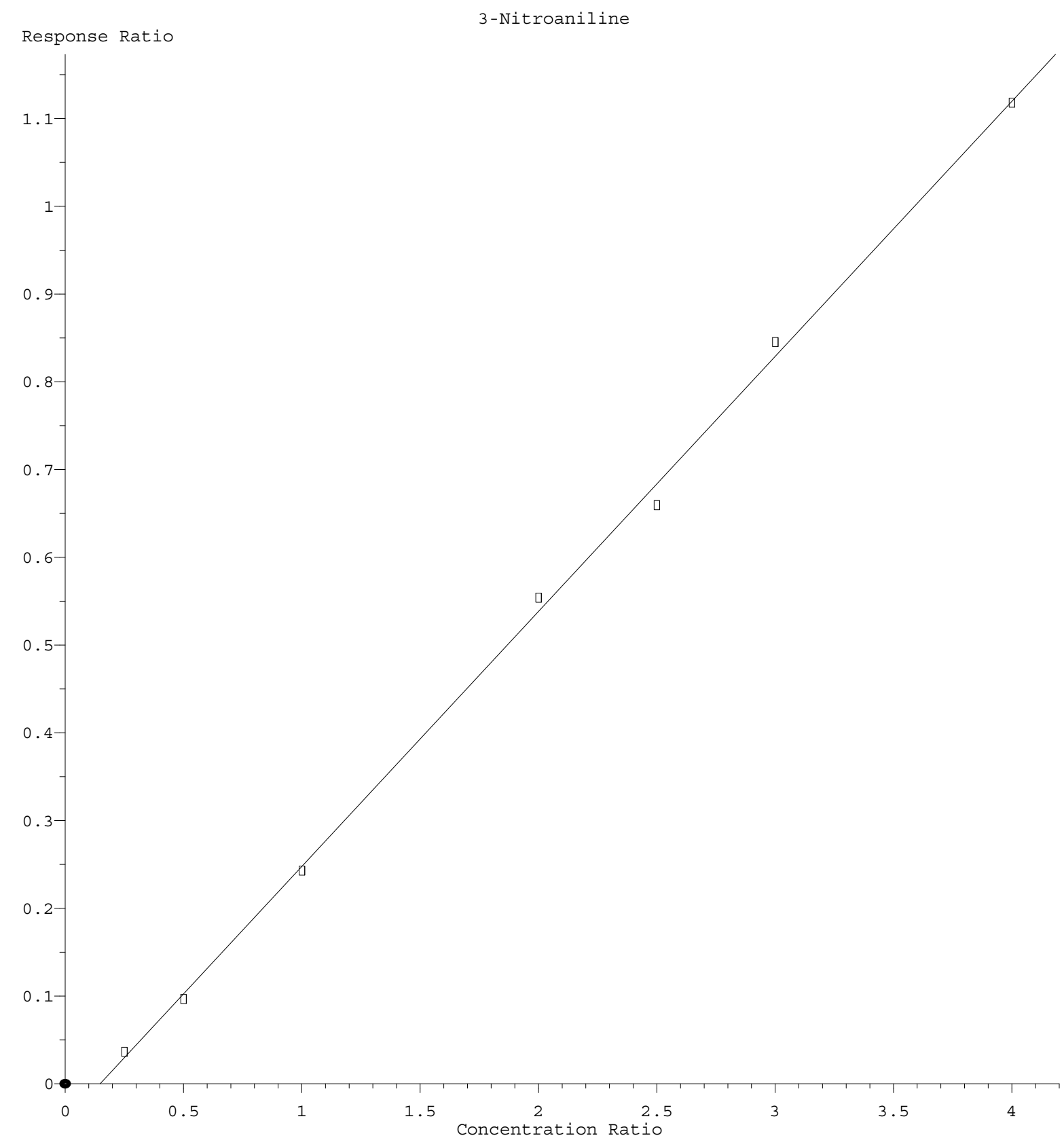

Response = 2.456e-001 * Amt - 9.444e-002
Coef of Det (r^2) = 0.997308  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



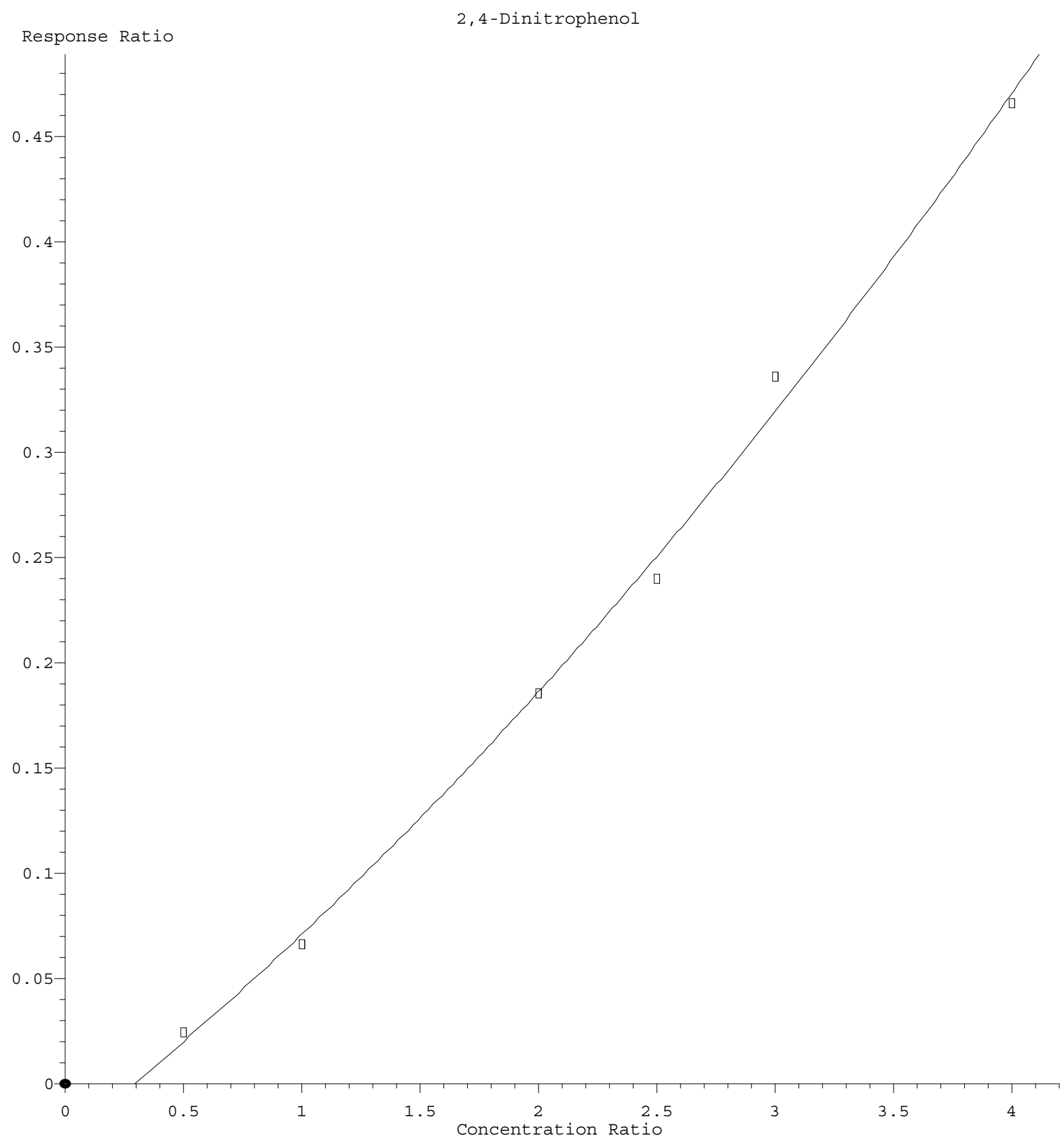

Response = 3.381e-001 * Amt - 7.336e-002
Coef of Det (r^2) = 0.998178  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



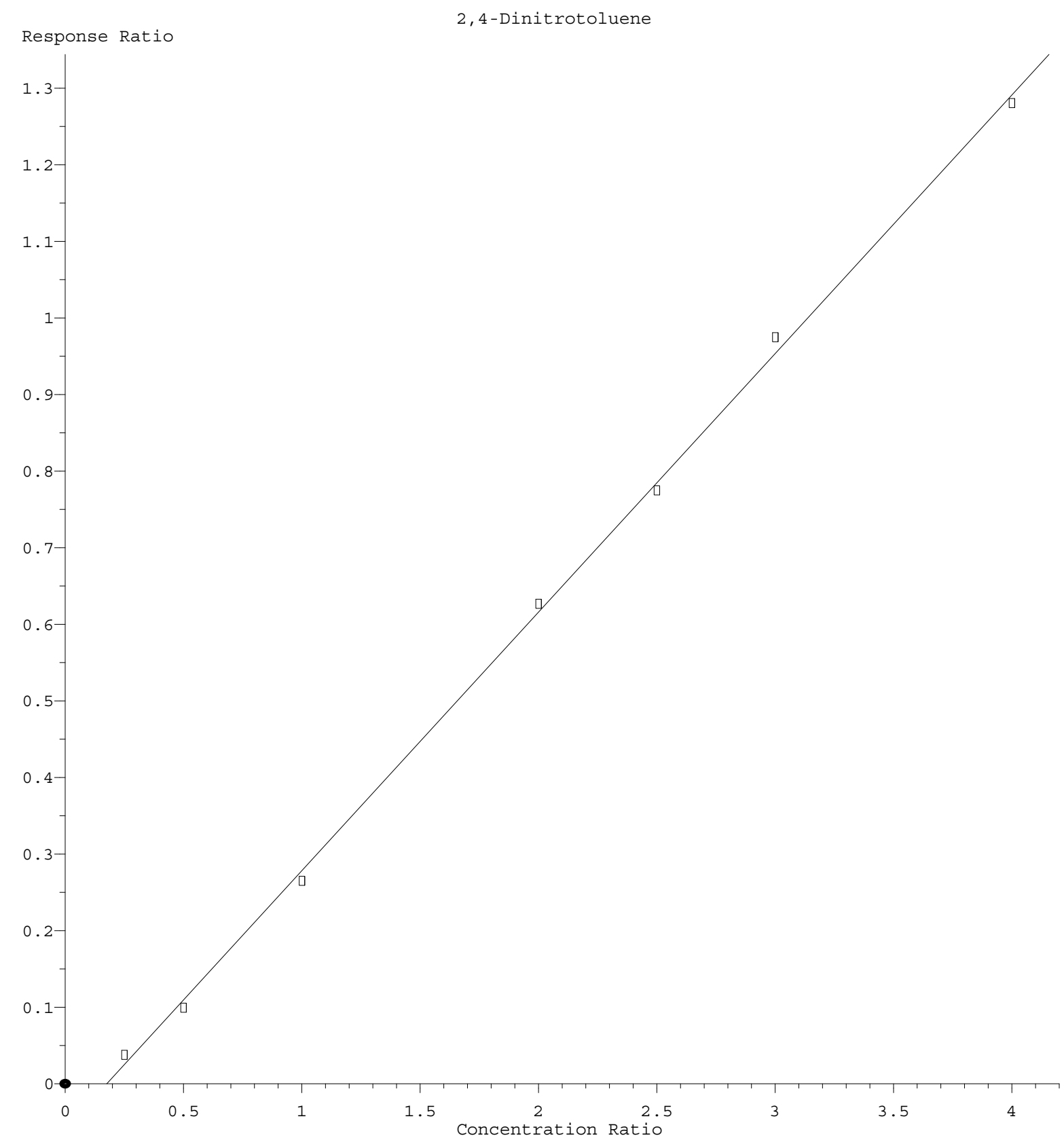

Response = 2.723e-001 * Amt - 3.850e-002
Coef of Det (r^2) = 0.999171  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



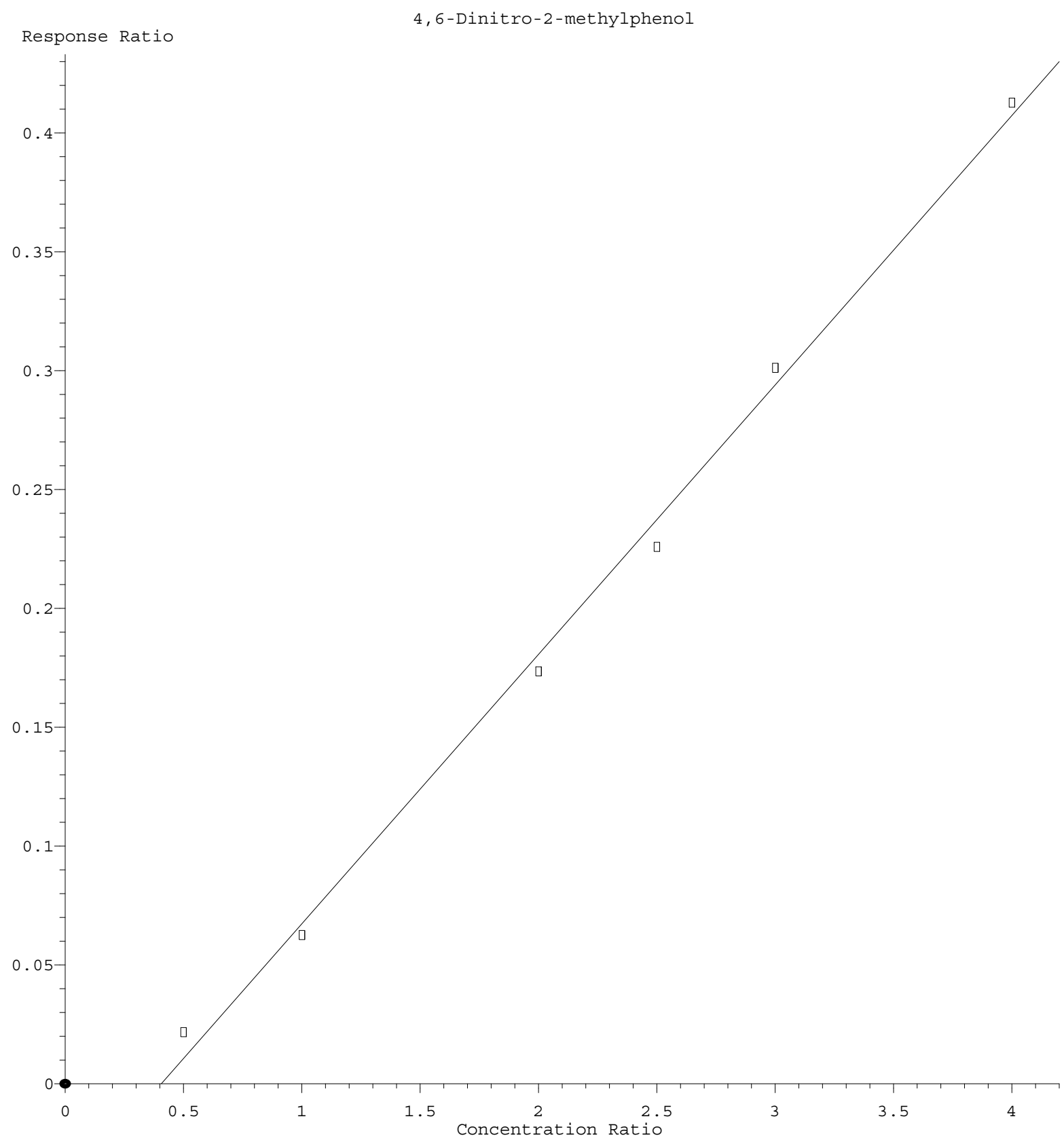

Response = 2.909e-001 * Amt - 4.315e-002
Coef of Det (r^2) = 0.998769  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025




R = 8.979e-003 A*A + 8.829e-002 A - 2.630e-002
Coef of Det (r^2) = 0.996714  Curve Fit: Quadratic
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025




Response = 3.378e-001 * Amt - 5.953e-002
Coef of Det (r^2) = 0.999067  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025




Response = 1.134e-001 * Amt - 4.606e-002
Coef of Det (r^2) = 0.996201  Curve Fit: Linear
Method Name:  Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141793.D
Acq On : 27 Feb 2025 15:17
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Quant Time: Feb 28 00:18:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 00:17:06 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.887 | 152 | 282413 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 1147711 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.922 | 164 | 650007 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.410 | 188 | 1119232 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.045 | 240 | 894958 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.521 | 264 | 684814 | 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 | | | | | | Qvalue |
| 19) n-Nitroso-di-n-propyla... | 7.287 | 70 | 39992 | 2.936 | ng | 100 |

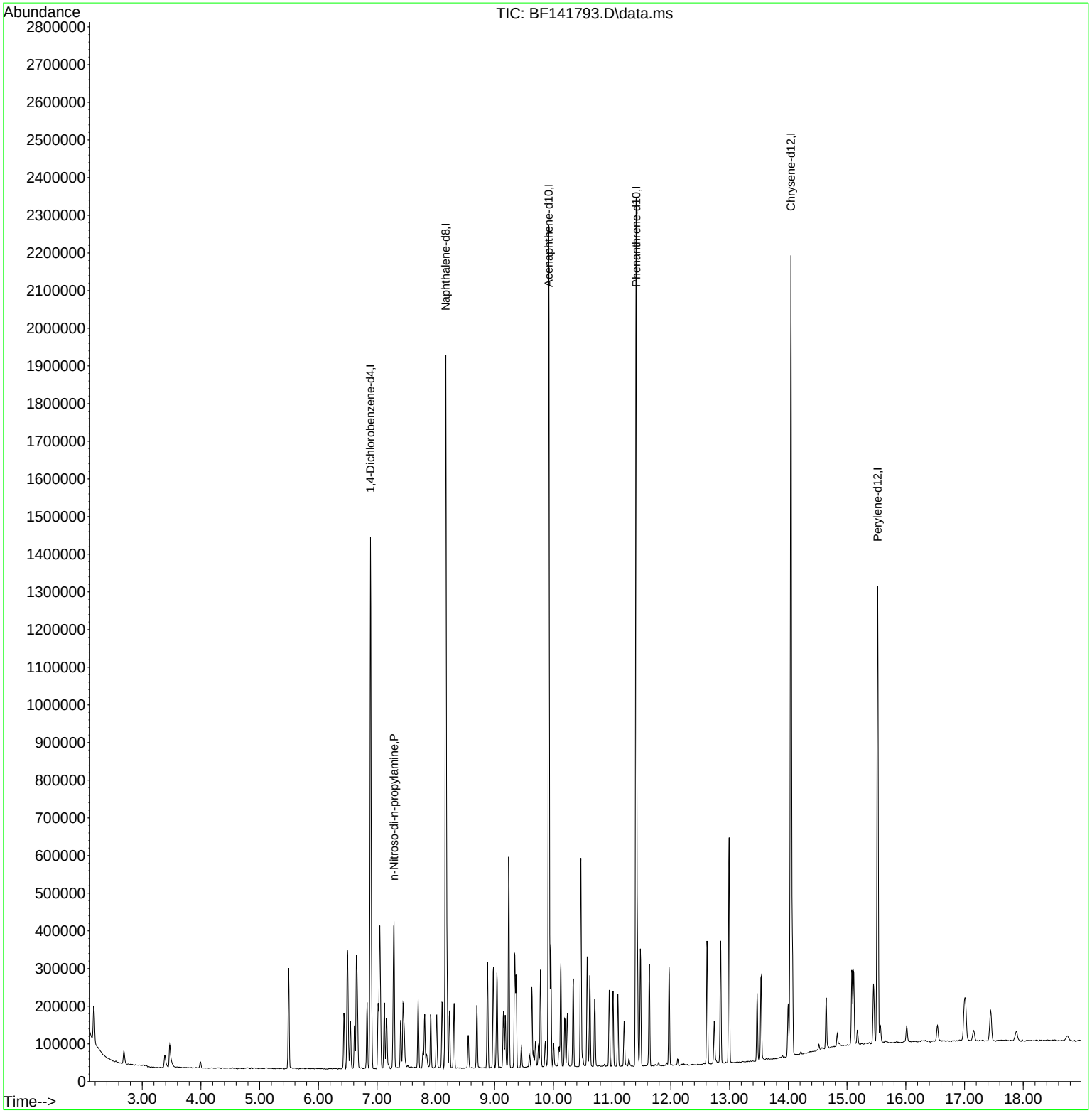
(#) = qualifier out of range (m) = manual integration (+) = signals summed

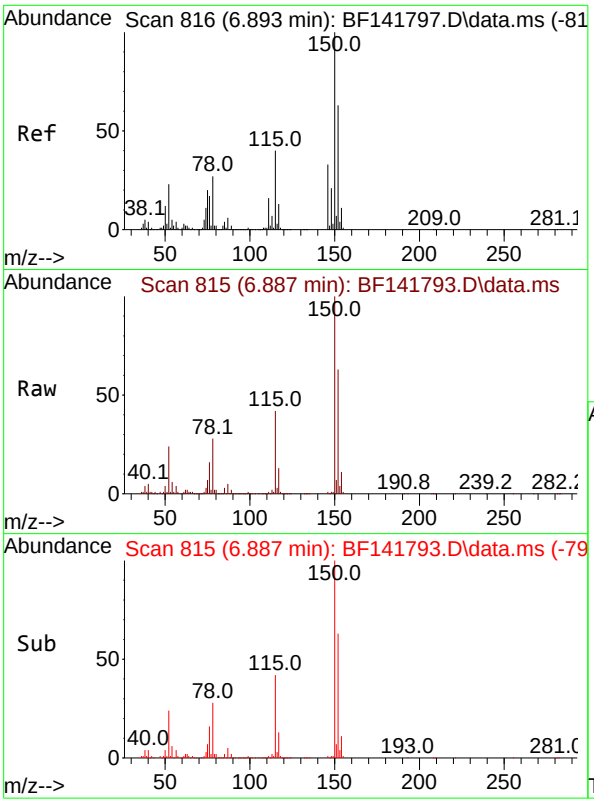
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141793.D
Acq On : 27 Feb 2025 15:17
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Quant Time: Feb 28 00:18:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 00:17:06 2025
Response via : Initial Calibration



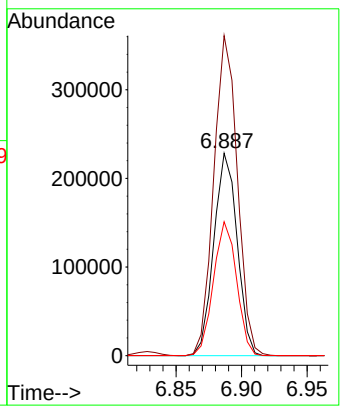


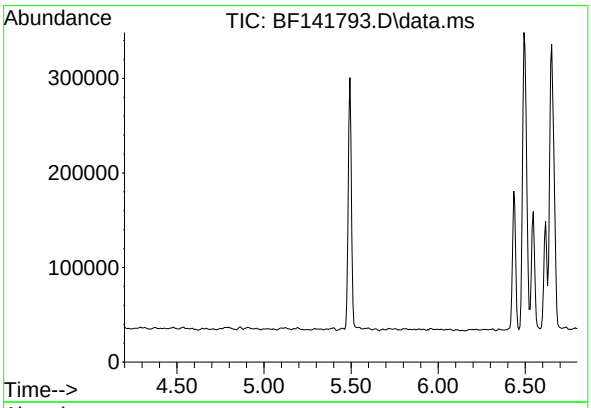

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:152 Resp: 282413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 158.1 | 127.5 | 191.3 |
| 115 | 66.2 | 51.4 | 77.2 |



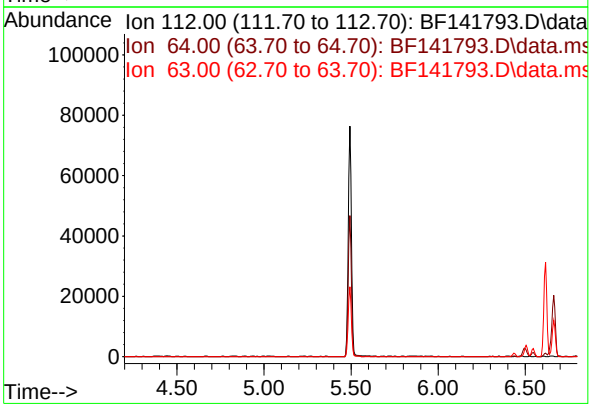



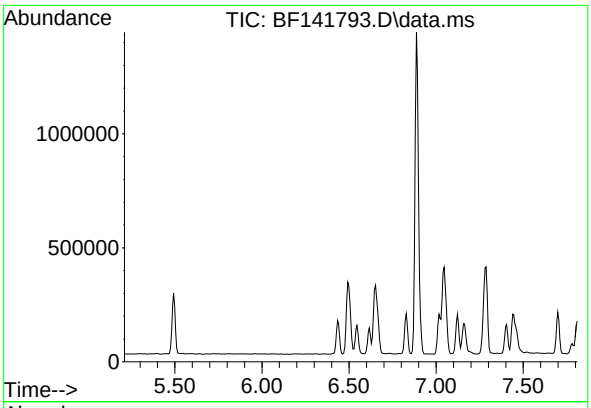

#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.50 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 112

| Sig | Exp Ratio |
|---|---|
| 112 | 100 |
| 64 | 64.1 |
| 63 | 32.8 |





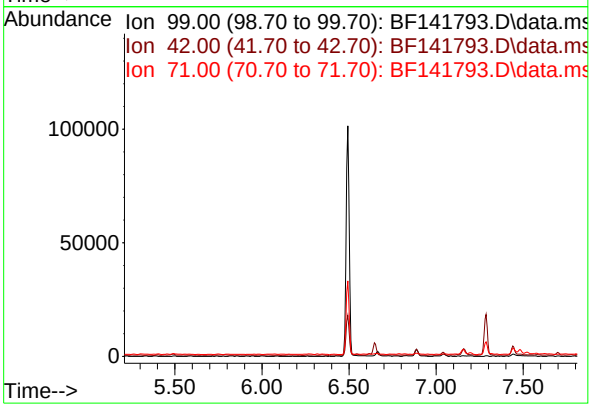

#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.51 min

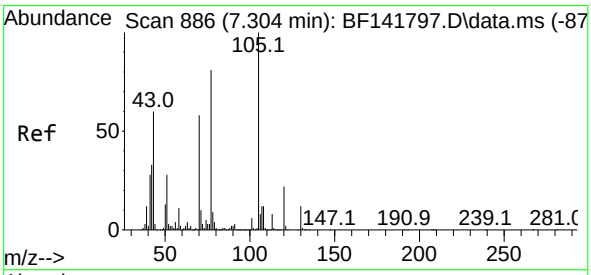
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

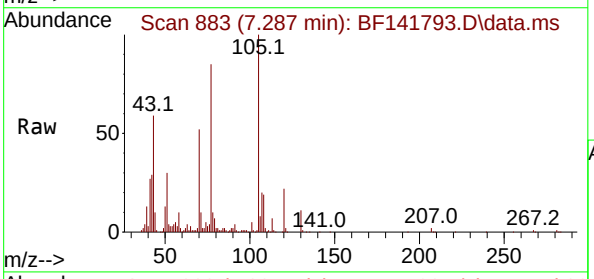
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

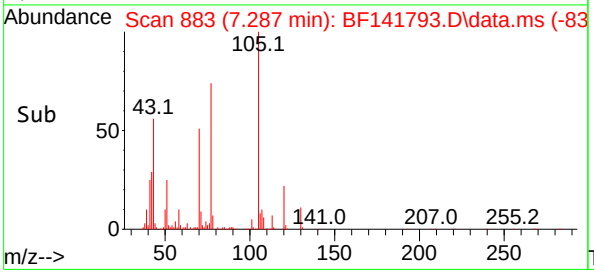
Tgt Ion: 99

| Sig | Exp Ratio |
|---|---|
| 99 | 100 |
| 42 | 19.0 |
| 71 | 35.2 |



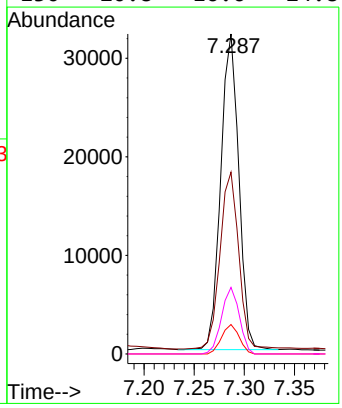



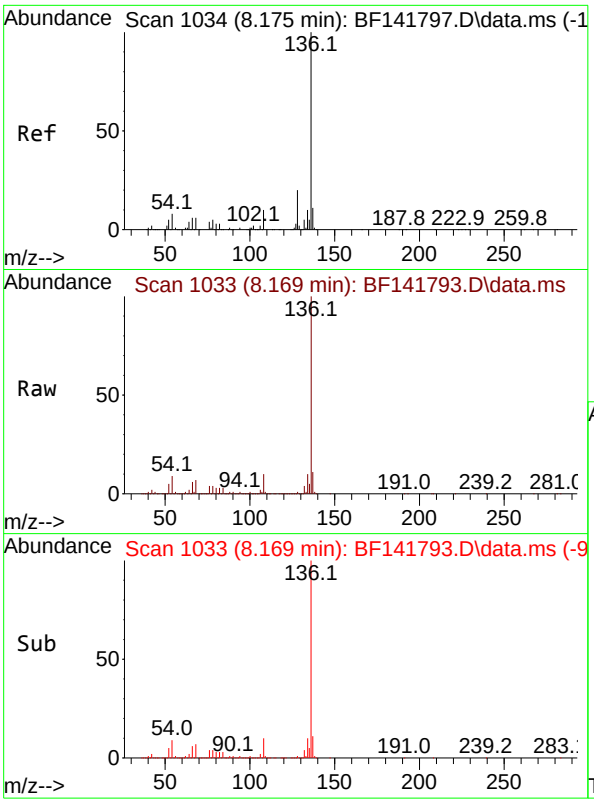




#19
n-Nitroso-di-n-propylamine
Concen: 2.936 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.018 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 70 Resp: 39992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 56.8 | 45.4 | 68.0 |
| 101 | 9.2 | 7.8 | 11.8 |
| 130 | 20.8 | 16.6 | 24.8 |



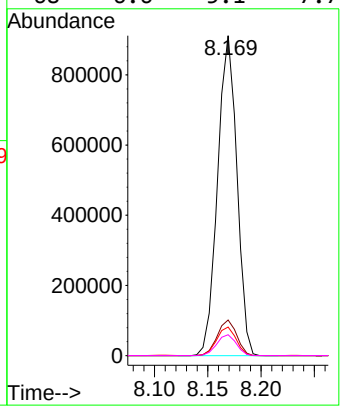


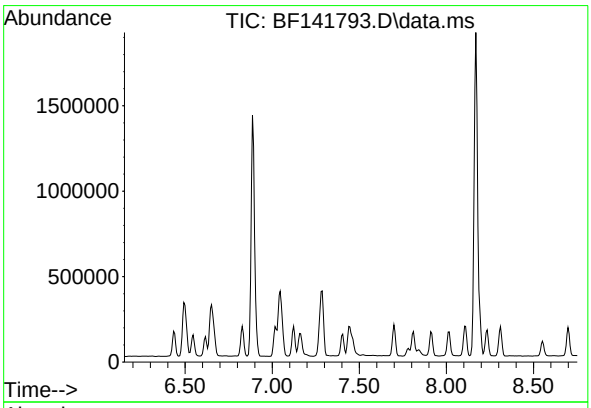

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:136 Resp: 1147711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 8.9 | 13.3 |
| 54 | 8.9 | 6.9 | 10.3 |
| 68 | 6.6 | 5.1 | 7.7 |



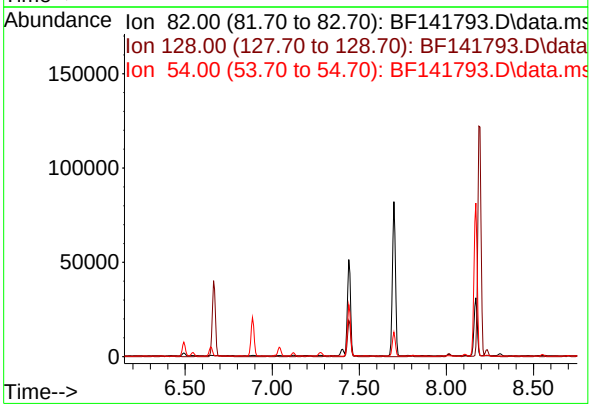



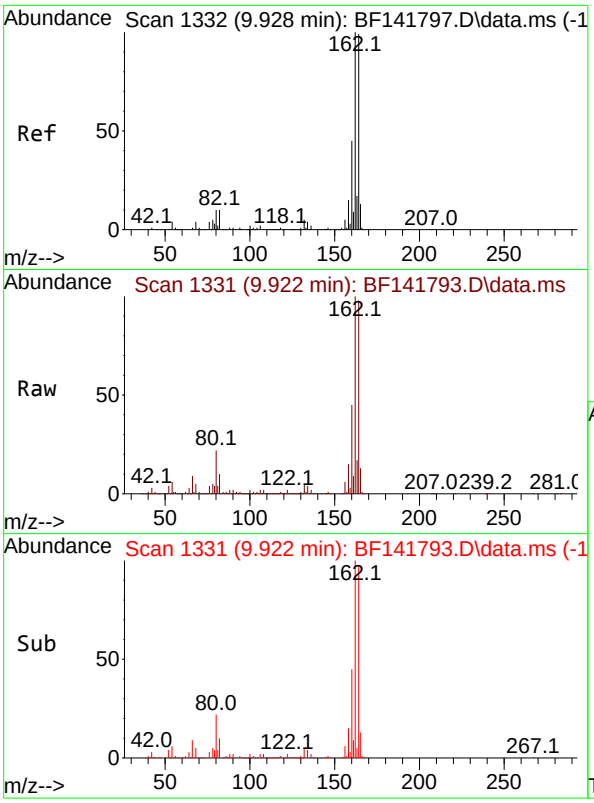

#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.45 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 82

| Sig | Exp Ratio |
|---|---|
| 82 | 100 |
| 128 | 41.9 |
| 54 | 53.4 |



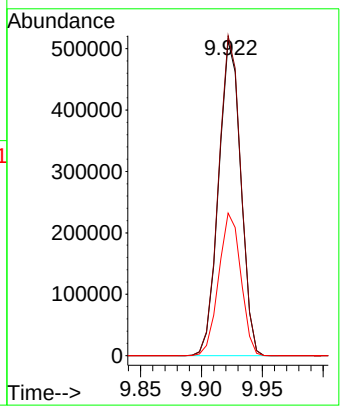


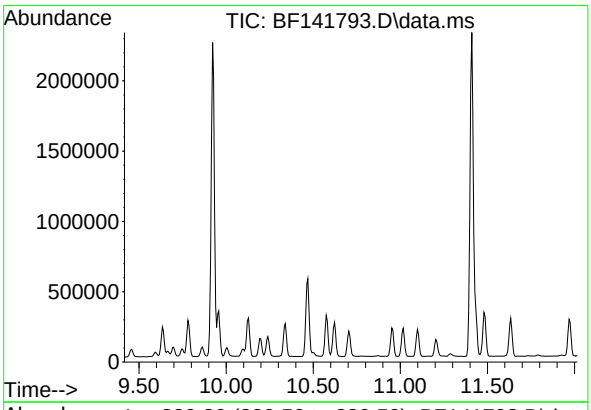

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:164 Resp: 650007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.6 | 80.6 | 120.8 |
| 160 | 45.3 | 36.3 | 54.5 |



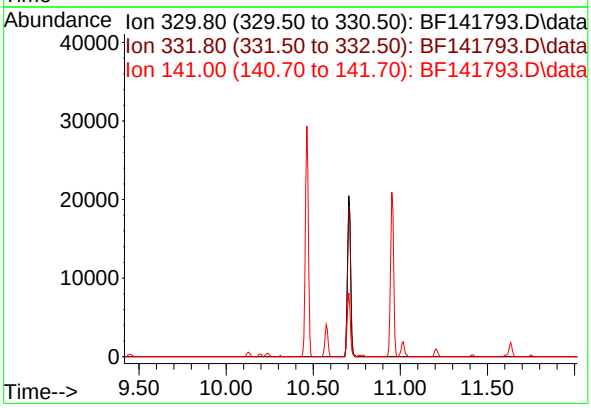



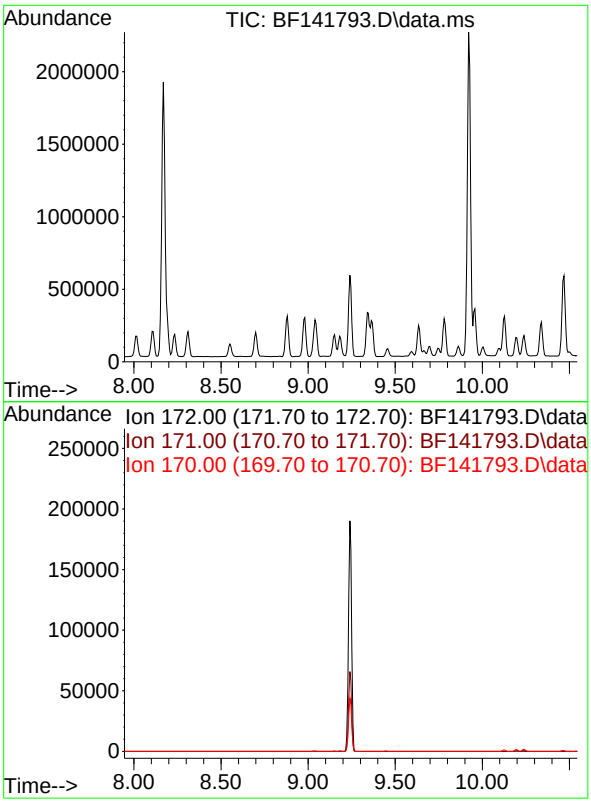

#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.72 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 330

| Sig | Exp Ratio |
|---|---|
| 330 | 100 |
| 332 | 95.8 |
| 141 | 36.2 |





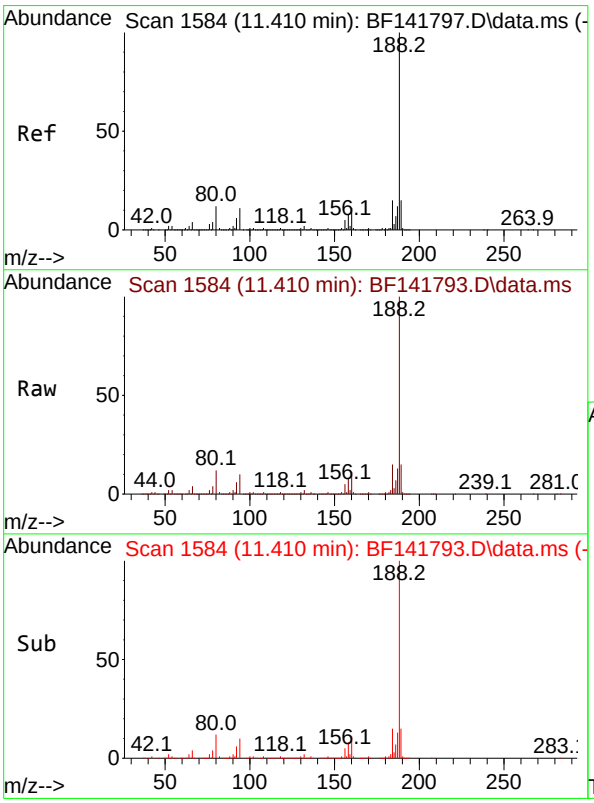

#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.25 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Tgt Ion: 172

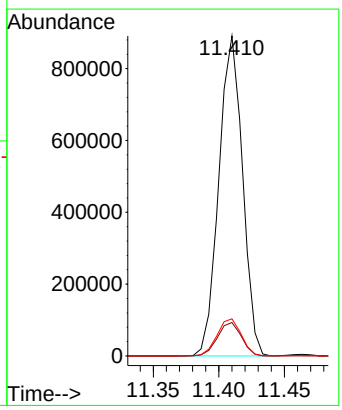
| Sig | Exp Ratio |
|---|---|
| 172 | 100 |
| 171 | 36.5 |
| 170 | 24.6 |

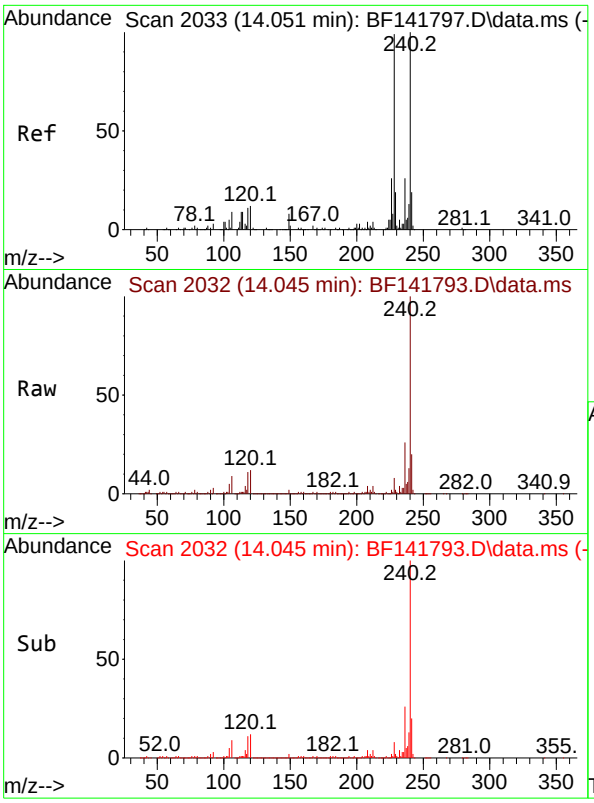



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion:188 Resp: 1119232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.5 | 8.9 | 13.3 |
| 80 | 11.6 | 9.7 | 14.5 |



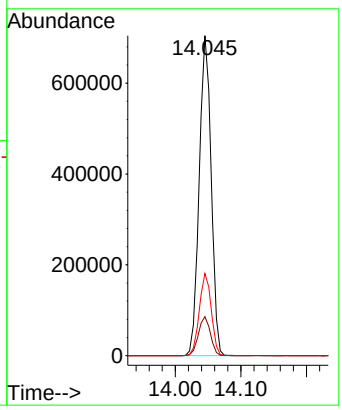


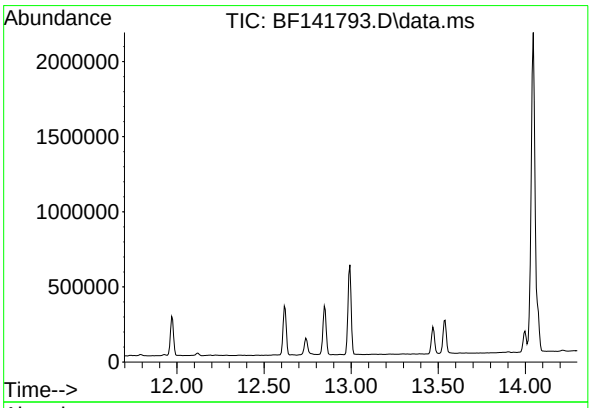

#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:240 Resp: 894958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.2 | 9.7 | 14.5 |
| 236 | 25.7 | 21.0 | 31.4 |



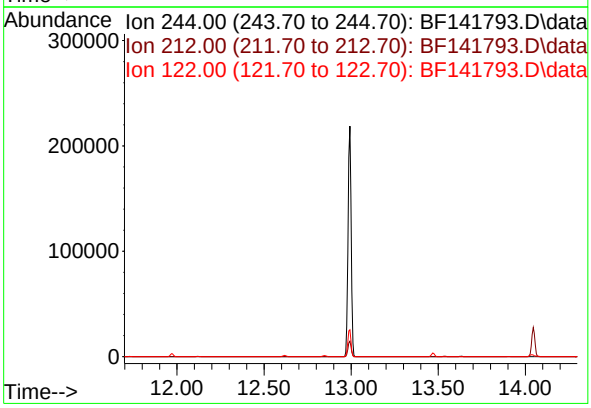



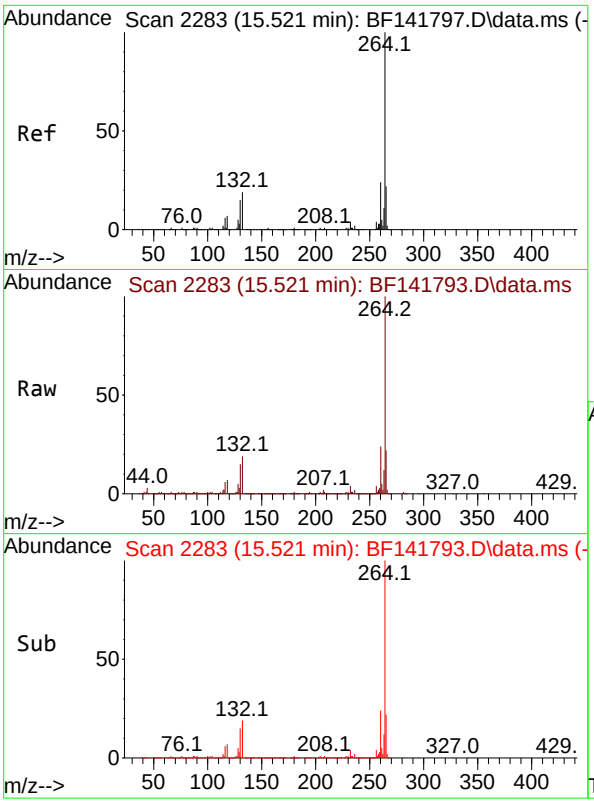

#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 13.00 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 244

| Sig | Exp Ratio |
|---|---|
| 244 | 100 |
| 212 | 7.5 |
| 122 | 11.3 |



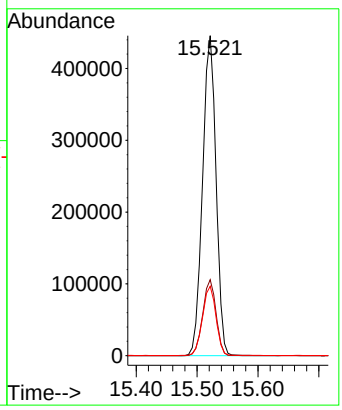



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC2.5

Tgt Ion:264 Resp: 684814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.8 | 18.9 | 28.3 |
| 265 | 21.7 | 17.4 | 26.0 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141794.D
Acq On : 27 Feb 2025 15:46
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 28 01:23:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.887 | 152 | 281554 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 1128074 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.922 | 164 | 643922 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.410 | 188 | 1101046 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.045 | 240 | 852555 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.521 | 264 | 648925 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.493 | 112 | 189803 | 10.766 | ng | | 0.00 |
| 7) Phenol-d6 | 6.493 | 99 | 246391 | 10.737 | ng | | -0.02 |
| 23) Nitrobenzene-d5 | 7.440 | 82 | 139940 | 7.929 | ng | | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.704 | 330 | 56406 | 9.331 | ng | | -0.01 |
| 45) 2-Fluorobiphenyl | 9.239 | 172 | 464621 | 11.570 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.992 | 244 | 532855 | 10.112 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.687 | 88 | 43124 | 5.391 | ng | | 98 |
| 3) Pyridine | 3.458 | 79 | 98722 | 4.960 | ng | | 97 |
| 4) n-Nitrosodimethylamine | 3.381 | 42 | 44659 | 4.663 | ng | # | 97 |
| 6) Aniline | 6.546 | 93 | 122918m | 5.180 | ng | | |
| 8) 2-Chlorophenol | 6.663 | 128 | 101533 | 5.324 | ng | | 98 |
| 9) Benzaldehyde | 6.434 | 77 | 81024 | 6.070 | ng | | 99 |
| 10) Phenol | 6.504 | 94 | 130523m | 5.339 | ng | | |
| 11) bis(2-Chloroethyl)ether | 6.616 | 93 | 96953 | 5.187 | ng | | 100 |
| 12) 1,3-Dichlorobenzene | 6.828 | 146 | 108688 | 5.321 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.904 | 146 | 109382 | 5.315 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 105070 | 5.468 | ng | | 98 |
| 15) Benzyl Alcohol | 7.016 | 79 | 94845 | 5.172 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 150528 | 5.303 | ng | | 100 |
| 17) 2-Methylphenol | 7.122 | 107 | 81304 | 5.165 | ng | | 97 |
| 18) Hexachloroethane | 7.404 | 117 | 39359 | 5.110 | ng | | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.287 | 70 | 79943 | 5.300 | ng | | 99 |
| 20) 3+4-Methylphenols | 7.275 | 107 | 106084 | 5.412 | ng | | 93 |
| 22) Acetophenone | 7.287 | 105 | 152122 | 5.537 | ng | # | 97 |
| 24) Nitrobenzene | 7.463 | 77 | 76930 | 4.071 | ng | | 96 |
| 25) Isophorone | 7.698 | 82 | 197960 | 5.221 | ng | | 99 |
| 26) 2-Nitrophenol | 7.781 | 139 | 22354 | 6.947 | ng | | 97 |
| 27) 2,4-Dimethylphenol | 7.810 | 122 | 72631 | 5.211 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.910 | 93 | 130473 | 5.395 | ng | | 98 |
| 29) 2,4-Dichlorophenol | 8.016 | 162 | 79008 | 4.914 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 92399 | 5.244 | ng | | 98 |
| 31) Naphthalene | 8.192 | 128 | 321546 | 5.546 | ng | | 98 |
| 33) 4-Chloroaniline | 8.234 | 127 | 113407 | 5.335 | ng | | 98 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 56205 | 5.134 | ng | | 99 |
| 35) Caprolactam | 8.557 | 113 | 24467 | 4.946 | ng | | 95 |
| 36) 4-Chloro-3-methylphenol | 8.698 | 107 | 93983 | 5.262 | ng | | 97 |
| 37) 2-Methylnaphthalene | 8.881 | 142 | 214971 | 5.653 | ng | | 97 |
| 38) 1-Methylnaphthalene | 8.981 | 142 | 207097 | 5.676 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.045 | 216 | 98100 | 5.275 | ng | | 97 |
| 41) Hexachlorocyclopentadiene | 9.034 | 237 | 34990 | 4.508 | ng | | 98 |
| 43) 2,4,6-Trichlorophenol | 9.151 | 196 | 57097 | 4.753 | ng | | 98 |
| 44) 2,4,5-Trichlorophenol | 9.187 | 196 | 55979 | 4.706 | ng | | 98 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141794.D
Acq On : 27 Feb 2025 15:46
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:23:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) 1,1'-Biphenyl | 9.345 | 154 | 272648 | 5.563 | ng | | 97 |
| 47) 2-Chloronaphthalene | 9.369 | 162 | 194915 | 5.388 | ng | | 97 |
| 48) 2-Nitroaniline | 9.457 | 65 | 24463 | 6.586 | ng | | 98 |
| 49) Acenaphthylene | 9.781 | 152 | 297257 | 5.481 | ng | | 98 |
| 50) Dimethylphthalate | 9.639 | 163 | 230425 | 5.344 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.698 | 165 | 21902 | 5.327 | ng | | 98 |
| 52) Acenaphthene | 9.957 | 154 | 195912 | 5.353 | ng | | 97 |
| 53) 3-Nitroaniline | 9.863 | 138 | 23458 | 5.471 | ng | # | 83 |
| 55) Dibenzofuran | 10.128 | 168 | 297756 | 5.590 | ng | | 96 |
| 56) 4-Nitrophenol | 10.004 | 139 | 20838 | 3.272 | ng | | 91 |
| 57) 2,4-Dinitrotoluene | 10.098 | 165 | 24255 | 5.755 | ng | # | 96 |
| 58) Fluorene | 10.469 | 166 | 230713 | 5.782 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232 | 50417 | 4.873 | ng | | 99 |
| 60) Diethylphthalate | 10.339 | 149 | 230060 | 5.322 | ng | | 98 |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204 | 111169 | 5.561 | ng | | 98 |
| 62) 4-Nitroaniline | 10.469 | 138 | 24006 | 3.260 | ng | # | 84 |
| 63) Azobenzene | 10.622 | 77 | 248519 | 5.460 | ng | | 98 |
| 66) n-Nitrosodiphenylamine | 10.575 | 169 | 193204 | 5.344 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.951 | 248 | 66312 | 5.156 | ng | | 99 |
| 68) Hexachlorobenzene | 11.016 | 284 | 69598 | 5.125 | ng | | 100 |
| 69) Atrazine | 11.098 | 200 | 58634 | 5.897 | ng | | 98 |
| 70) Pentachlorophenol | 11.204 | 266 | 37669 | 4.373 | ng | | 99 |
| 71) Phenanthrene | 11.433 | 178 | 326529 | 5.544 | ng | | 99 |
| 72) Anthracene | 11.481 | 178 | 331149 | 5.610 | ng | | 98 |
| 73) Carbazole | 11.633 | 167 | 295693 | 5.673 | ng | | 98 |
| 74) Di-n-butylphthalate | 11.969 | 149 | 367349 | 5.560 | ng | | 99 |
| 75) Fluoranthene | 12.622 | 202 | 353684 | 5.861 | ng | | 97 |
| 78) Pyrene | 12.845 | 202 | 361938 | 4.903 | ng | | 98 |
| 80) Butylbenzylphthalate | 13.469 | 149 | 116439 | 4.341 | ng | | 99 |
| 81) Benzo(a)anthracene | 14.033 | 228 | 291373 | 5.174 | ng | | 98 |
| 82) 3,3'-Dichlorobenzidine | 13.998 | 252 | 86483 | 5.353 | ng | | 97 |
| 83) Chrysene | 14.069 | 228 | 277632 | 5.348 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 149689 | 4.482 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.645 | 149 | 192390 | 3.848 | ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 16.998 | 276 | 178035 | 4.309 | ng | | 99 |
| 88) Benzo(b)fluoranthene | 15.086 | 252 | 233991 | 5.294 | ng | | 98 |
| 89) Benzo(k)fluoranthene | 15.116 | 252 | 206614 | 5.499 | ng | | 100 |
| 90) Benzo(a)pyrene | 15.451 | 252 | 180486 | 5.091 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.021 | 278 | 146279 | 4.337 | ng | | 97 |
| 92) Benzo(g,h,i)perylene | 17.445 | 276 | 145755 | 4.218 | ng | | 99 |

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

ICAL Form

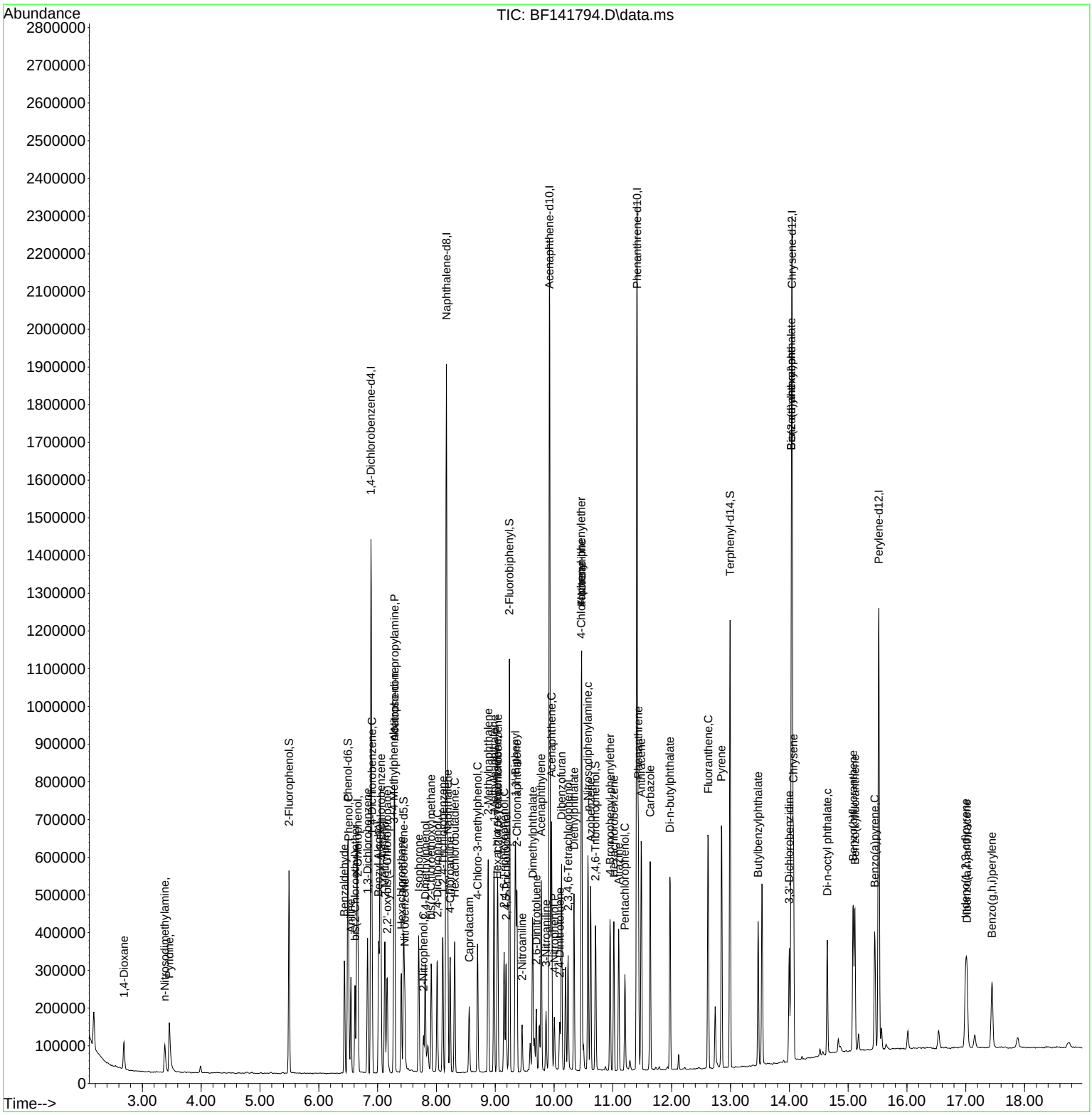
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141794.D
Acq On : 27 Feb 2025 15:46
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

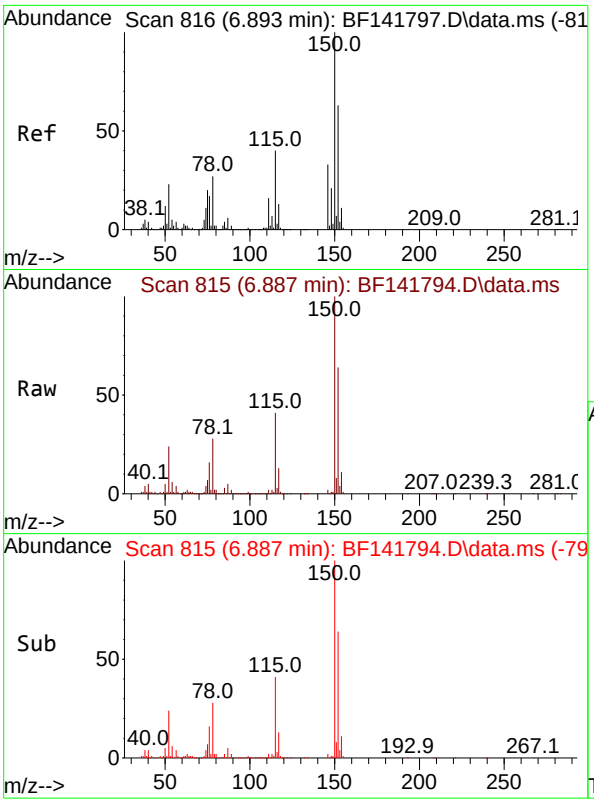
Quant Time: Feb 28 01:23:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

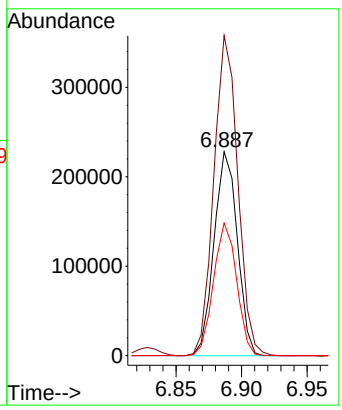





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:152 Resp: 28155

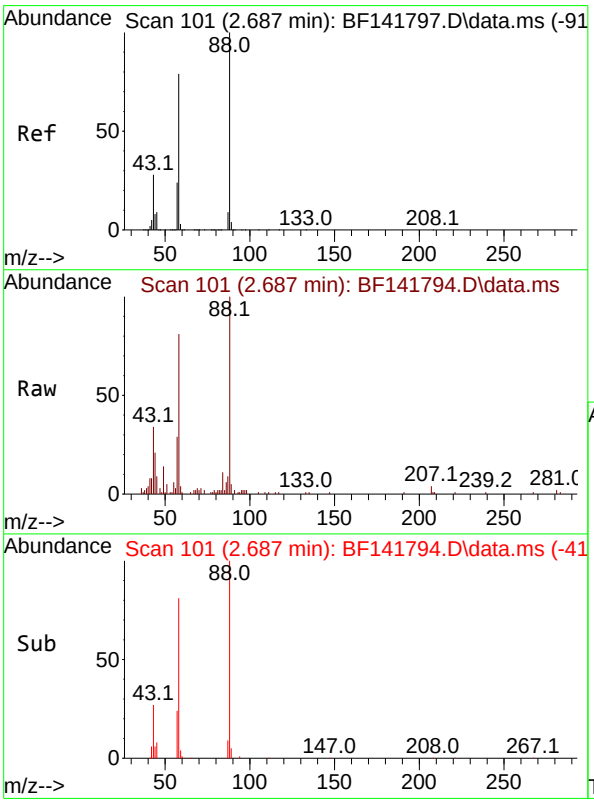
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.8 | 127.5 | 191.3 |
| 115 | 65.0 | 51.4 | 77.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

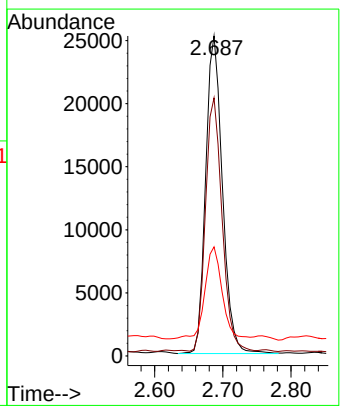
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

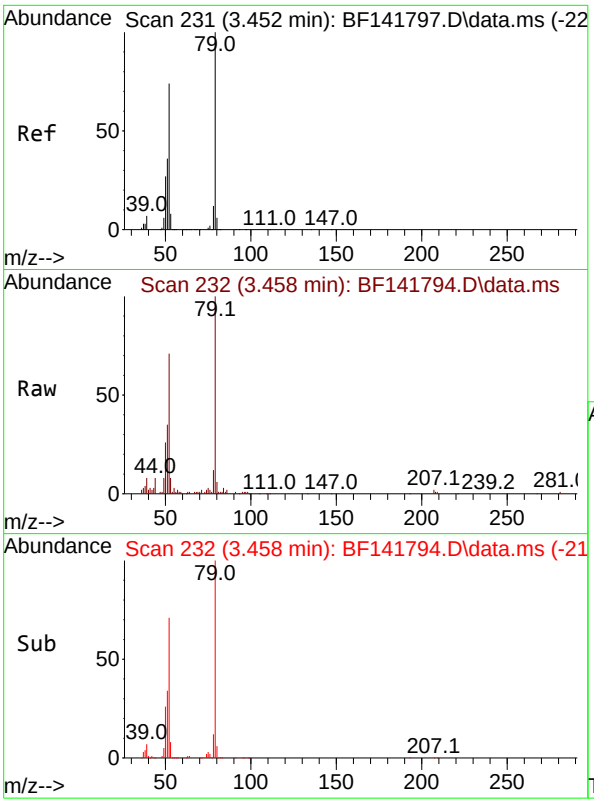



#2
1,4-Dioxane
Concen: 5.391 ng
RT: 2.687 min Scan# 101
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 88 Resp: 43124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 78.5 | 63.9 | 95.9 |
| 43 | 29.6 | 23.0 | 34.6 |

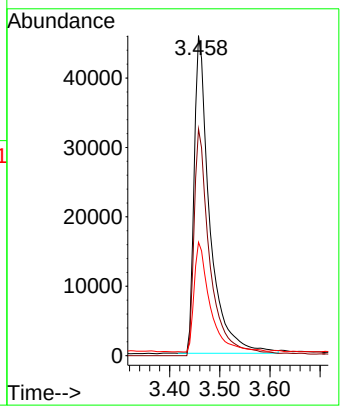





#3
Pyridine
Concen: 4.960 ng
RT: 3.458 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 79 Resp: 9872

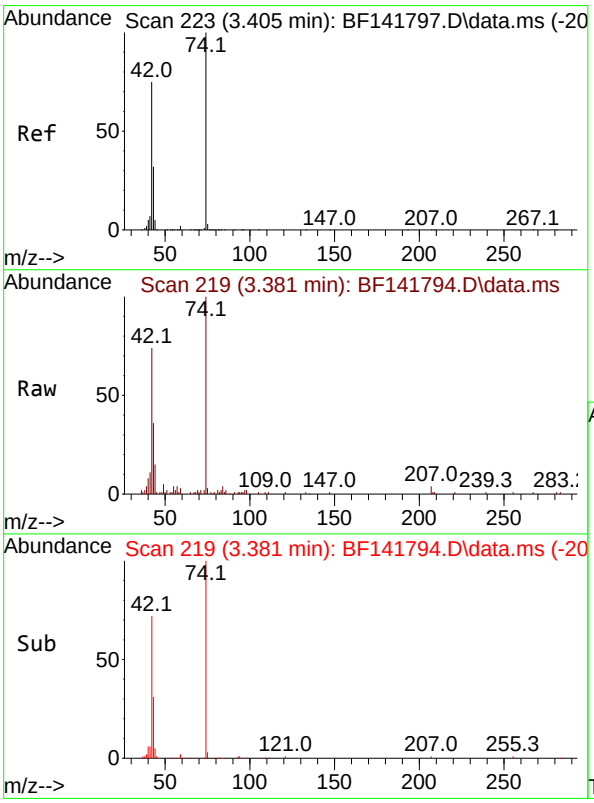
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 70.9 | 59.0 | 88.4 |
| 51 | 35.5 | 29.0 | 43.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

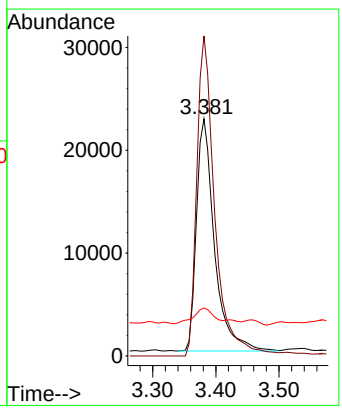
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

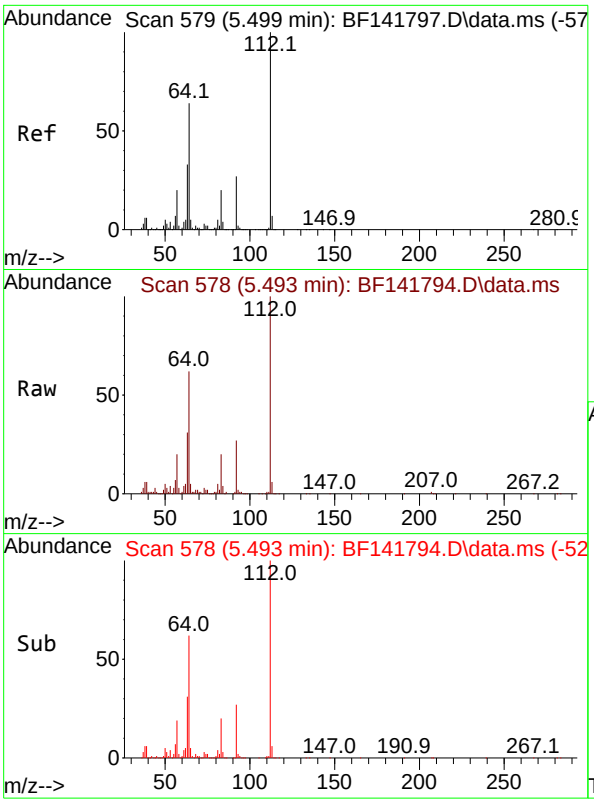



#4
n-Nitrosodimethylamine
Concen: 4.663 ng
RT: 3.381 min Scan# 219
Delta R.T. -0.024 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 42 Resp: 44659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 134.9 | 107.1 | 160.7 |
| 44 | 20.2 | 6.6 | 9.8# |






#5
2-Fluorophenol
Concen: 10.766 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

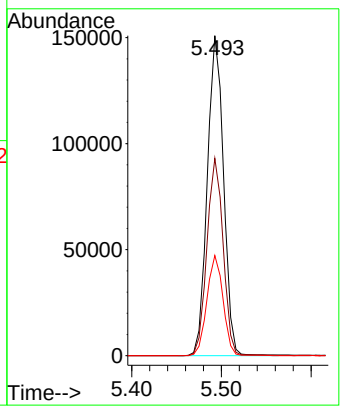
Tgt Ion:112 Resp: 18980

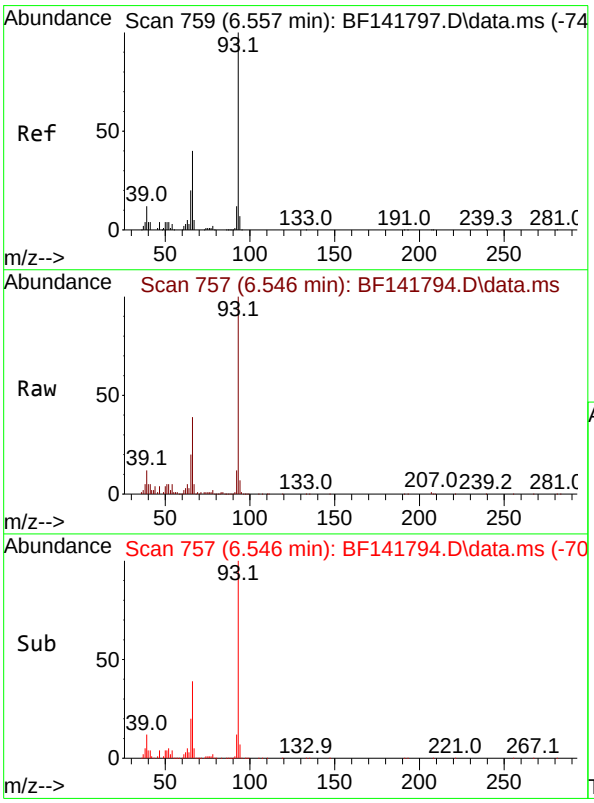
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 61.7 | 51.3 | 76.9 |
| 63 | 31.3 | 26.2 | 39.4 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

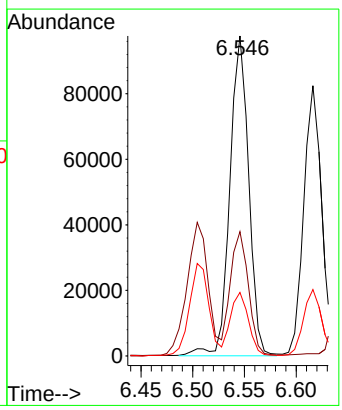


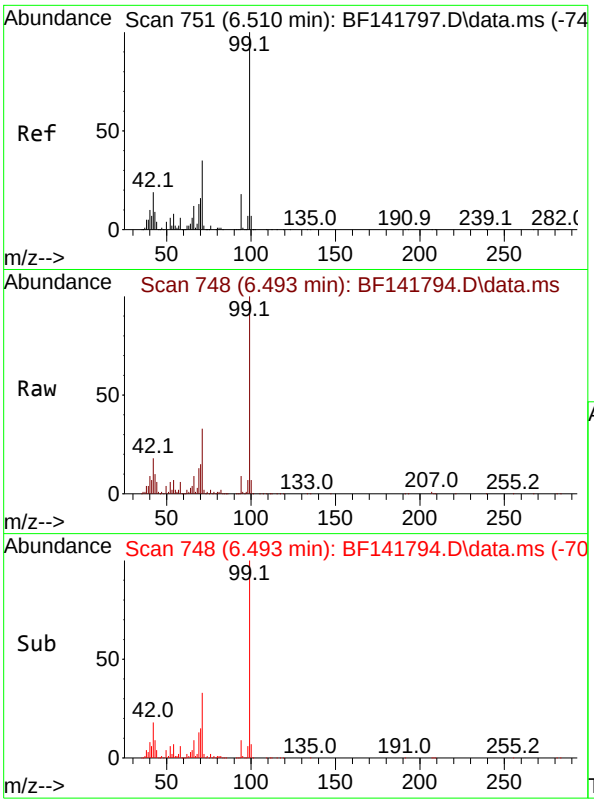




#6
Aniline
Concen: 5.180 ng m
RT: 6.546 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 93 Resp: 122918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 38.8 | 32.3 | 48.5 |
| 65 | 19.9 | 15.9 | 23.9 |

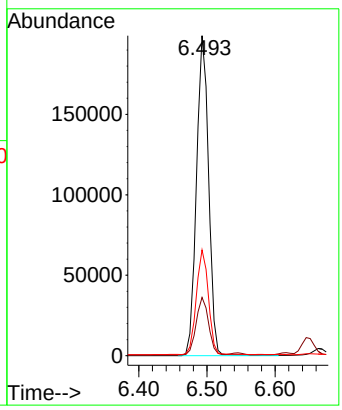





#7
Phenol-d6
Concen: 10.737 ng
RT: 6.493 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 99 Resp: 24639

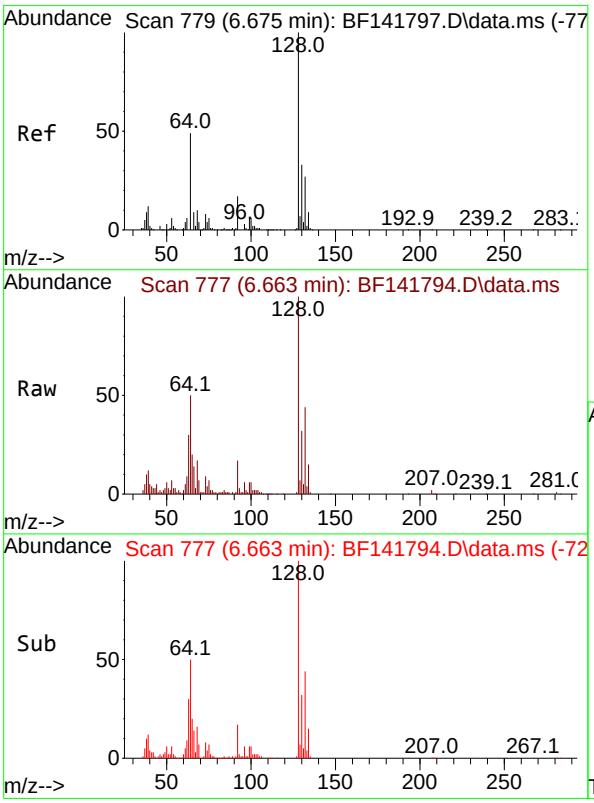
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.2 | 15.2 | 22.8 |
| 71 | 33.0 | 28.2 | 42.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

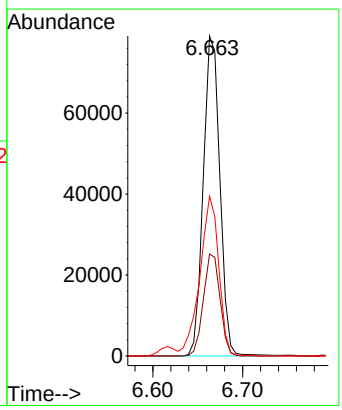
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

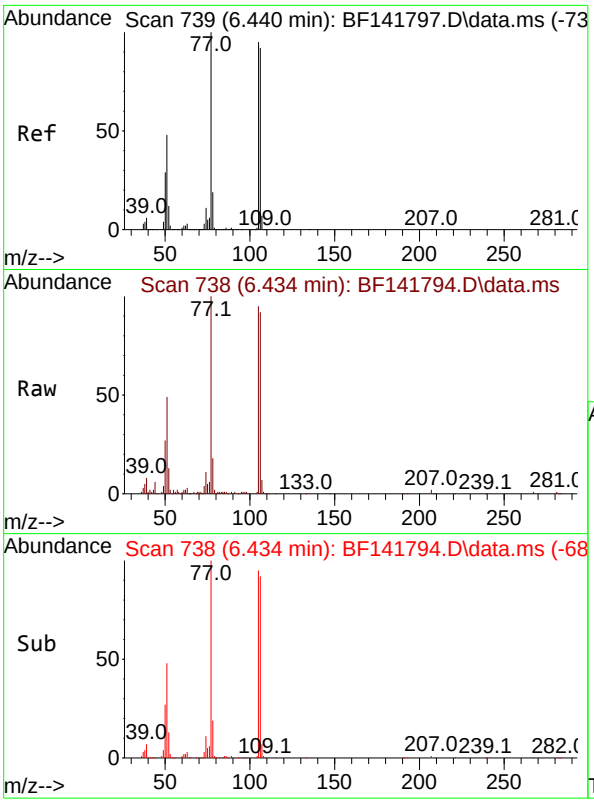



#8
2-Chlorophenol
Concen: 5.324 ng
RT: 6.663 min Scan# 777
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:128 Resp: 101533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 31.8 | 12.6 | 52.6 |
| 64 | 49.9 | 31.1 | 71.1 |

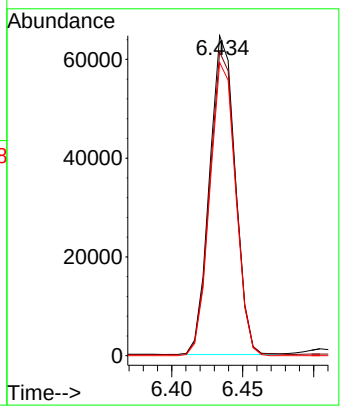





#9
Benzaldehyde
Concen: 6.070 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 77 Resp: 8102

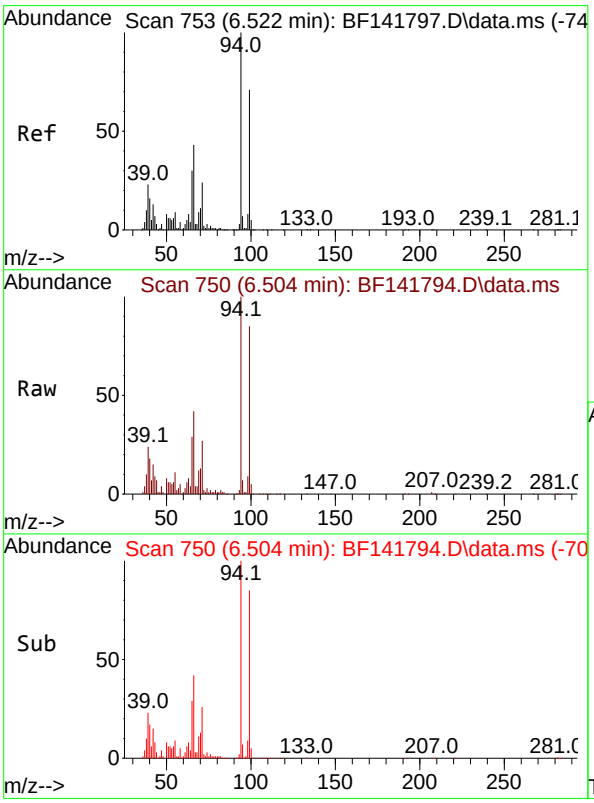
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 94.9 | 75.3 | 115.3 |
| 106 | 91.6 | 72.3 | 112.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

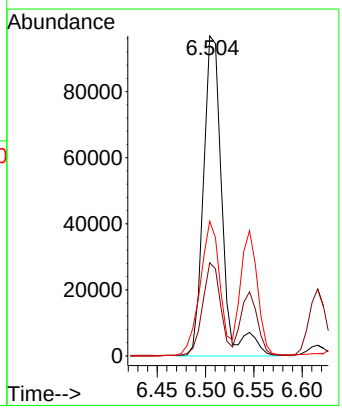
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

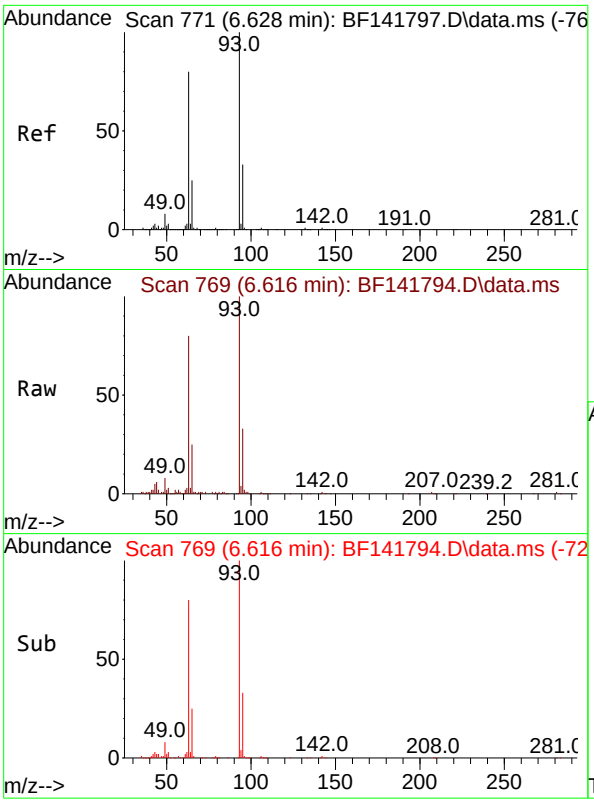



#10
Phenol
Concen: 5.339 ng m
RT: 6.504 min Scan# 750
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 94 Resp: 130523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 29.1 | 10.2 | 50.2 |
| 66 | 42.1 | 23.2 | 63.2 |

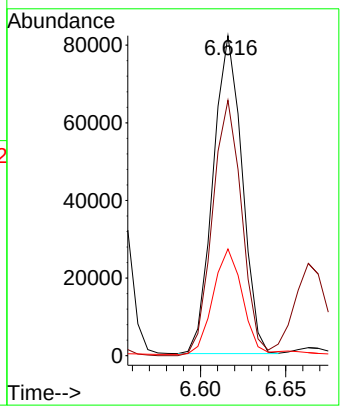





#11
bis(2-Chloroethyl)ether
Concen: 5.187 ng
RT: 6.616 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 93 Resp: 9695

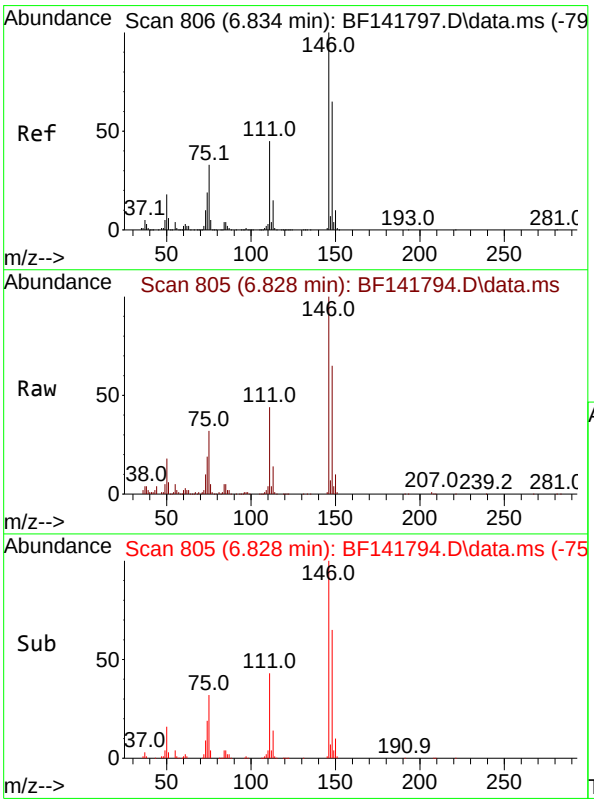
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 79.8 | 59.3 | 99.3 |
| 95 | 33.3 | 13.2 | 53.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

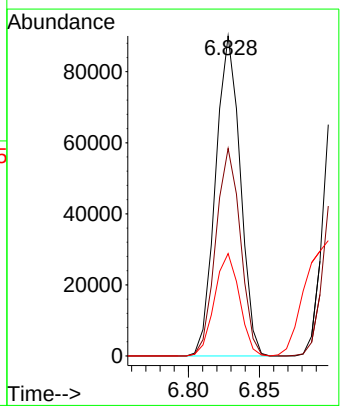
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

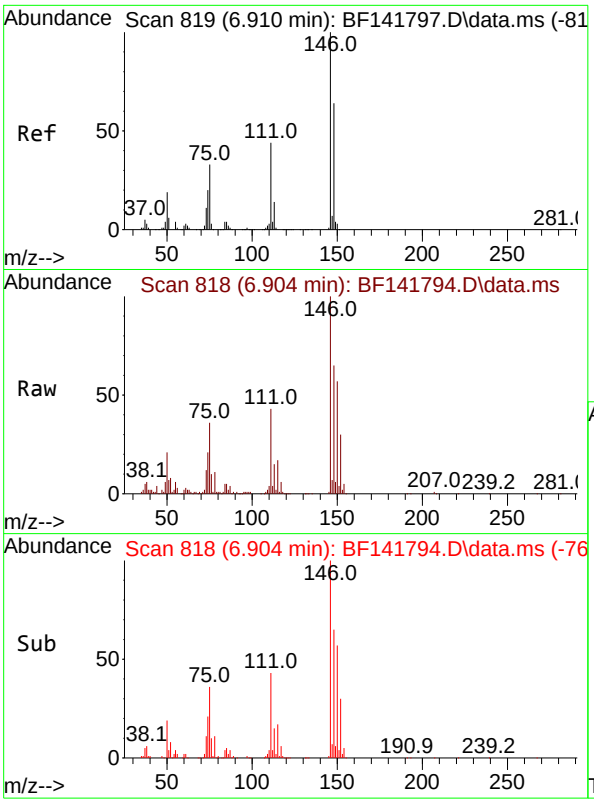



#12
1,3-Dichlorobenzene
Concen: 5.321 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:146 Resp: 108688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.9 | 51.8 | 77.6 |
| 75 | 32.0 | 26.2 | 39.4 |

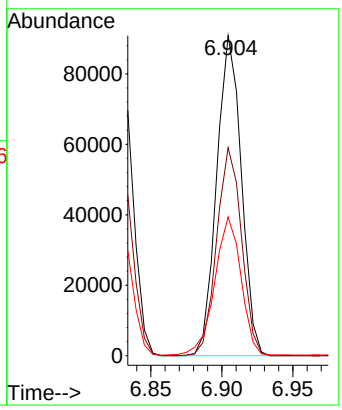





#13
1,4-Dichlorobenzene
Concen: 5.315 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:146 Resp: 10938

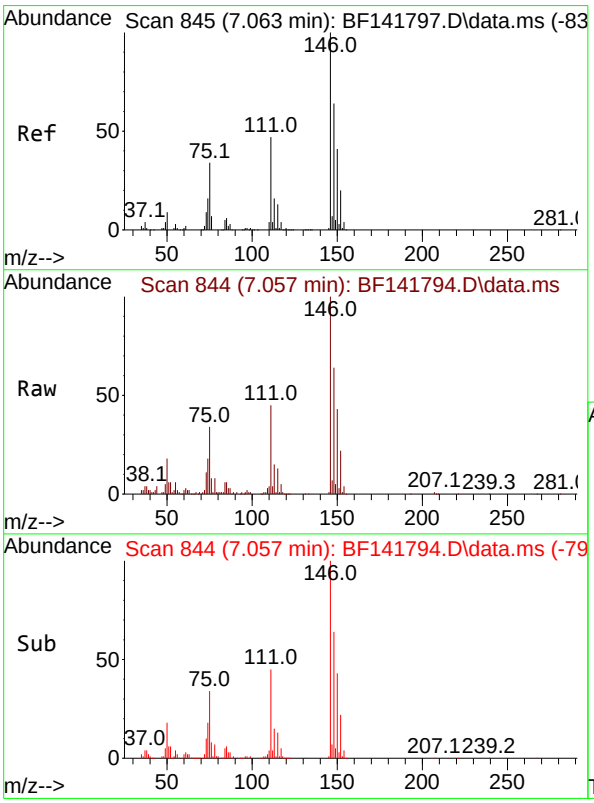
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 65.0 | 51.4 | 77.2 |
| 111 | 43.4 | 35.5 | 53.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

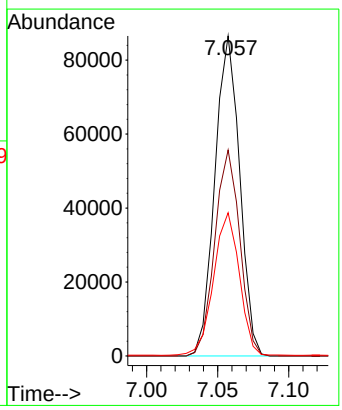
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

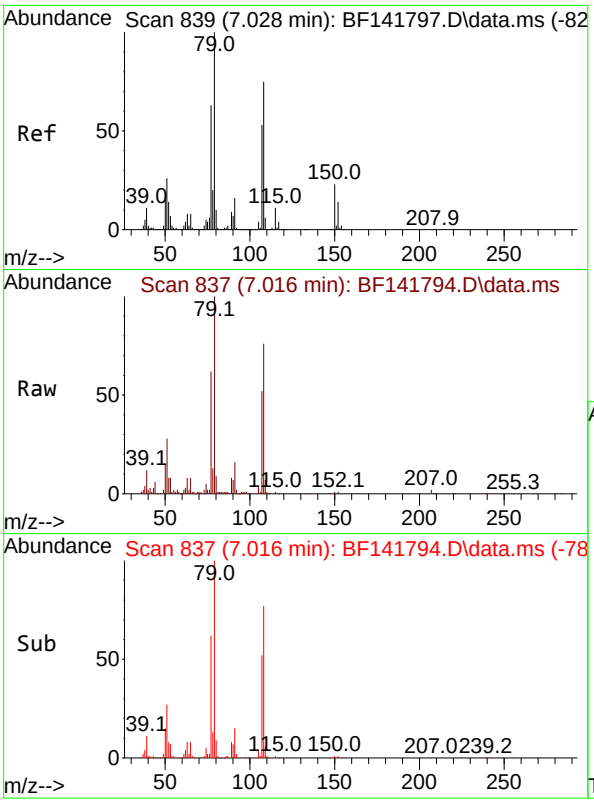



#14
1,2-Dichlorobenzene
Concen: 5.468 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:146 Resp: 105070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.4 | 51.2 | 76.8 |
| 111 | 44.8 | 37.8 | 56.6 |






#15
Benzyl Alcohol
Concen: 5.172 ng
RT: 7.016 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

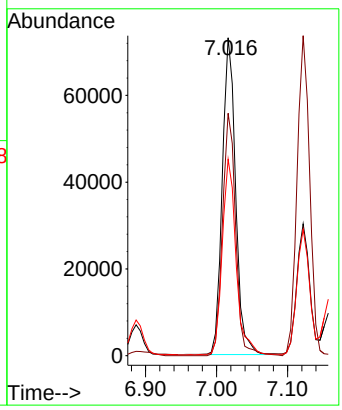
Tgt Ion: 79 Resp: 9484

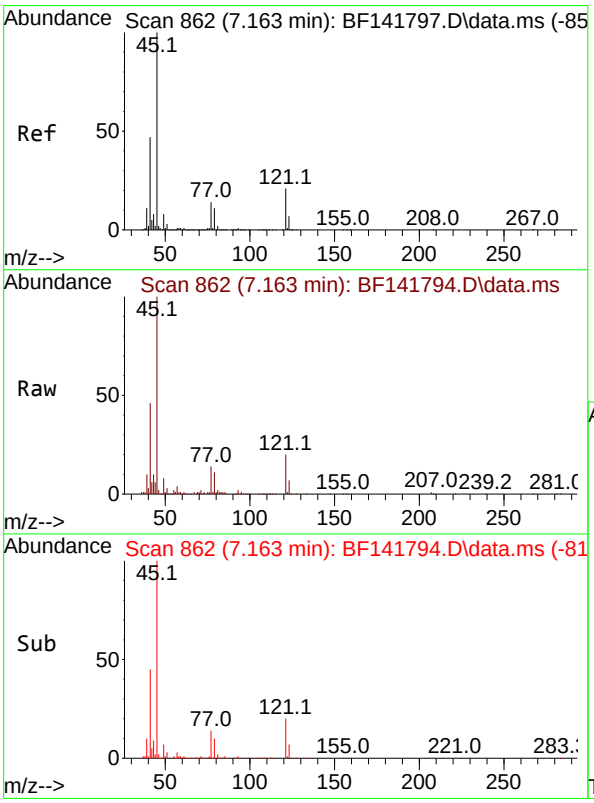
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 76.3 | 60.2 | 90.2 |
| 77 | 61.8 | 50.2 | 75.2 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

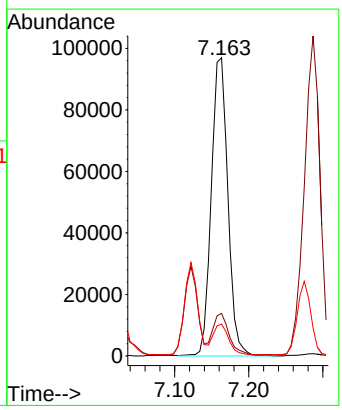


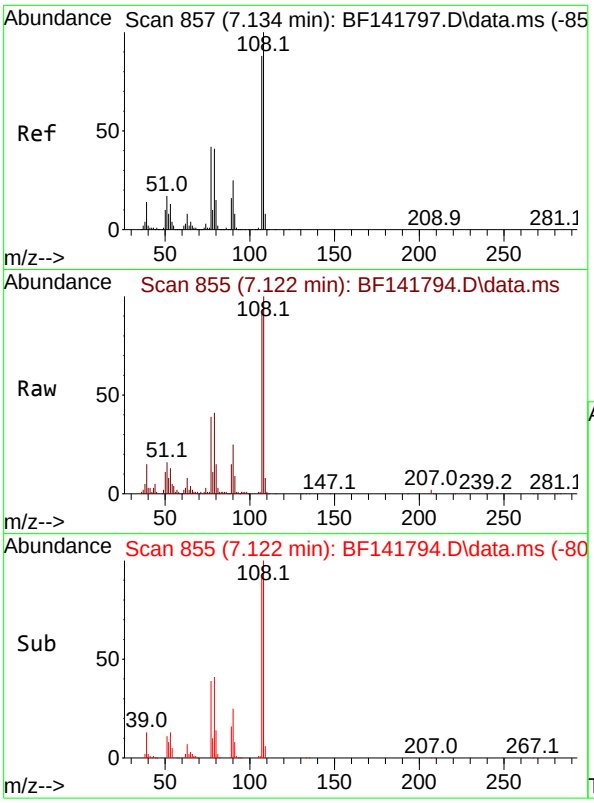




#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.303 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 45 Resp: 150528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 14.3 | 0.0 | 34.4 |
| 79 | 10.7 | 0.0 | 30.9 |

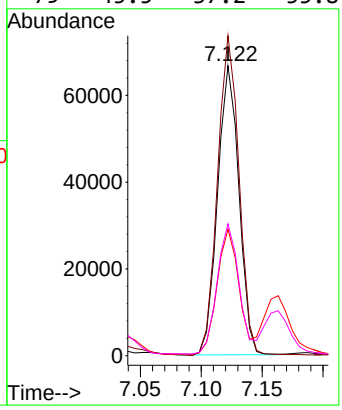





#17
2-Methylphenol
Concen: 5.165 ng
RT: 7.122 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:107 Resp: 8130

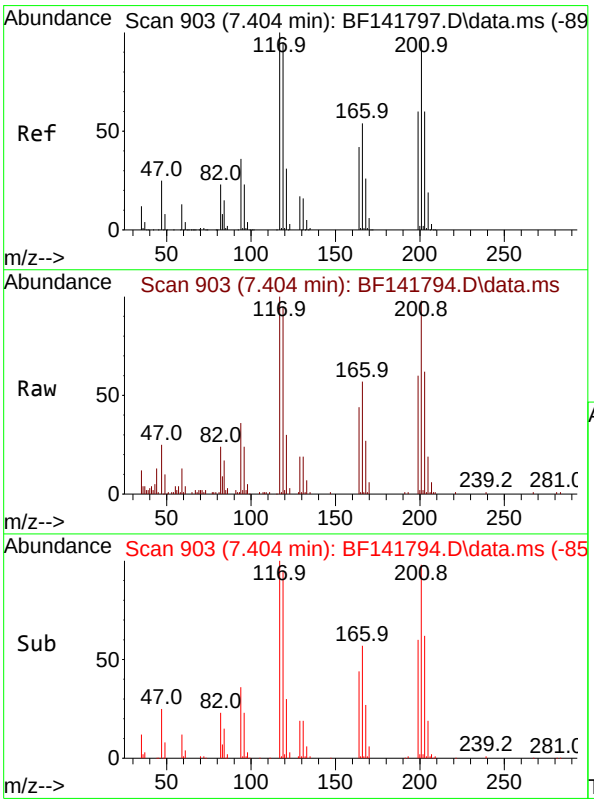
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 110.4 | 90.6 | 135.8 |
| 77 | 43.6 | 37.7 | 56.5 |
| 79 | 45.5 | 37.2 | 55.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

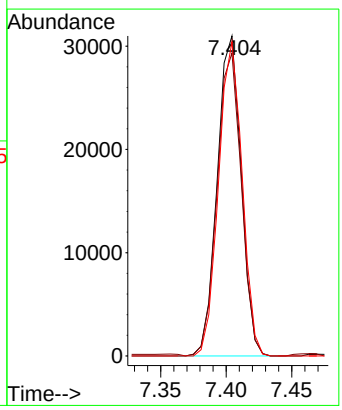
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

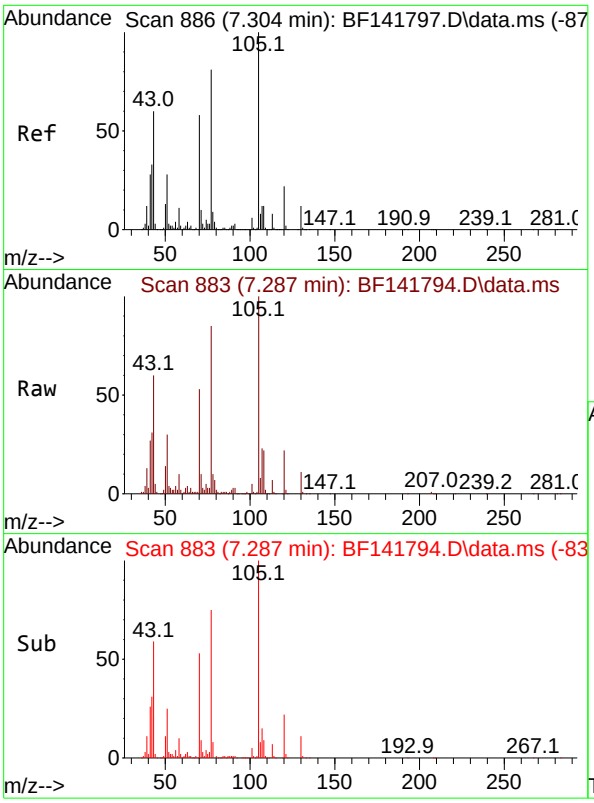



#18
Hexachloroethane
Concen: 5.110 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:117 Resp: 39359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.7 | 75.8 | 113.8 |
| 201 | 98.2 | 76.7 | 115.1 |

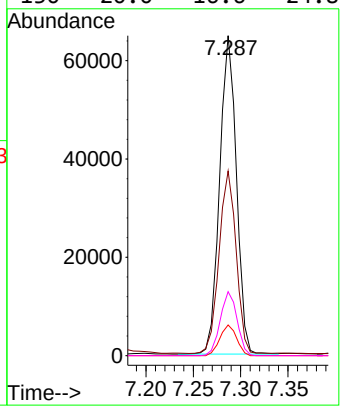





#19
n-Nitroso-di-n-propylamine
Concen: 5.300 ng
RT: 7.287 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 70 Resp: 7994

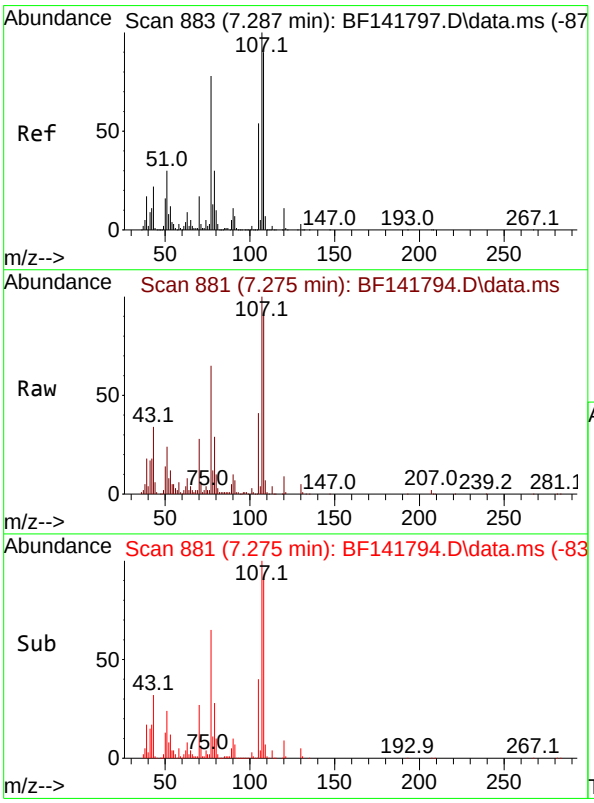
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 57.7 | 45.4 | 68.0 |
| 101 | 9.6 | 7.8 | 11.8 |
| 130 | 20.0 | 16.6 | 24.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

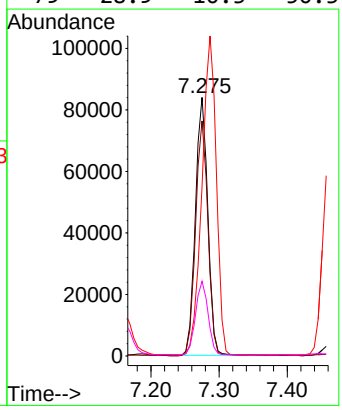
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

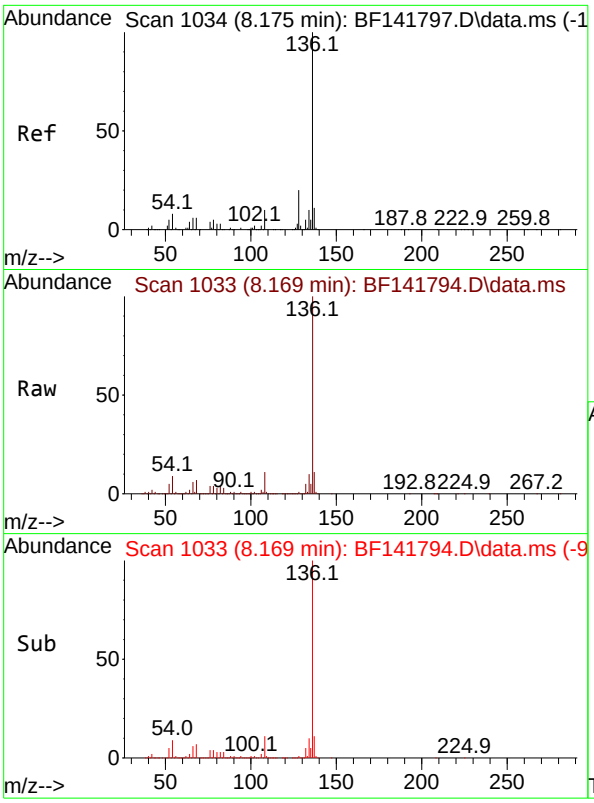



#20
3+4-Methylphenols
Concen: 5.412 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:107 Resp: 106084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 90.9 | 69.7 | 109.7 |
| 77 | 65.5 | 58.3 | 98.3 |
| 79 | 28.9 | 10.3 | 50.3 |

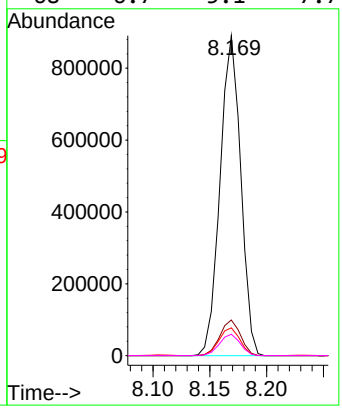





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:136 Resp: 112807

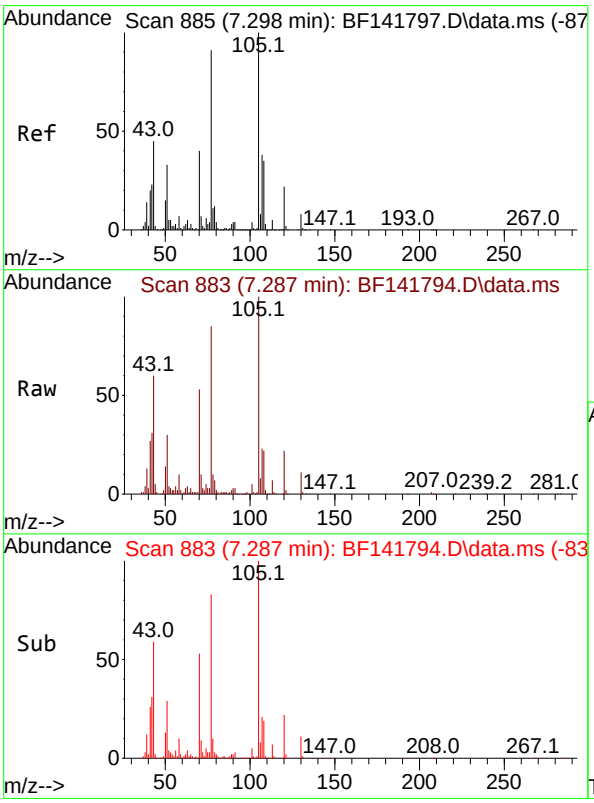
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.1 | 8.9 | 13.3 |
| 54 | 8.7 | 6.9 | 10.3 |
| 68 | 6.7 | 5.1 | 7.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

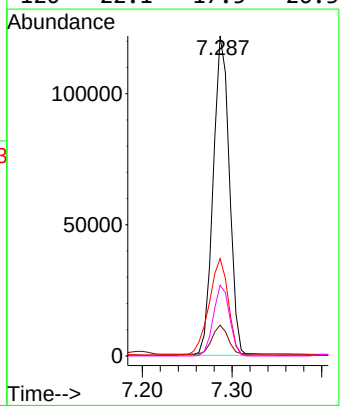
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

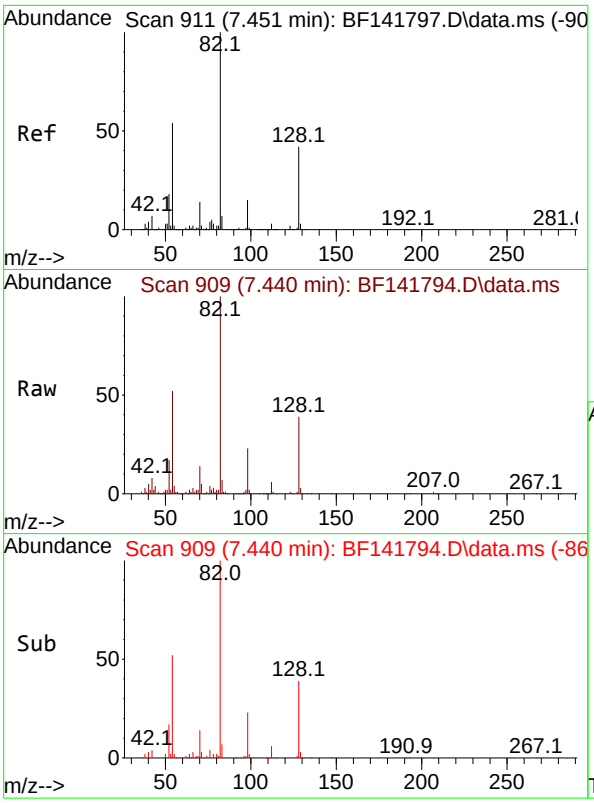



#22
Acetophenone
Concen: 5.537 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:105 Resp: 152122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 9.7 | 5.4 | 8.0# |
| 51 | 30.4 | 26.1 | 39.1 |
| 120 | 22.1 | 17.5 | 26.3 |






#23
Nitrobenzene-d5
Concen: 7.929 ng
RT: 7.440 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

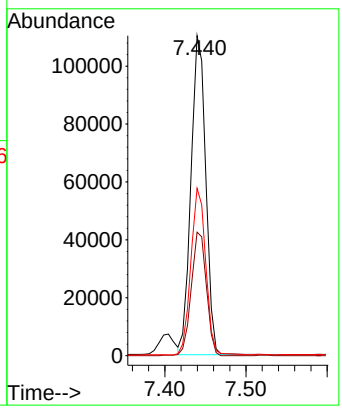
Tgt Ion: 82 Resp: 13994(

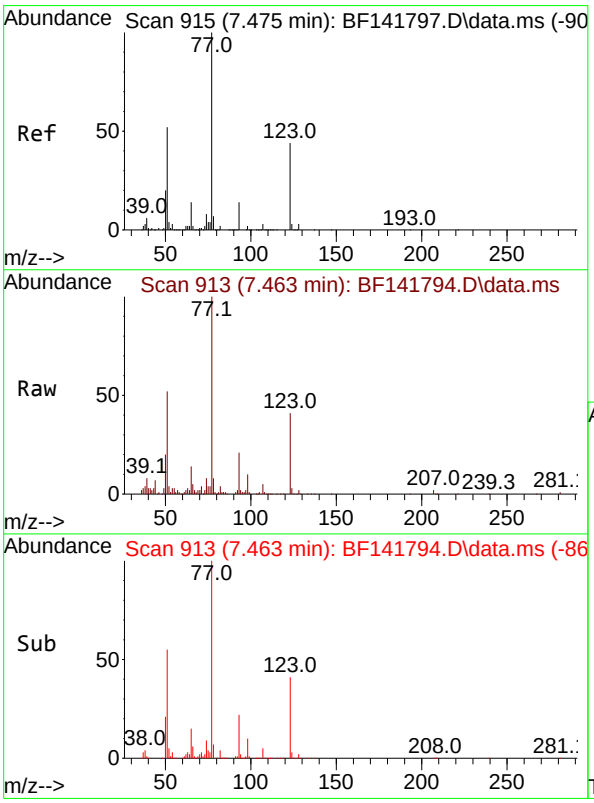
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 38.6 | 33.5 | 50.3 |
| 54 | 52.3 | 42.7 | 64.1 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

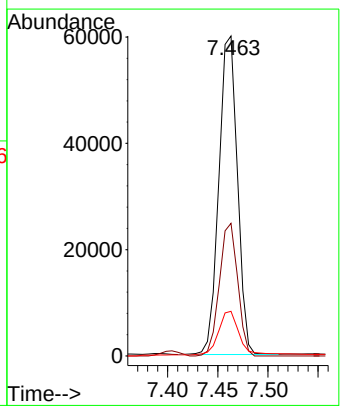


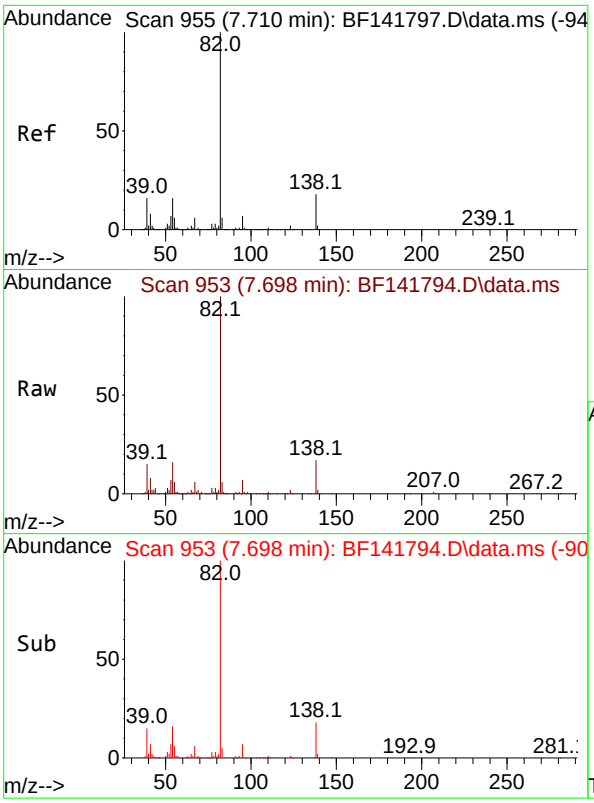




#24
Nitrobenzene
Concen: 4.071 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 77 Resp: 76930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 41.5 | 35.8 | 53.8 |
| 65 | 13.9 | 11.2 | 16.8 |






#25
Isophorone
Concen: 5.221 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

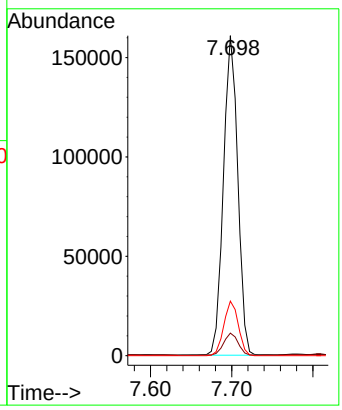
Tgt Ion: 82 Resp: 19796

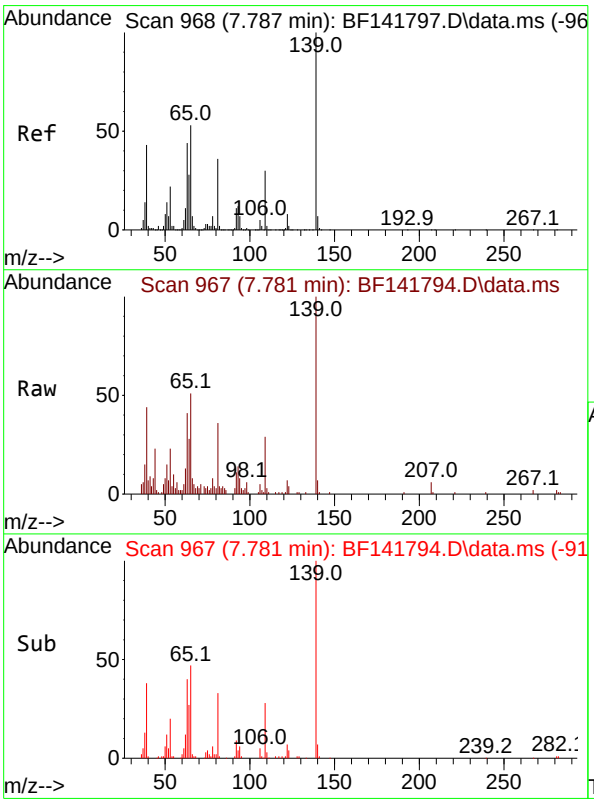
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.1 | 5.8 | 8.8 |
| 138 | 17.0 | 14.0 | 21.0 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

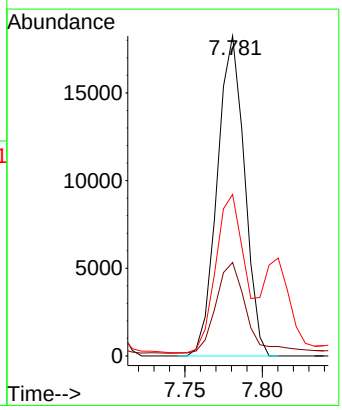


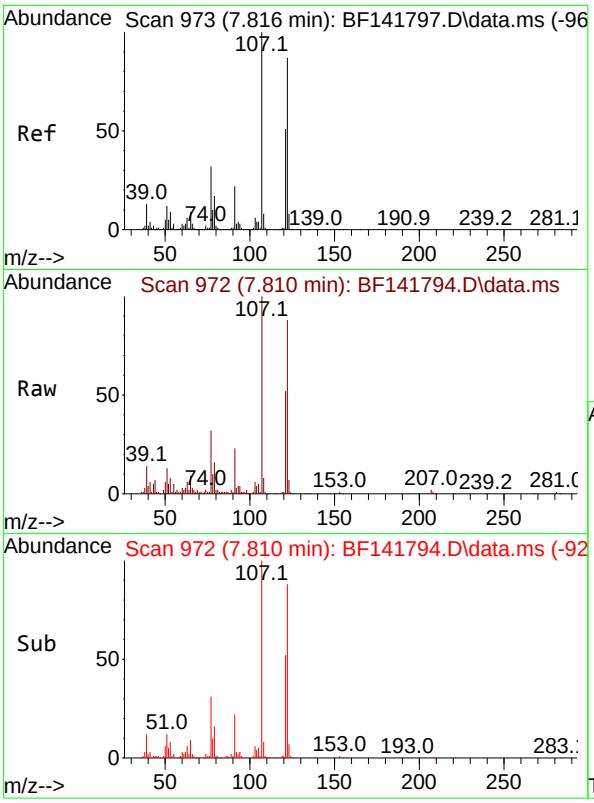




#26
2-Nitrophenol
Concen: 6.947 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:139 Resp: 22354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 29.2 | 24.1 | 36.1 |
| 65 | 50.5 | 42.3 | 63.5 |






#27
2,4-Dimethylphenol
Concen: 5.211 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

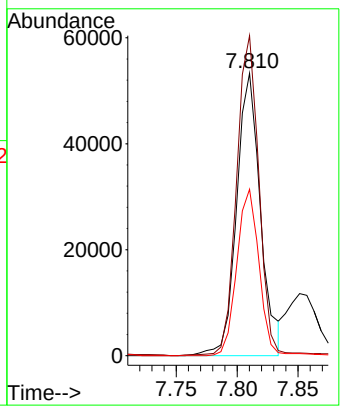
Tgt Ion:122 Resp: 7263

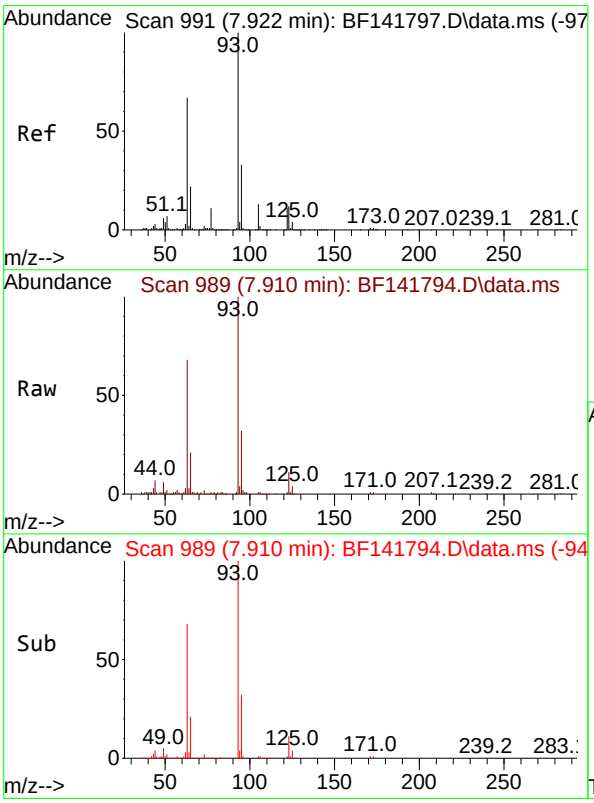
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 113.3 | 92.5 | 138.7 |
| 121 | 59.0 | 47.1 | 70.7 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

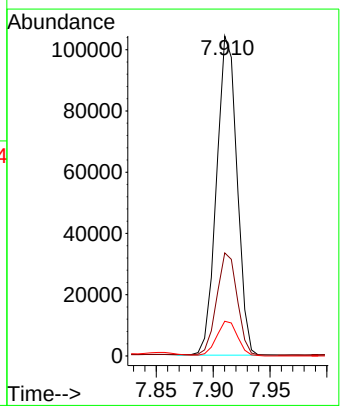


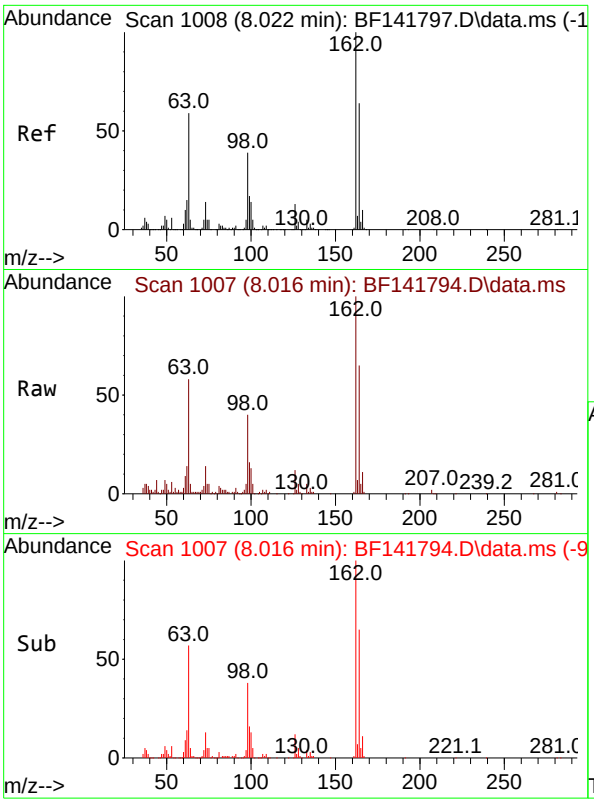




#28
bis(2-Chloroethoxy)methane
Concen: 5.395 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 93 Resp: 130473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.2 | 26.5 | 39.7 |
| 123 | 10.9 | 10.0 | 15.0 |






#29
2,4-Dichlorophenol
Concen: 4.914 ng
RT: 8.016 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

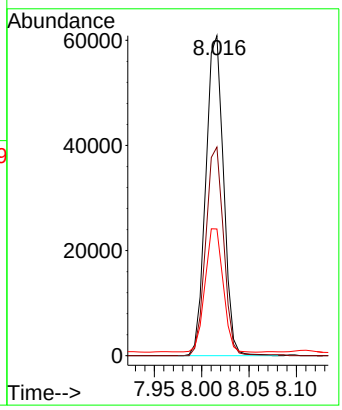
Tgt Ion:162 Resp: 7900

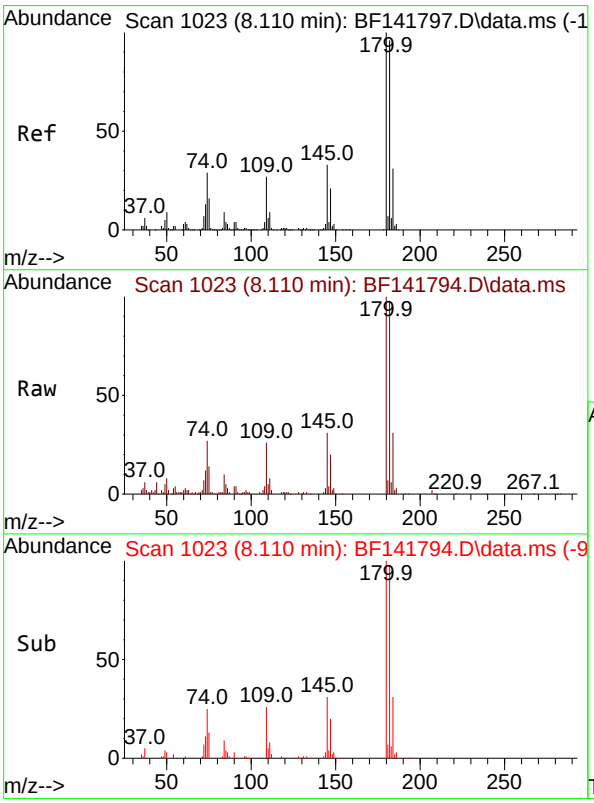
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 65.2 | 44.3 | 84.3 |
| 98 | 39.6 | 19.6 | 59.6 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

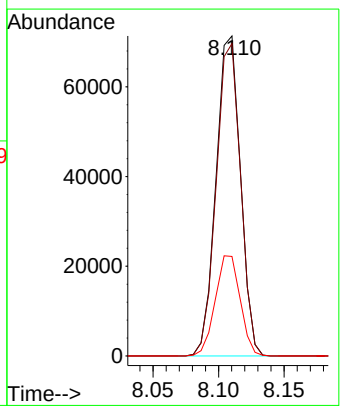


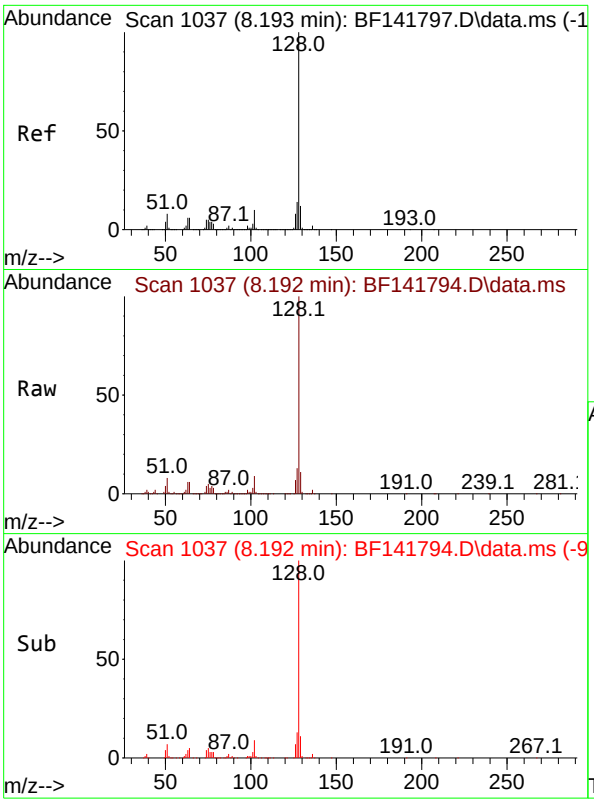




#30
1,2,4-Trichlorobenzene
Concen: 5.244 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:180 Resp: 92399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.6 | 76.8 | 115.2 |
| 145 | 31.1 | 26.4 | 39.6 |

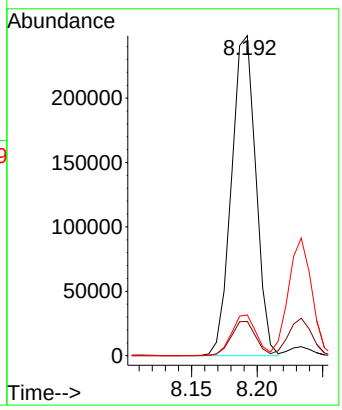





#31
Naphthalene
Concen: 5.546 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:128 Resp: 32154

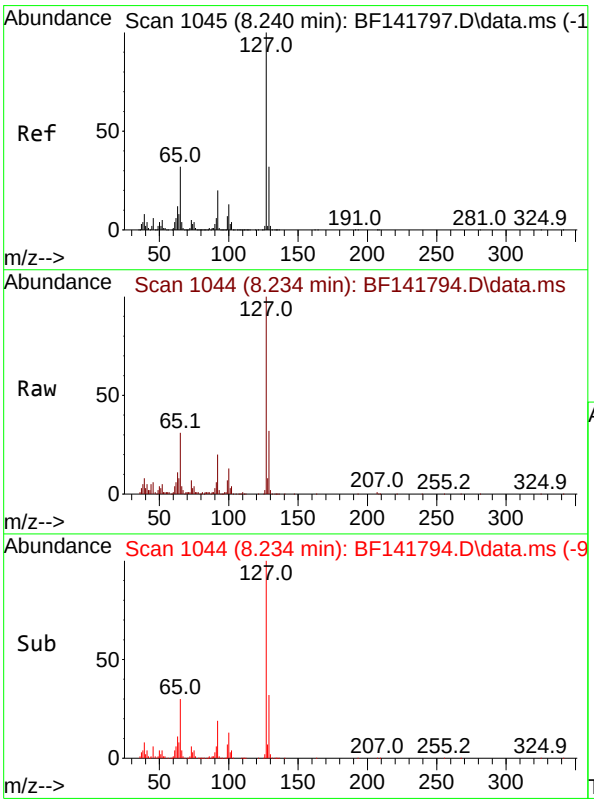
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.7 | 9.2 | 13.8 |
| 127 | 12.8 | 11.0 | 16.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

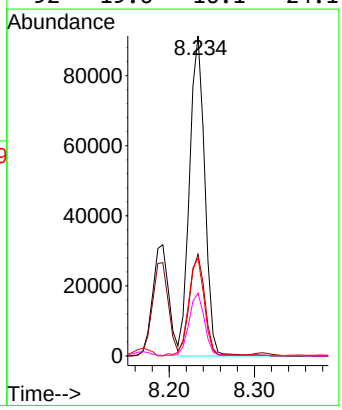
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

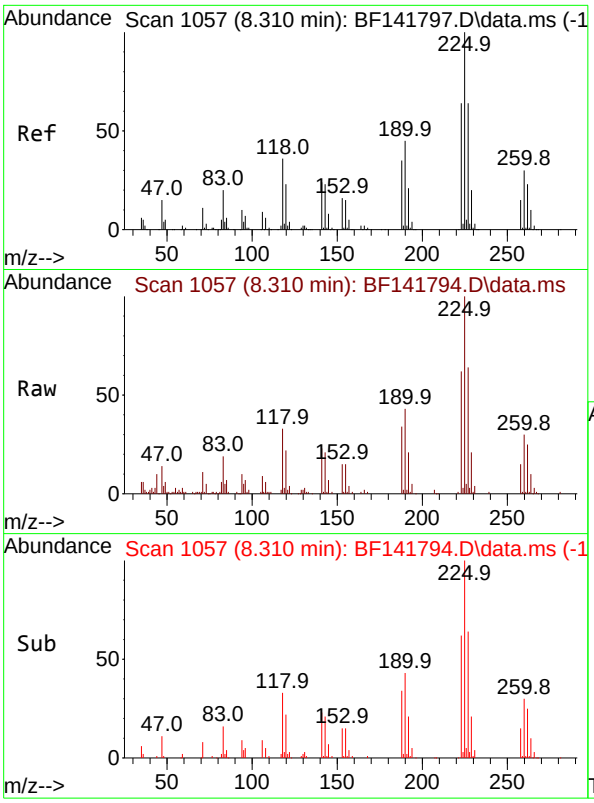



#33
4-Chloroaniline
Concen: 5.335 ng
RT: 8.234 min Scan# 1044
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:127 Resp: 113407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 31.8 | 26.1 | 39.1 |
| 65 | 30.5 | 25.7 | 38.5 |
| 92 | 19.6 | 16.1 | 24.1 |






#34
Hexachlorobutadiene
Concen: 5.134 ng
RT: 8.310 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

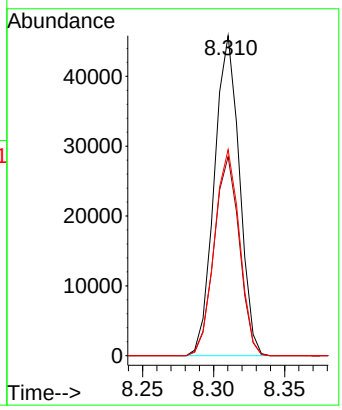
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

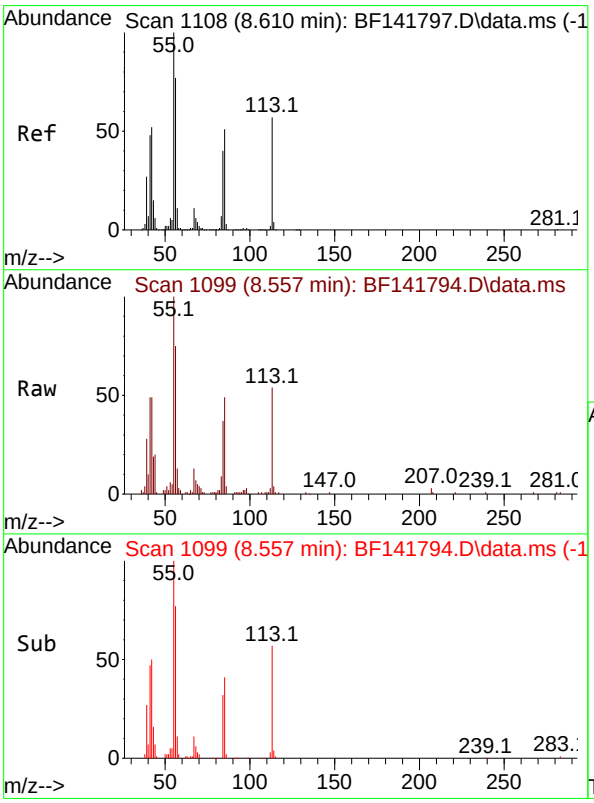
Tgt Ion:225 Resp: 5620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.2 | 51.4 | 77.2 |
| 227 | 64.4 | 51.6 | 77.4 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

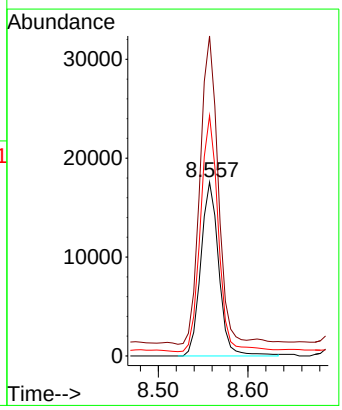


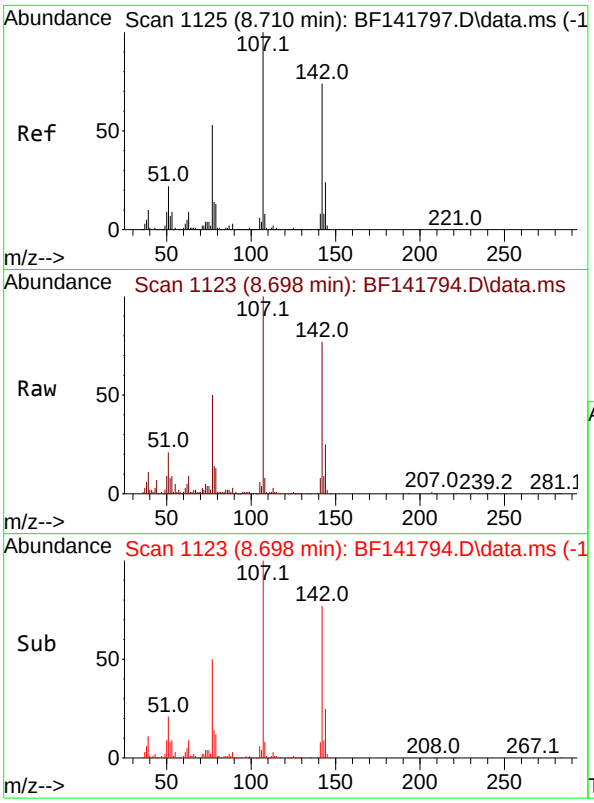




#35
Caprolactam
Concen: 4.946 ng
RT: 8.557 min Scan# 1099
Delta R.T. -0.053 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:113 Resp: 24467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 184.1 | 155.6 | 195.6 |
| 56 | 138.2 | 114.6 | 154.6 |






#36
4-Chloro-3-methylphenol
Concen: 5.262 ng
RT: 8.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

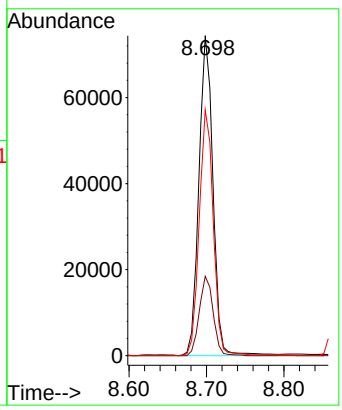
Tgt Ion:107 Resp: 9398

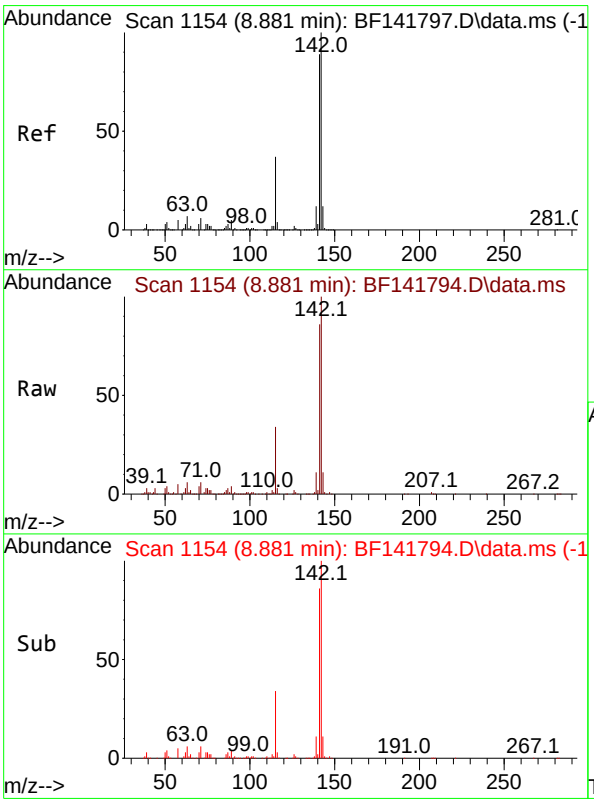
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 24.8 | 19.4 | 29.0 |
| 142 | 76.8 | 59.4 | 89.0 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

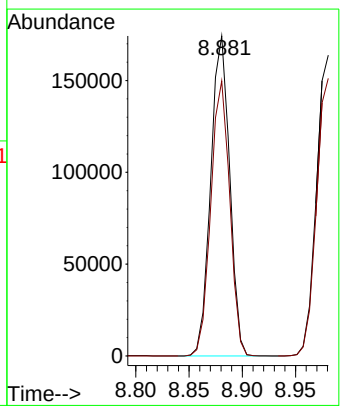


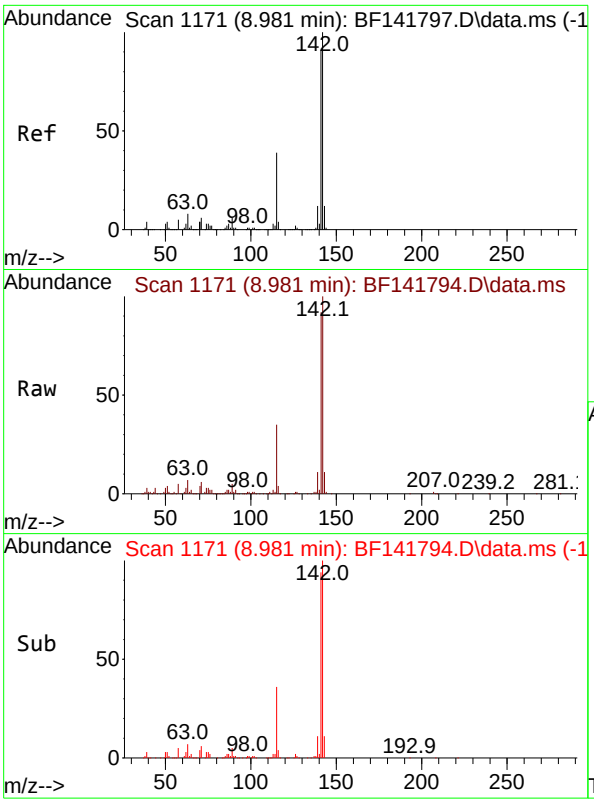




#37
2-Methylnaphthalene
Concen: 5.653 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:142 Resp: 214971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 86.0 | 71.1 | 106.7 |

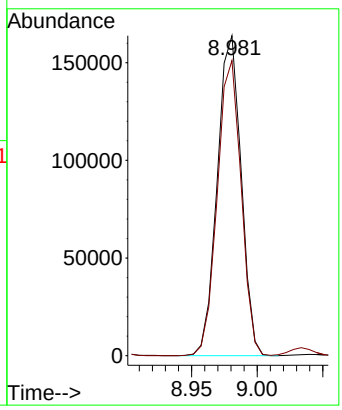





#38
1-Methylnaphthalene
Concen: 5.676 ng
RT: 8.981 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:142 Resp: 20709

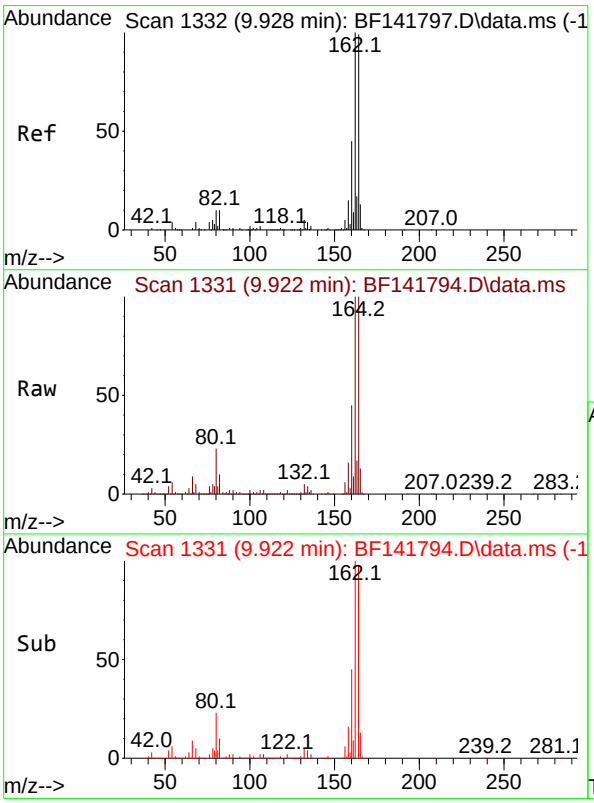
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.3 | 73.1 | 109.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

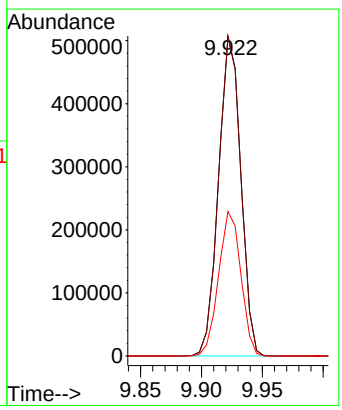
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

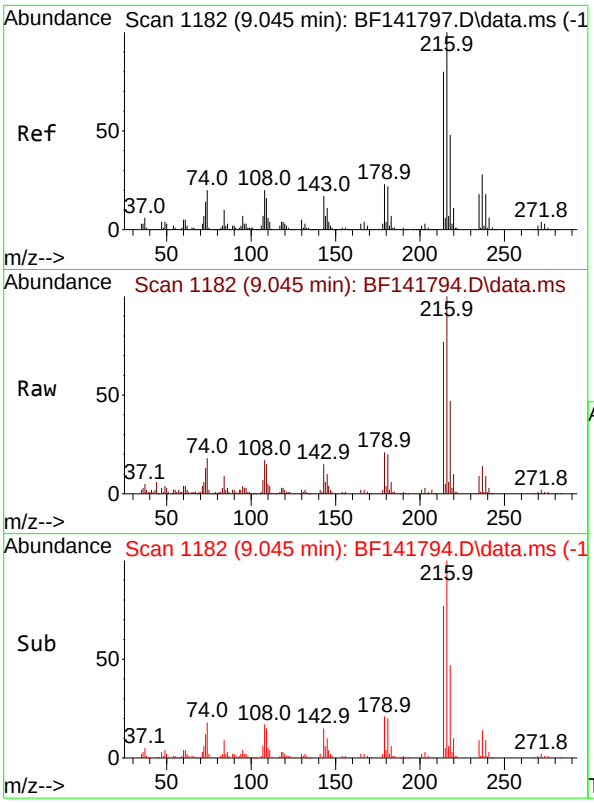



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:164 Resp: 643922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.3 | 80.6 | 120.8 |
| 160 | 45.3 | 36.3 | 54.5 |

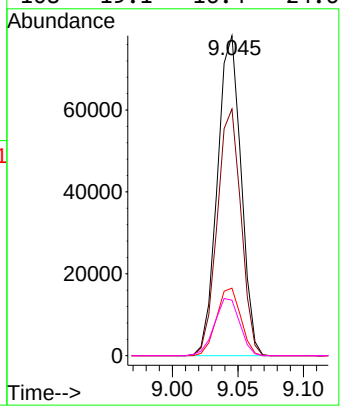





#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.275 ng
RT: 9.045 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:216 Resp: 9810

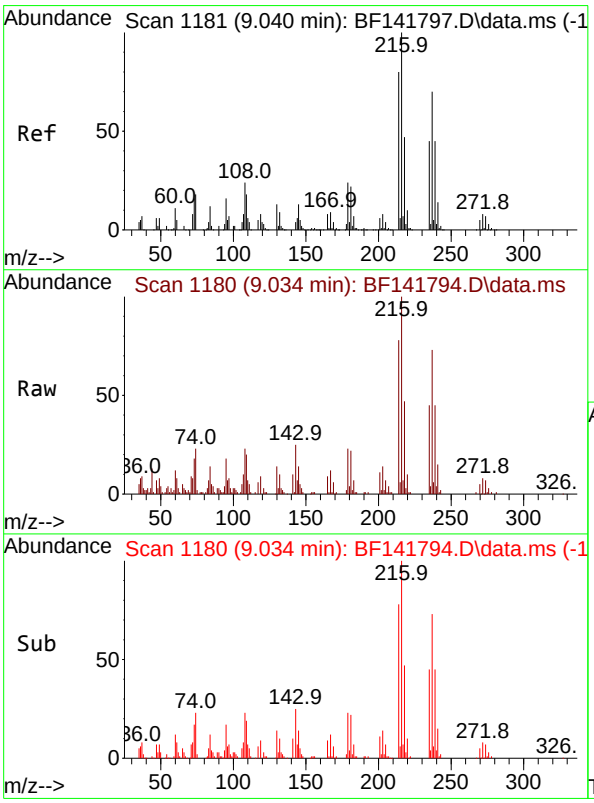
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 77.2 | 63.5 | 95.3 |
| 179 | 21.5 | 18.1 | 27.1 |
| 108 | 19.1 | 16.4 | 24.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

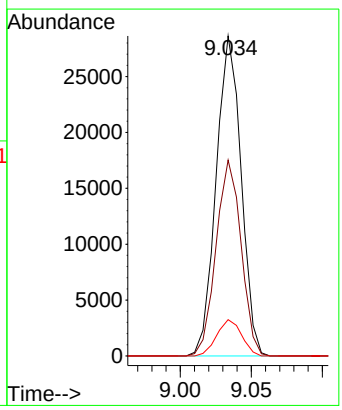
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

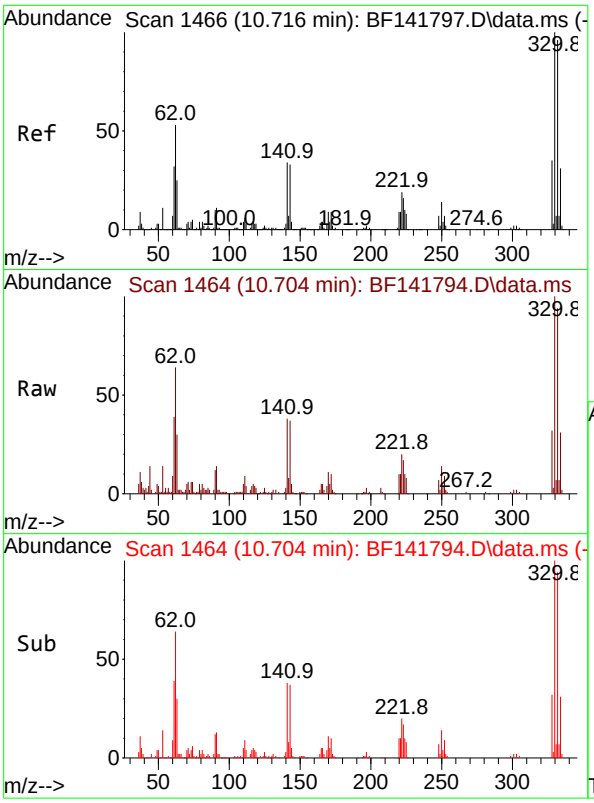



#41
Hexachlorocyclopentadiene
Concen: 4.508 ng
RT: 9.034 min Scan# 1180
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:237 Resp: 34990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 61.2 | 43.3 | 83.3 |
| 272 | 11.4 | 0.0 | 31.9 |

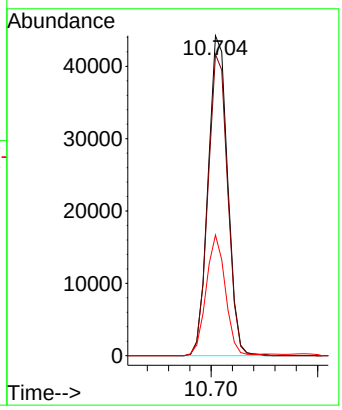





#42
2,4,6-Tribromophenol
Concen: 9.331 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:330 Resp: 5640

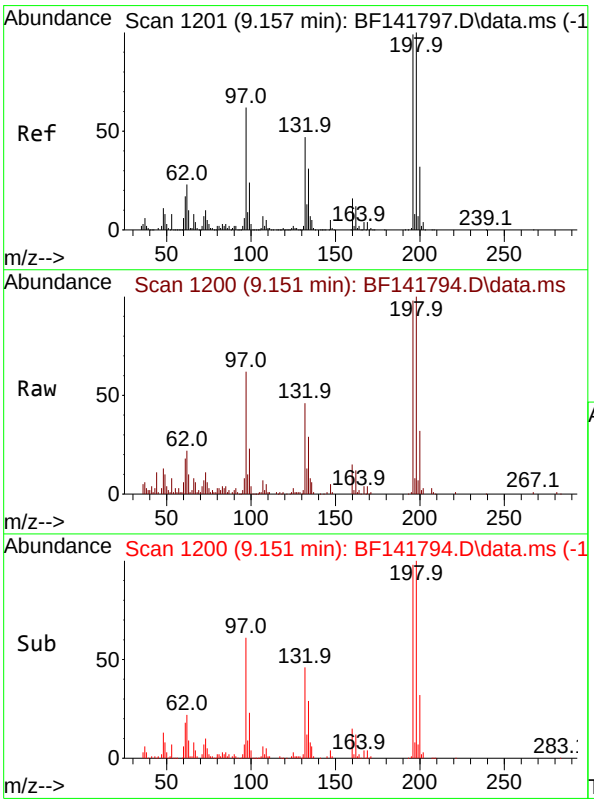
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 94.6 | 76.6 | 115.0 |
| 141 | 37.1 | 29.0 | 43.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

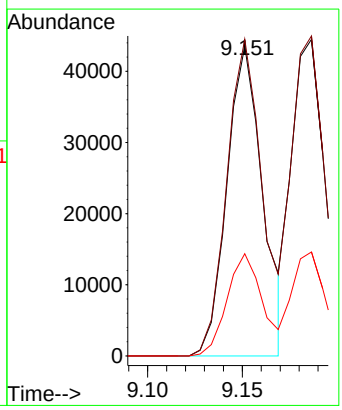
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

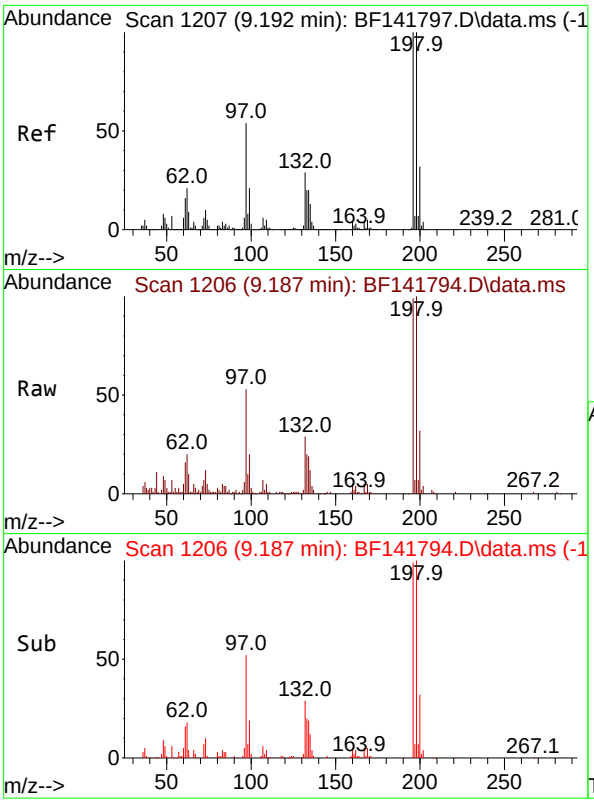



#43
2,4,6-Trichlorophenol
Concen: 4.753 ng
RT: 9.151 min Scan# 1200
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:196 Resp: 57097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 102.2 | 80.4 | 120.6 |
| 200 | 33.0 | 25.7 | 38.5 |

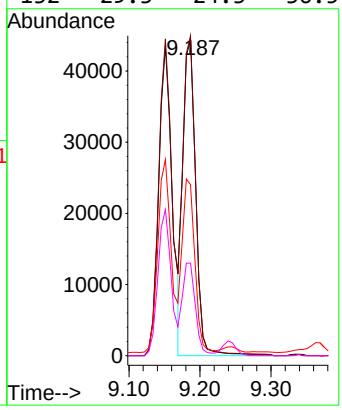





#44
2,4,5-Trichlorophenol
Concen: 4.706 ng
RT: 9.187 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:196 Resp: 5597

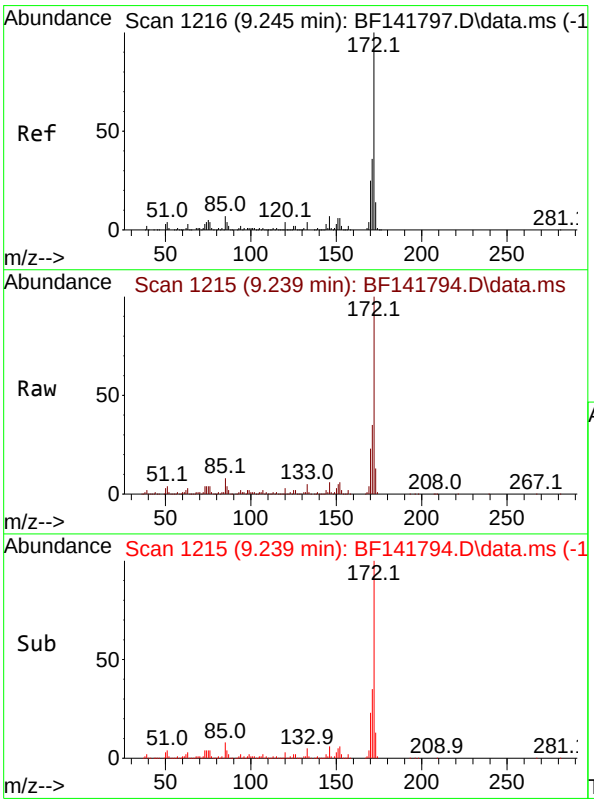
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 101.1 | 79.7 | 119.5 |
| 97 | 54.0 | 44.2 | 66.2 |
| 132 | 29.3 | 24.3 | 36.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

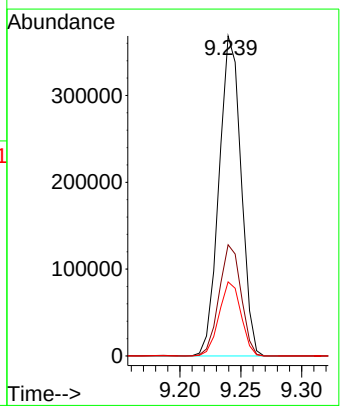
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

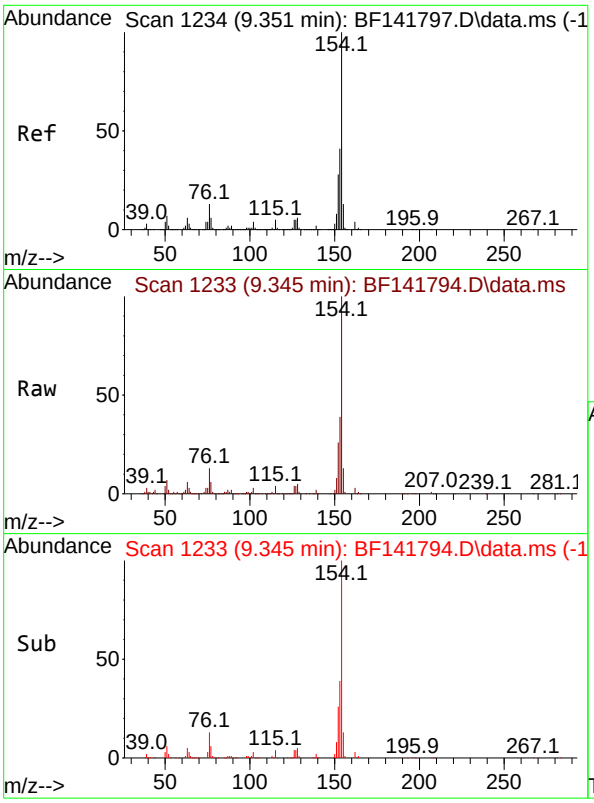



#45
2-Fluorobiphenyl
Concen: 11.570 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:172 Resp: 464621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 34.7 | 29.2 | 43.8 |
| 170 | 23.2 | 19.7 | 29.5 |

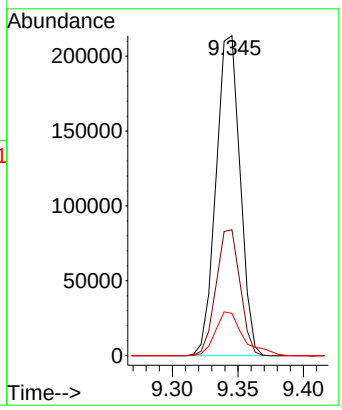





#46
1,1'-Biphenyl
Concen: 5.563 ng
RT: 9.345 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:154 Resp: 27264

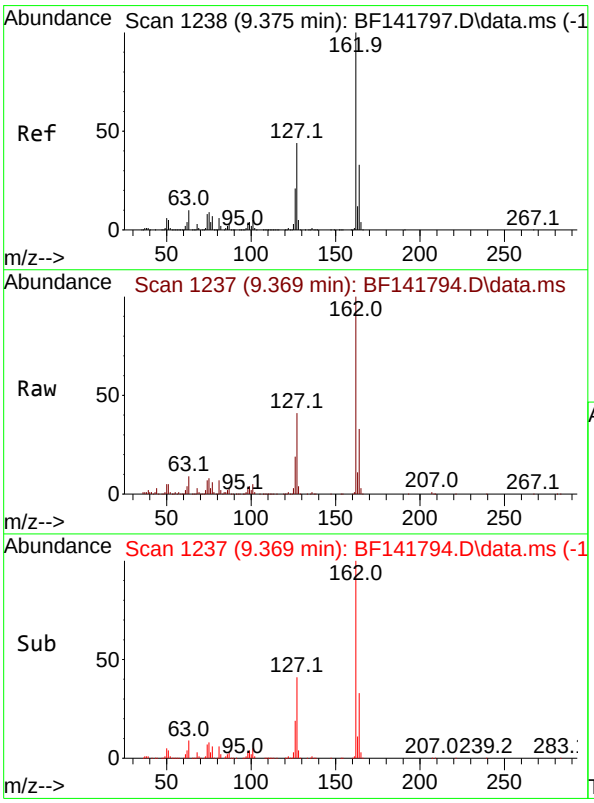
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 39.4 | 21.4 | 61.4 |
| 76 | 13.2 | 0.0 | 33.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

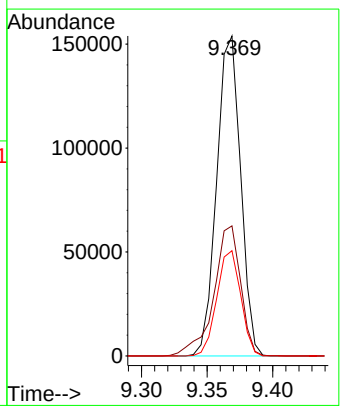
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

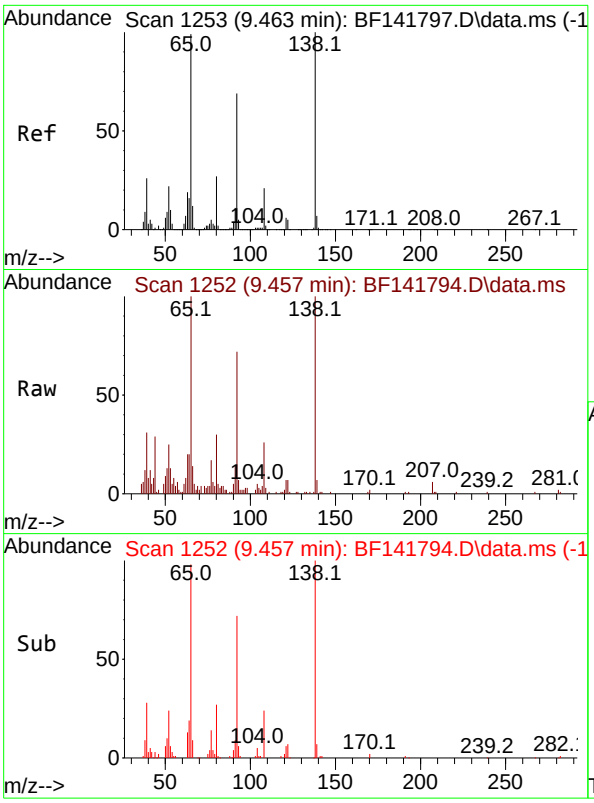



#47
2-Chloronaphthalene
Concen: 5.388 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:162 Resp: 194915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 40.7 | 35.0 | 52.6 |
| 164 | 32.9 | 26.6 | 40.0 |






#48
2-Nitroaniline
Concen: 6.586 ng
RT: 9.457 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

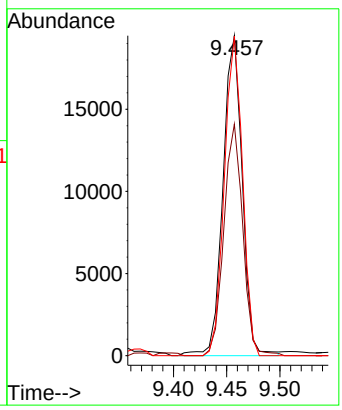
Tgt Ion: 65 Resp: 2446

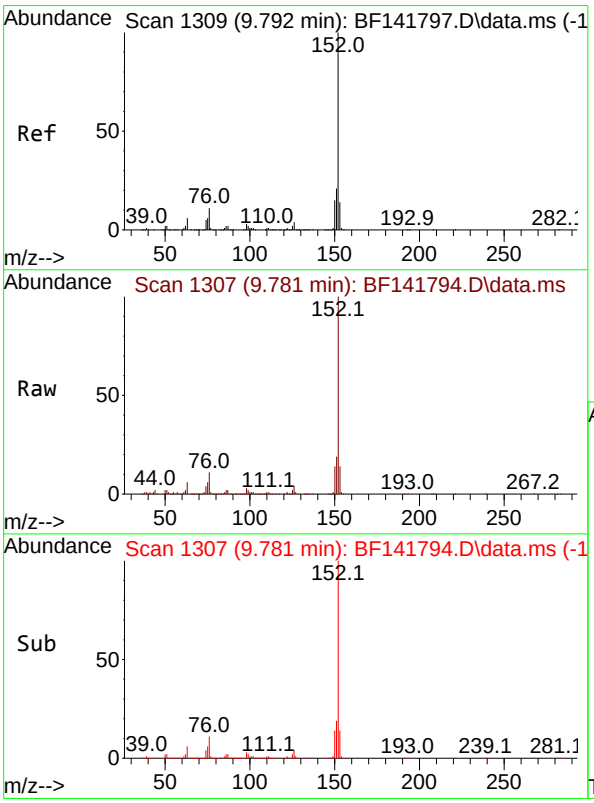
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 72.3 | 55.7 | 83.5 |
| 138 | 99.8 | 80.6 | 121.0 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

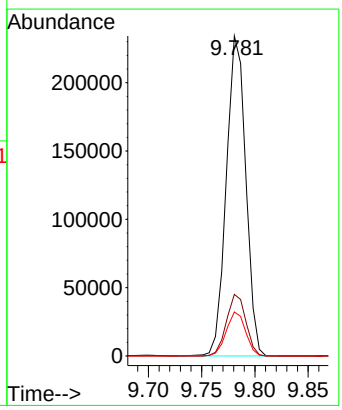


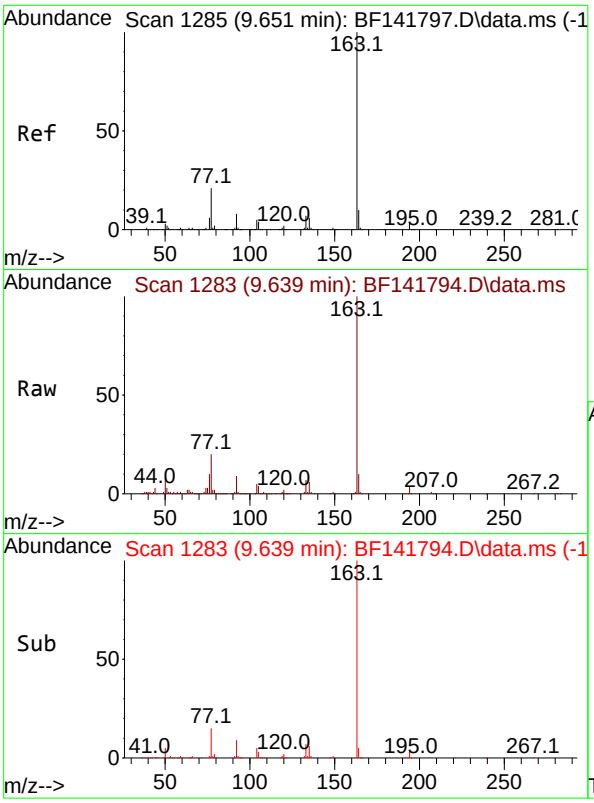




#49
Acenaphthylene
Concen: 5.481 ng
RT: 9.781 min Scan# 1307
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:152 Resp: 297257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.2 | 16.6 | 24.8 |
| 153 | 13.8 | 11.2 | 16.8 |

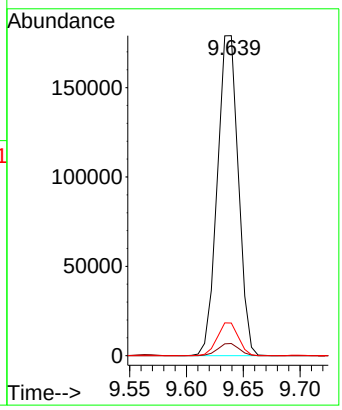





#50
Dimethylphthalate
Concen: 5.344 ng
RT: 9.639 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:163 Resp: 23042

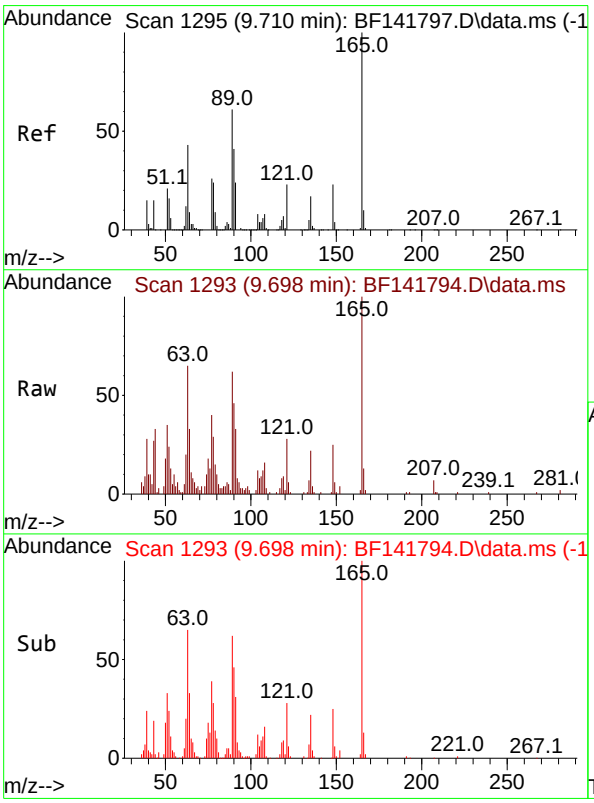
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.8 | 3.1 | 4.7 |
| 164 | 10.2 | 8.4 | 12.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

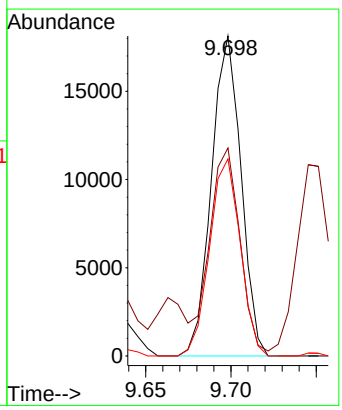
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

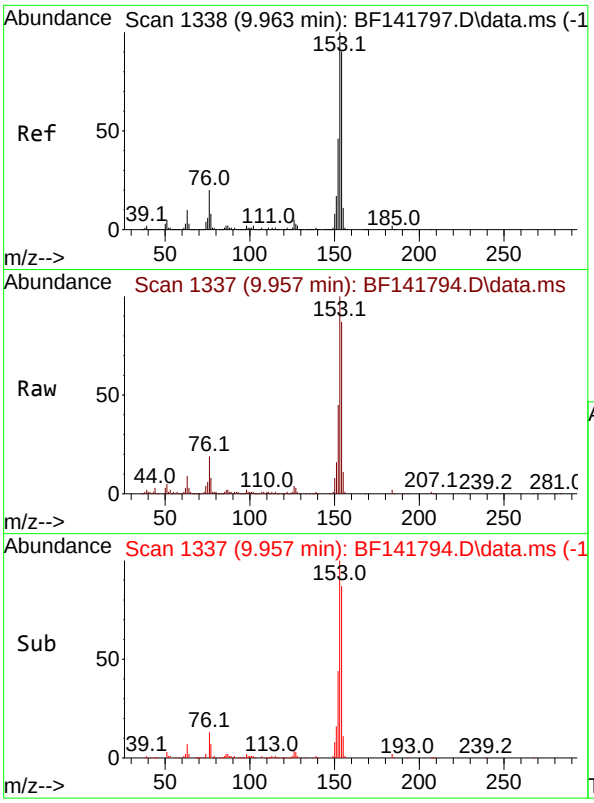



#51
2,6-Dinitrotoluene
Concen: 5.327 ng
RT: 9.698 min Scan# 1293
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:165 Resp: 21902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 65.0 | 49.5 | 74.3 |
| 89 | 61.6 | 49.0 | 73.4 |

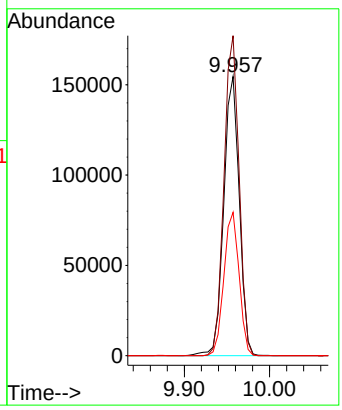





#52
Acenaphthene
Concen: 5.353 ng
RT: 9.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:154 Resp: 19591

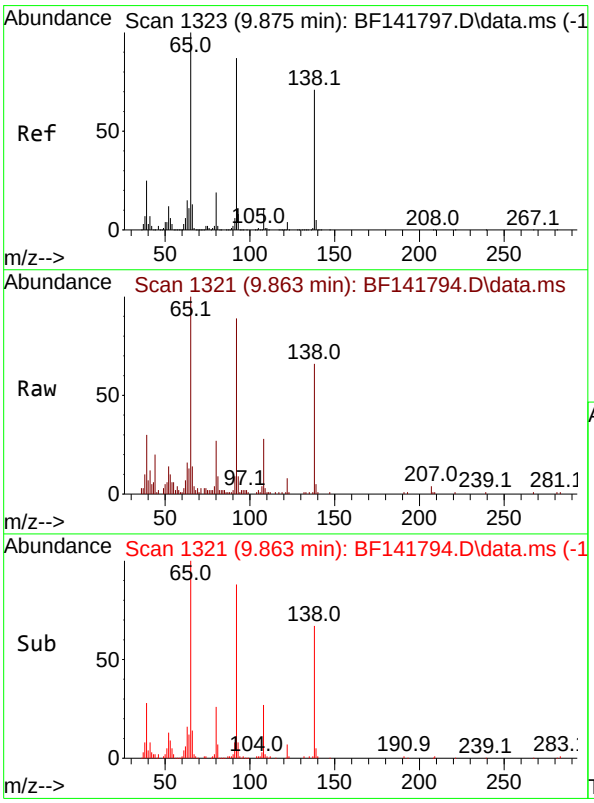
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 114.6 | 88.7 | 133.1 |
| 152 | 51.4 | 40.9 | 61.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

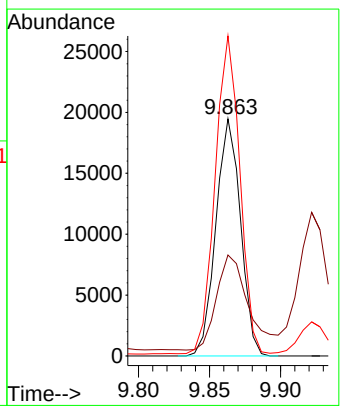
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

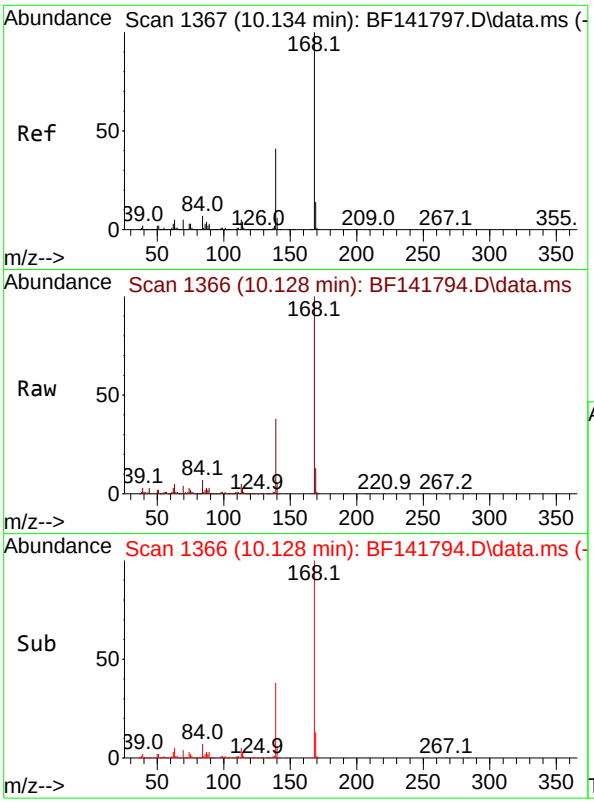



#53
3-Nitroaniline
Concen: 5.471 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:138 Resp: 23458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 42.5 | 12.7 | 19.1# |
| 92 | 134.9 | 97.9 | 146.9 |

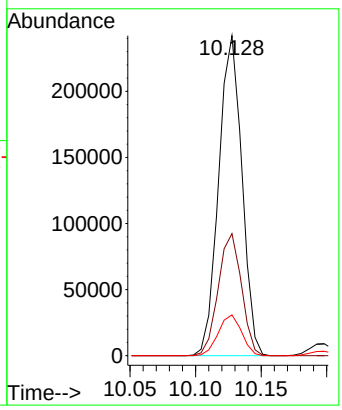





#55
Dibenzofuran
Concen: 5.590 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:168 Resp: 29775

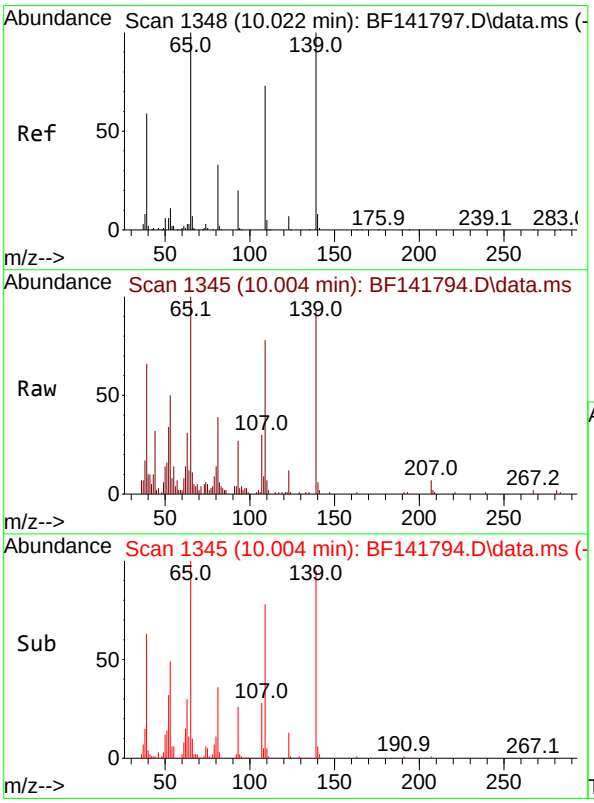
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 38.1 | 32.9 | 49.3 |
| 169 | 12.8 | 11.1 | 16.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

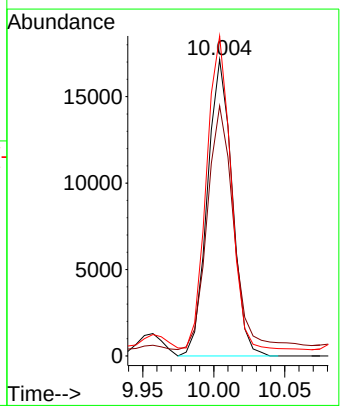
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

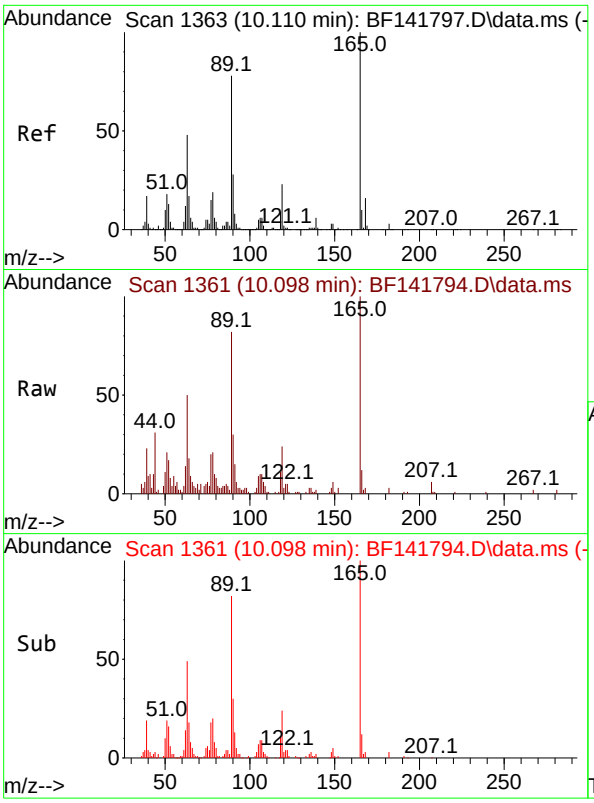



#56
4-Nitrophenol
Concen: 3.272 ng
RT: 10.004 min Scan# 1345
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:139 Resp: 20838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 84.4 | 53.4 | 93.4 |
| 65 | 107.9 | 82.1 | 122.1 |

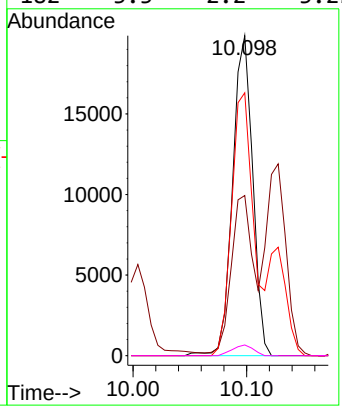





#57
2,4-Dinitrotoluene
Concen: 5.755 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:165 Resp: 2425

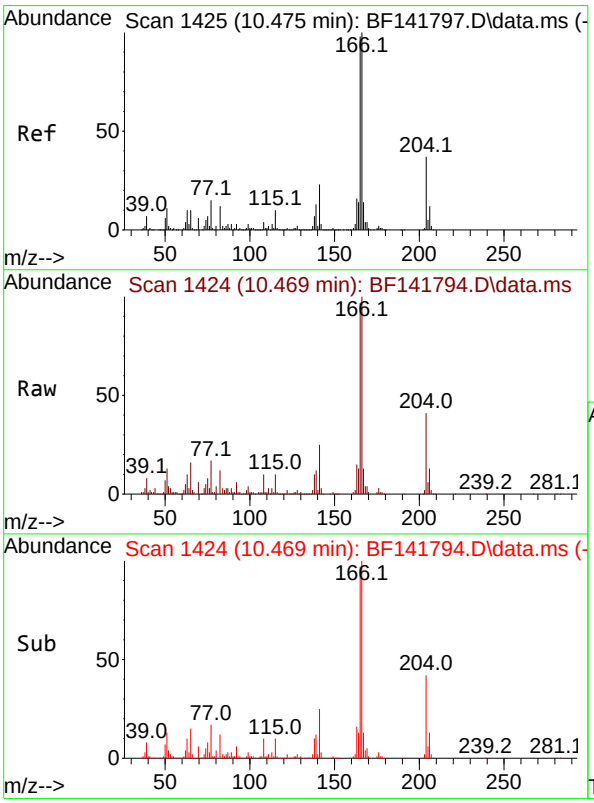
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 50.0 | 38.8 | 58.2 |
| 89 | 82.2 | 62.6 | 94.0 |
| 182 | 3.3 | 2.2 | 3.2# |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

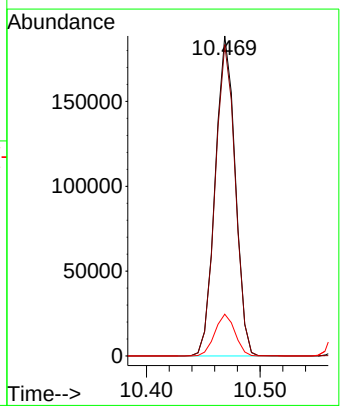
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

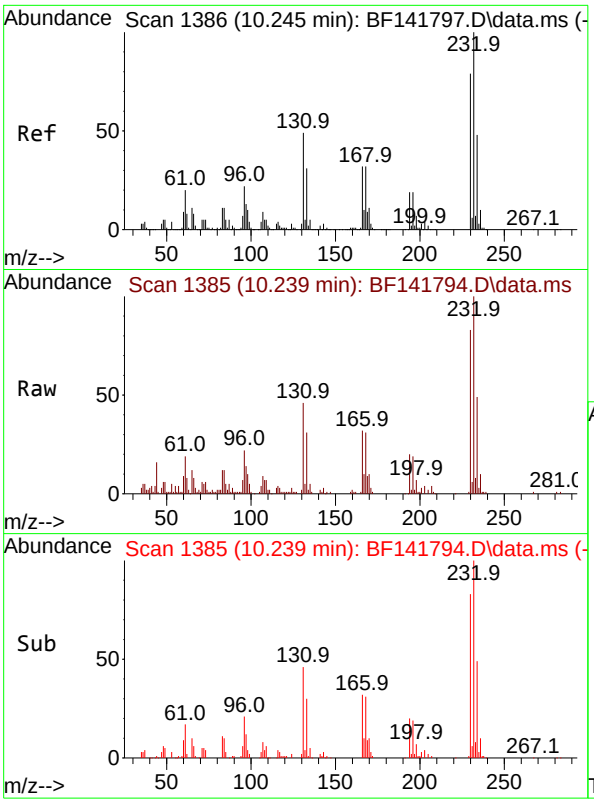



#58
Fluorene
Concen: 5.782 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:166 Resp: 230713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.3 | 78.6 | 117.8 |
| 167 | 13.0 | 11.0 | 16.4 |

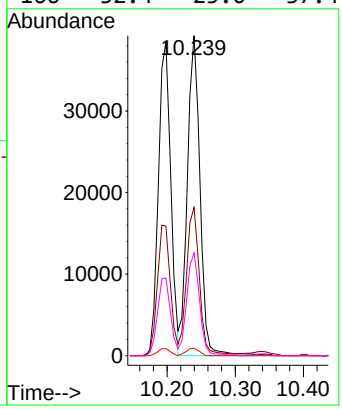





#59
2,3,4,6-Tetrachlorophenol
Concen: 4.873 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:232 Resp: 5041

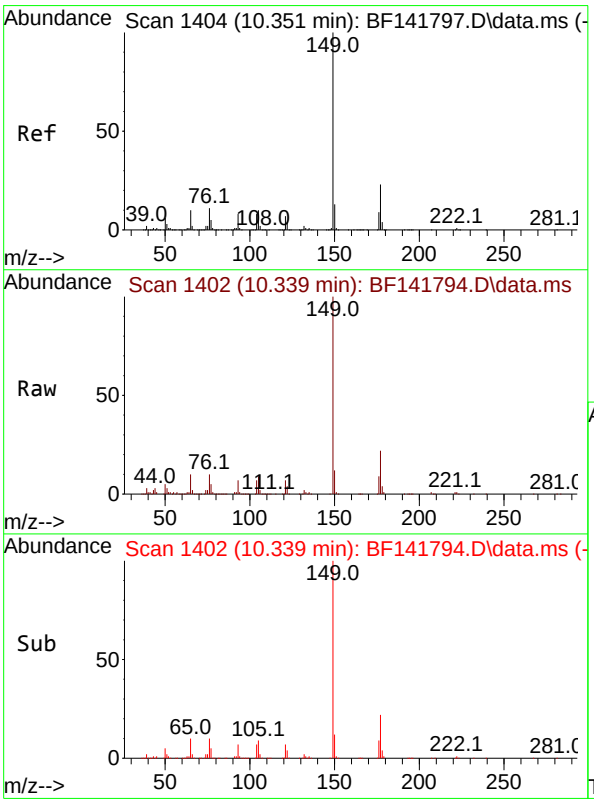
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 47.2 | 37.8 | 56.8 |
| 130 | 2.4 | 2.0 | 3.0 |
| 166 | 32.4 | 25.0 | 37.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

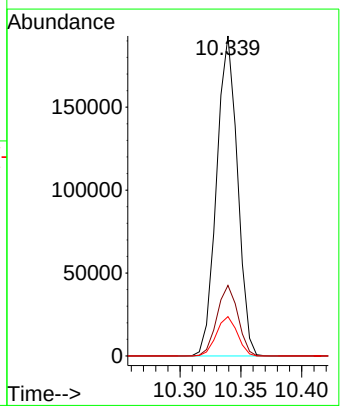
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

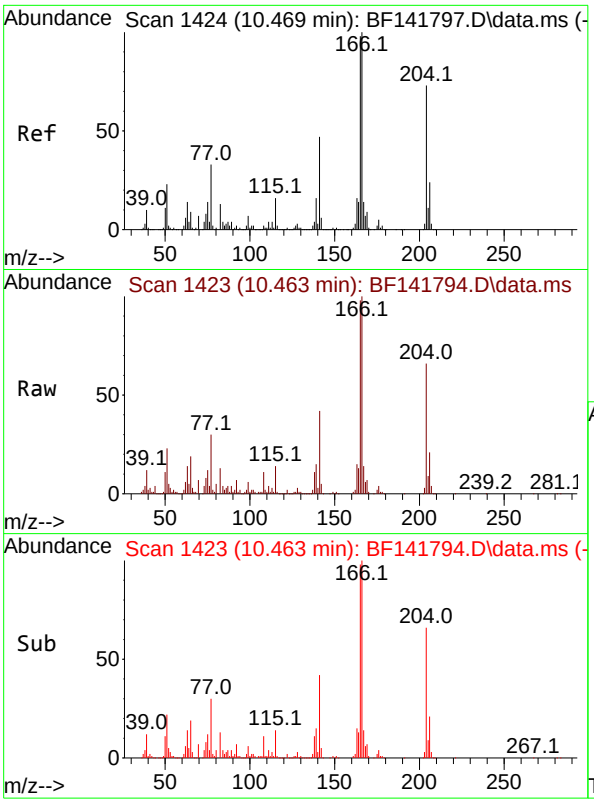



#60
Diethylphthalate
Concen: 5.322 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 230060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.1 | 18.3 | 27.5 |
| 150 | 12.3 | 10.3 | 15.5 |






#61
4-Chlorophenyl-phenylether
Concen: 5.561 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

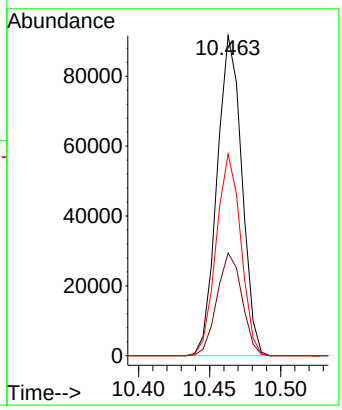
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

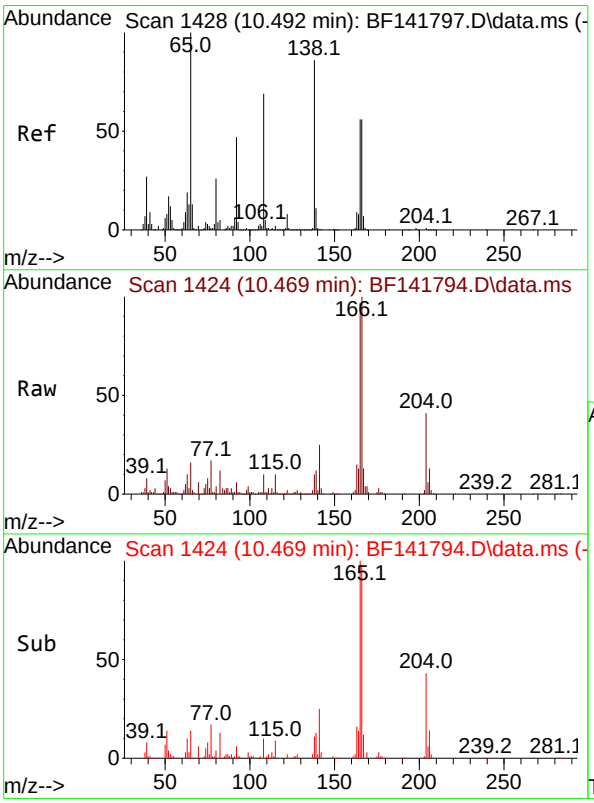
Tgt Ion:204 Resp: 111169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.1 | 26.2 | 39.4 |
| 141 | 63.0 | 51.7 | 77.5 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

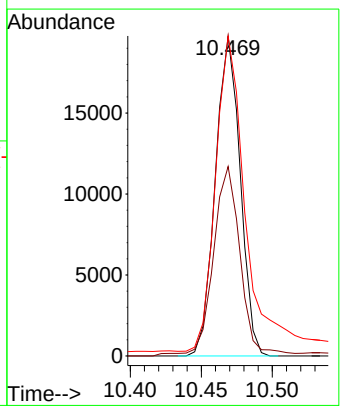


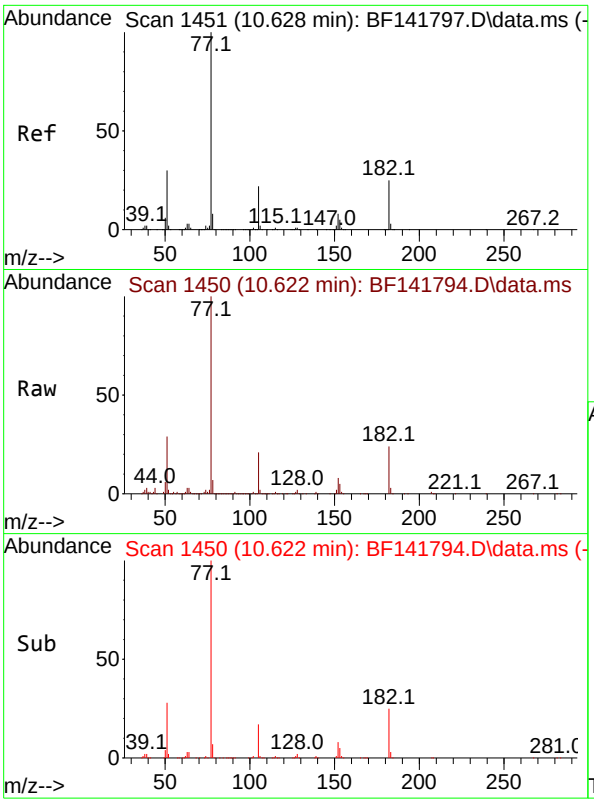




#62
4-Nitroaniline
Concen: 3.260 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.024 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:138 Resp: 24006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 59.3 | 34.9 | 74.9 |
| 108 | 100.2 | 59.6 | 99.6# |

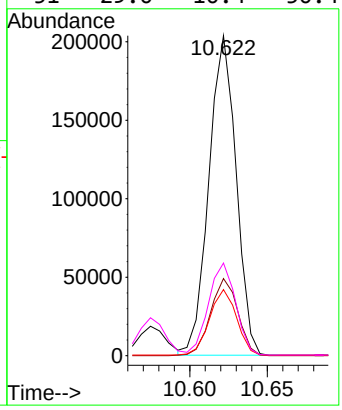





#63
Azobenzene
Concen: 5.460 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 77 Resp: 248519

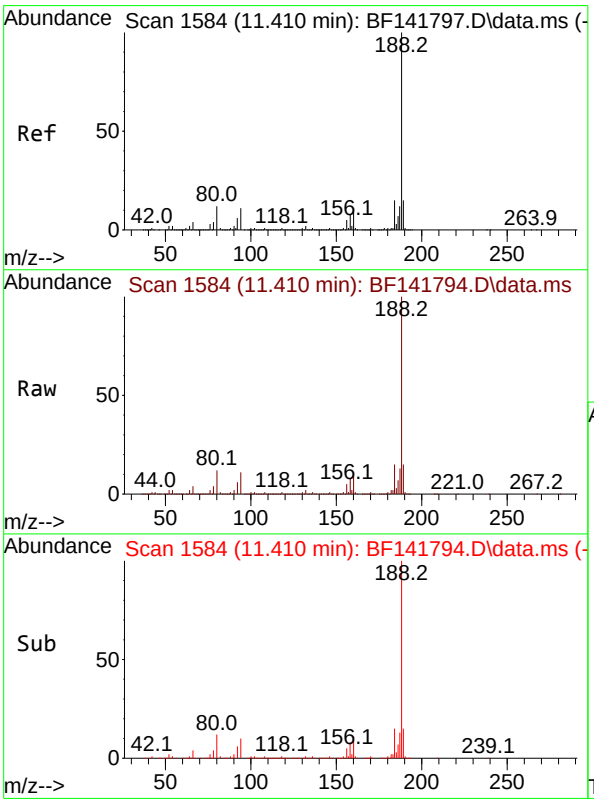
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 24.1 | 4.2 | 44.2 |
| 105 | 20.7 | 1.5 | 41.5 |
| 51 | 29.0 | 10.4 | 50.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

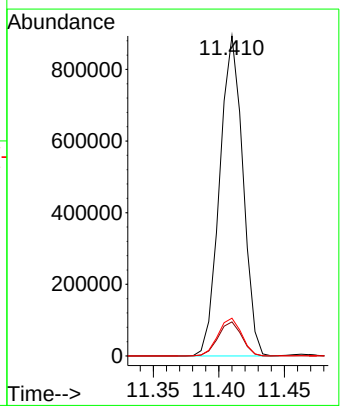
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

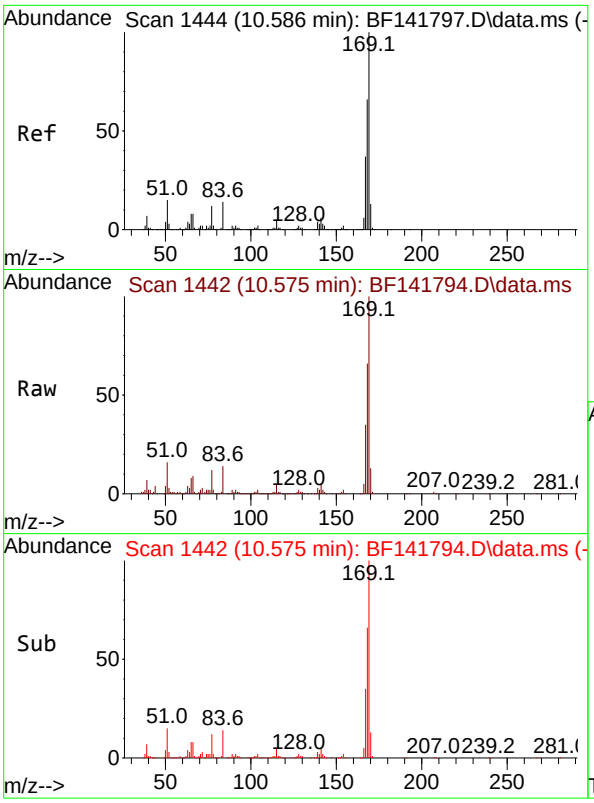



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:188 Resp: 1101046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.6 | 8.9 | 13.3 |
| 80 | 11.8 | 9.7 | 14.5 |

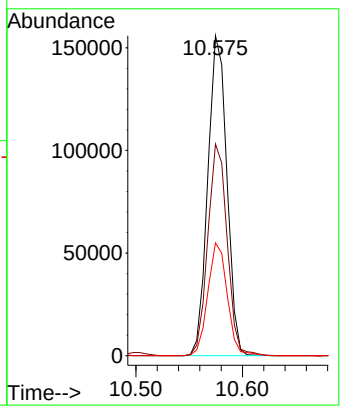





#66
n-Nitrosodiphenylamine
Concen: 5.344 ng
RT: 10.575 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:169 Resp: 19320

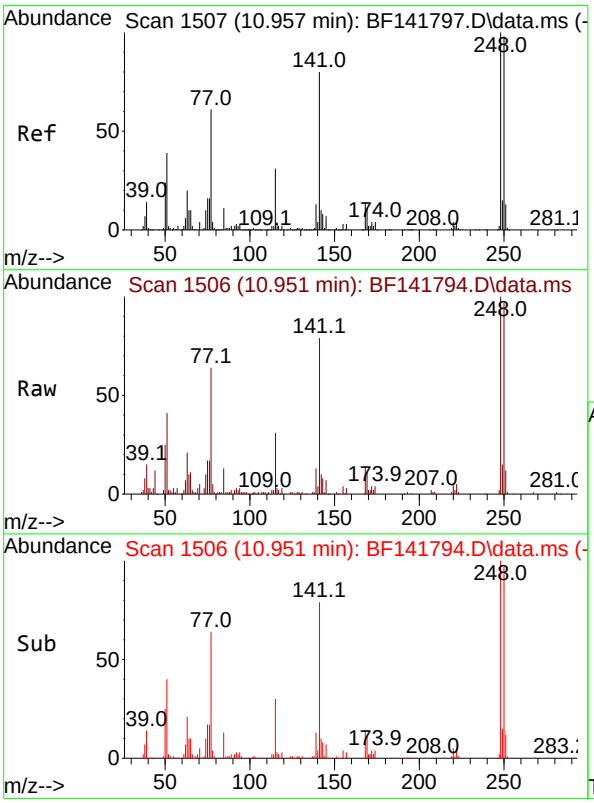
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.2 | 53.0 | 79.6 |
| 167 | 35.2 | 29.3 | 43.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

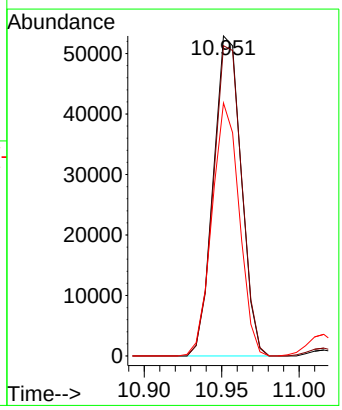
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

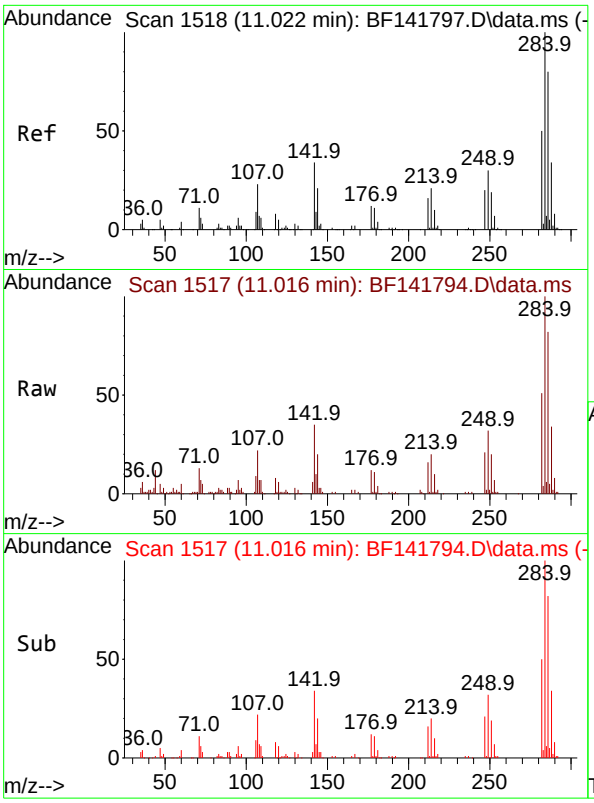



#67
4-Bromophenyl-phenylether
Concen: 5.156 ng
RT: 10.951 min Scan# 1506
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:248 Resp: 66312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.0 | 78.1 | 117.1 |
| 141 | 79.0 | 64.3 | 96.5 |

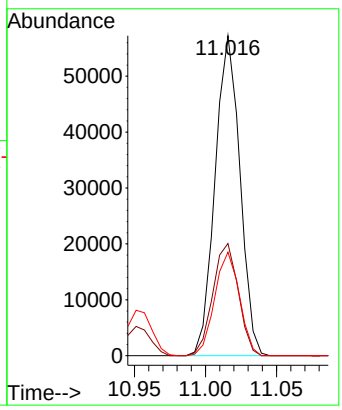





#68
Hexachlorobenzene
Concen: 5.125 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:284 Resp: 6959

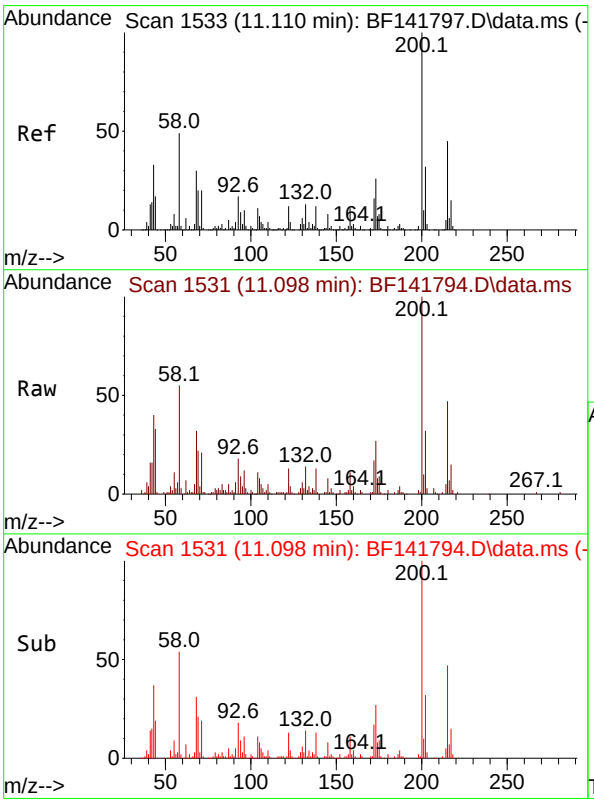
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 35.1 | 28.2 | 42.2 |
| 249 | 32.3 | 25.5 | 38.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

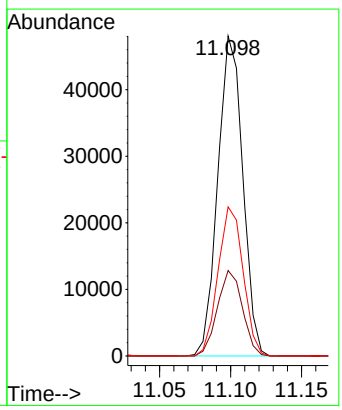
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

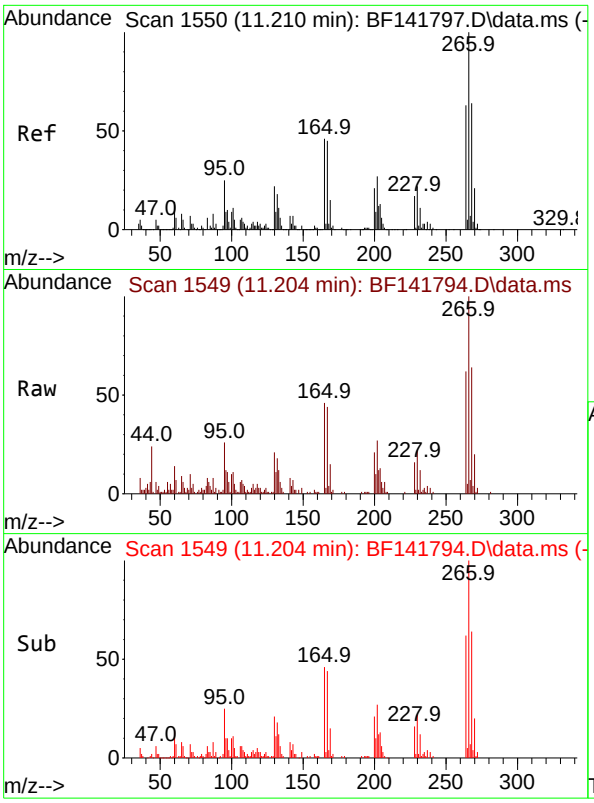



#69
Atrazine
Concen: 5.897 ng
RT: 11.098 min Scan# 1531
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:200 Resp: 58634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.7 | 5.6 | 45.6 |
| 215 | 46.6 | 25.3 | 65.3 |

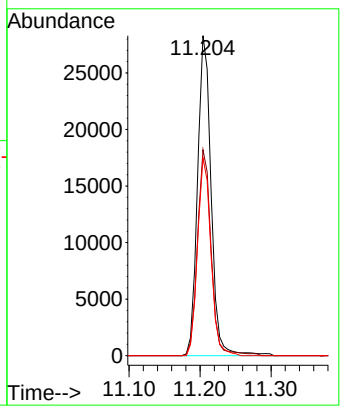





#70
Pentachlorophenol
Concen: 4.373 ng
RT: 11.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:266 Resp: 3766

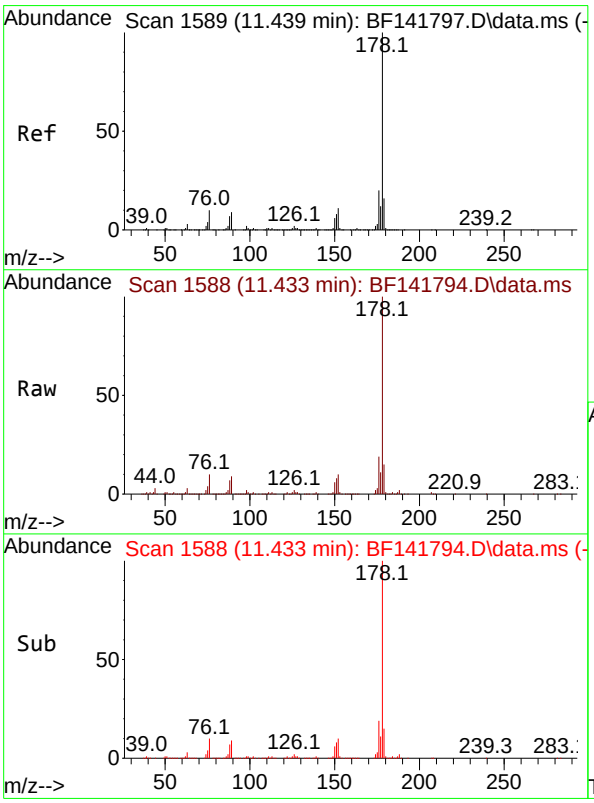
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 64.3 | 50.9 | 76.3 |
| 264 | 61.8 | 50.2 | 75.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

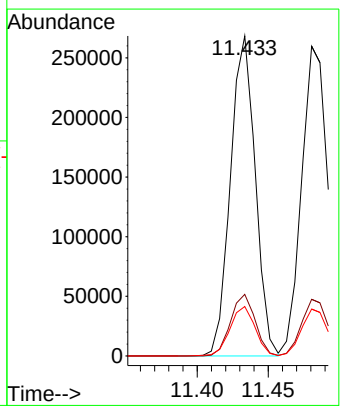
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

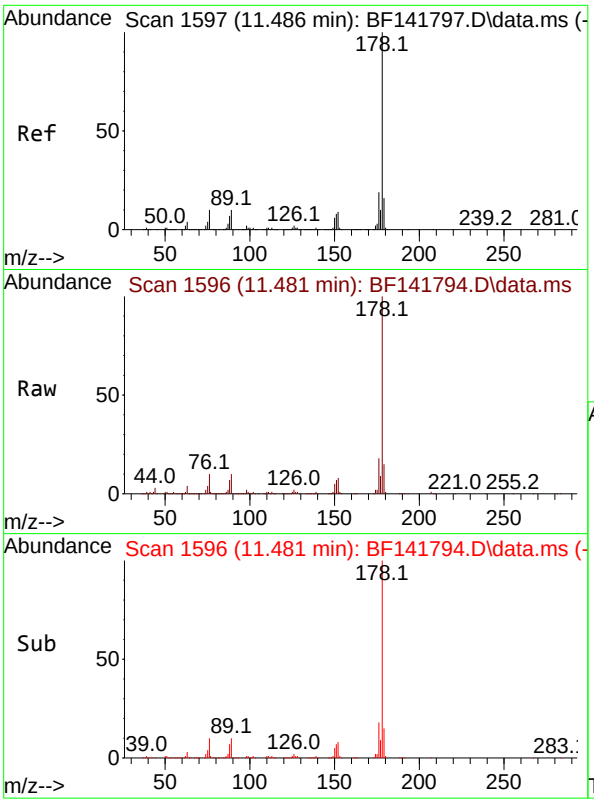



#71
Phenanthrene
Concen: 5.544 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:178 Resp: 326529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 16.0 | 24.0 |
| 179 | 15.5 | 12.6 | 19.0 |

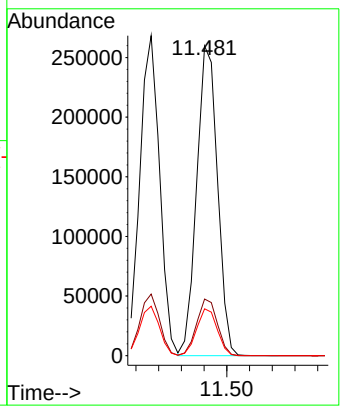





#72
Anthracene
Concen: 5.610 ng
RT: 11.481 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:178 Resp: 33114

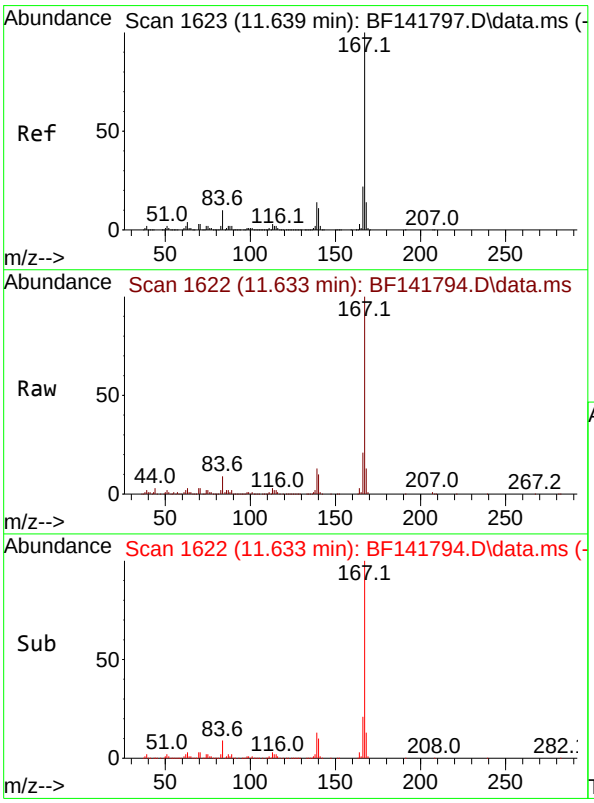
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.3 | 15.4 | 23.0 |
| 179 | 15.2 | 12.8 | 19.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

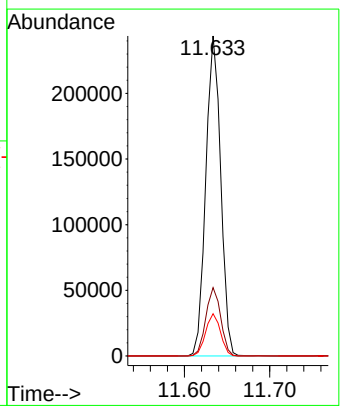
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

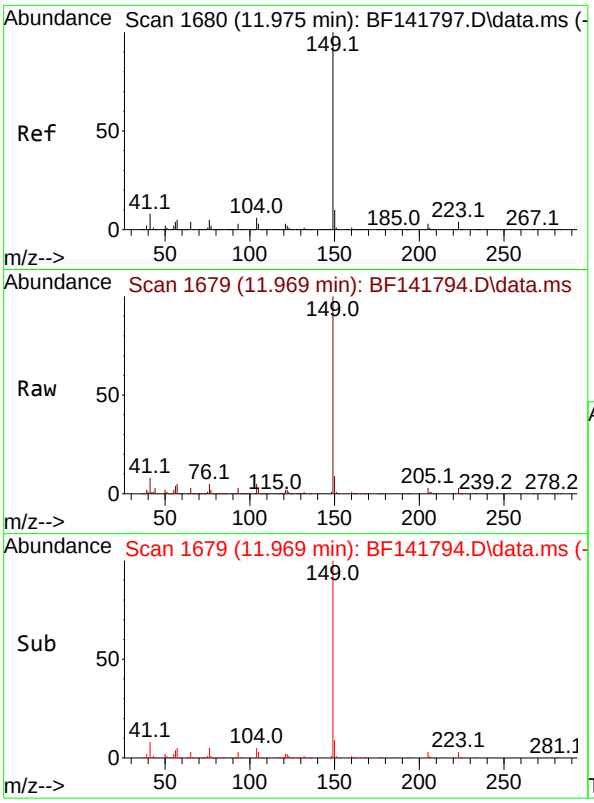



#73
Carbazole
Concen: 5.673 ng
RT: 11.633 min Scan# 1622
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:167 Resp: 295693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.4 | 17.5 | 26.3 |
| 139 | 13.2 | 11.3 | 16.9 |

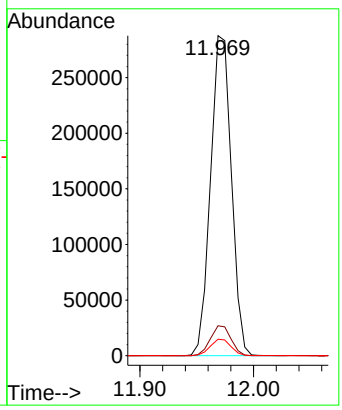





#74
Di-n-butylphthalate
Concen: 5.560 ng
RT: 11.969 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 36734

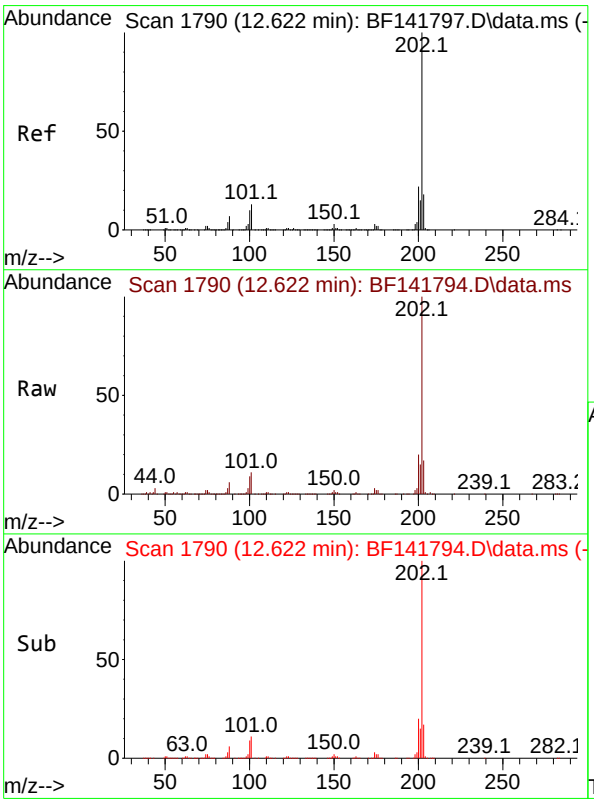
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.4 | 7.7 | 11.5 |
| 104 | 5.1 | 4.4 | 6.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

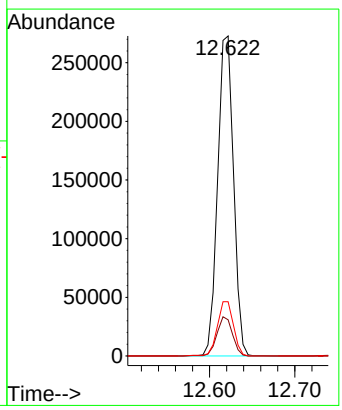
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

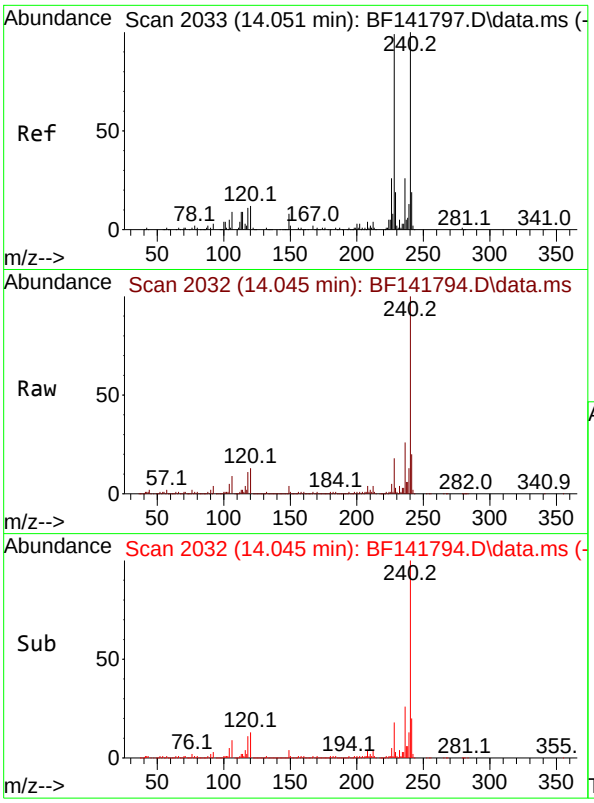



#75
Fluoranthene
Concen: 5.861 ng
RT: 12.622 min Scan# 1790
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:202 Resp: 353684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.3 | 0.0 | 32.8 |
| 203 | 16.9 | 0.0 | 38.0 |

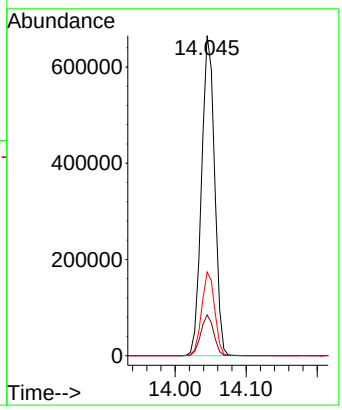





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:240 Resp: 85255

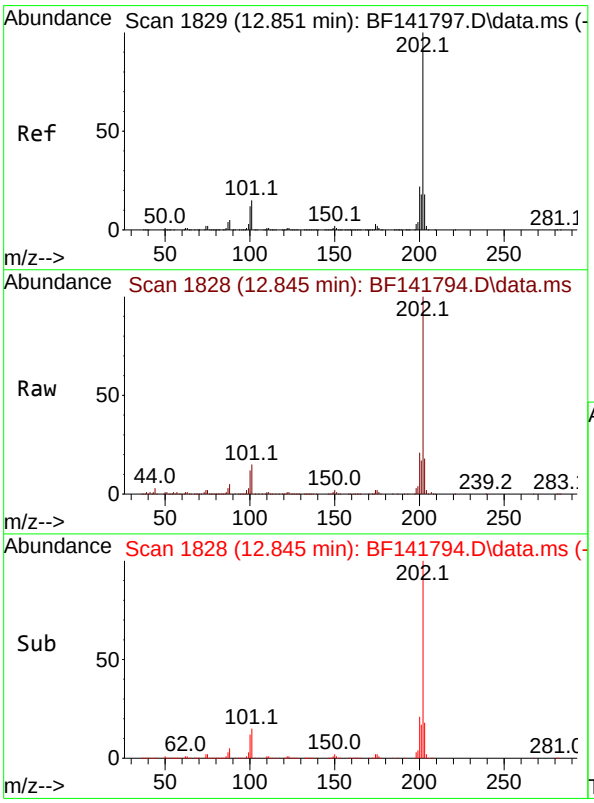
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.8 | 9.7 | 14.5 |
| 236 | 26.2 | 21.0 | 31.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

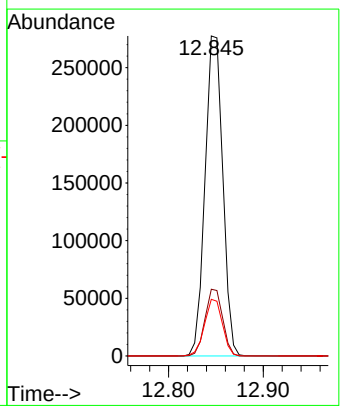
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

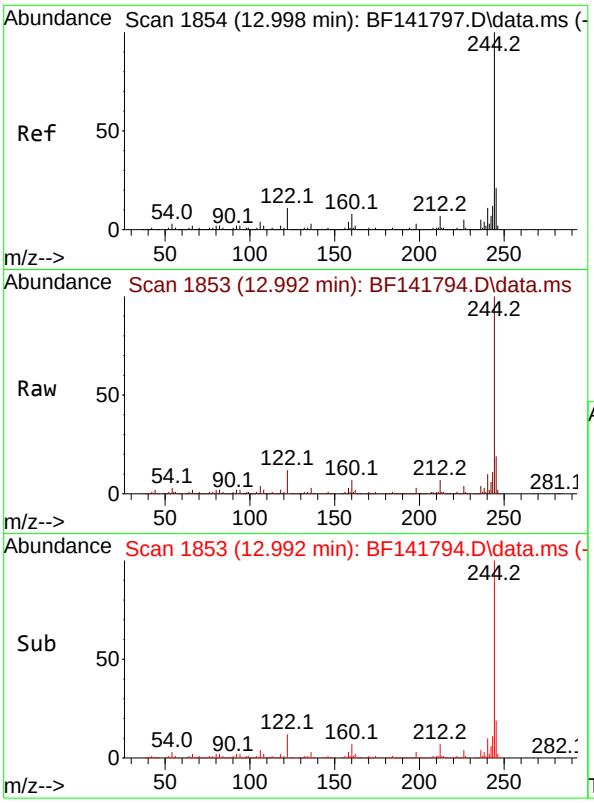



#78
Pyrene
Concen: 4.903 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:202 Resp: 361938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 20.8 | 17.4 | 26.0 |
| 203 | 17.7 | 14.6 | 22.0 |

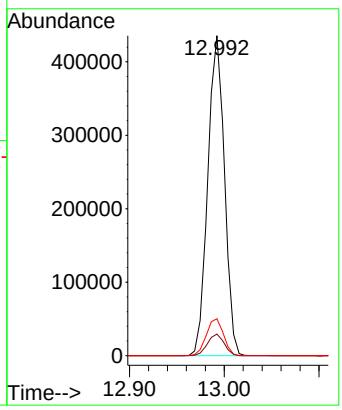





#79
Terphenyl-d14
Concen: 10.112 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:244 Resp: 53285

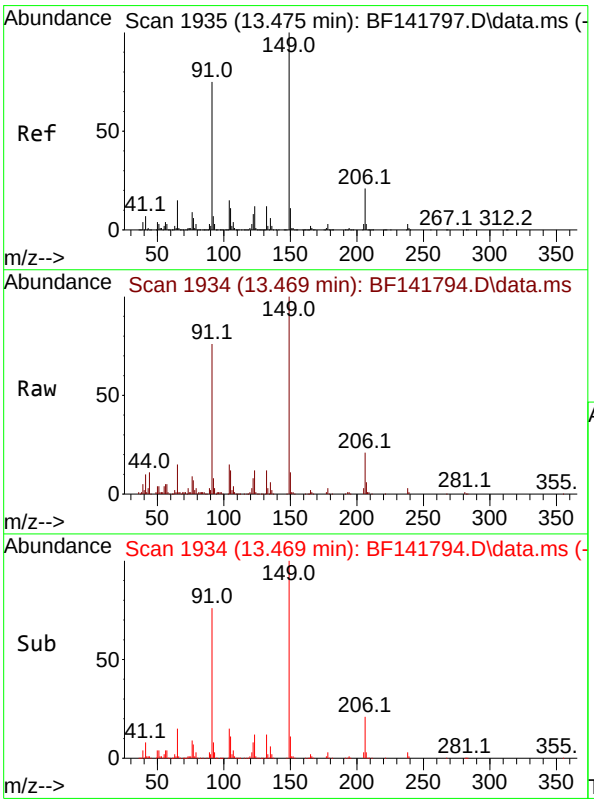
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 6.7 | 6.0 | 9.0 |
| 122 | 11.5 | 9.0 | 13.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations APPROVED**

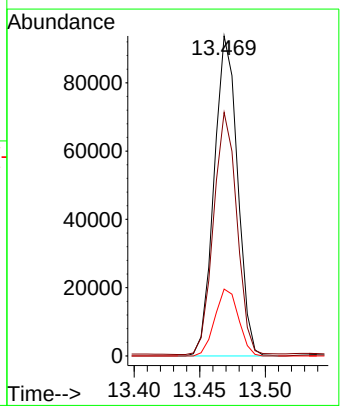
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

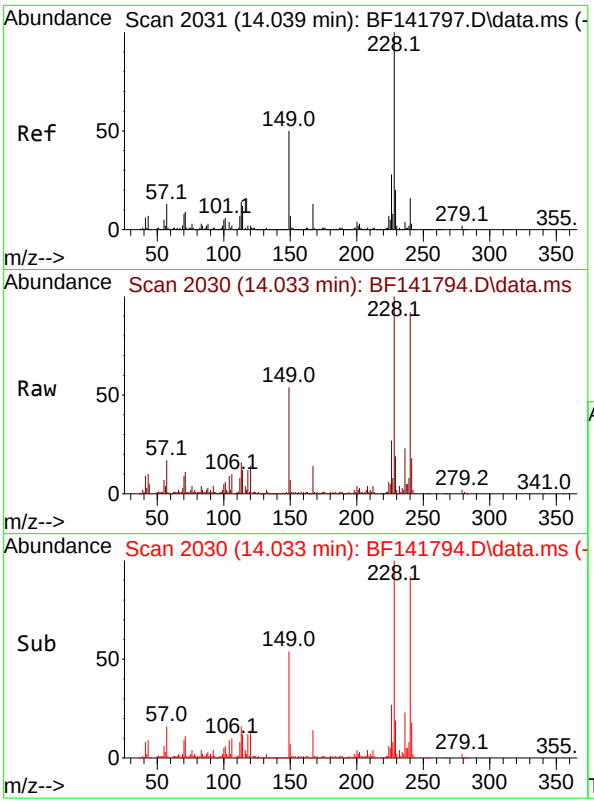



#80
Butylbenzylphthalate
Concen: 4.341 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 116439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 76.1 | 60.1 | 90.1 |
| 206 | 20.9 | 16.8 | 25.2 |

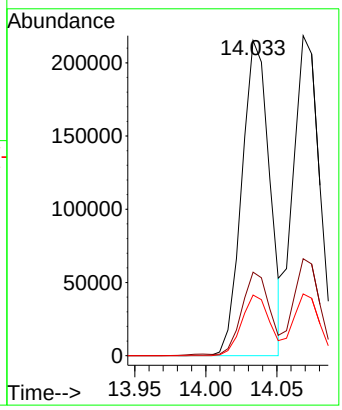





#81
Benzo(a)anthracene
Concen: 5.174 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:228 Resp: 29137

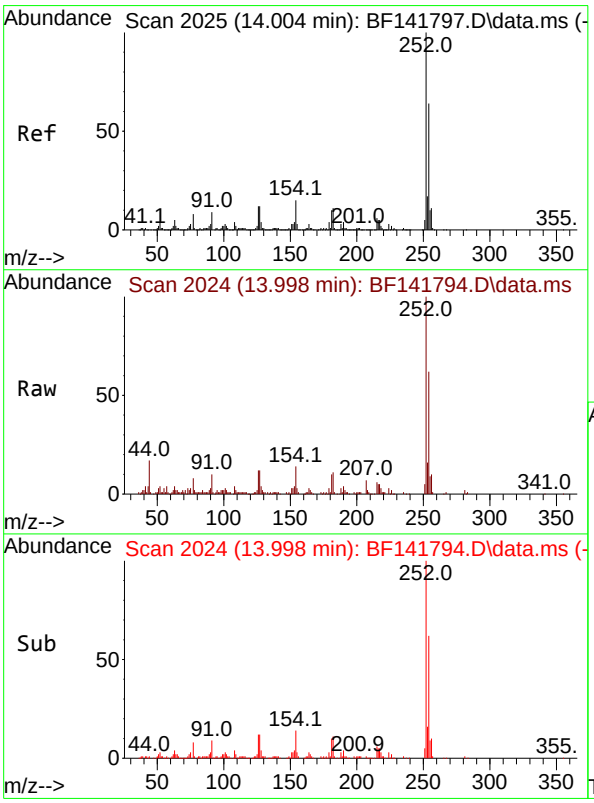
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 26.5 | 22.1 | 33.1 |
| 229 | 19.3 | 16.1 | 24.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

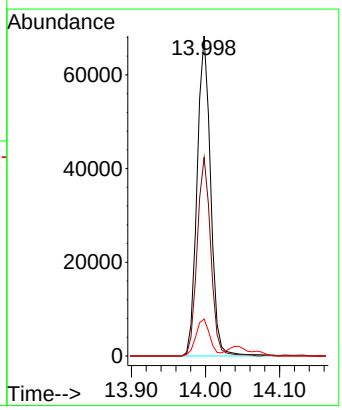
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

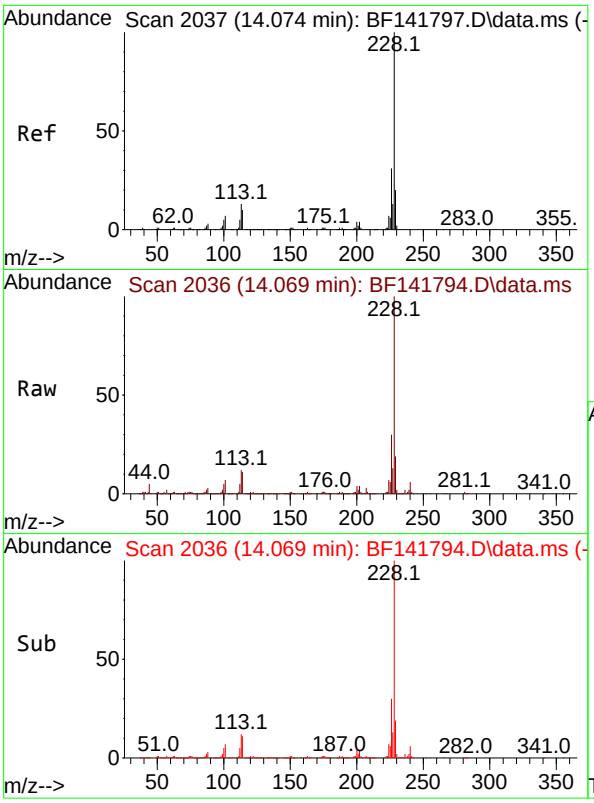



#82
3,3'-Dichlorobenzidine
Concen: 5.353 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:252 Resp: 86483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 62.0 | 51.4 | 77.0 |
| 126 | 11.6 | 9.8 | 14.6 |

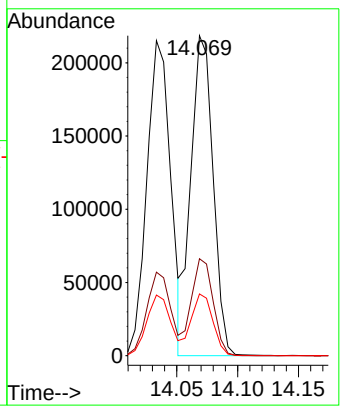





#83
Chrysene
Concen: 5.348 ng
RT: 14.069 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:228 Resp: 27763

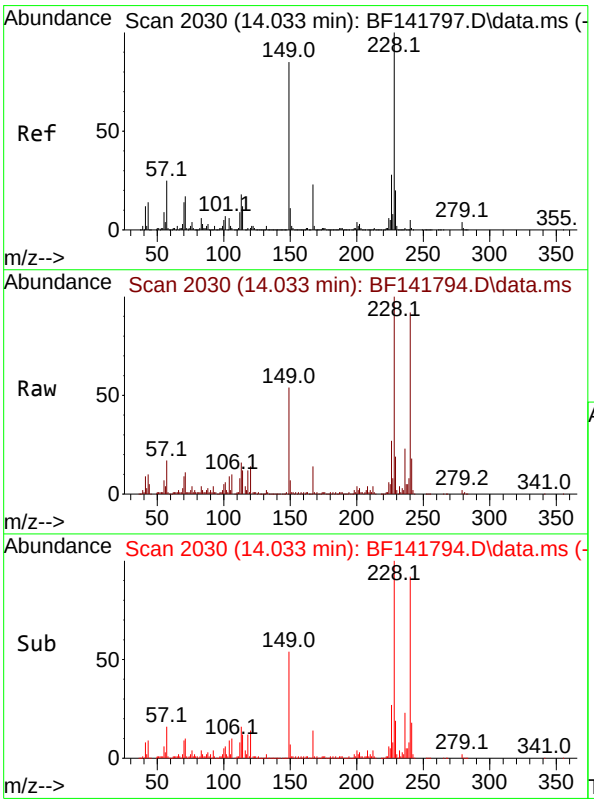
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.3 | 24.6 | 37.0 |
| 229 | 19.3 | 16.1 | 24.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

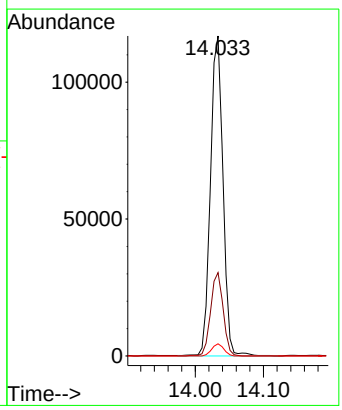
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

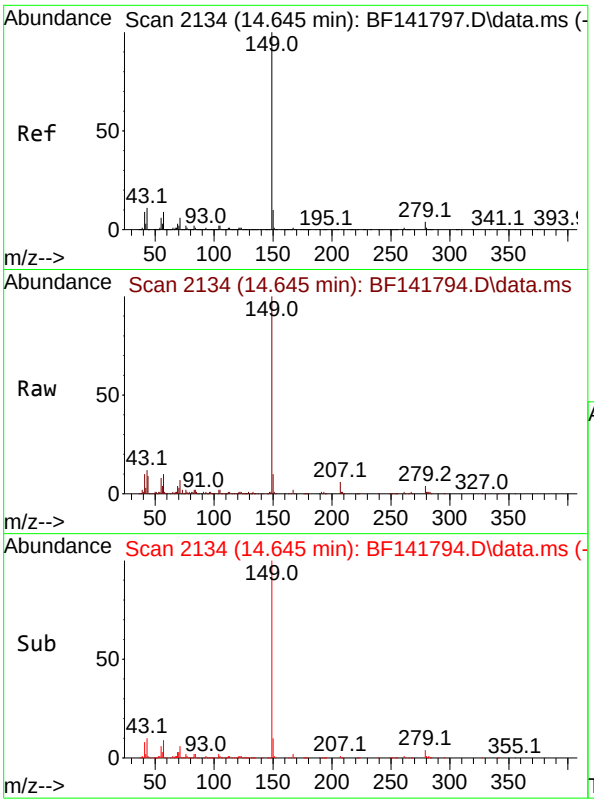



#84
Bis(2-ethylhexyl)phthalate
Concen: 4.482 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 149689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.1 | 21.2 | 31.8 |
| 279 | 3.8 | 3.3 | 4.9 |






#85
Di-n-octyl phthalate
Concen: 3.848 ng
RT: 14.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

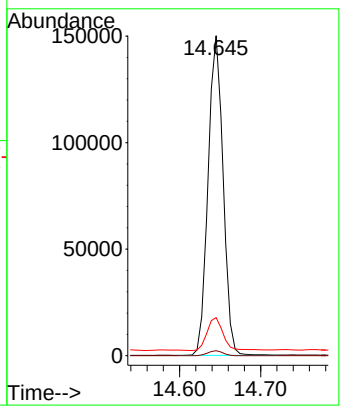
Tgt Ion:149 Resp: 19239

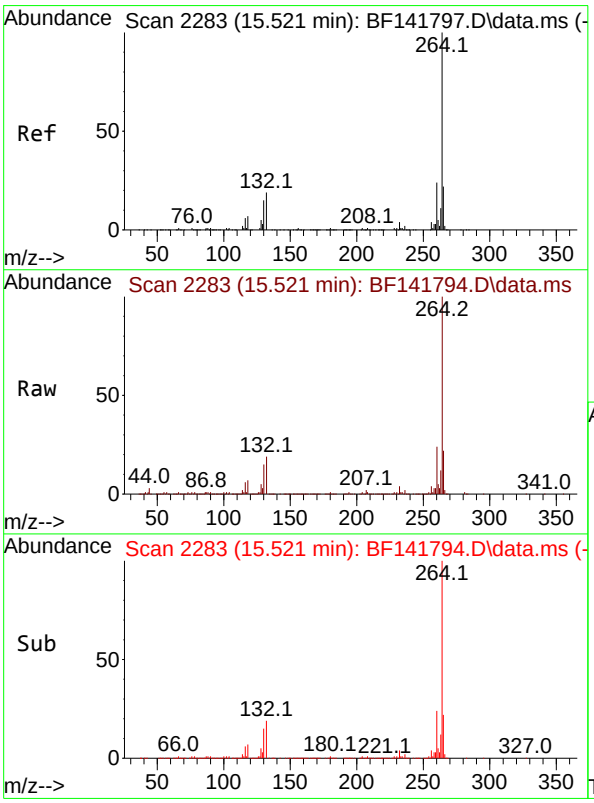
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.2 | 1.8 |
| 43 | 11.2 | 8.6 | 12.8 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

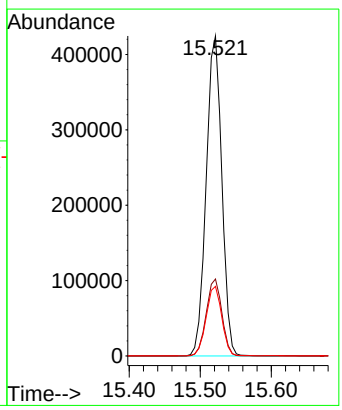


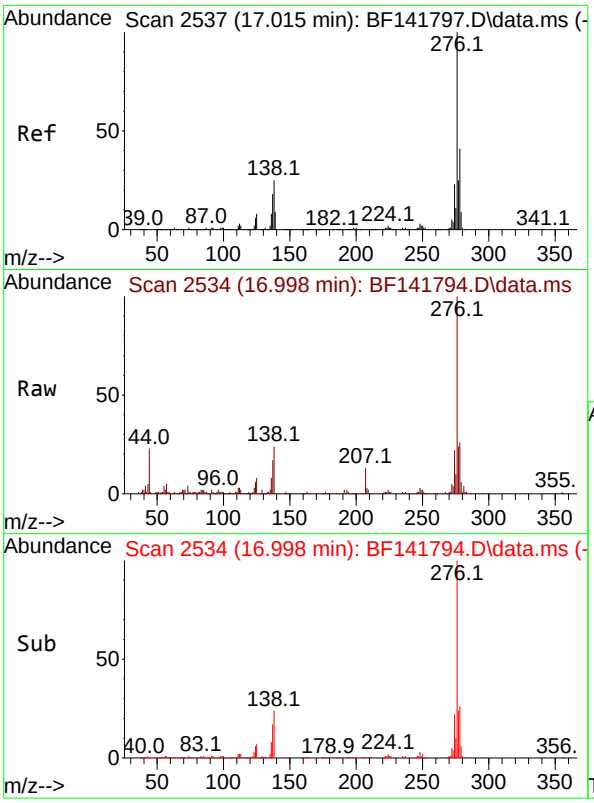




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:264 Resp: 648925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.0 | 18.9 | 28.3 |
| 265 | 21.8 | 17.4 | 26.0 |

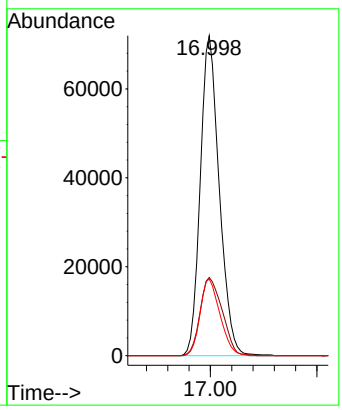





#87
Indeno(1,2,3-cd)pyrene
Concen: 4.309 ng
RT: 16.998 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:276 Resp: 17803

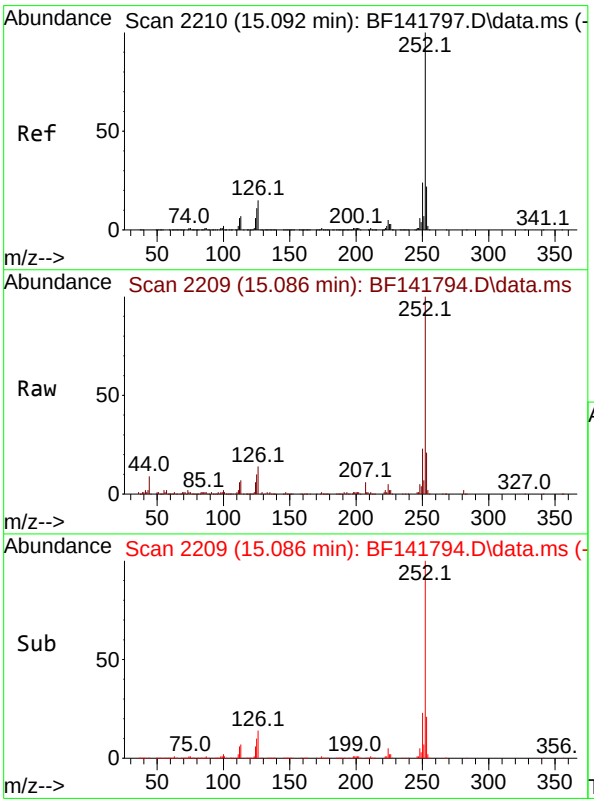
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.4 | 22.5 | 33.7 |
| 277 | 25.0 | 20.3 | 30.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

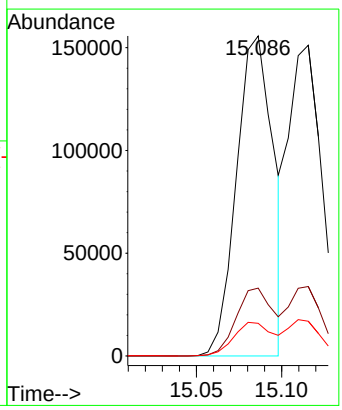
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

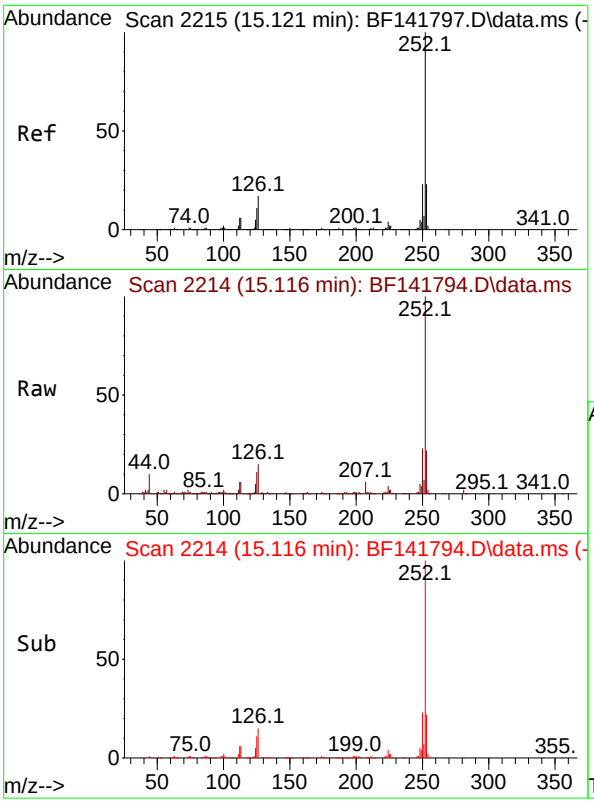



#88
Benzo(b)fluoranthene
Concen: 5.294 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:252 Resp: 233991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.2 | 17.7 | 26.5 |
| 125 | 10.2 | 8.6 | 13.0 |

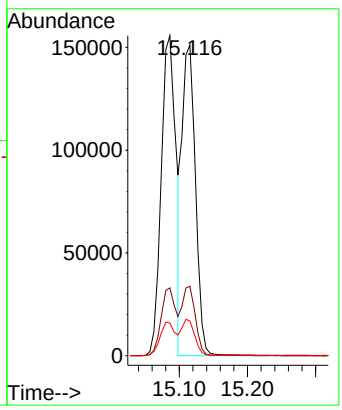





#89
Benzo(k)fluoranthene
Concen: 5.499 ng
RT: 15.116 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:252 Resp: 20661

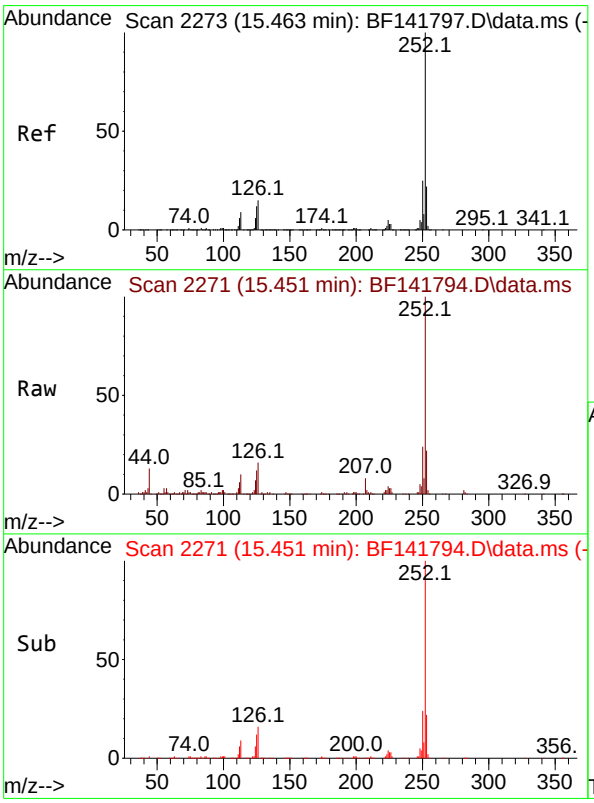
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.3 | 17.8 | 26.8 |
| 125 | 11.2 | 8.8 | 13.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

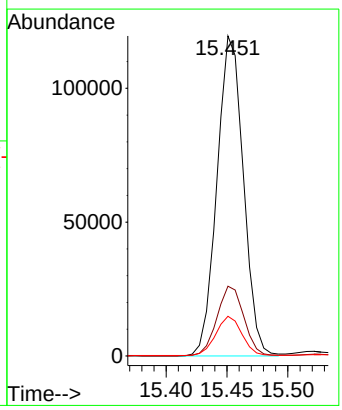
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

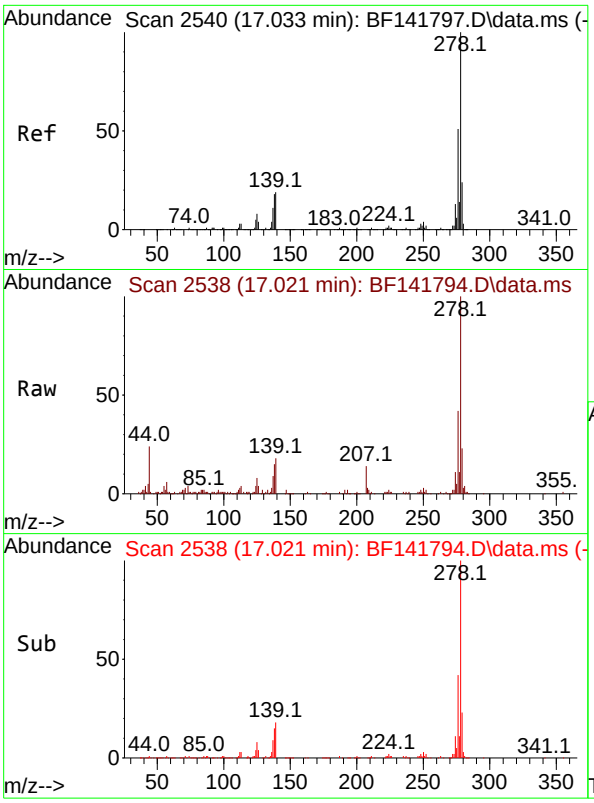



#90
Benzo(a)pyrene
Concen: 5.091 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:252 Resp: 180486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.5 | 26.3 |
| 125 | 12.4 | 9.4 | 14.2 |

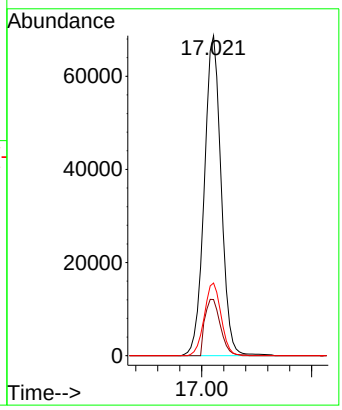





#91
Dibenzo(a,h)anthracene
Concen: 4.337 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:278 Resp: 14627

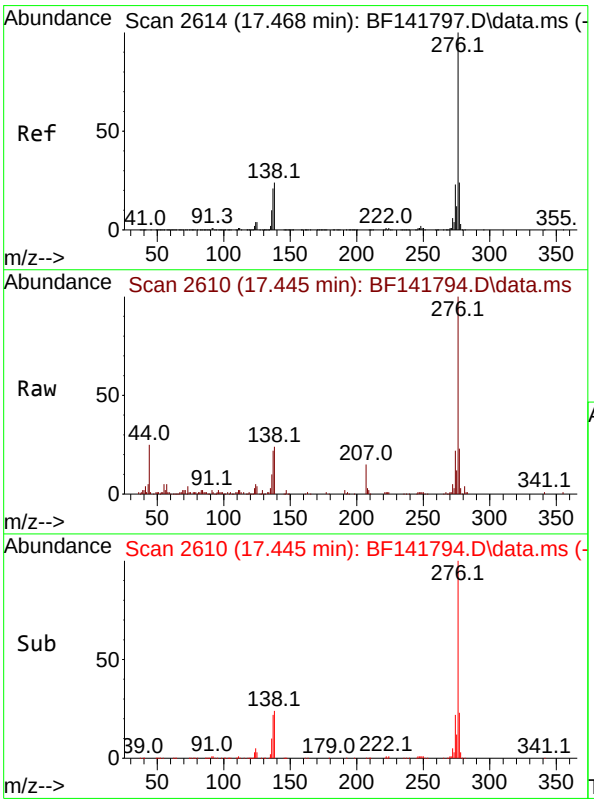
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.5 | 14.9 | 22.3 |
| 279 | 22.7 | 19.3 | 28.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC005

**Manual Integrations**
**APPROVED**

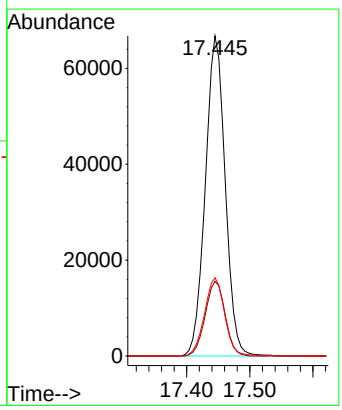
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025




#92
Benzo(g,h,i)perylene
Concen: 4.218 ng
RT: 17.445 min Scan# 2610
Delta R.T. -0.024 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:276 Resp: 145755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.4 | 19.4 | 29.0 |
| 138 | 24.4 | 19.3 | 28.9 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141795.D
Acq On : 27 Feb 2025 16:16
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 01:24:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.887 | 152 | 289266 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 1173835 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.922 | 164 | 647904 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.410 | 188 | 1098842 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.045 | 240 | 800194 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.521 | 264 | 586419 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.493 | 112 | 380350 | 20.998 | ng | | 0.00 |
| 7) Phenol-d6 | 6.498 | 99 | 493731 | 20.942 | ng | | -0.01 |
| 23) Nitrobenzene-d5 | 7.445 | 82 | 318362 | 17.336 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.710 | 330 | 116043 | 19.078 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.239 | 172 | 898797 | 22.244 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.992 | 244 | 986786 | 19.952 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.687 | 88 | 80189 | 9.757 | ng | | 99 |
| 3) Pyridine | 3.451 | 79 | 204276 | 9.989 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.381 | 42 | 96264 | 9.784 | ng | # | 97 |
| 6) Aniline | 6.545 | 93 | 249709 | 10.243 | ng | | 99 |
| 8) 2-Chlorophenol | 6.669 | 128 | 203282 | 10.375 | ng | | 97 |
| 9) Benzaldehyde | 6.434 | 77 | 157352 | 11.474 | ng | | 99 |
| 10) Phenol | 6.510 | 94 | 263599m | 10.494 | ng | | |
| 11) bis(2-Chloroethyl)ether | 6.616 | 93 | 198994 | 10.362 | ng | | 100 |
| 12) 1,3-Dichlorobenzene | 6.828 | 146 | 219862 | 10.478 | ng | | 98 |
| 13) 1,4-Dichlorobenzene | 6.904 | 146 | 221703 | 10.486 | ng | | 100 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 208788 | 10.575 | ng | | 99 |
| 15) Benzyl Alcohol | 7.016 | 79 | 195649 | 10.384 | ng | | 98 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 302932 | 10.387 | ng | | 99 |
| 17) 2-Methylphenol | 7.122 | 107 | 163693 | 10.121 | ng | | 98 |
| 18) Hexachloroethane | 7.404 | 117 | 78340 | 9.899 | ng | | 97 |
| 19) n-Nitroso-di-n-propyla... | 7.287 | 70 | 159860 | 10.315 | ng | | 97 |
| 20) 3+4-Methylphenols | 7.275 | 107 | 218359 | 10.842 | ng | # | 90 |
| 22) Acetophenone | 7.292 | 105 | 303217 | 10.606 | ng | # | 95 |
| 24) Nitrobenzene | 7.463 | 77 | 178109 | 9.057 | ng | | 97 |
| 25) Isophorone | 7.698 | 82 | 400228 | 10.145 | ng | | 99 |
| 26) 2-Nitrophenol | 7.781 | 139 | 52703 | 9.980 | ng | | 99 |
| 27) 2,4-Dimethylphenol | 7.810 | 122 | 146519 | 10.103 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.910 | 93 | 262861 | 10.445 | ng | | 98 |
| 29) 2,4-Dichlorophenol | 8.016 | 162 | 169218 | 10.114 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 188296 | 10.271 | ng | | 98 |
| 31) Naphthalene | 8.192 | 128 | 643621 | 10.668 | ng | | 98 |
| 32) Benzoic acid | 7.875 | 122 | 58209 | 11.729 | ng | | 98 |
| 33) 4-Chloroaniline | 8.234 | 127 | 230342 | 10.413 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 113140 | 9.931 | ng | | 99 |
| 35) Caprolactam | 8.569 | 113 | 50734 | 9.855 | ng | | 100 |
| 36) 4-Chloro-3-methylphenol | 8.698 | 107 | 185621 | 9.987 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.881 | 142 | 425720 | 10.758 | ng | | 100 |
| 38) 1-Methylnaphthalene | 8.981 | 142 | 404087 | 10.642 | ng | | 98 |
| 40) 1,2,4,5-Tetrachloroben... | 9.045 | 216 | 194342 | 10.386 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 9.033 | 237 | 74446 | 9.533 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.151 | 196 | 119234 | 9.864 | ng | | 100 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141795.D
Acq On : 27 Feb 2025 16:16
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:24:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.186 | 196 | 118017 | 9.860 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.345 | 154 | 537368 | 10.896 | ng | | 98 |
| 47) 2-Chloronaphthalene | 9.369 | 162 | 383444 | 10.535 | ng | | 98 |
| 48) 2-Nitroaniline | 9.457 | 65 | 60658 | 9.877 | ng | | 96 |
| 49) Acenaphthylene | 9.786 | 152 | 586066 | 10.739 | ng | | 99 |
| 50) Dimethylphthalate | 9.639 | 163 | 455190 | 10.491 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.698 | 165 | 59617 | 9.588 | ng | | 98 |
| 52) Acenaphthene | 9.957 | 154 | 389154 | 10.568 | ng | | 99 |
| 53) 3-Nitroaniline | 9.863 | 138 | 62569 | 9.606 | ng | # | 91 |
| 54) 2,4-Dinitrophenol | 9.969 | 184 | 15803 | 10.881 | ng | # | 1 |
| 55) Dibenzofuran | 10.128 | 168 | 581120 | 10.843 | ng | | 97 |
| 56) 4-Nitrophenol | 10.004 | 139 | 51406 | 8.022 | ng | | 94 |
| 57) 2,4-Dinitrotoluene | 10.098 | 165 | 64291 | 9.401 | ng | | 97 |
| 58) Fluorene | 10.469 | 166 | 442697 | 11.027 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232 | 101729 | 9.772 | ng | | 99 |
| 60) Diethylphthalate | 10.339 | 149 | 457600 | 10.520 | ng | | 98 |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204 | 215289 | 10.703 | ng | | 98 |
| 62) 4-Nitroaniline | 10.475 | 138 | 60552 | 8.172 | ng | | 94 |
| 63) Azobenzene | 10.622 | 77 | 486878 | 10.631 | ng | | 98 |
| 65) 4,6-Dinitro-2-methylph... | 10.504 | 198 | 23863 | 11.957 | ng | | 98 |
| 66) n-Nitrosodiphenylamine | 10.580 | 169 | 374119 | 10.369 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.951 | 248 | 130467 | 10.165 | ng | | 99 |
| 68) Hexachlorobenzene | 11.016 | 284 | 136626 | 10.081 | ng | | 97 |
| 69) Atrazine | 11.104 | 200 | 114276 | 11.517 | ng | | 99 |
| 70) Pentachlorophenol | 11.204 | 266 | 80231 | 9.334 | ng | | 99 |
| 71) Phenanthrene | 11.433 | 178 | 632699 | 10.764 | ng | | 99 |
| 72) Anthracene | 11.486 | 178 | 635314 | 10.785 | ng | | 99 |
| 73) Carbazole | 11.633 | 167 | 554900 | 10.667 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.969 | 149 | 709254 | 10.756 | ng | | 99 |
| 75) Fluoranthene | 12.621 | 202 | 668370 | 11.098 | ng | | 98 |
| 77) Benzidine | 12.739 | 184 | 136857 | 13.588 | ng | | 99 |
| 78) Pyrene | 12.851 | 202 | 674877 | 9.740 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.469 | 149 | 231474 | 9.194 | ng | | 98 |
| 81) Benzo(a)anthracene | 14.033 | 228 | 554778 | 10.496 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.998 | 252 | 152147 | 10.033 | ng | | 99 |
| 83) Chrysene | 14.074 | 228 | 473612 | 9.721 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 278482 | 8.884 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.645 | 149 | 368711 | 7.857 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 16.998 | 276 | 330014 | 8.838 | ng | | 99 |
| 88) Benzo(b)fluoranthene | 15.086 | 252 | 409420 | 10.250 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.115 | 252 | 363518 | 10.707 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.451 | 252 | 317564 | 9.913 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.021 | 278 | 272918 | 8.954 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.445 | 276 | 272428 | 8.724 | ng | | 98 |

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

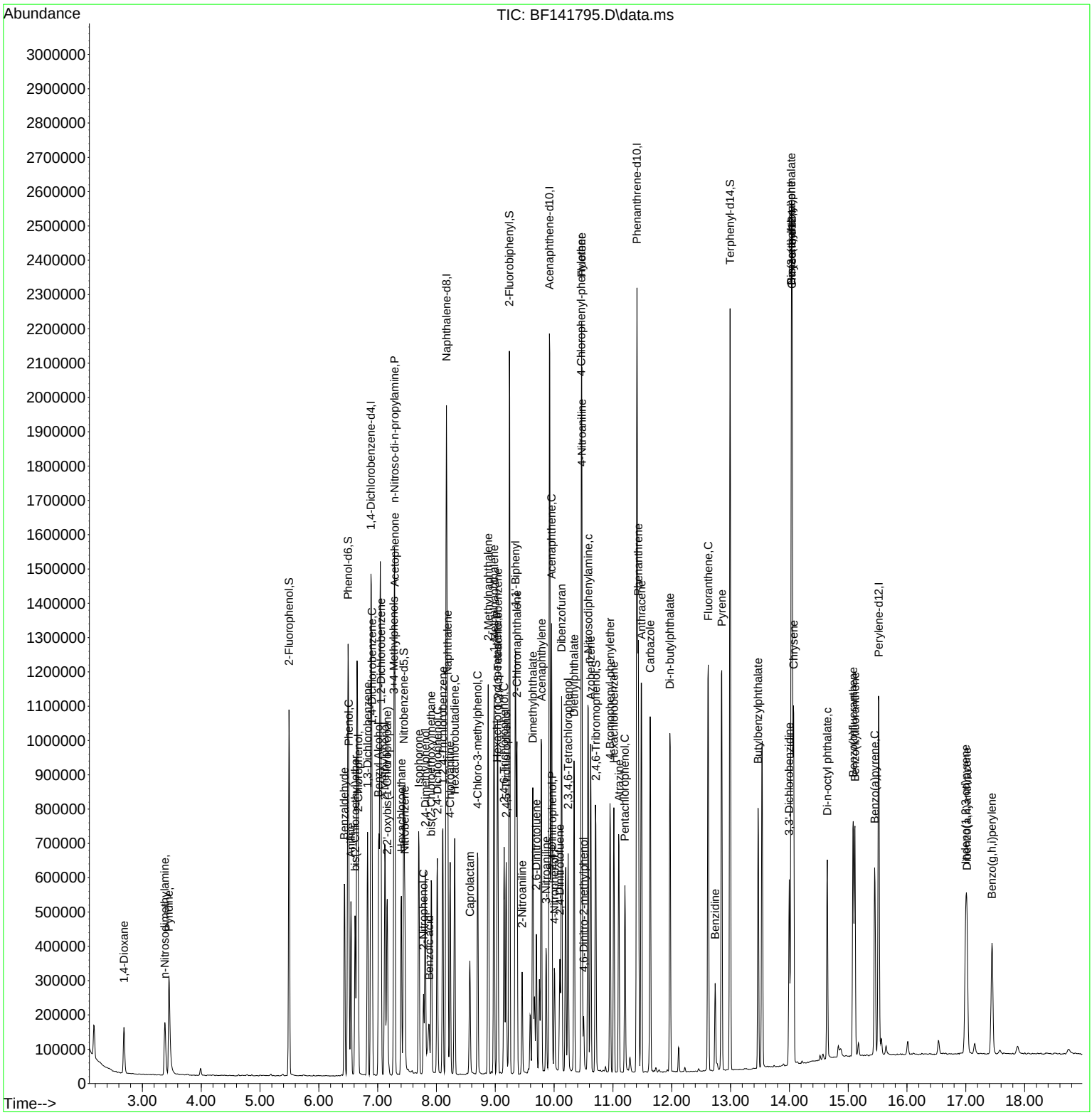
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141795.D
Acq On : 27 Feb 2025 16:16
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

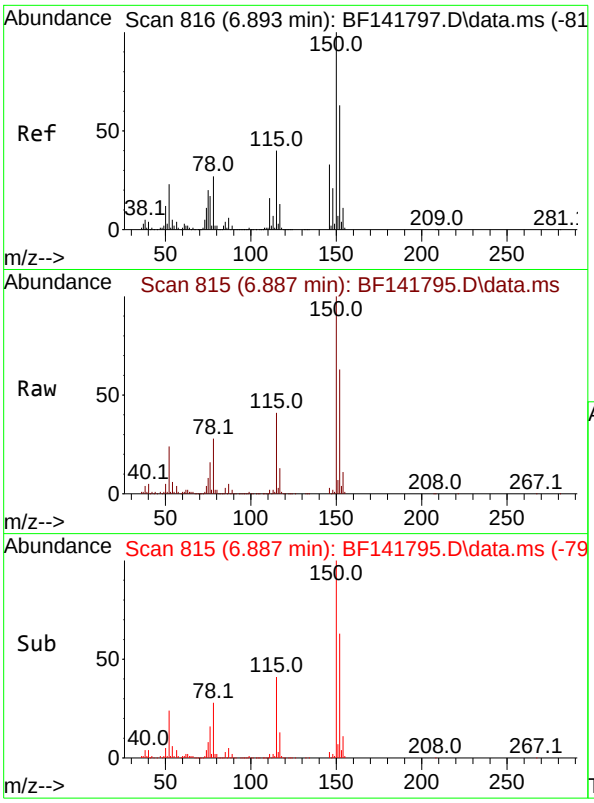
Quant Time: Feb 28 01:24:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

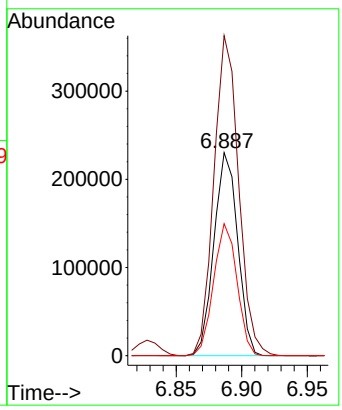





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:152 Resp: 28926

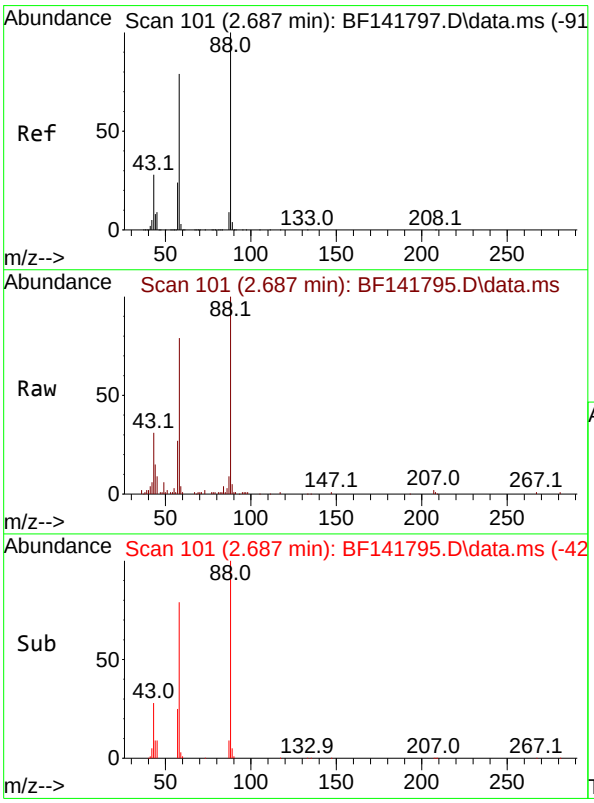
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.6 | 127.5 | 191.3 |
| 115 | 65.0 | 51.4 | 77.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

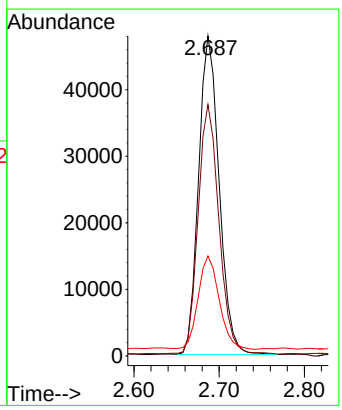
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

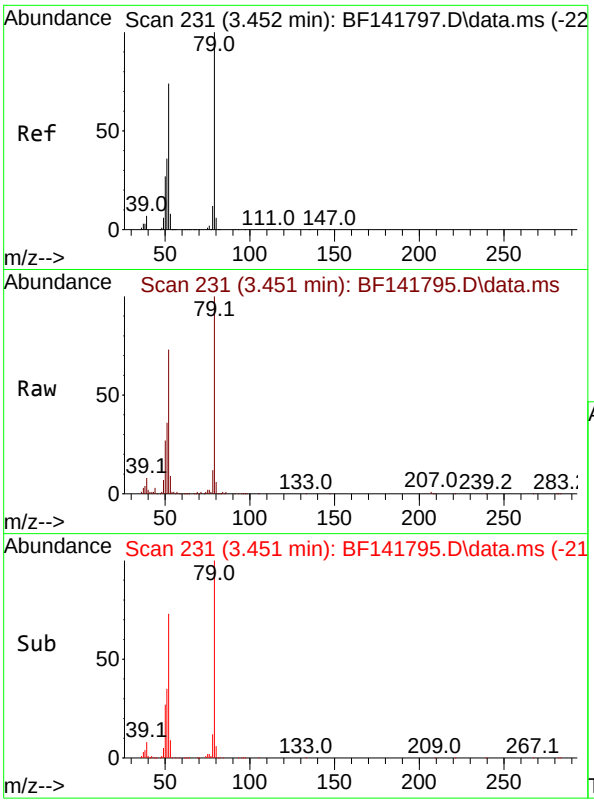



#2
1,4-Dioxane
Concen: 9.757 ng
RT: 2.687 min Scan# 101
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 88 Resp: 80189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 79.3 | 63.9 | 95.9 |
| 43 | 30.0 | 23.0 | 34.6 |






#3
Pyridine
Concen: 9.989 ng
RT: 3.451 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

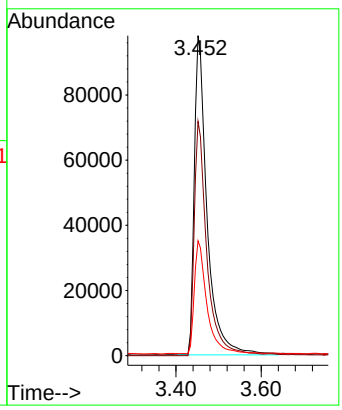
Tgt Ion: 79 Resp: 20427

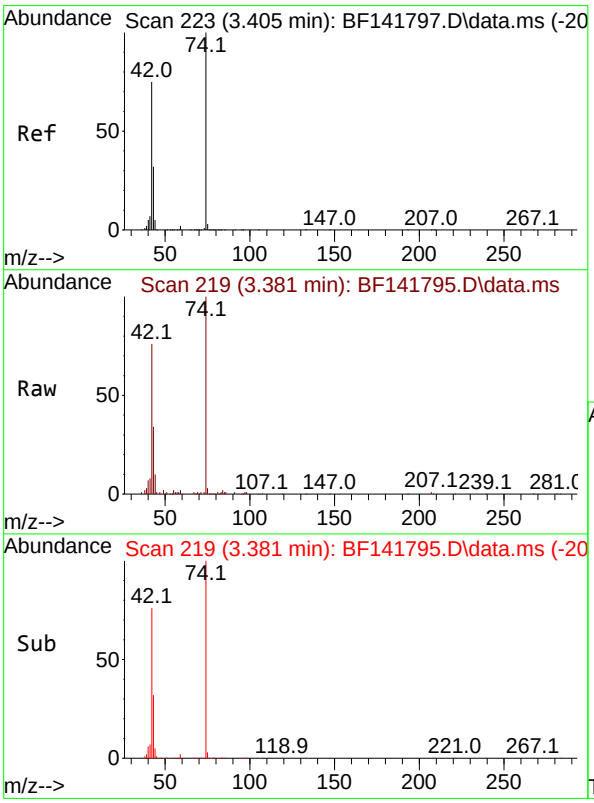
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 73.2 | 59.0 | 88.4 |
| 51 | 35.9 | 29.0 | 43.4 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

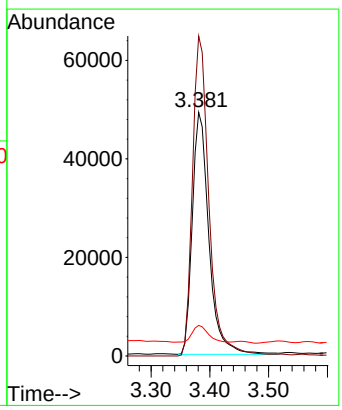


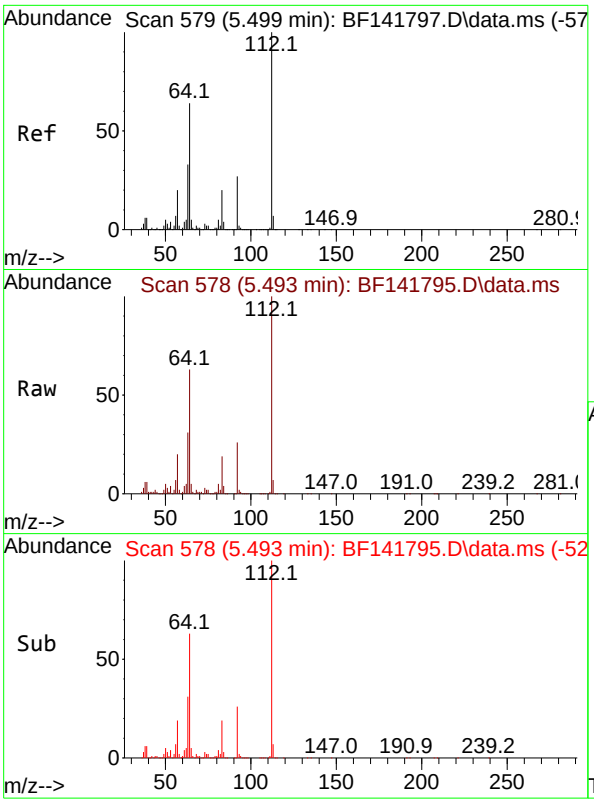




#4
n-Nitrosodimethylamine
Concen: 9.784 ng
RT: 3.381 min Scan# 219
Delta R.T. -0.024 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 42 Resp: 96264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 131.3 | 107.1 | 160.7 |
| 44 | 12.5 | 6.6 | 9.8# |

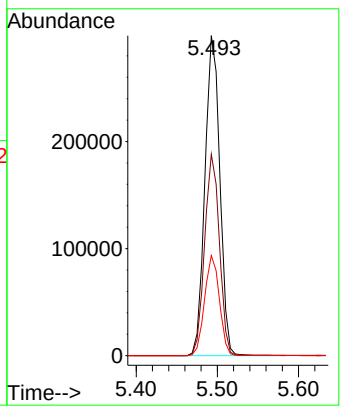





#5
2-Fluorophenol
Concen: 20.998 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:112 Resp: 38035

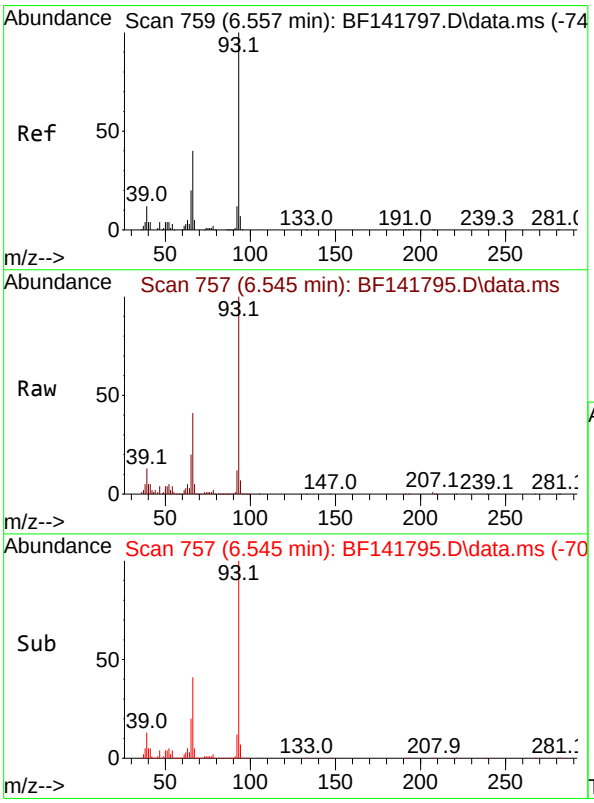
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 63.0 | 51.3 | 76.9 |
| 63 | 31.3 | 26.2 | 39.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

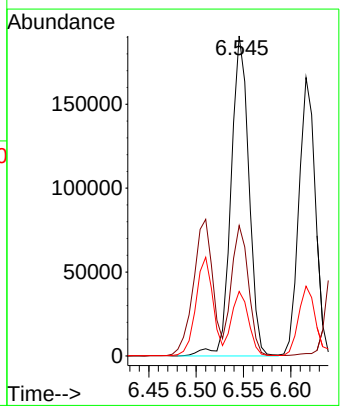
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

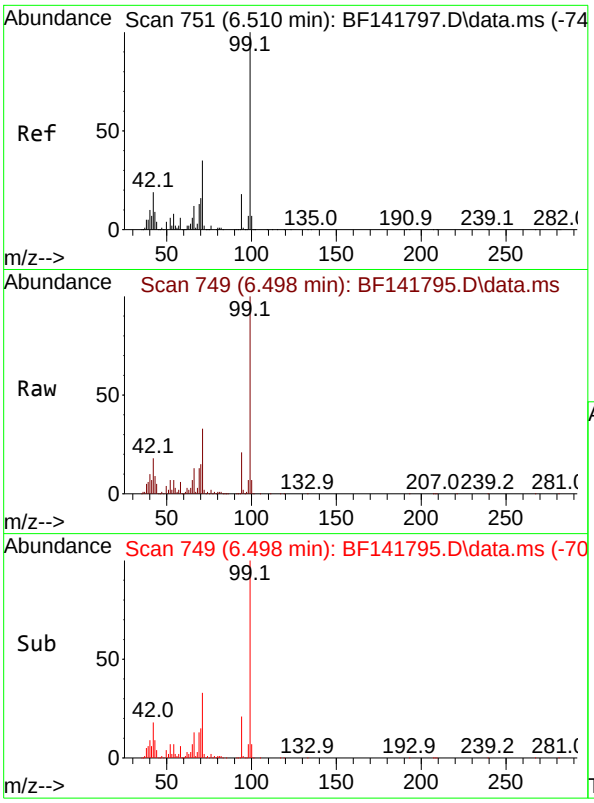



#6
Aniline
Concen: 10.243 ng
RT: 6.545 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 93 Resp: 249709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 40.8 | 32.3 | 48.5 |
| 65 | 20.2 | 15.9 | 23.9 |

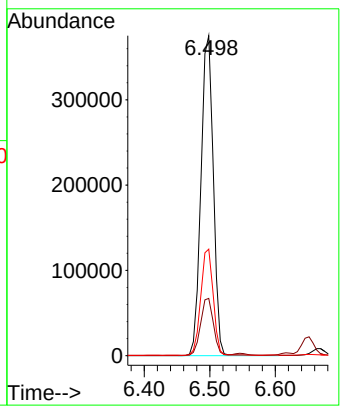





#7
Phenol-d6
Concen: 20.942 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 99 Resp: 49373

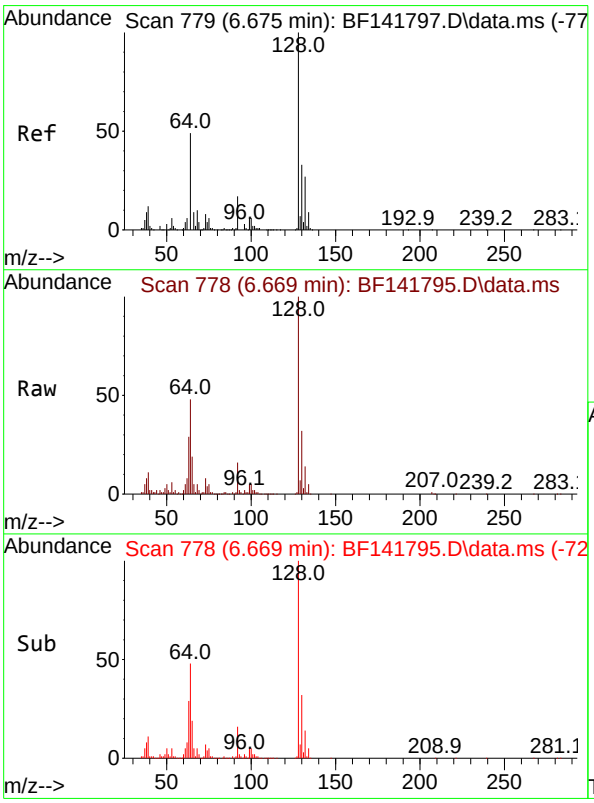
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 17.9 | 15.2 | 22.8 |
| 71 | 33.3 | 28.2 | 42.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

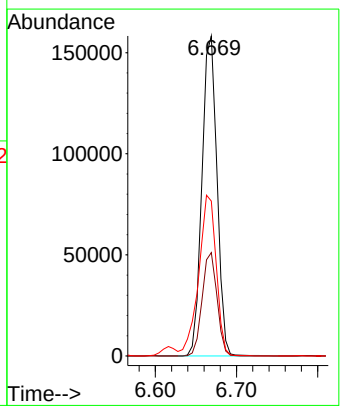
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

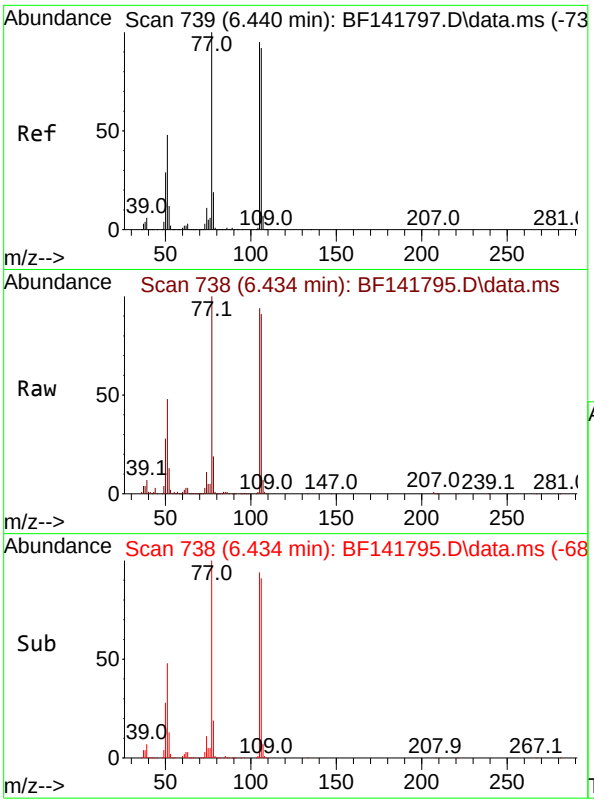



#8
2-Chlorophenol
Concen: 10.375 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:128 Resp: 203282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.3 | 12.6 | 52.6 |
| 64 | 48.4 | 31.1 | 71.1 |

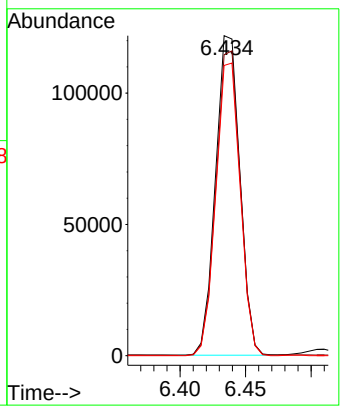





#9
Benzaldehyde
Concen: 11.474 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 77 Resp: 15735

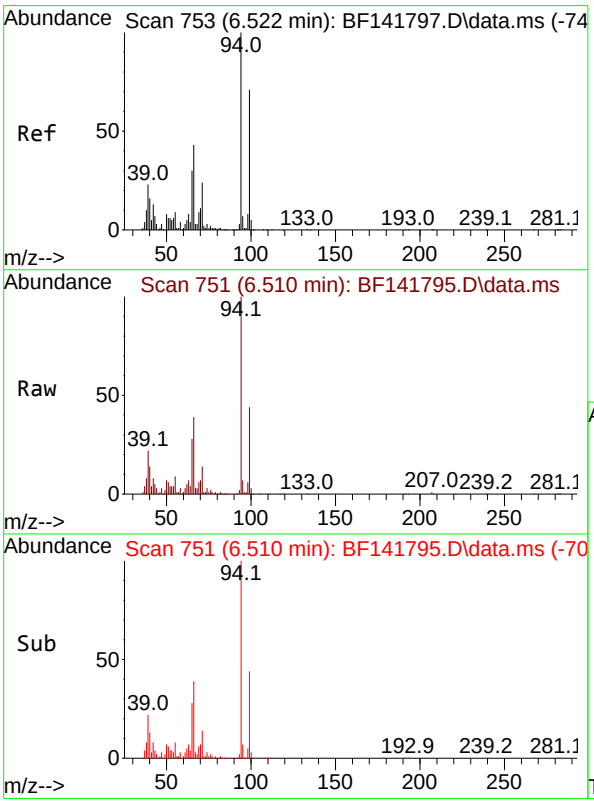
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 94.0 | 75.3 | 115.3 |
| 106 | 90.7 | 72.3 | 112.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

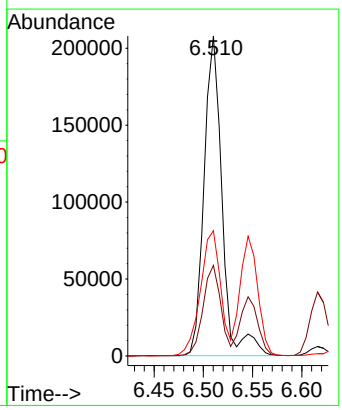
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

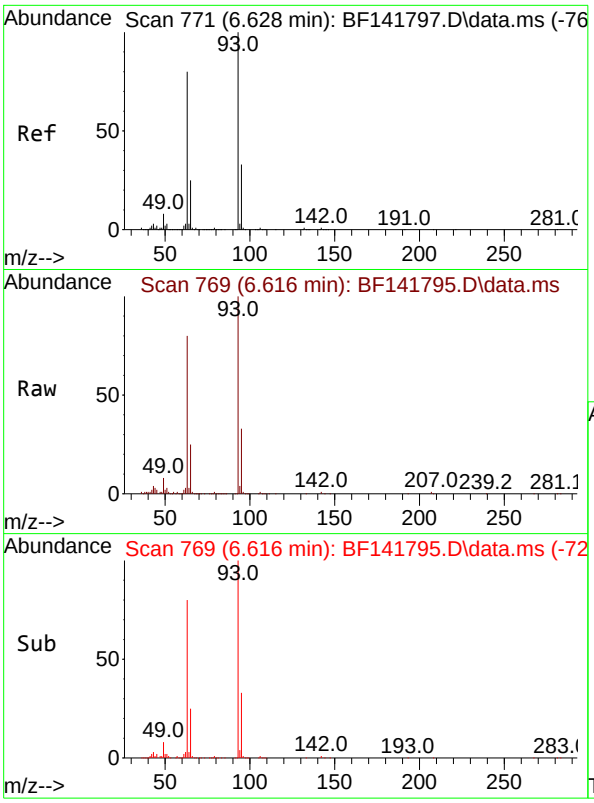



#10
Phenol
Concen: 10.494 ng m
RT: 6.510 min Scan# 751
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 94 Resp: 263599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 28.3 | 10.2 | 50.2 |
| 66 | 39.2 | 23.2 | 63.2 |

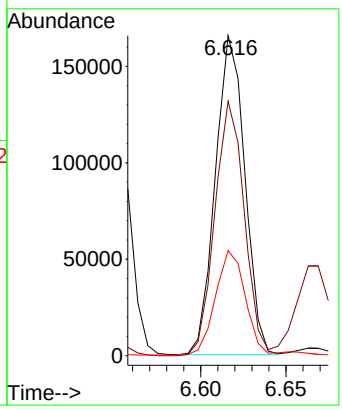





#11
bis(2-Chloroethyl)ether
Concen: 10.362 ng
RT: 6.616 min Scan# 7(
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 93 Resp: 19899(

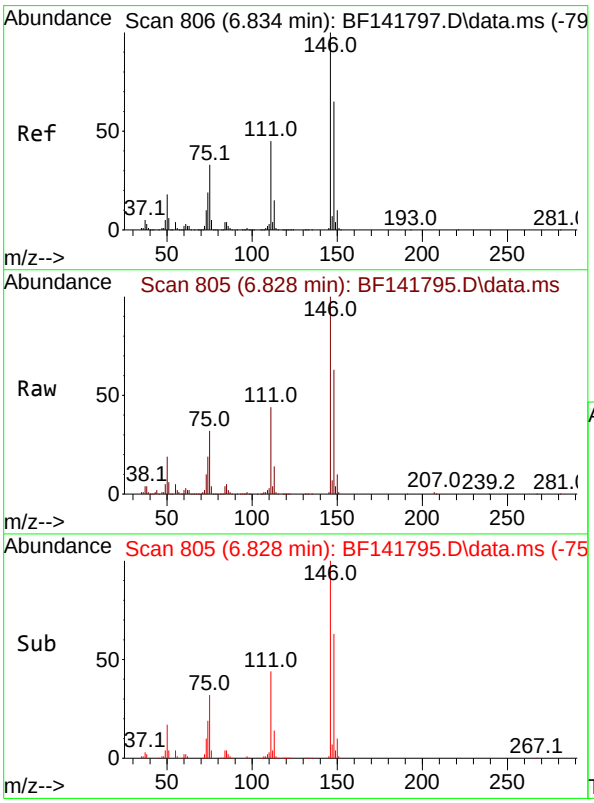
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 79.5 | 59.3 | 99.3 |
| 95 | 32.8 | 13.2 | 53.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

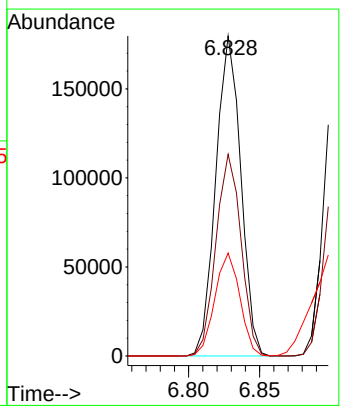
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

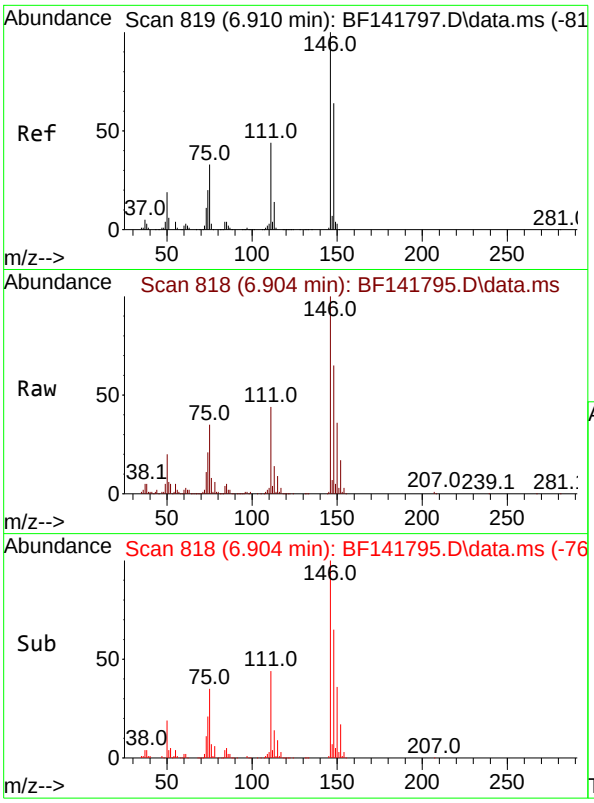



#12
1,3-Dichlorobenzene
Concen: 10.478 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:146 Resp: 219862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.0 | 51.8 | 77.6 |
| 75 | 32.2 | 26.2 | 39.4 |

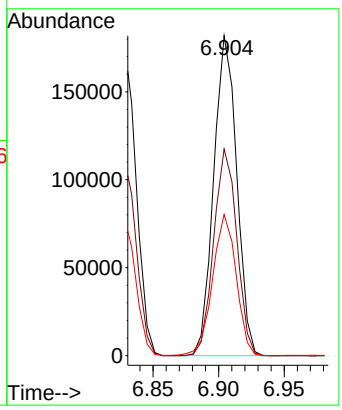





#13
1,4-Dichlorobenzene
Concen: 10.486 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:146 Resp: 22170

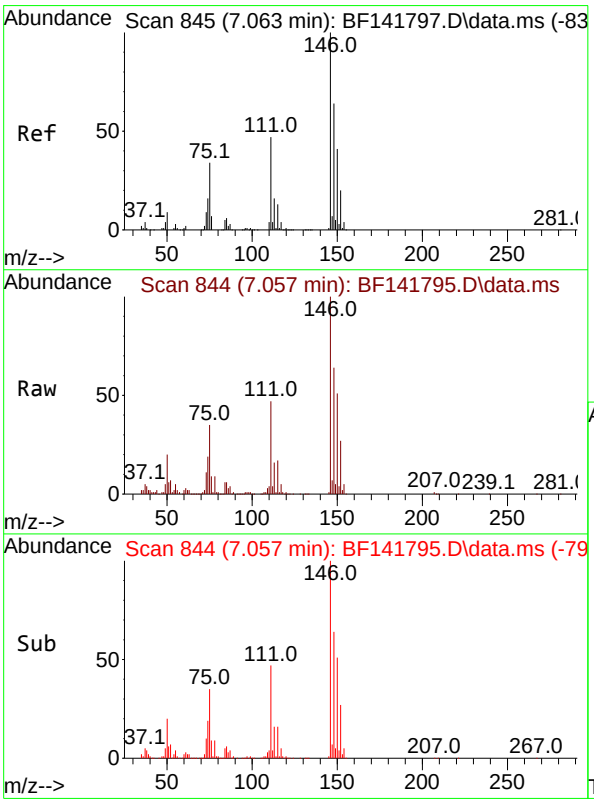
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.6 | 51.4 | 77.2 |
| 111 | 44.1 | 35.5 | 53.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

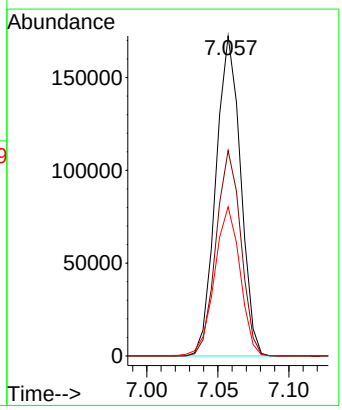
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

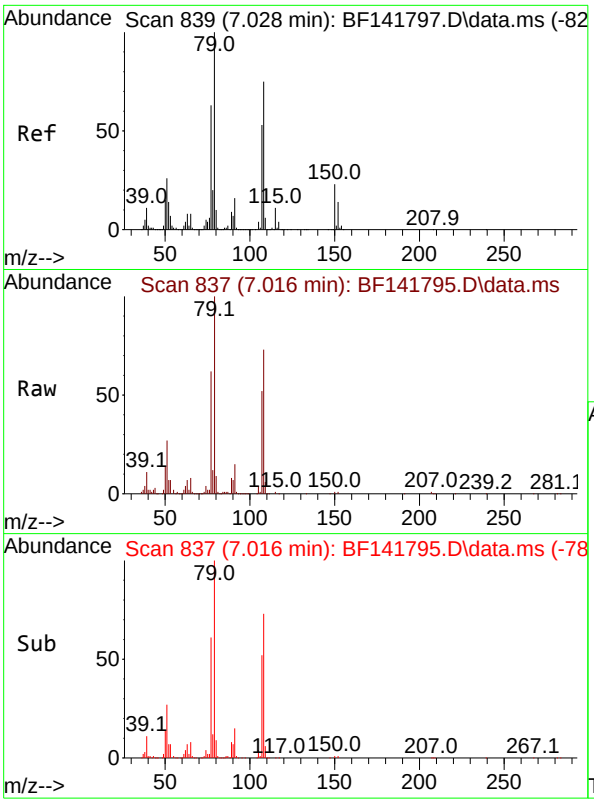



#14
1,2-Dichlorobenzene
Concen: 10.575 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:146 Resp: 208788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.2 | 51.2 | 76.8 |
| 111 | 46.6 | 37.8 | 56.6 |






#15
Benzyl Alcohol
Concen: 10.384 ng
RT: 7.016 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

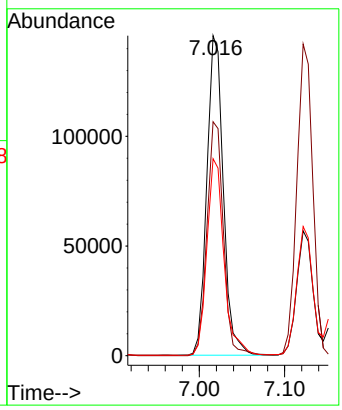
Tgt Ion: 79 Resp: 19564

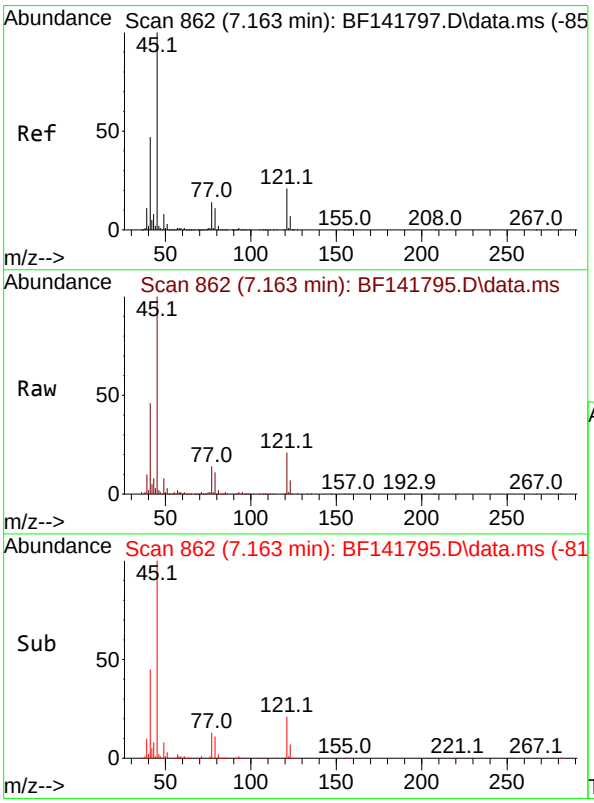
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 73.1 | 60.2 | 90.2 |
| 77 | 61.6 | 50.2 | 75.2 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

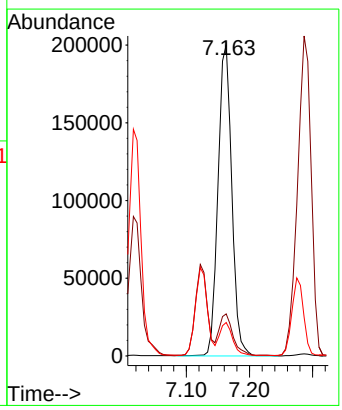


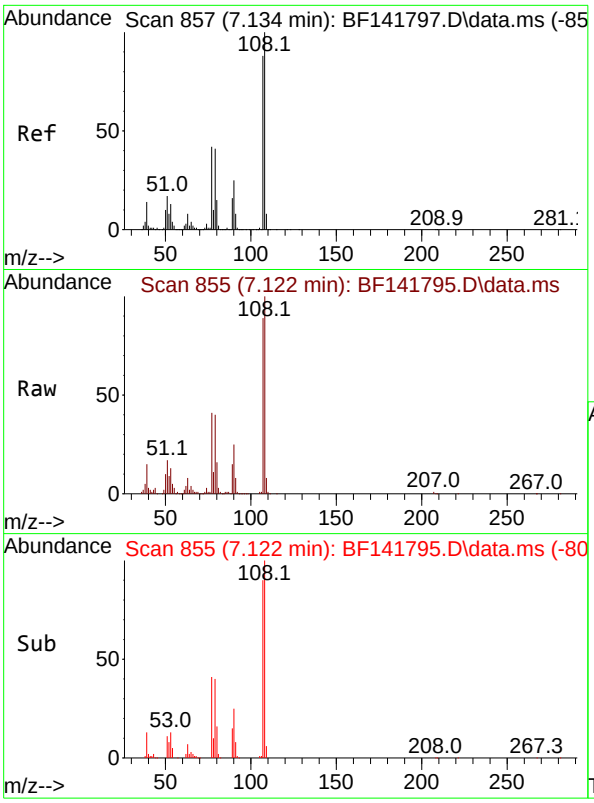




#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.387 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 45 Resp: 302932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 13.6 | 0.0 | 34.4 |
| 79 | 10.7 | 0.0 | 30.9 |

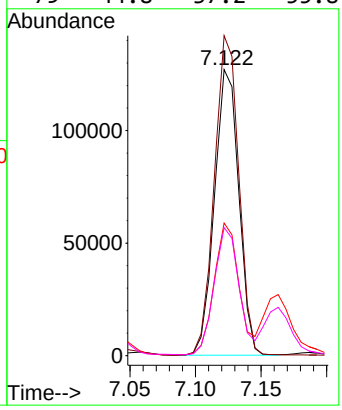





#17
2-Methylphenol
Concen: 10.121 ng
RT: 7.122 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:107 Resp: 16369

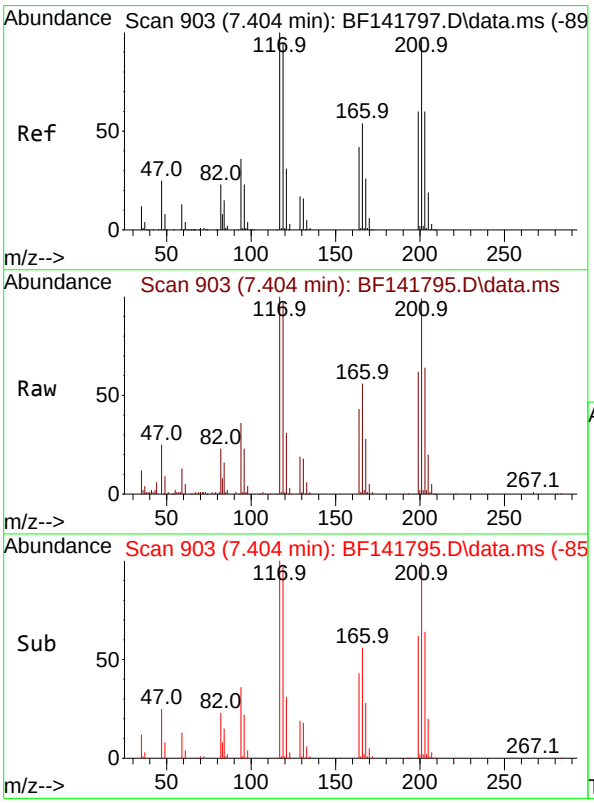
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 111.8 | 90.6 | 135.8 |
| 77 | 46.3 | 37.7 | 56.5 |
| 79 | 44.8 | 37.2 | 55.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

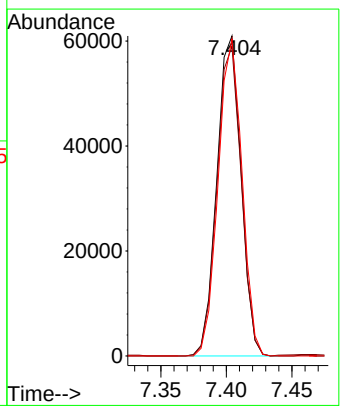
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

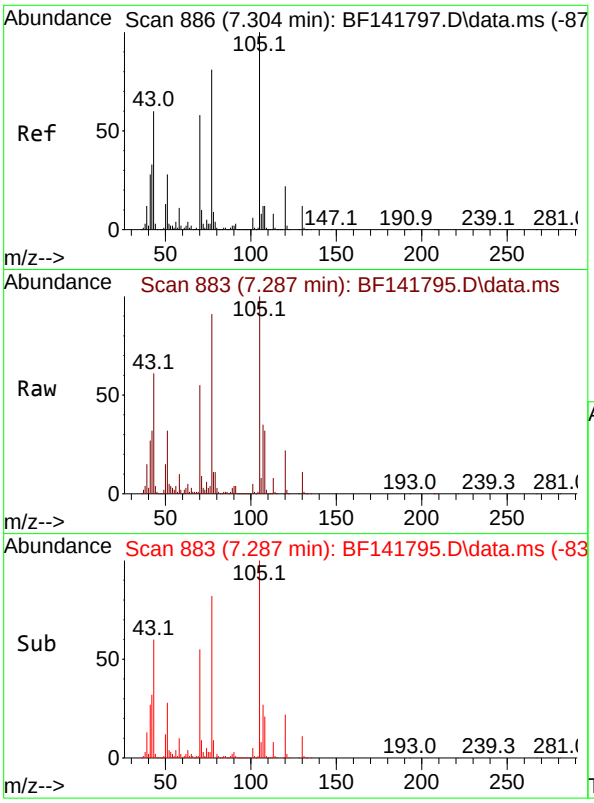



#18
Hexachloroethane
Concen: 9.899 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:117 Resp: 78340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.7 | 75.8 | 113.8 |
| 201 | 99.1 | 76.7 | 115.1 |

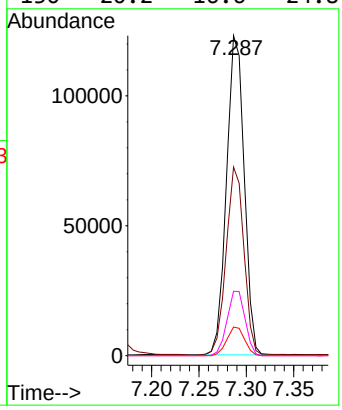





#19
n-Nitroso-di-n-propylamine
Concen: 10.315 ng
RT: 7.287 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 70 Resp: 15986

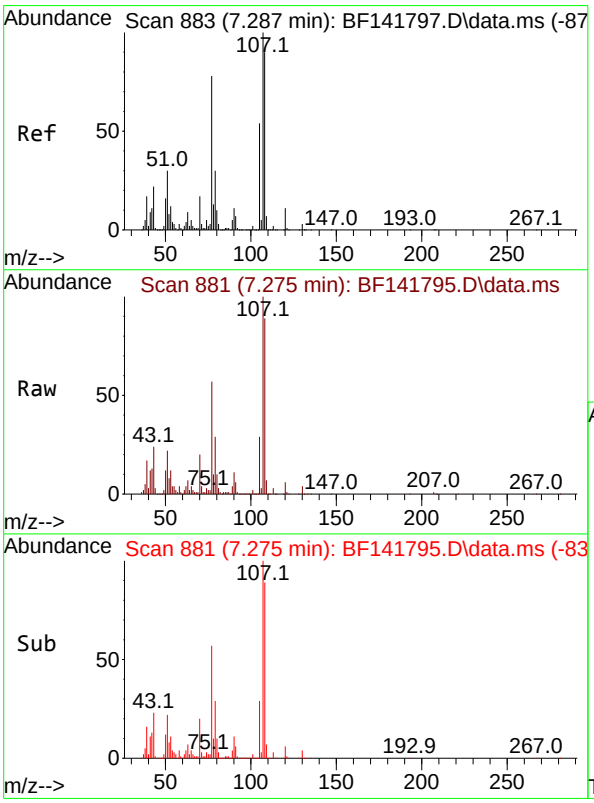
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 58.9 | 45.4 | 68.0 |
| 101 | 8.9 | 7.8 | 11.8 |
| 130 | 20.2 | 16.6 | 24.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

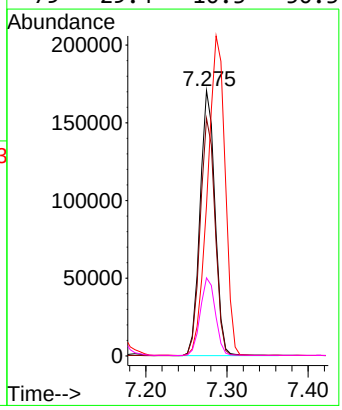
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

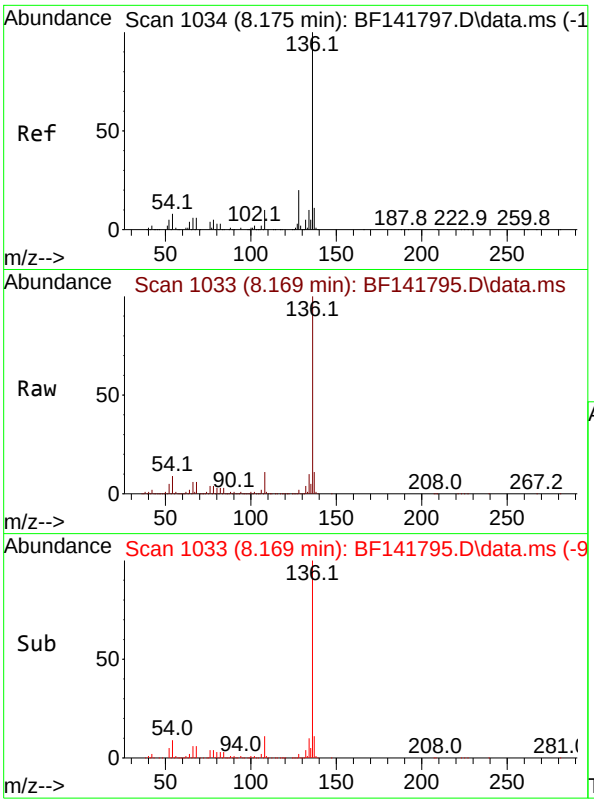



#20
3+4-Methylphenols
Concen: 10.842 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:107 Resp: 218359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 89.5 | 69.7 | 109.7 |
| 77 | 56.7 | 58.3 | 98.3# |
| 79 | 29.4 | 10.3 | 50.3 |

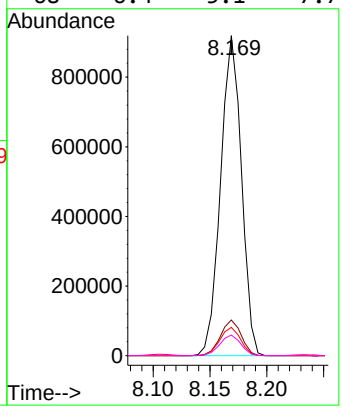





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:136 Resp: 117383

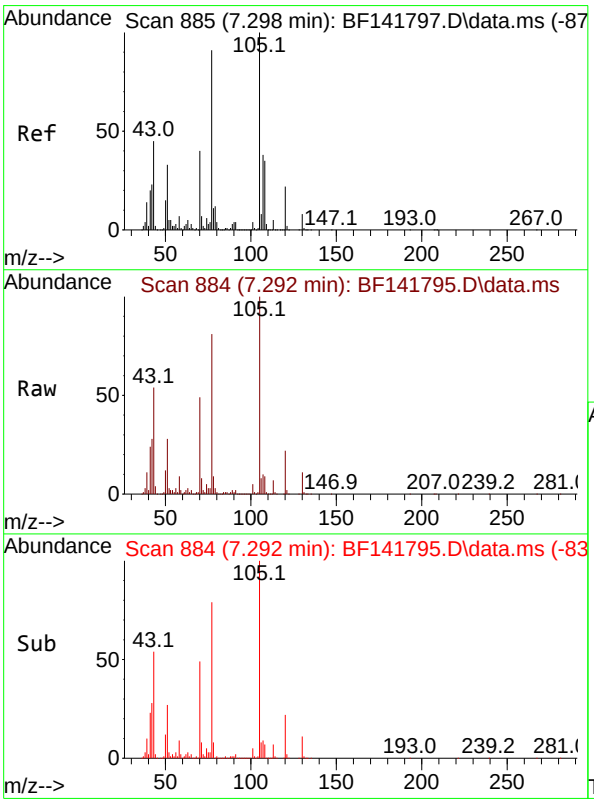
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.1 | 8.9 | 13.3 |
| 54 | 8.8 | 6.9 | 10.3 |
| 68 | 6.4 | 5.1 | 7.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

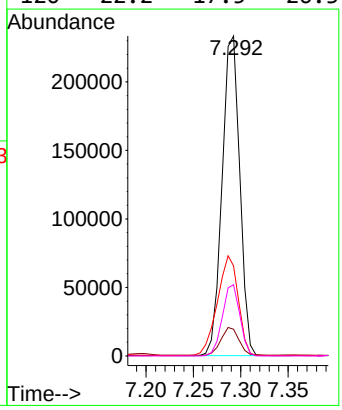
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

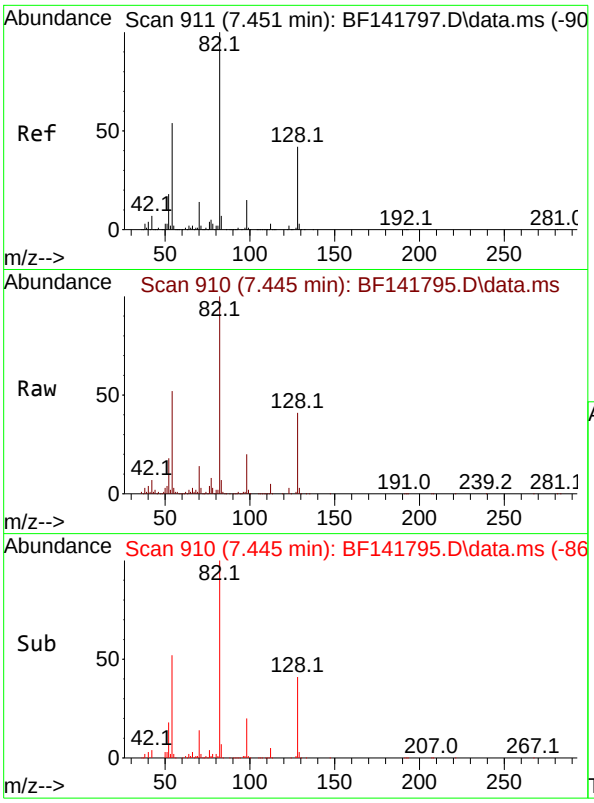



#22
Acetophenone
Concen: 10.606 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:105 Resp: 303217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 8.4 | 5.4 | 8.0# |
| 51 | 28.2 | 26.1 | 39.1 |
| 120 | 22.2 | 17.5 | 26.3 |






#23
Nitrobenzene-d5
Concen: 17.336 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

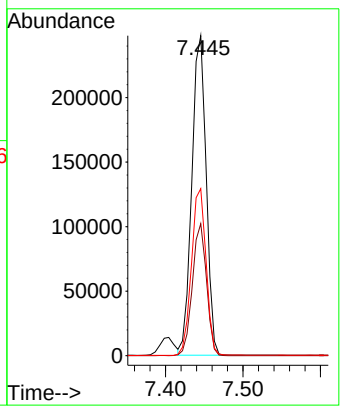
Tgt Ion: 82 Resp: 31836

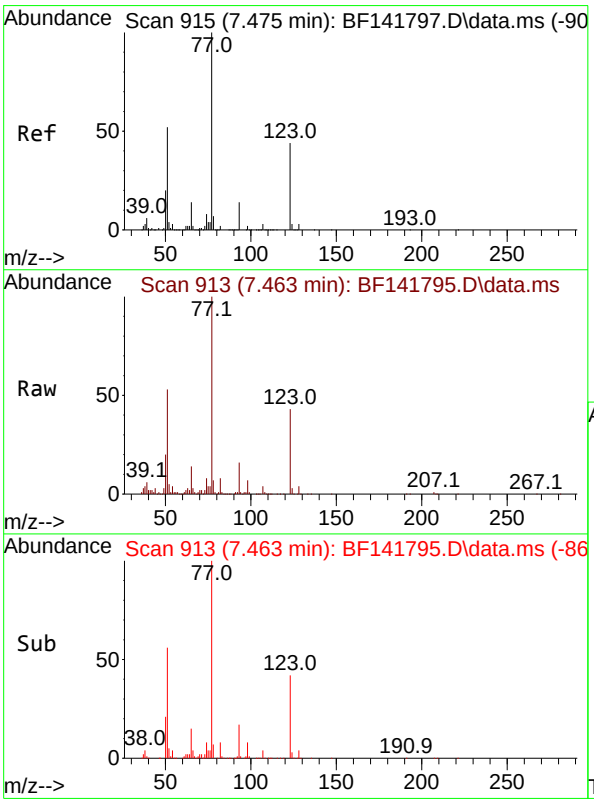
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.3 | 33.5 | 50.3 |
| 54 | 52.2 | 42.7 | 64.1 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

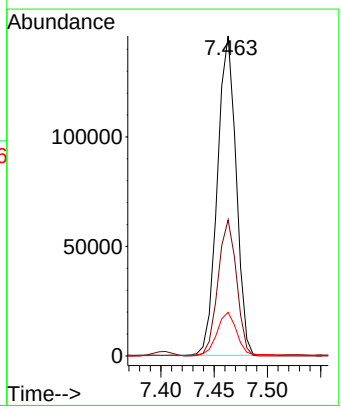


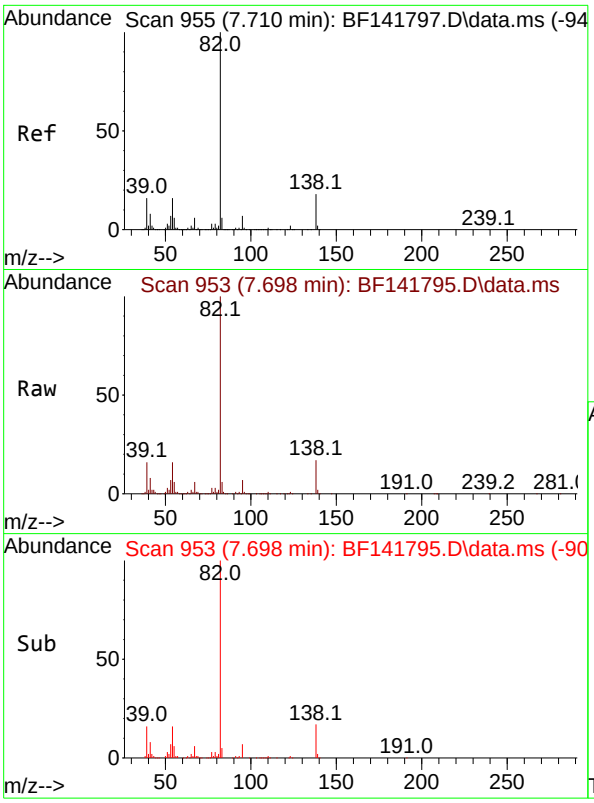




#24
Nitrobenzene
Concen: 9.057 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 77 Resp: 178109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 42.6 | 35.8 | 53.8 |
| 65 | 13.7 | 11.2 | 16.8 |






#25
Isophorone
Concen: 10.145 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

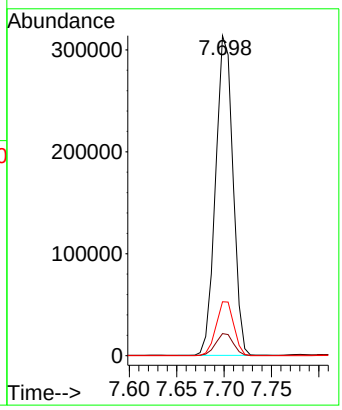
Tgt Ion: 82 Resp: 40022

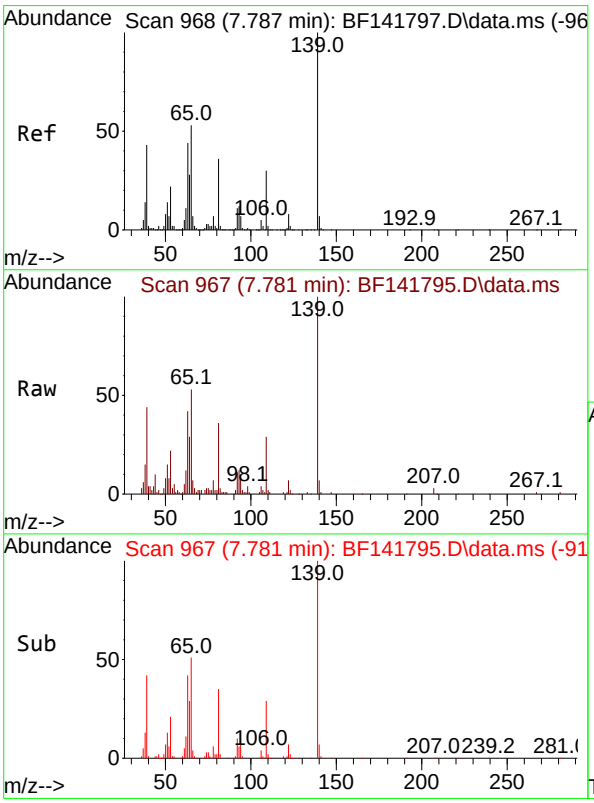
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 6.9 | 5.8 | 8.8 |
| 138 | 16.9 | 14.0 | 21.0 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

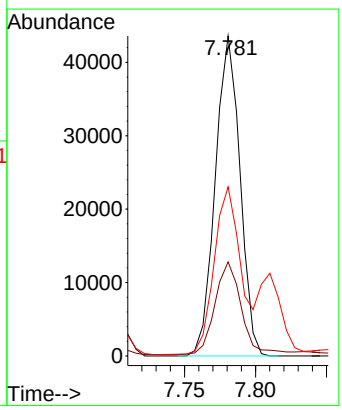


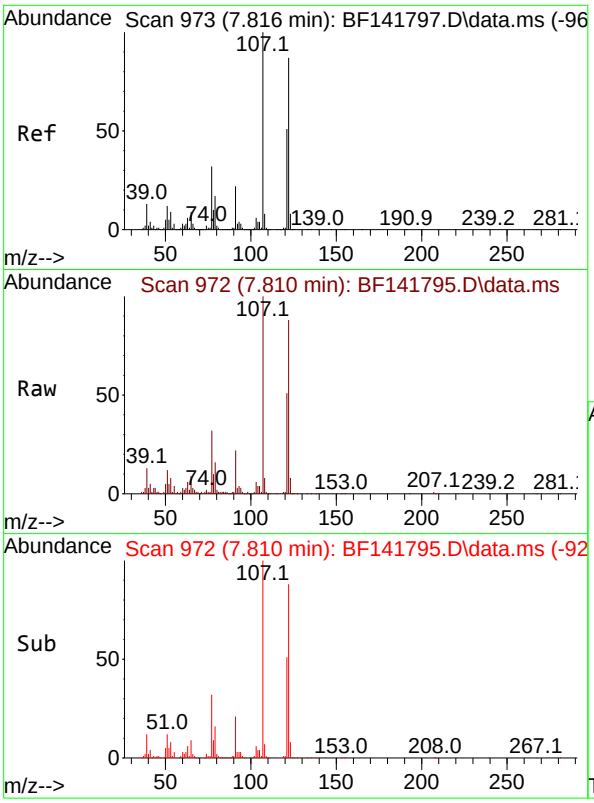




#26
2-Nitrophenol
Concen: 9.980 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:139 Resp: 52703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 29.4 | 24.1 | 36.1 |
| 65 | 52.9 | 42.3 | 63.5 |

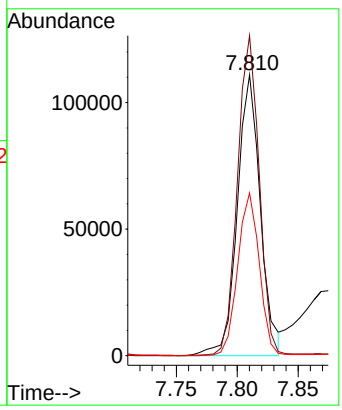





#27
2,4-Dimethylphenol
Concen: 10.103 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:122 Resp: 14651

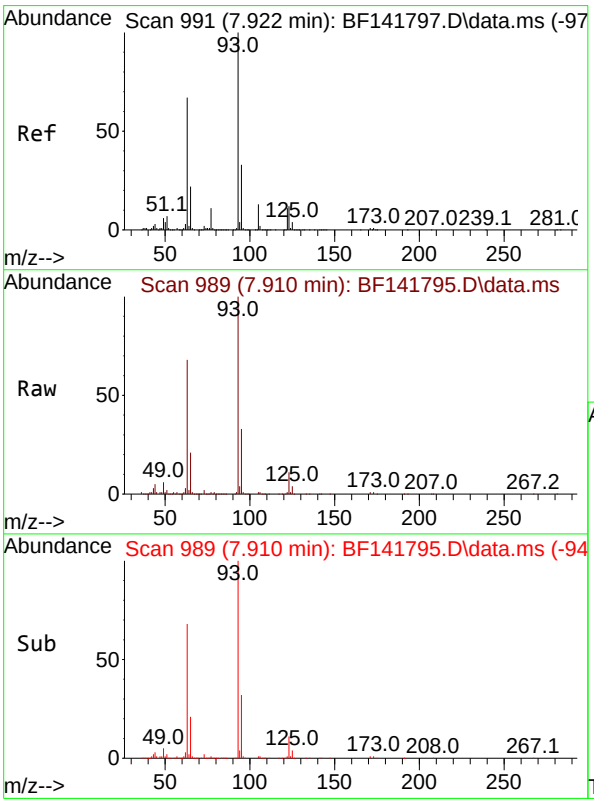
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 113.9 | 92.5 | 138.7 |
| 121 | 57.9 | 47.1 | 70.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

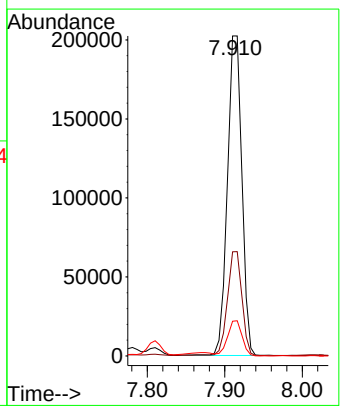
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

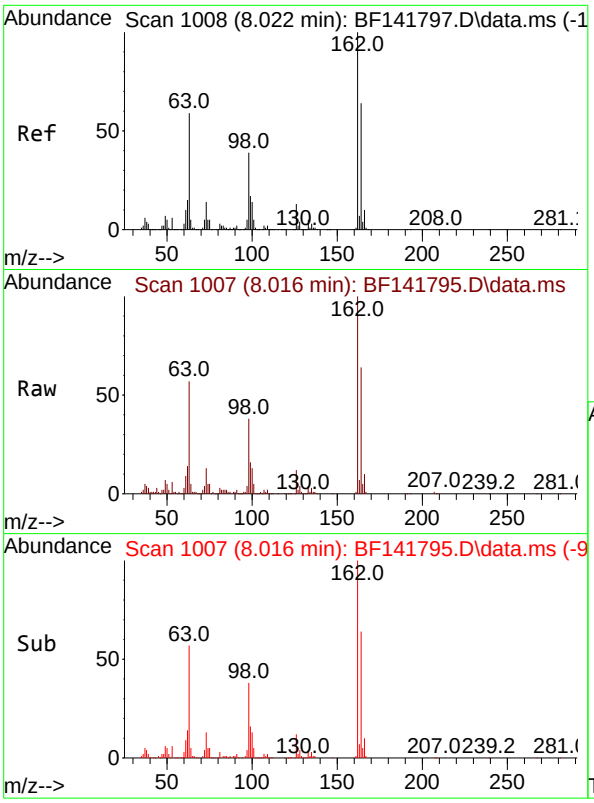



#28
bis(2-Chloroethoxy)methane
Concen: 10.445 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 93 Resp: 262861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.5 | 26.5 | 39.7 |
| 123 | 10.8 | 10.0 | 15.0 |






#29
2,4-Dichlorophenol
Concen: 10.114 ng
RT: 8.016 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

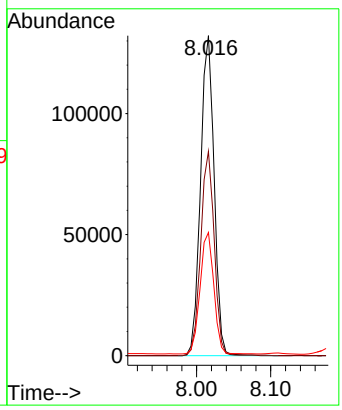
Tgt Ion:162 Resp: 16921(

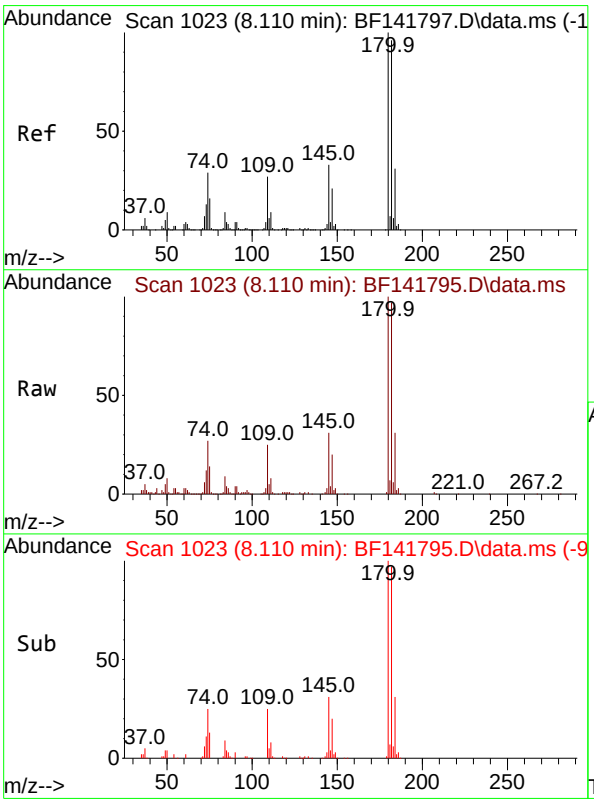
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 63.9 | 44.3 | 84.3 |
| 98 | 38.5 | 19.6 | 59.6 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

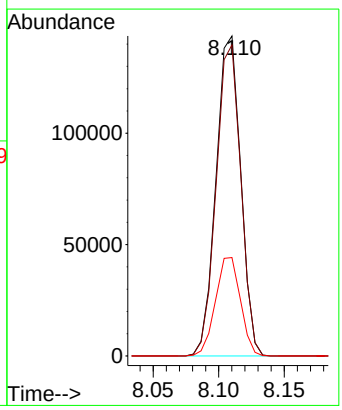


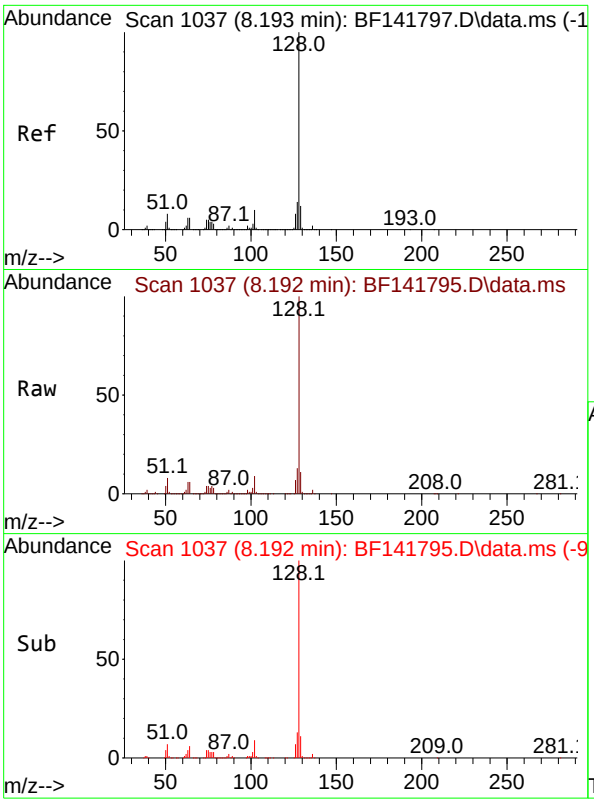




#30
1,2,4-Trichlorobenzene
Concen: 10.271 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:180 Resp: 188296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.2 | 76.8 | 115.2 |
| 145 | 30.8 | 26.4 | 39.6 |

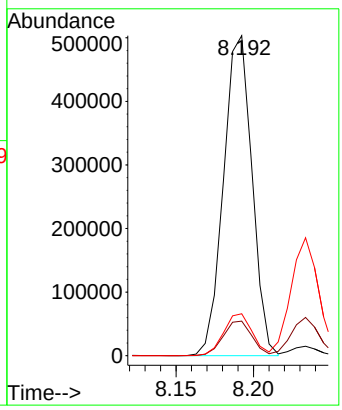





#31
Naphthalene
Concen: 10.668 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:128 Resp: 64362

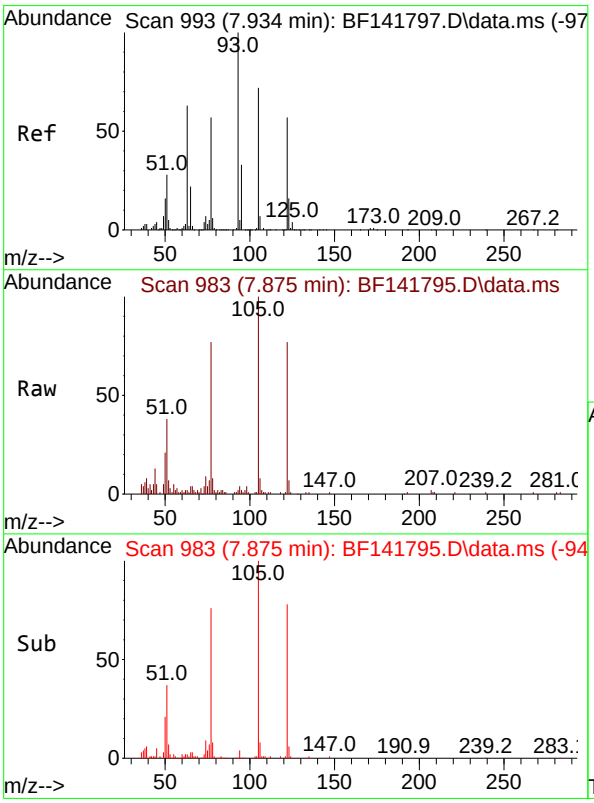
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 10.8 | 9.2 | 13.8 |
| 127 | 13.1 | 11.0 | 16.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

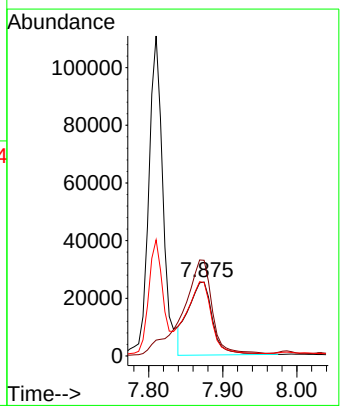
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

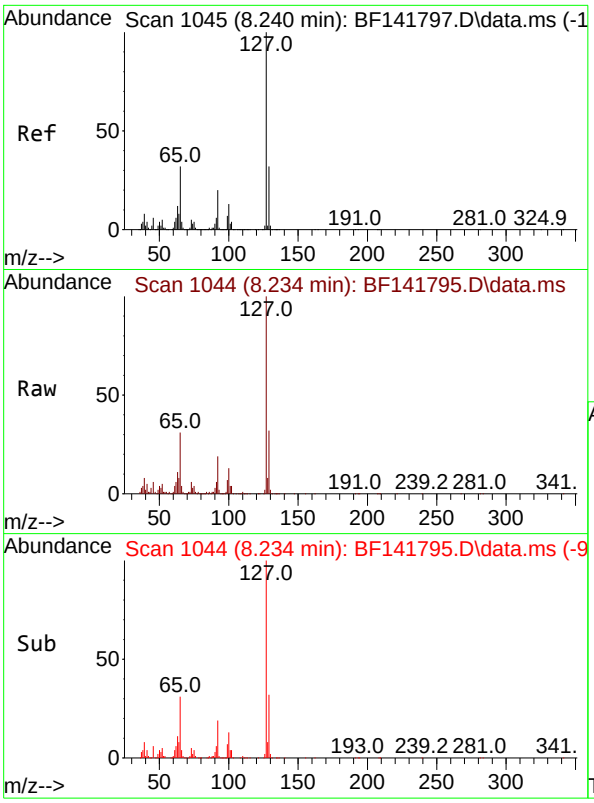



#32
Benzoic acid
Concen: 11.729 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.059 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:122 Resp: 58209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 129.5 | 105.8 | 145.8 |
| 77 | 99.2 | 79.9 | 119.9 |

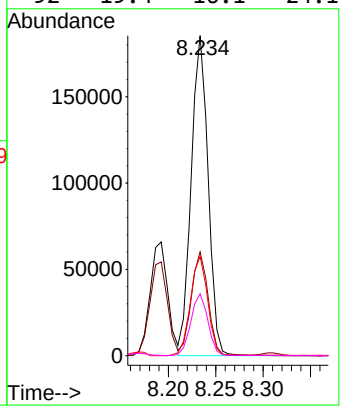





#33
4-Chloroaniline
Concen: 10.413 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:127 Resp: 23034

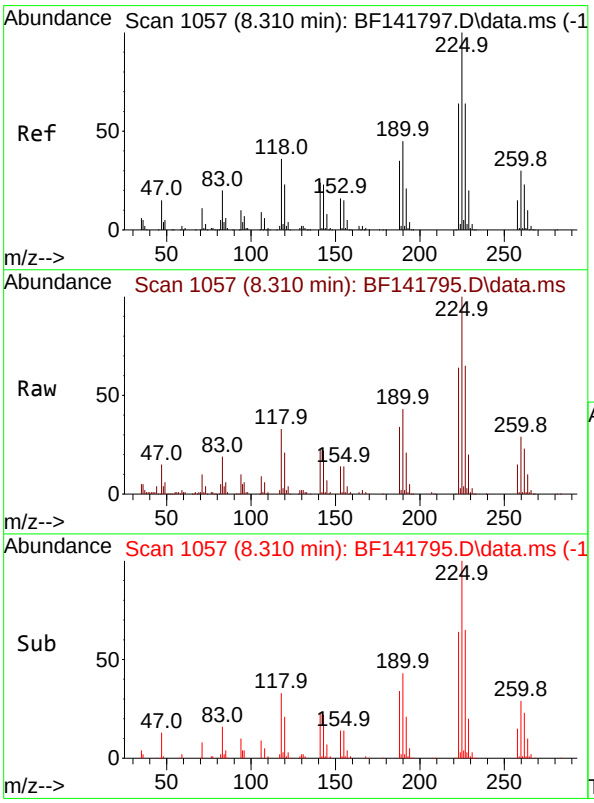
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.4 | 26.1 | 39.1 |
| 65 | 30.9 | 25.7 | 38.5 |
| 92 | 19.4 | 16.1 | 24.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

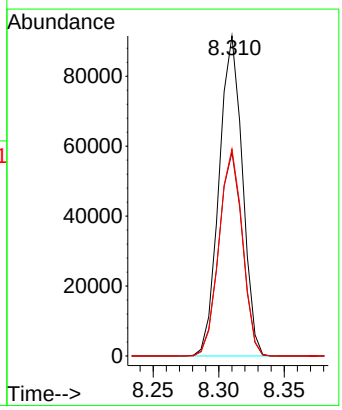
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

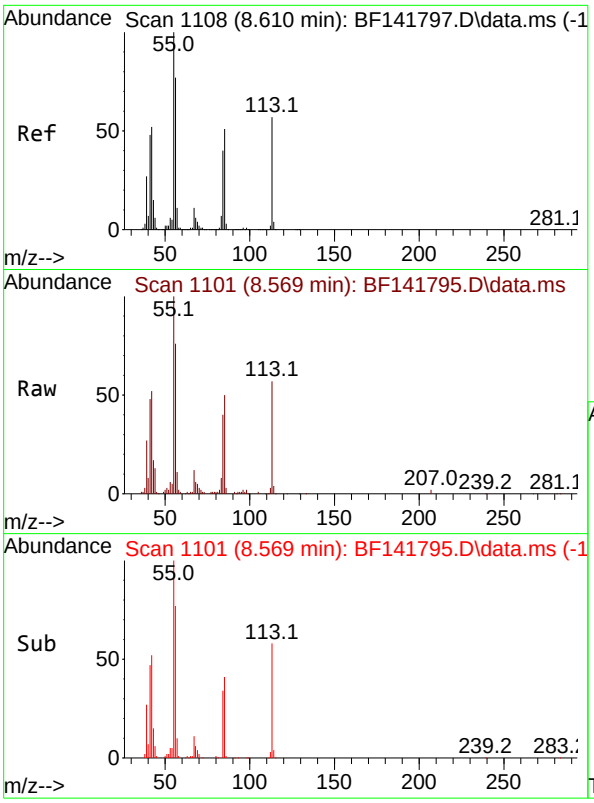



#34
Hexachlorobutadiene
Concen: 9.931 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:225 Resp: 113140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.6 | 51.4 | 77.2 |
| 227 | 64.7 | 51.6 | 77.4 |

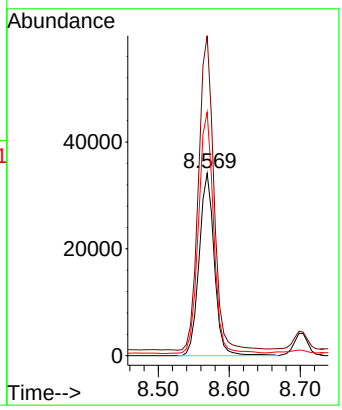





#35
Caprolactam
Concen: 9.855 ng
RT: 8.569 min Scan# 1
Delta R.T. -0.041 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:113 Resp: 5073

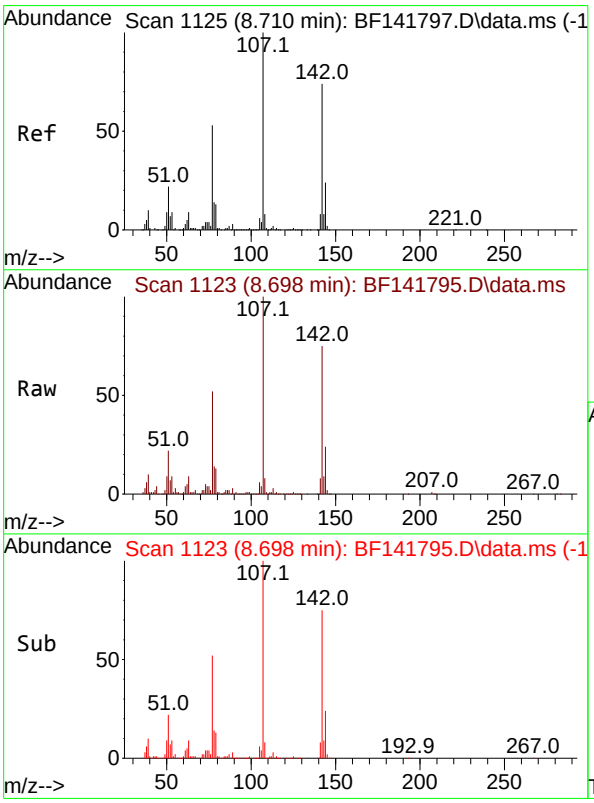
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 175.4 | 155.6 | 195.6 |
| 56 | 133.5 | 114.6 | 154.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

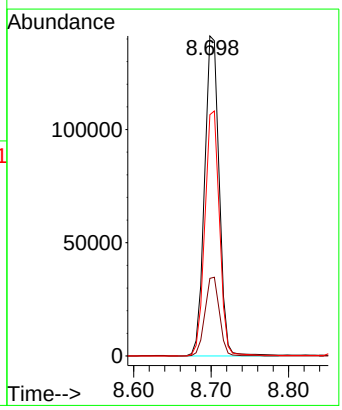
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

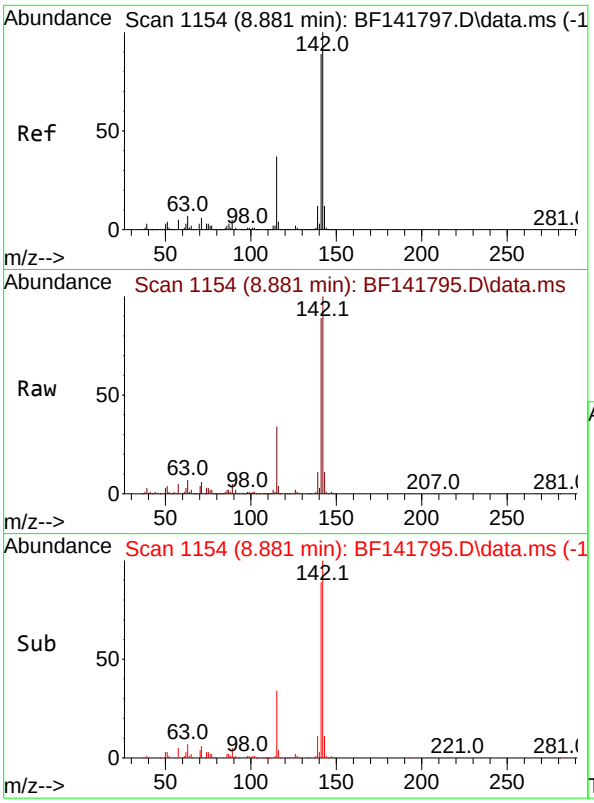



#36
4-Chloro-3-methylphenol
Concen: 9.987 ng
RT: 8.698 min Scan# 1123
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:107 Resp: 185621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 24.2 | 19.4 | 29.0 |
| 142 | 75.4 | 59.4 | 89.0 |

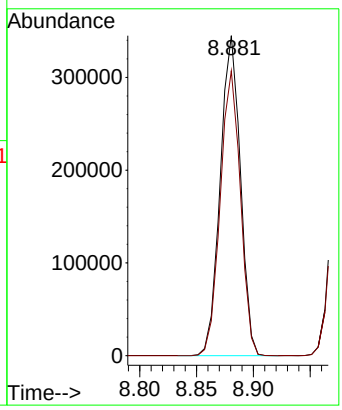





#37
2-Methylnaphthalene
Concen: 10.758 ng
RT: 8.881 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:142 Resp: 42572

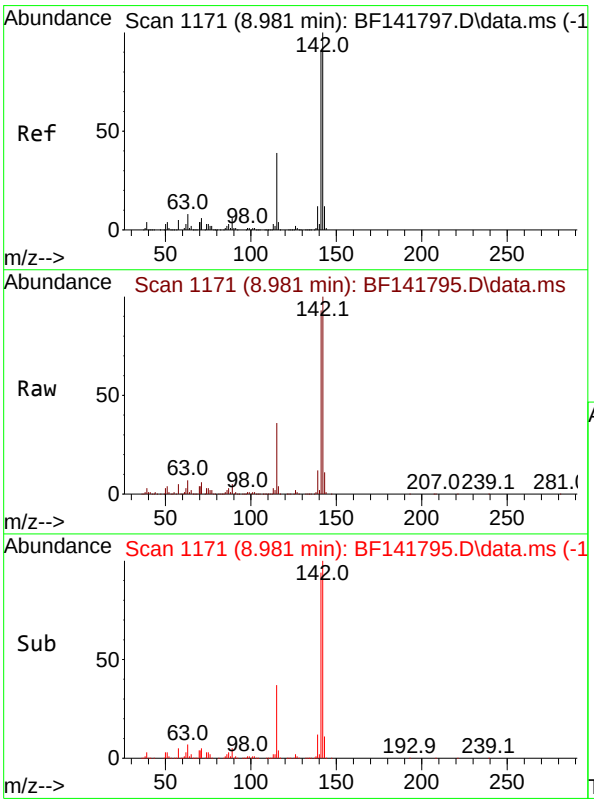
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.0 | 71.1 | 106.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

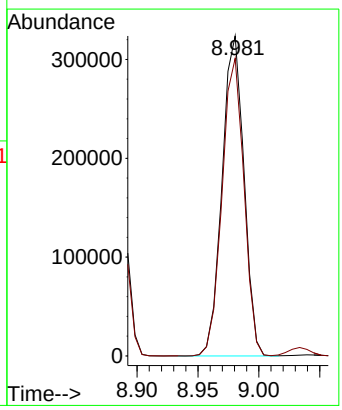
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

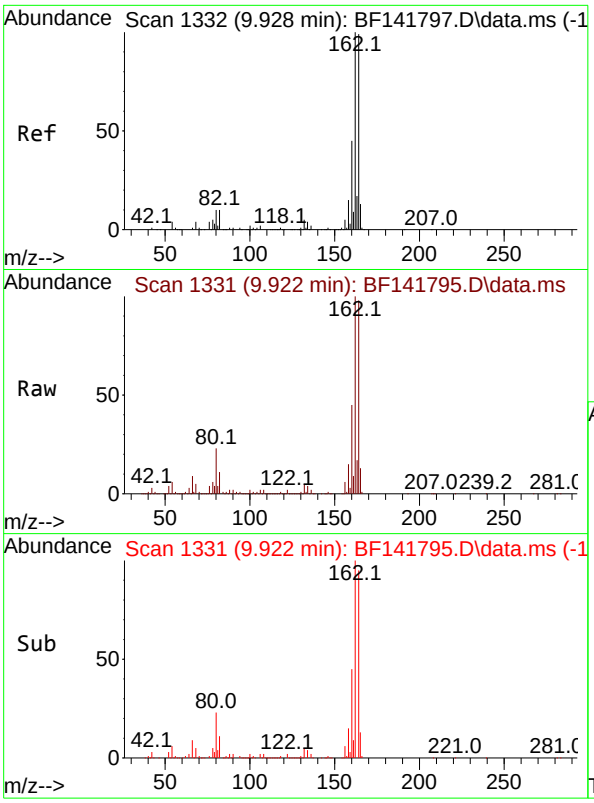



#38
1-Methylnaphthalene
Concen: 10.642 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:142 Resp: 404087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.0 | 73.1 | 109.7 |

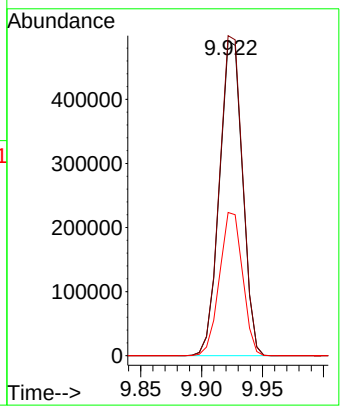





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:164 Resp: 64790

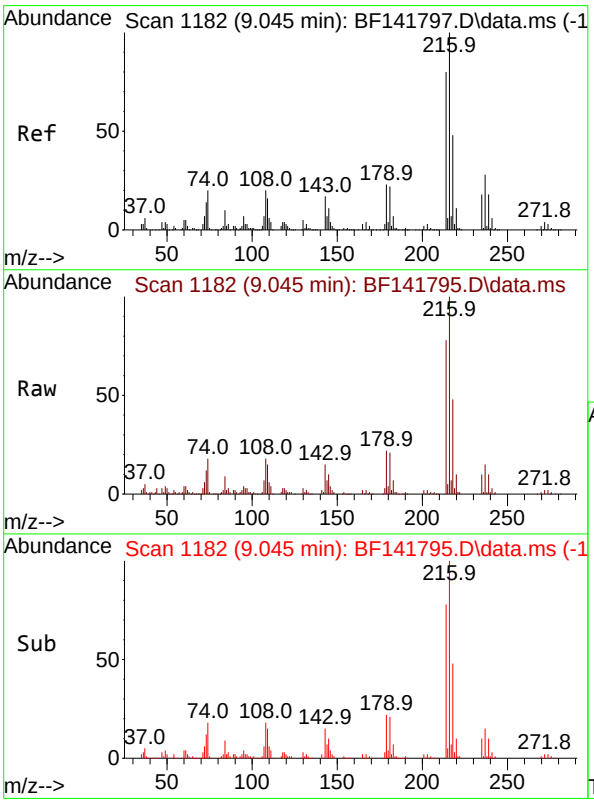
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.7 | 80.6 | 120.8 |
| 160 | 45.5 | 36.3 | 54.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

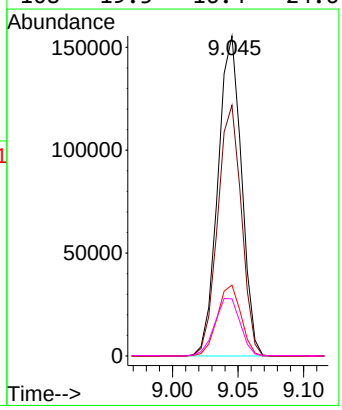
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

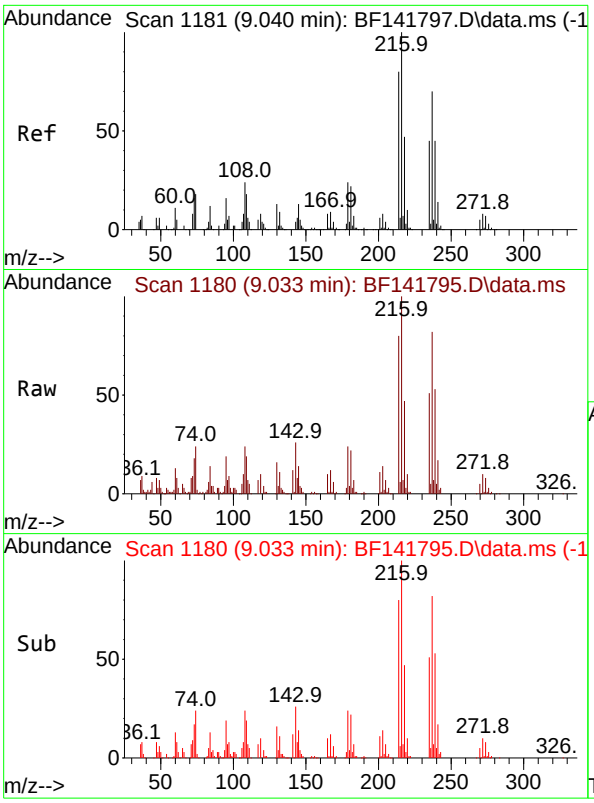



#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.386 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:216 Resp: 194342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 78.6 | 63.5 | 95.3 |
| 179 | 22.3 | 18.1 | 27.1 |
| 108 | 19.5 | 16.4 | 24.6 |

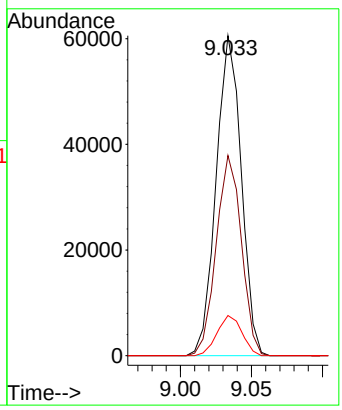





#41
Hexachlorocyclopentadiene
Concen: 9.533 ng
RT: 9.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:237 Resp: 7444

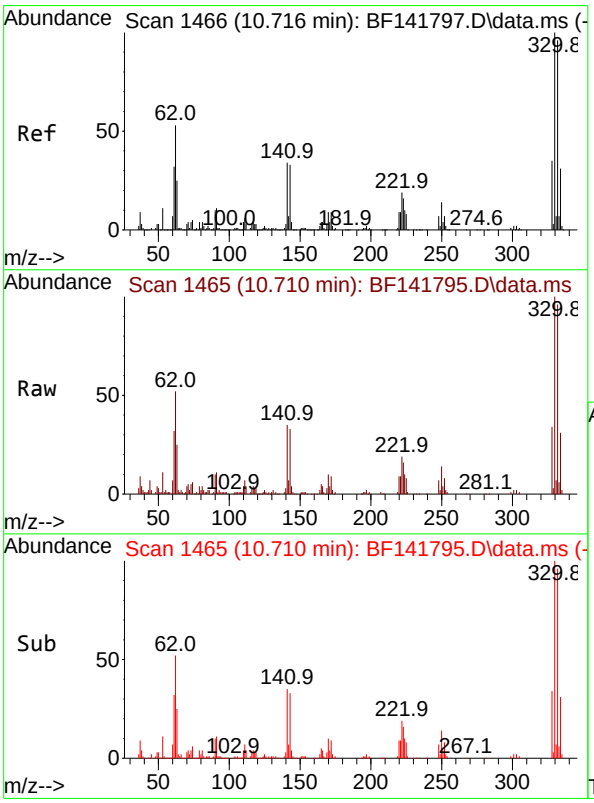
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 62.6 | 43.3 | 83.3 |
| 272 | 12.5 | 0.0 | 31.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

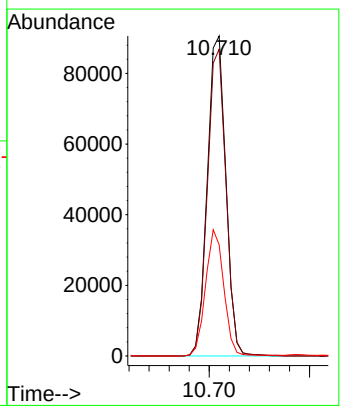
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

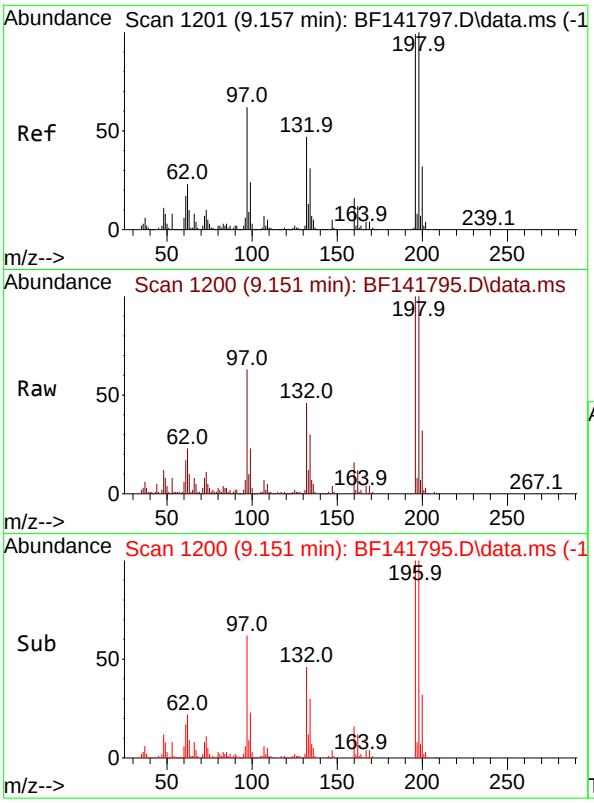



#42
2,4,6-Tribromophenol
Concen: 19.078 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:330 Resp: 116043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.2 | 76.6 | 115.0 |
| 141 | 39.0 | 29.0 | 43.4 |






#43
2,4,6-Trichlorophenol
Concen: 9.864 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

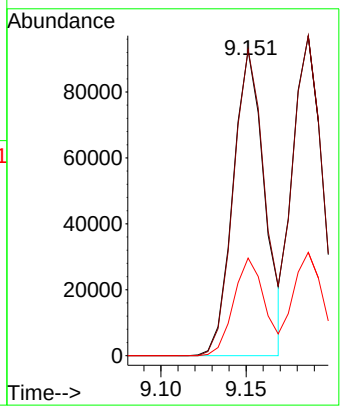
Tgt Ion:196 Resp: 11923

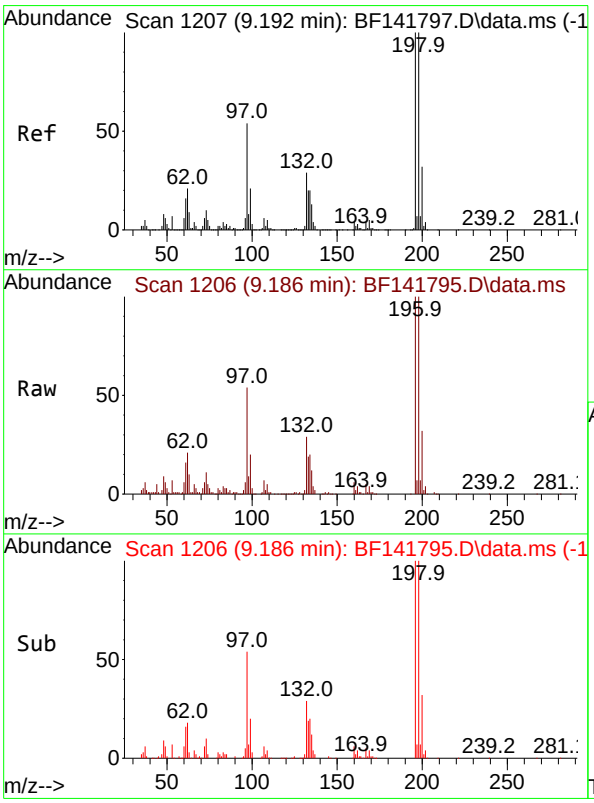
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.4 | 80.4 | 120.6 |
| 200 | 32.0 | 25.7 | 38.5 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

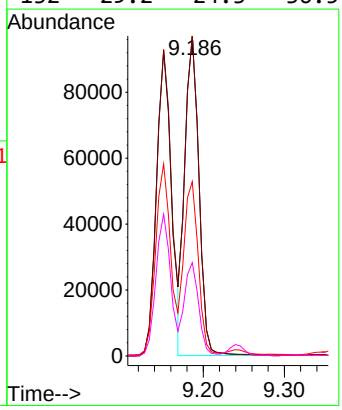


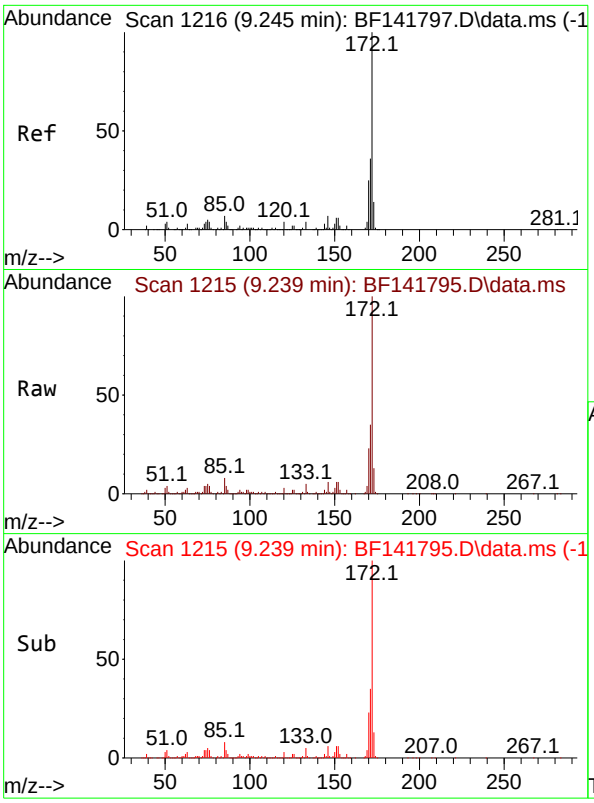




#44
2,4,5-Trichlorophenol
Concen: 9.860 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:196 Resp: 118017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.1 | 79.7 | 119.5 |
| 97 | 54.5 | 44.2 | 66.2 |
| 132 | 29.2 | 24.3 | 36.5 |

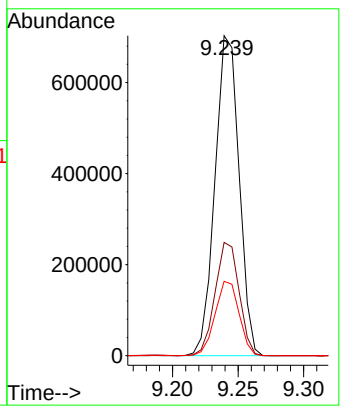





#45
2-Fluorobiphenyl
Concen: 22.244 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:172 Resp: 89879

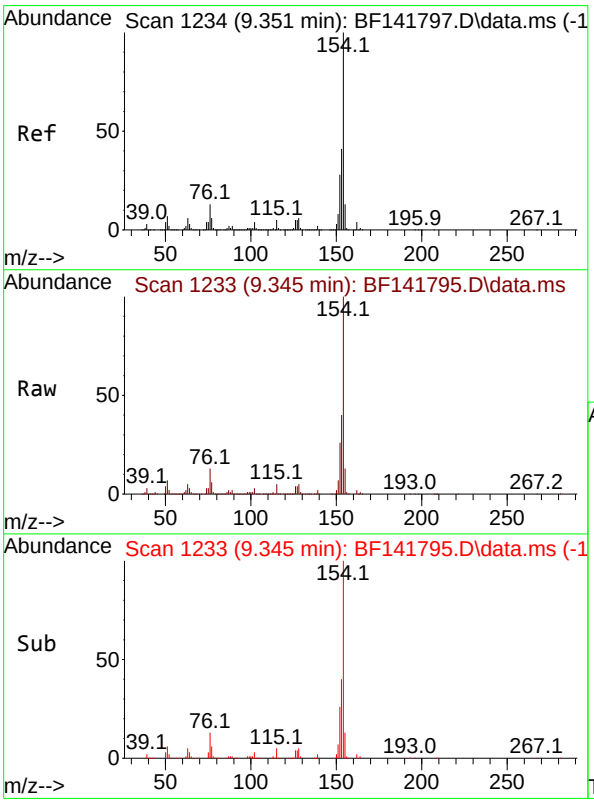
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.4 | 29.2 | 43.8 |
| 170 | 23.3 | 19.7 | 29.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

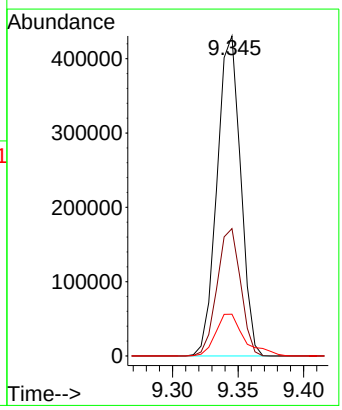
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

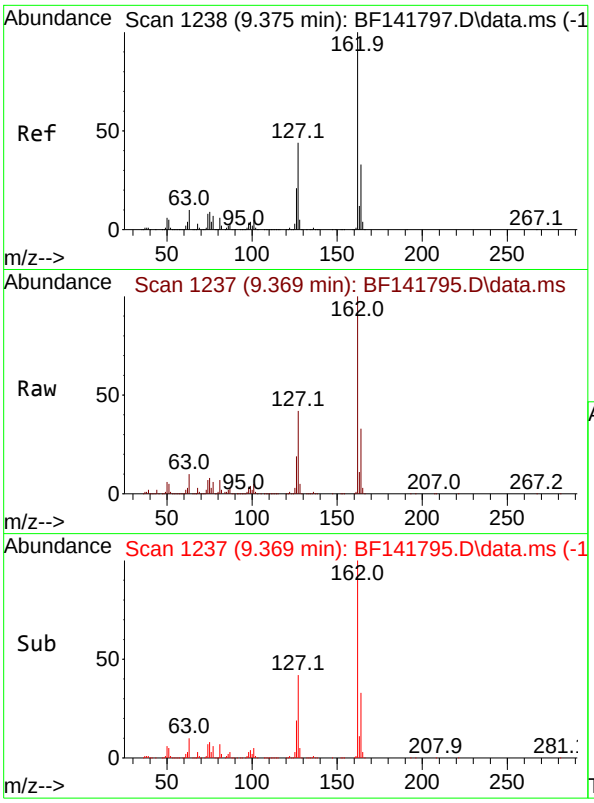



#46
1,1'-Biphenyl
Concen: 10.896 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:154 Resp: 537368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 39.8 | 21.4 | 61.4 |
| 76 | 13.1 | 0.0 | 33.4 |

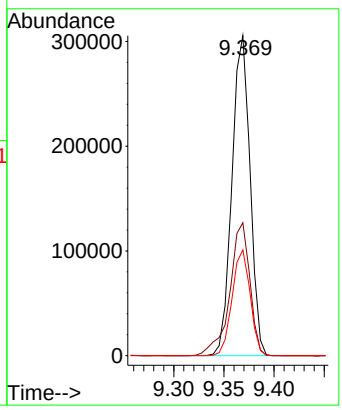





#47
2-Chloronaphthalene
Concen: 10.535 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:162 Resp: 38344

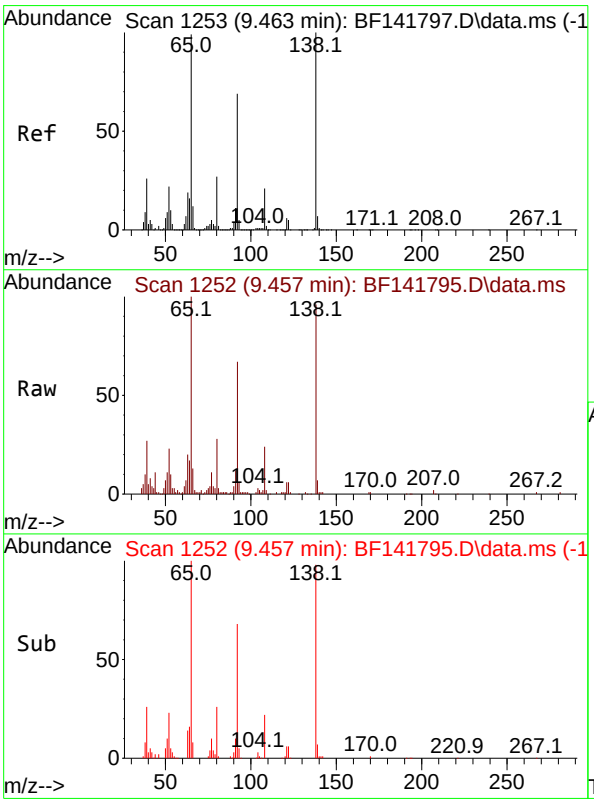
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 41.5 | 35.0 | 52.6 |
| 164 | 33.1 | 26.6 | 40.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

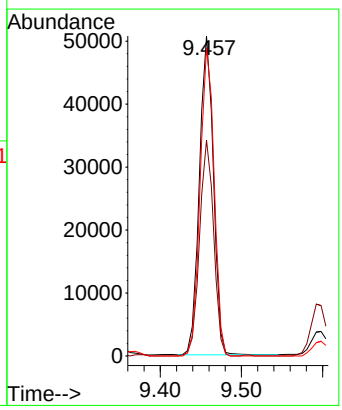
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

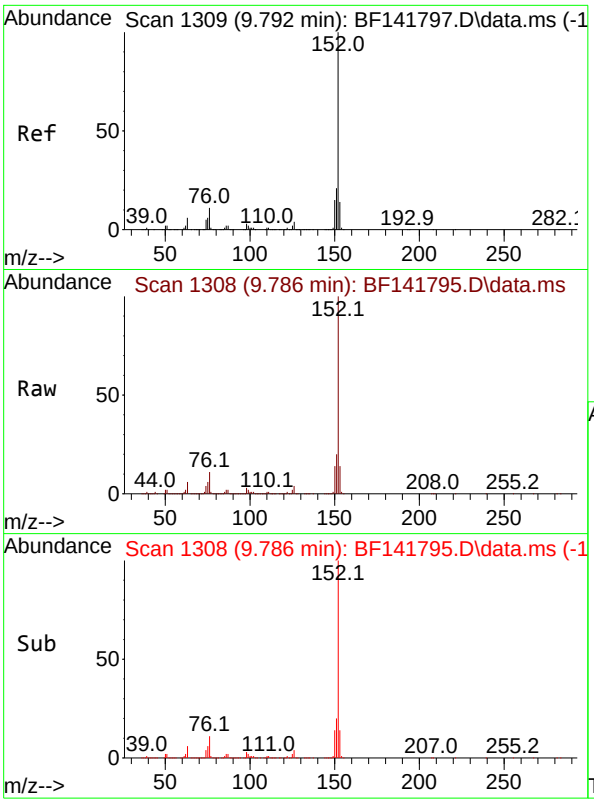



#48
2-Nitroaniline
Concen: 9.877 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 65 Resp: 60658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 67.4 | 55.7 | 83.5 |
| 138 | 96.3 | 80.6 | 121.0 |

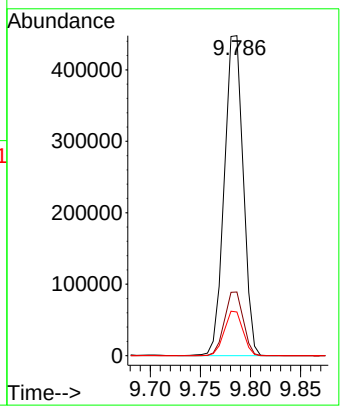





#49
Acenaphthylene
Concen: 10.739 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:152 Resp: 58606

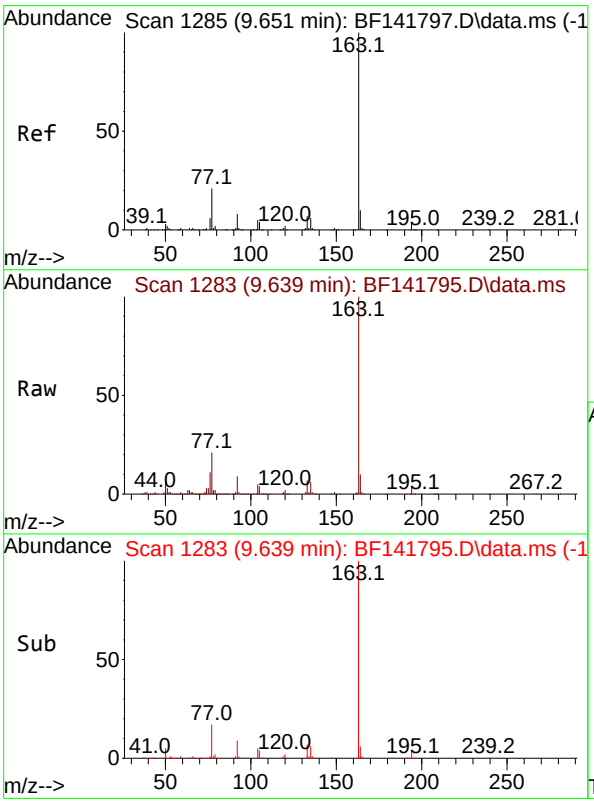
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 19.9 | 16.6 | 24.8 |
| 153 | 13.7 | 11.2 | 16.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

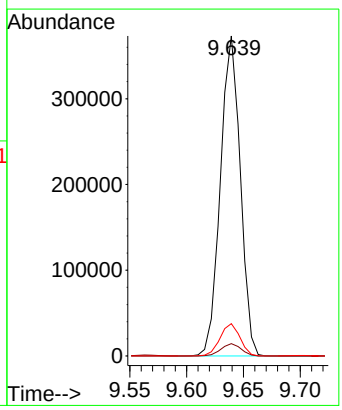
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

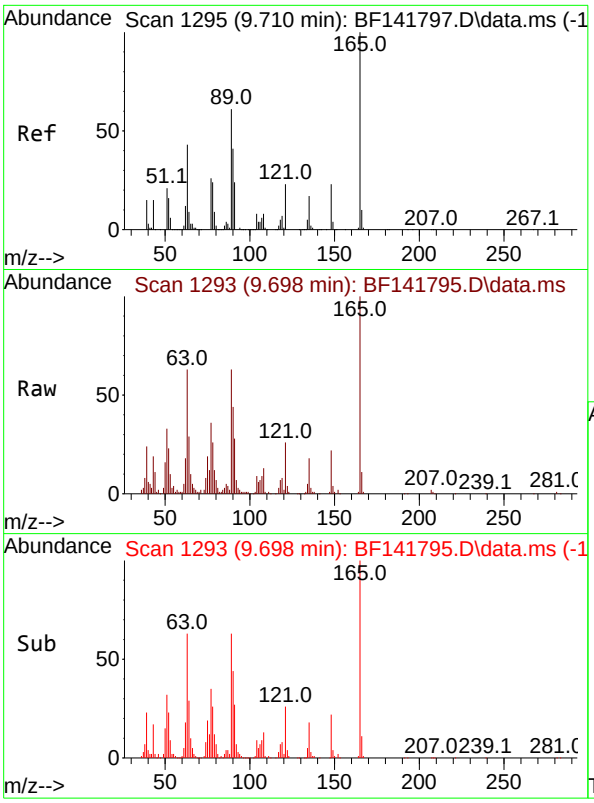



#50
Dimethylphthalate
Concen: 10.491 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:163 Resp: 455190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.8 | 3.1 | 4.7 |
| 164 | 10.1 | 8.4 | 12.6 |






#51
2,6-Dinitrotoluene
Concen: 9.588 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

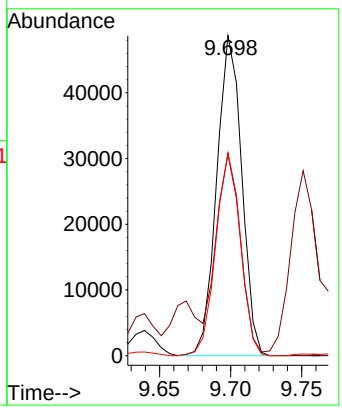
Tgt Ion:165 Resp: 5961

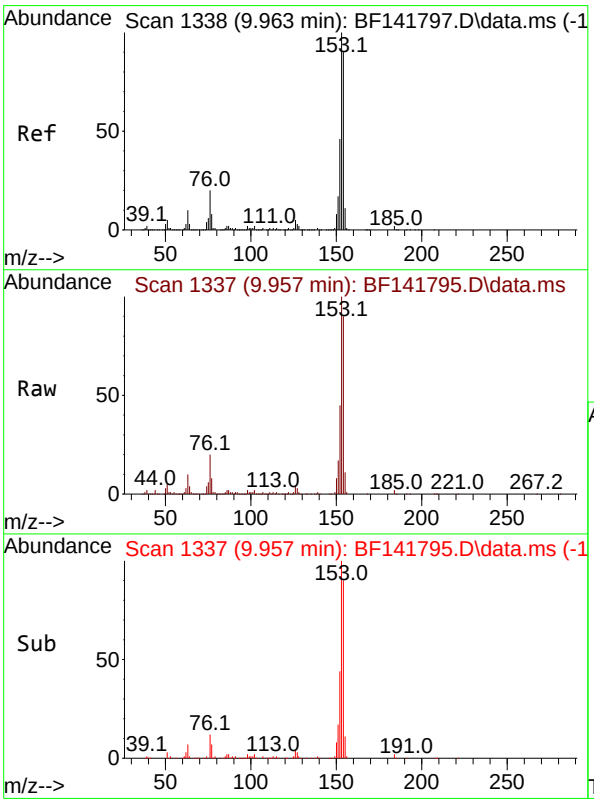
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 62.9 | 49.5 | 74.3 |
| 89 | 63.4 | 49.0 | 73.4 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

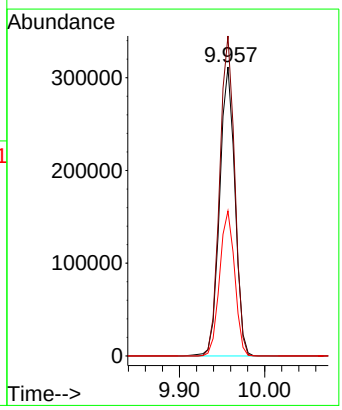


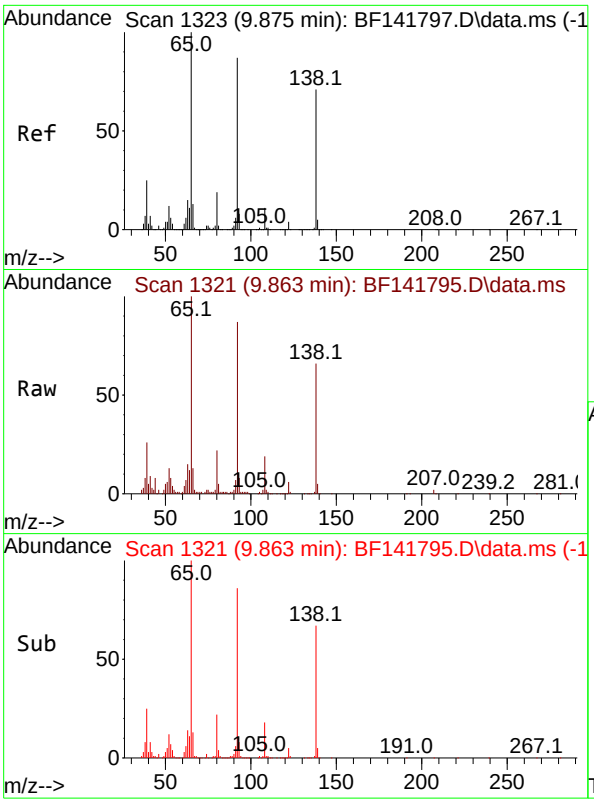




#52
Acenaphthene
Concen: 10.568 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:154 Resp: 389154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 110.7 | 88.7 | 133.1 |
| 152 | 50.2 | 40.9 | 61.3 |






#53
3-Nitroaniline
Concen: 9.606 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

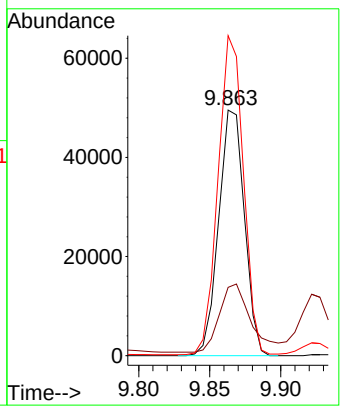
Tgt Ion:138 Resp: 6256

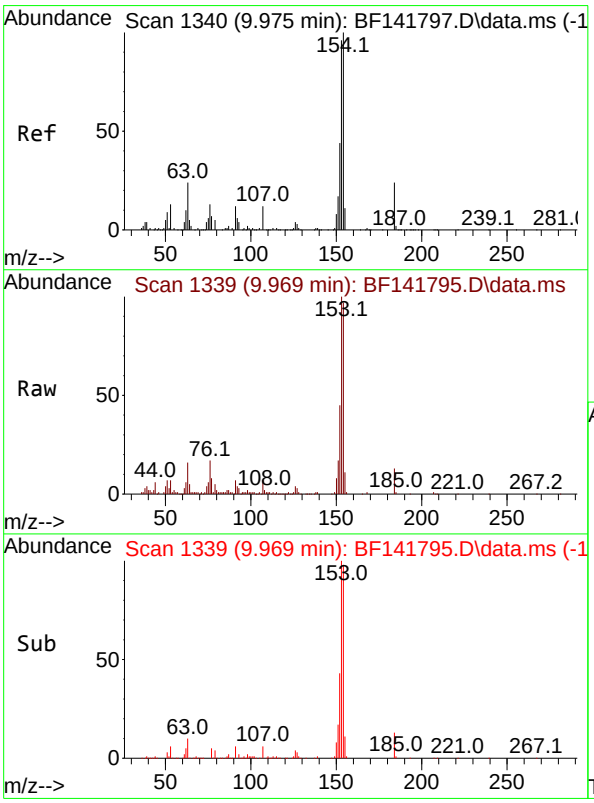
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 27.8 | 12.7 | 19.1# |
| 92 | 130.3 | 97.9 | 146.9 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

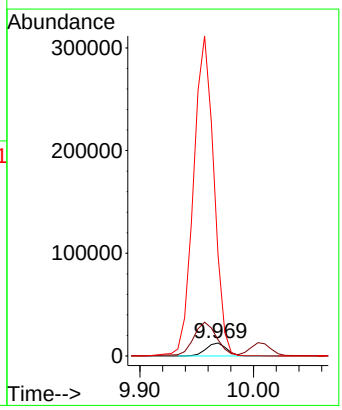


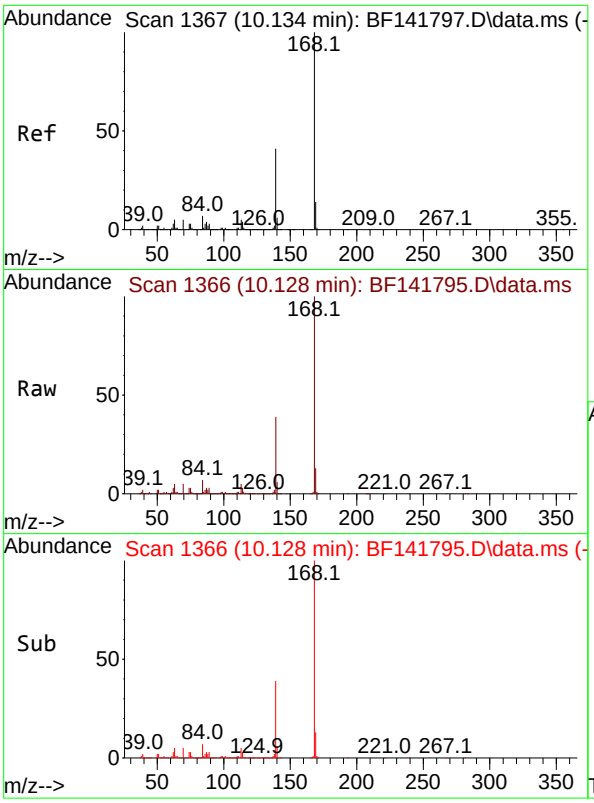




#54
2,4-Dinitrophenol
Concen: 10.881 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:184 Resp: 15803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 124.5 | 79.0 | 118.6# |
| 154 | 775.6 | 335.8 | 503.8# |

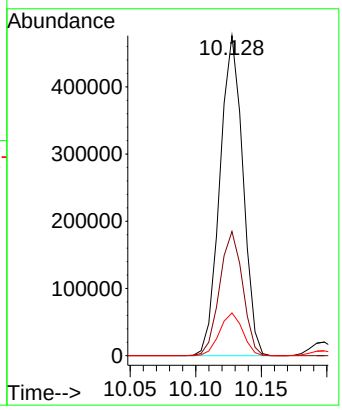





#55
Dibenzofuran
Concen: 10.843 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:168 Resp: 58112

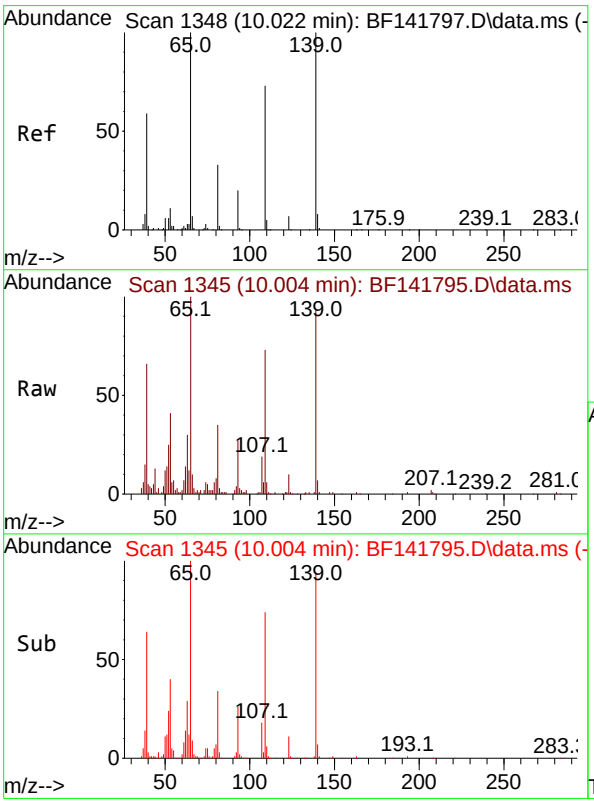
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 38.8 | 32.9 | 49.3 |
| 169 | 13.4 | 11.1 | 16.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

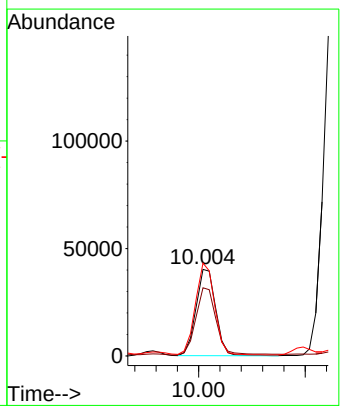
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

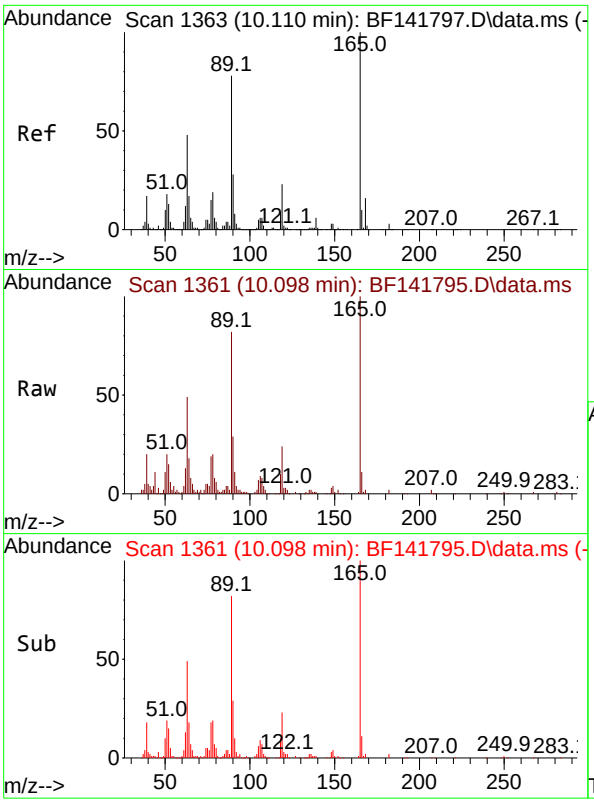



#56
4-Nitrophenol
Concen: 8.022 ng
RT: 10.004 min Scan# 1345
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:139 Resp: 51406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 78.6 | 53.4 | 93.4 |
| 65 | 107.2 | 82.1 | 122.1 |

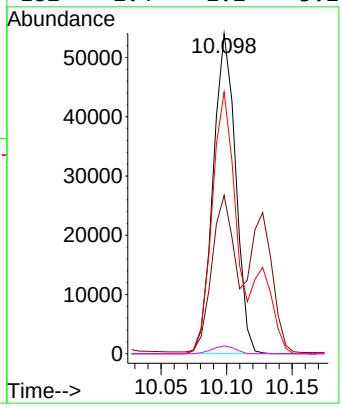





#57
2,4-Dinitrotoluene
Concen: 9.401 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:165 Resp: 6429

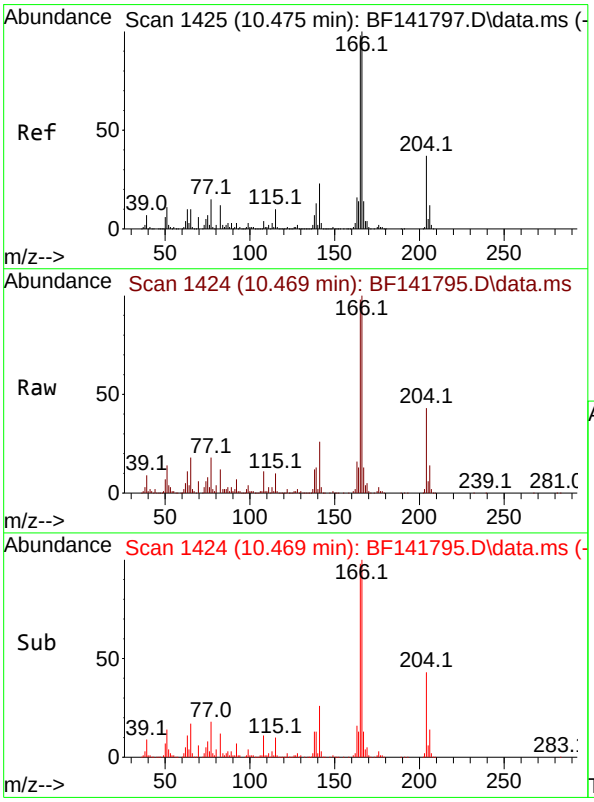
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 49.5 | 38.8 | 58.2 |
| 89 | 81.7 | 62.6 | 94.0 |
| 182 | 2.4 | 2.2 | 3.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

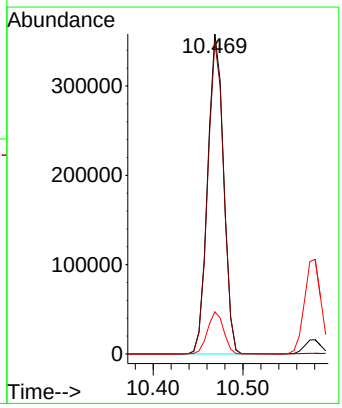
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

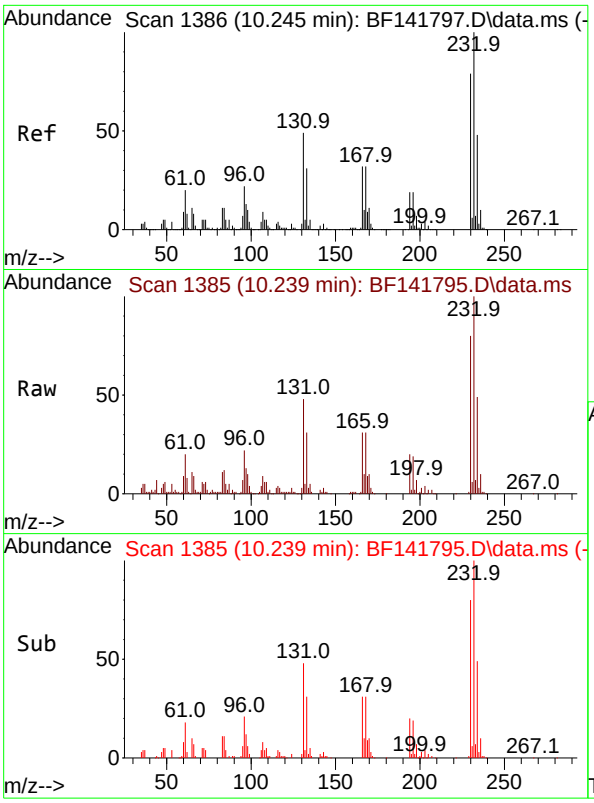



#58
Fluorene
Concen: 11.027 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:166 Resp: 442697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.5 | 78.6 | 117.8 |
| 167 | 13.2 | 11.0 | 16.4 |

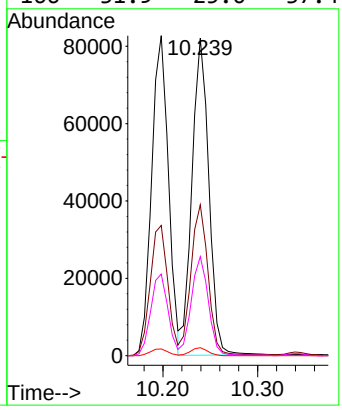





#59
2,3,4,6-Tetrachlorophenol
Concen: 9.772 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:232 Resp: 10172

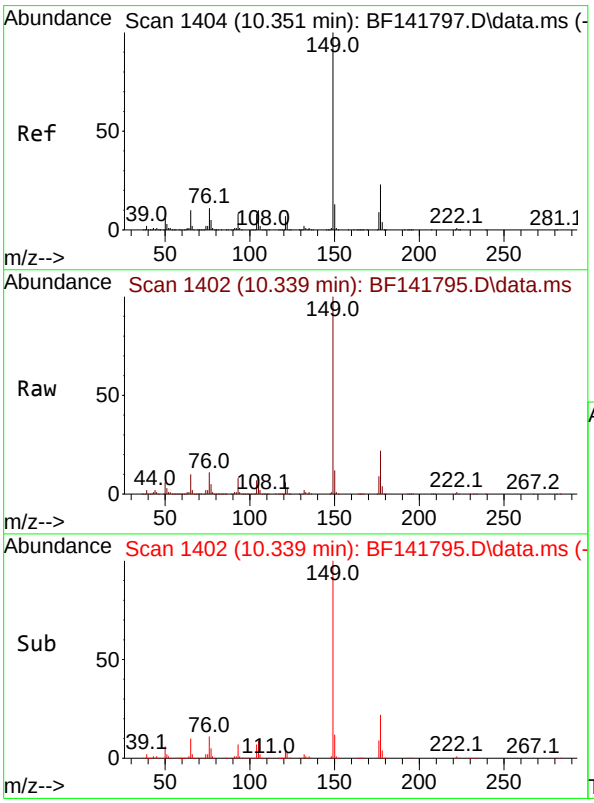
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 47.7 | 37.8 | 56.8 |
| 130 | 2.6 | 2.0 | 3.0 |
| 166 | 31.9 | 25.0 | 37.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

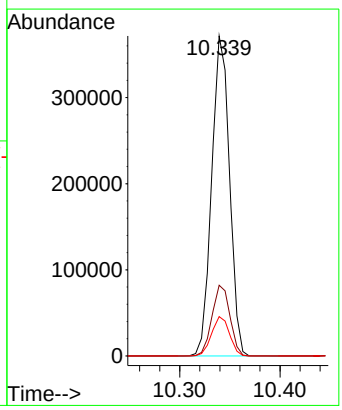
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

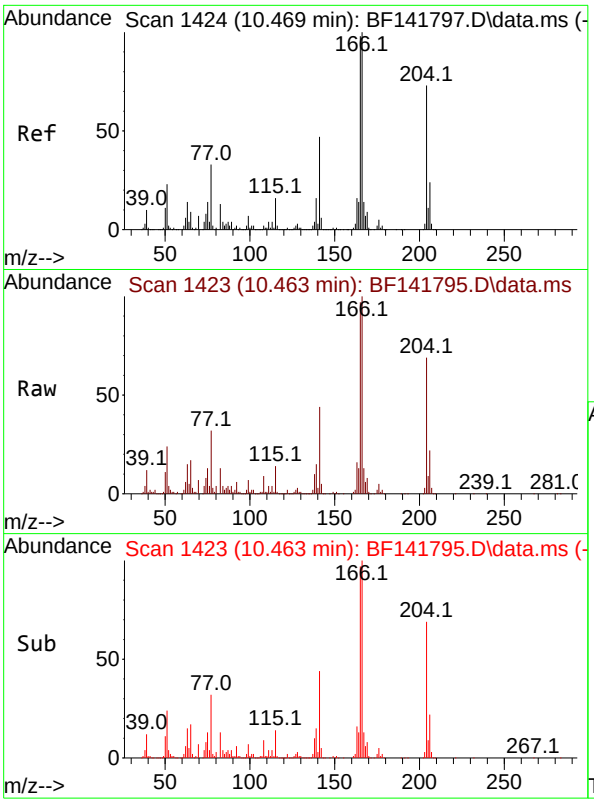



#60
Diethylphthalate
Concen: 10.520 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:149 Resp: 457600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.1 | 18.3 | 27.5 |
| 150 | 12.3 | 10.3 | 15.5 |






#61
4-Chlorophenyl-phenylether
Concen: 10.703 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

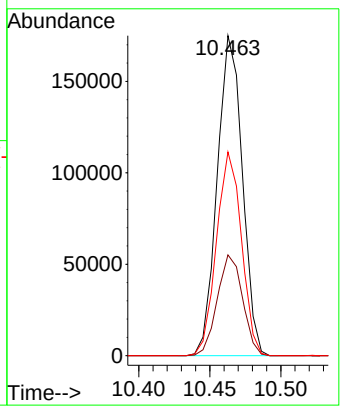
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

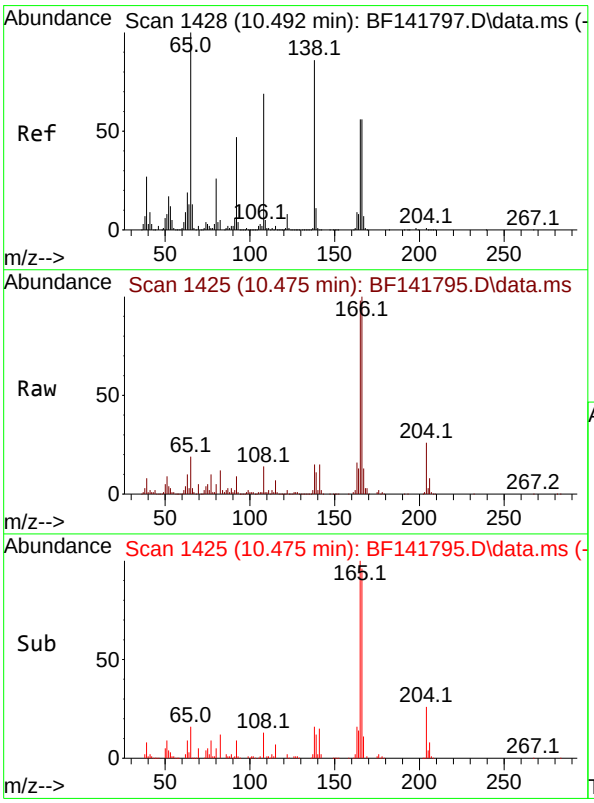
Tgt Ion:204 Resp: 21528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 31.5 | 26.2 | 39.4 |
| 141 | 63.7 | 51.7 | 77.5 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

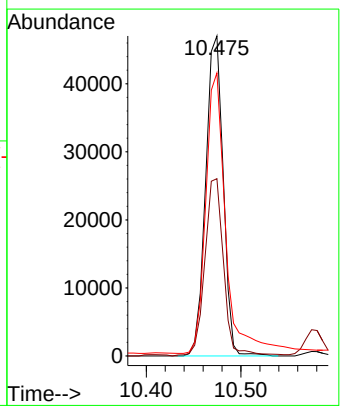


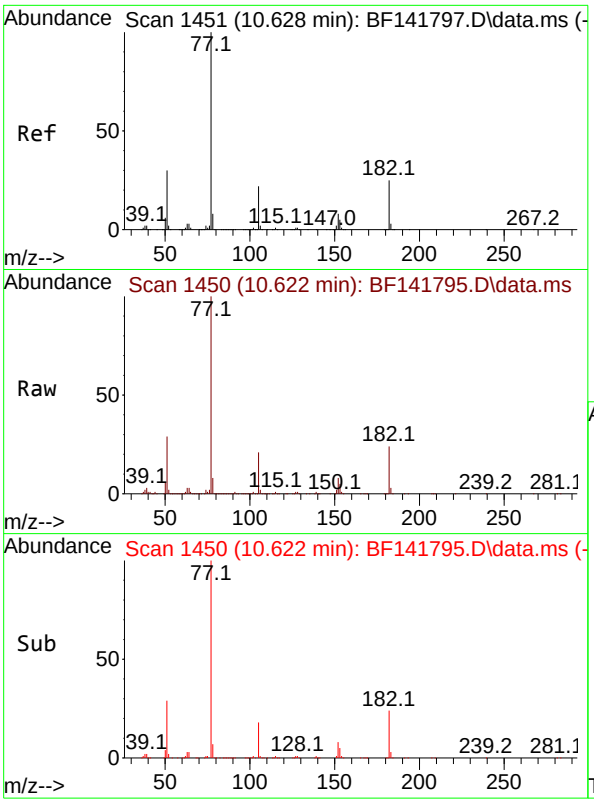




#62
4-Nitroaniline
Concen: 8.172 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:138 Resp: 60552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 55.4 | 34.9 | 74.9 |
| 108 | 88.5 | 59.6 | 99.6 |

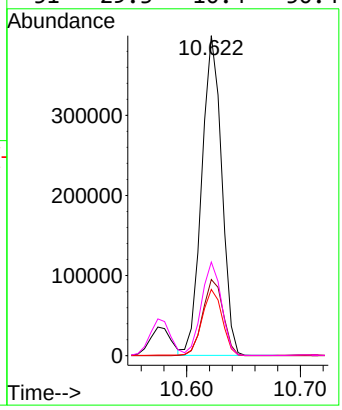





#63
Azobenzene
Concen: 10.631 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 77 Resp: 48687

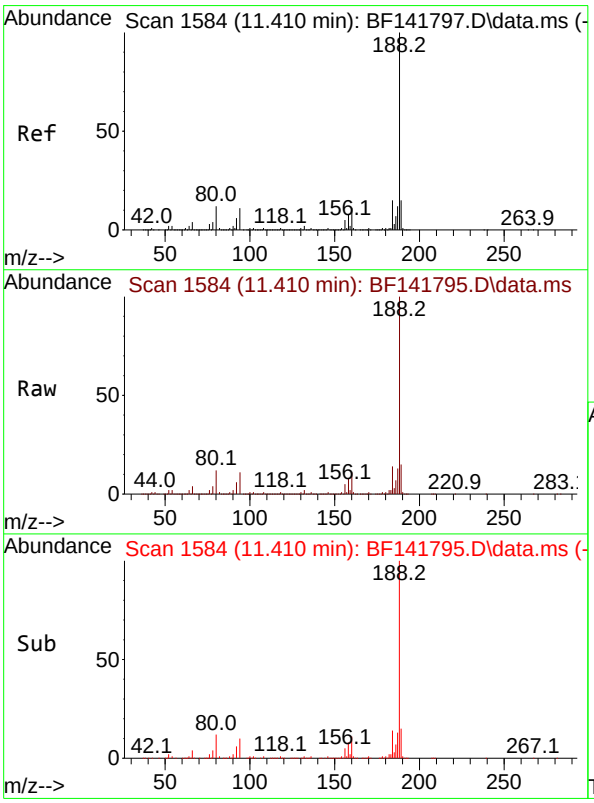
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 23.8 | 4.2 | 44.2 |
| 105 | 20.7 | 1.5 | 41.5 |
| 51 | 29.3 | 10.4 | 50.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

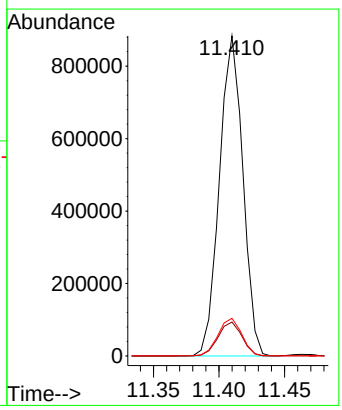
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

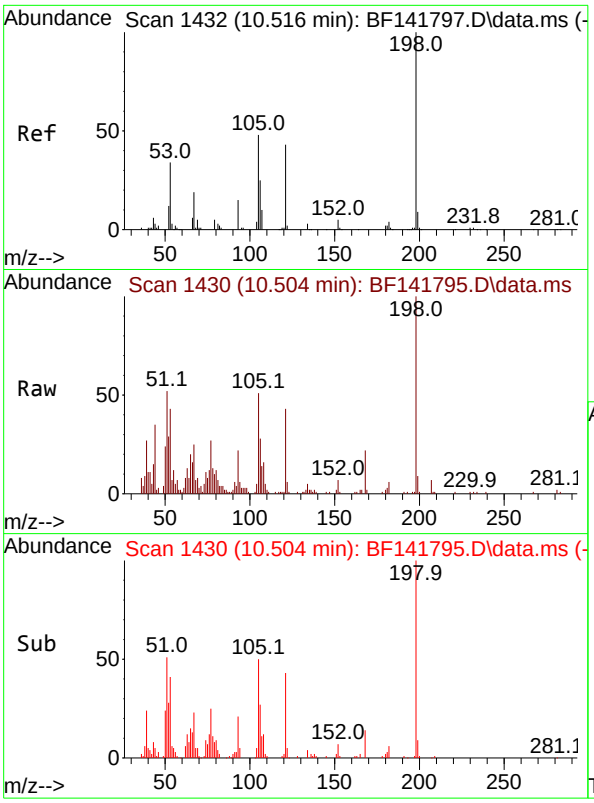



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:188 Resp: 1098842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.6 | 8.9 | 13.3 |
| 80 | 11.7 | 9.7 | 14.5 |

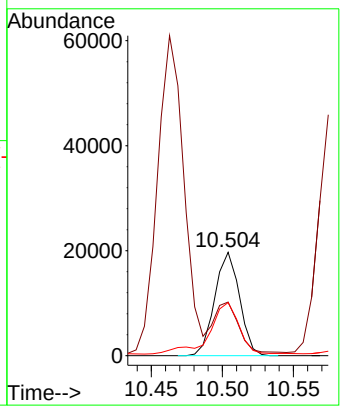





#65
4,6-Dinitro-2-methylphenol
Concen: 11.957 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:198 Resp: 2386

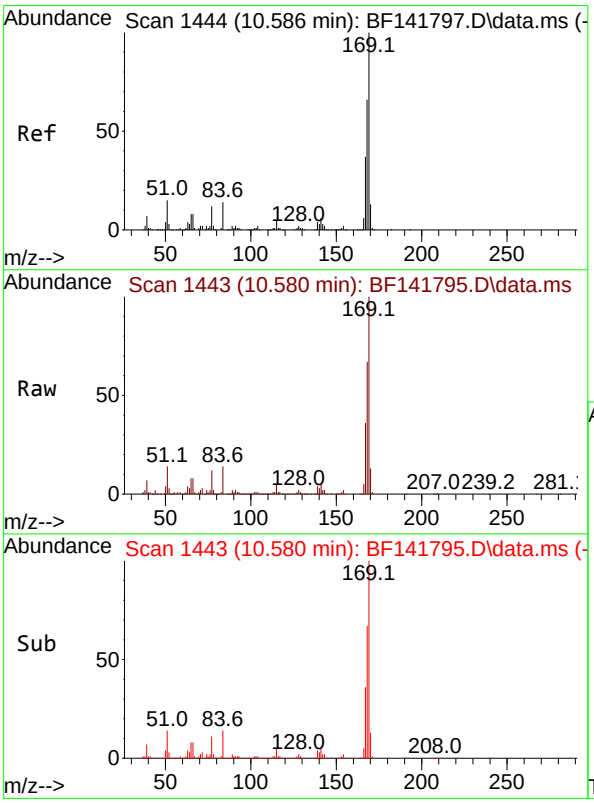
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 51.8 | 32.1 | 72.1 |
| 105 | 51.4 | 28.5 | 68.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

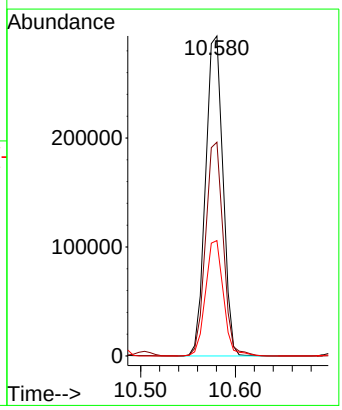
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

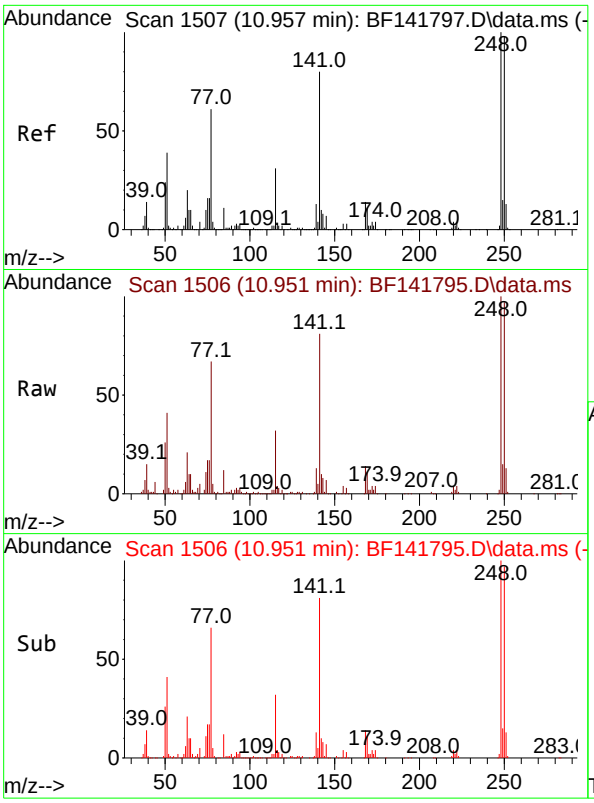



#66
n-Nitrosodiphenylamine
Concen: 10.369 ng
RT: 10.580 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:169 Resp: 374119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.8 | 53.0 | 79.6 |
| 167 | 36.1 | 29.3 | 43.9 |






#67
4-Bromophenyl-phenylether
Concen: 10.165 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

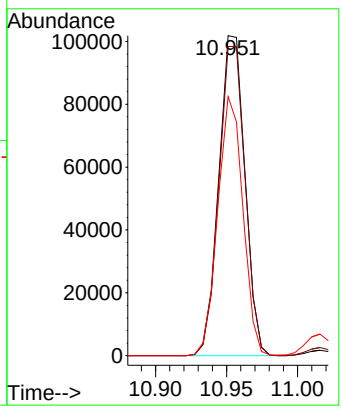
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

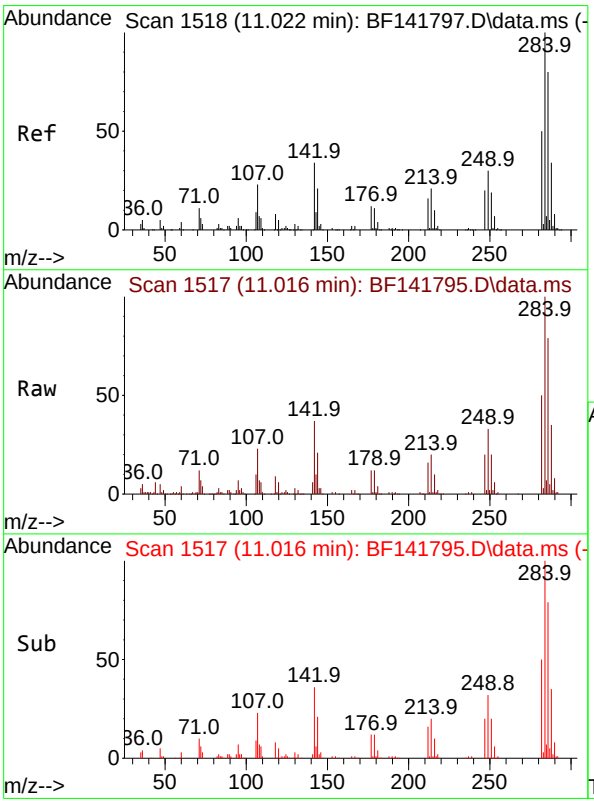
Tgt Ion:248 Resp: 13046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 96.6 | 78.1 | 117.1 |
| 141 | 81.0 | 64.3 | 96.5 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

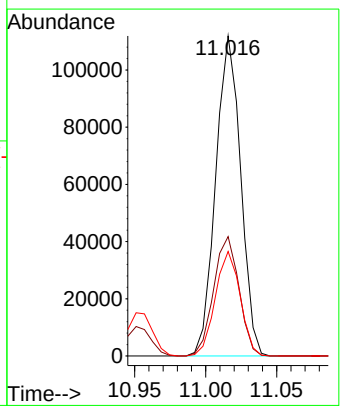


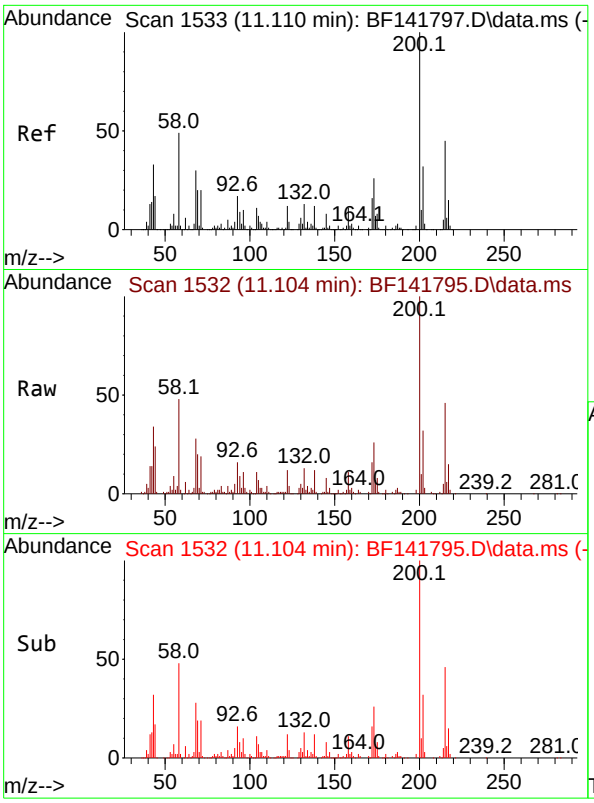




#68
Hexachlorobenzene
Concen: 10.081 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:284 Resp: 136626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.3 | 28.2 | 42.2 |
| 249 | 32.7 | 25.5 | 38.3 |

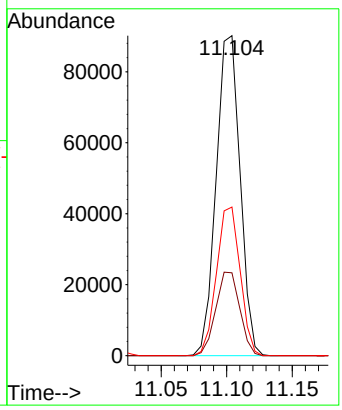





#69
Atrazine
Concen: 11.517 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:200 Resp: 11427

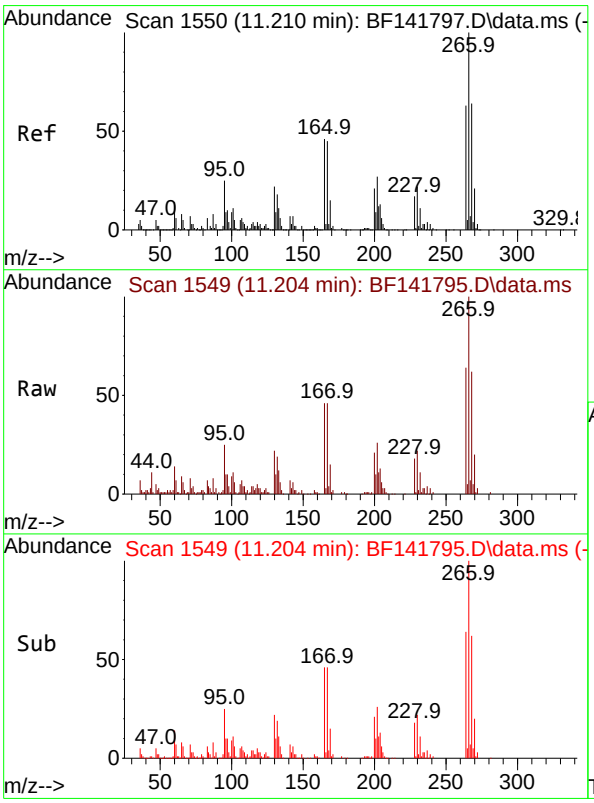
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.9 | 5.6 | 45.6 |
| 215 | 46.5 | 25.3 | 65.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

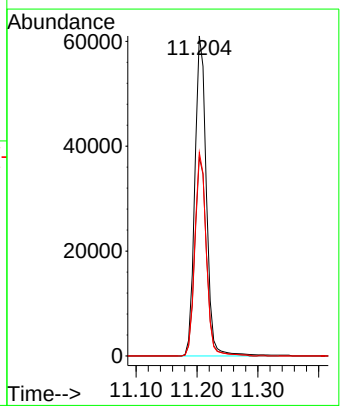
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

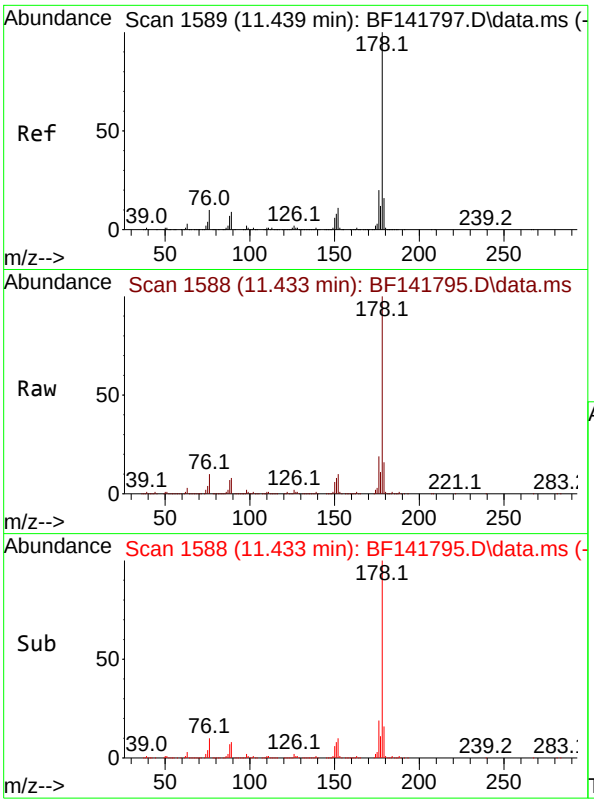



#70
Pentachlorophenol
Concen: 9.334 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:266 Resp: 80231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 62.2 | 50.9 | 76.3 |
| 264 | 63.6 | 50.2 | 75.4 |

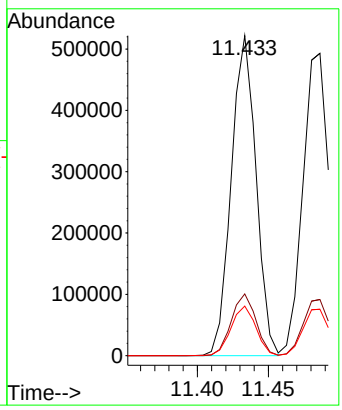





#71
Phenanthrene
Concen: 10.764 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:178 Resp: 63269

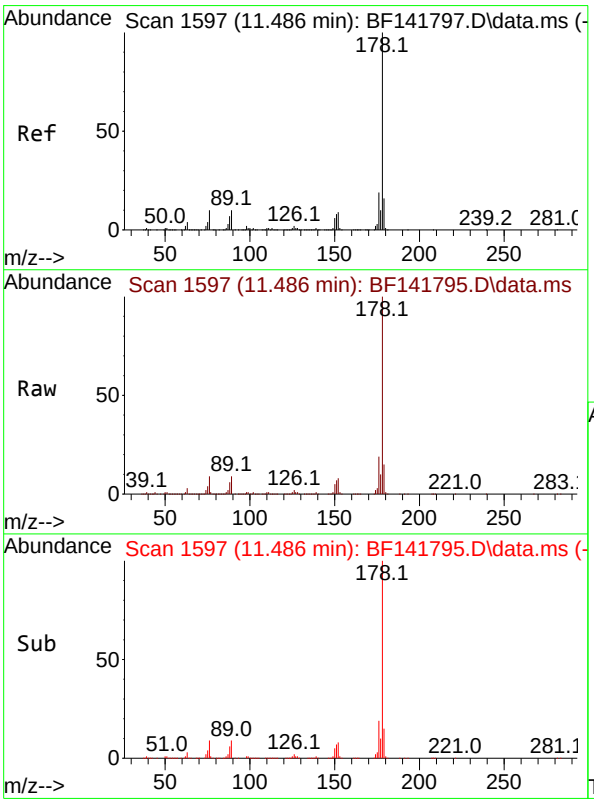
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.3 | 16.0 | 24.0 |
| 179 | 15.5 | 12.6 | 19.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

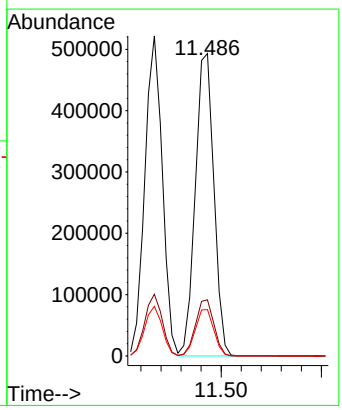
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

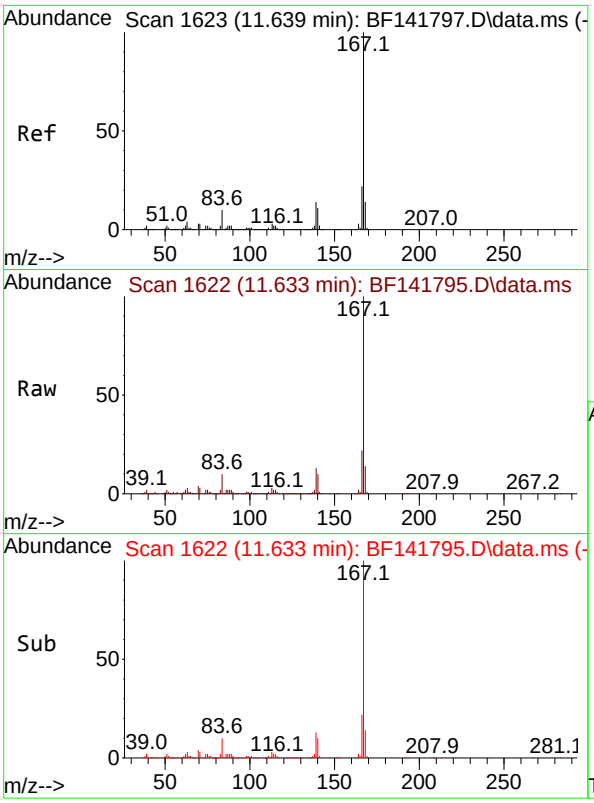



#72
Anthracene
Concen: 10.785 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:178 Resp: 635314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.6 | 15.4 | 23.0 |
| 179 | 15.4 | 12.8 | 19.2 |

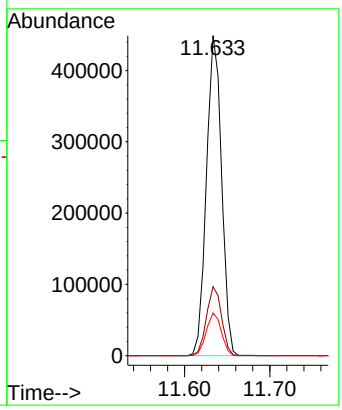





#73
Carbazole
Concen: 10.667 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:167 Resp: 55490

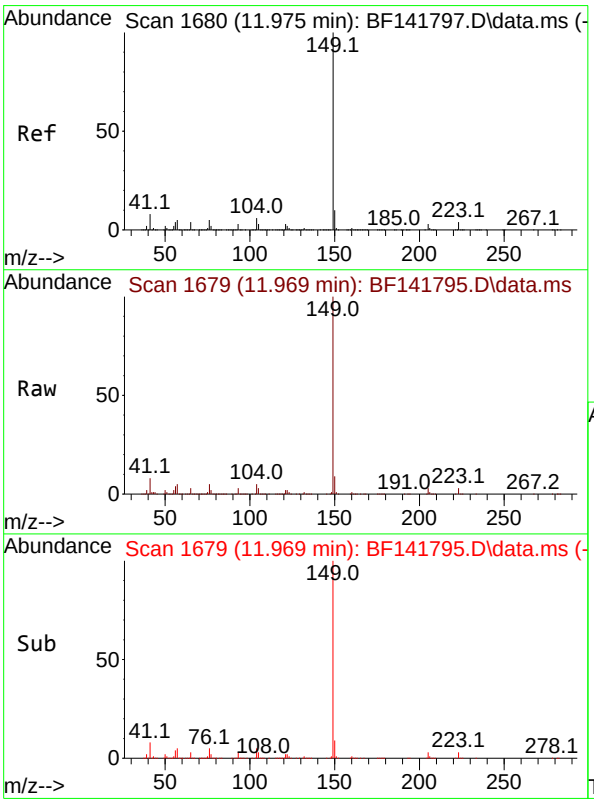
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.6 | 17.5 | 26.3 |
| 139 | 13.3 | 11.3 | 16.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

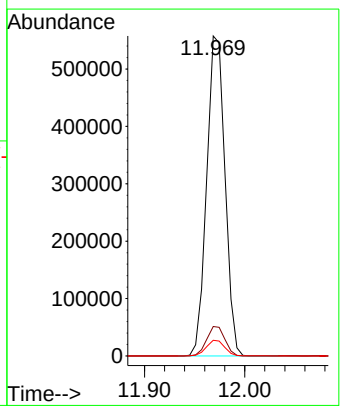
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

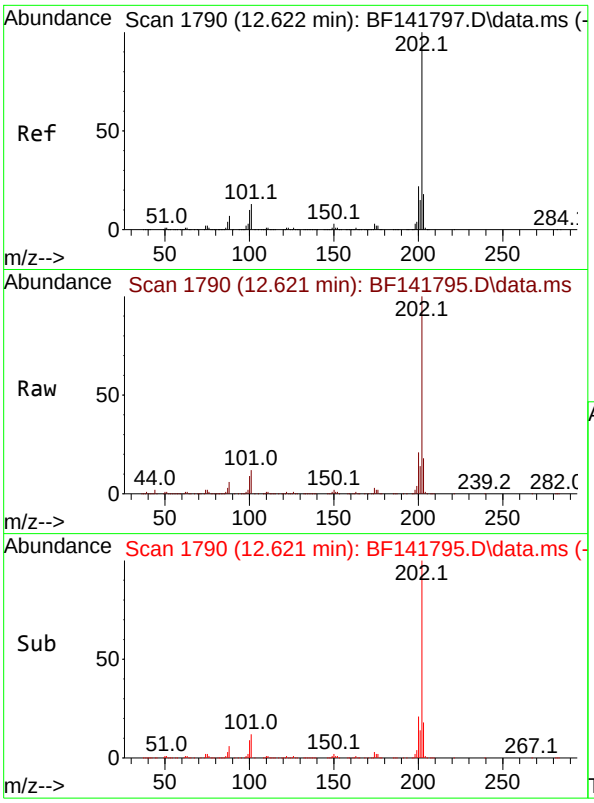



#74
Di-n-butylphthalate
Concen: 10.756 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:149 Resp: 709254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.2 | 7.7 | 11.5 |
| 104 | 4.9 | 4.4 | 6.6 |

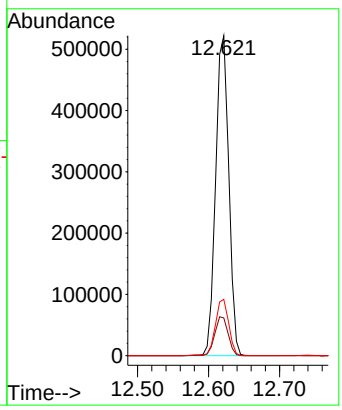





#75
Fluoranthene
Concen: 11.098 ng
RT: 12.621 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:202 Resp: 66837

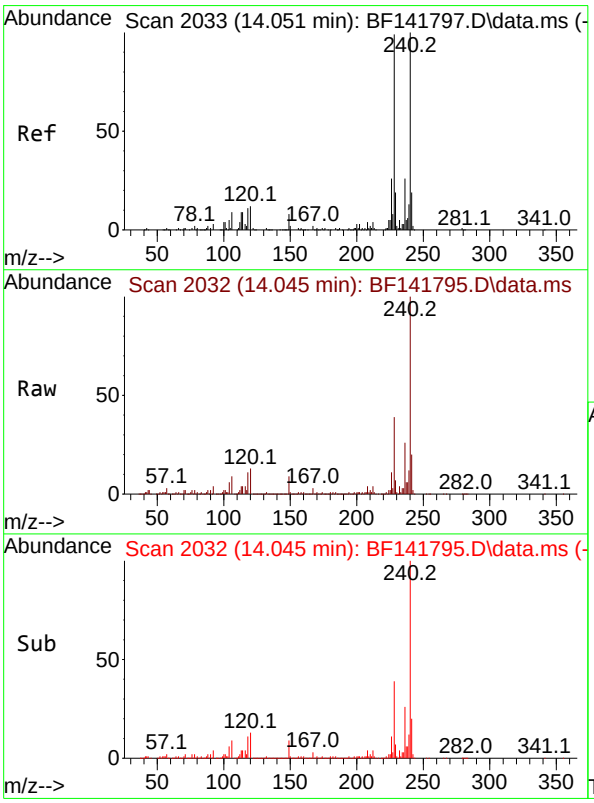
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.8 | 0.0 | 32.8 |
| 203 | 17.6 | 0.0 | 38.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

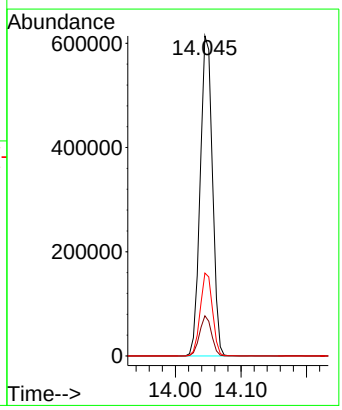
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

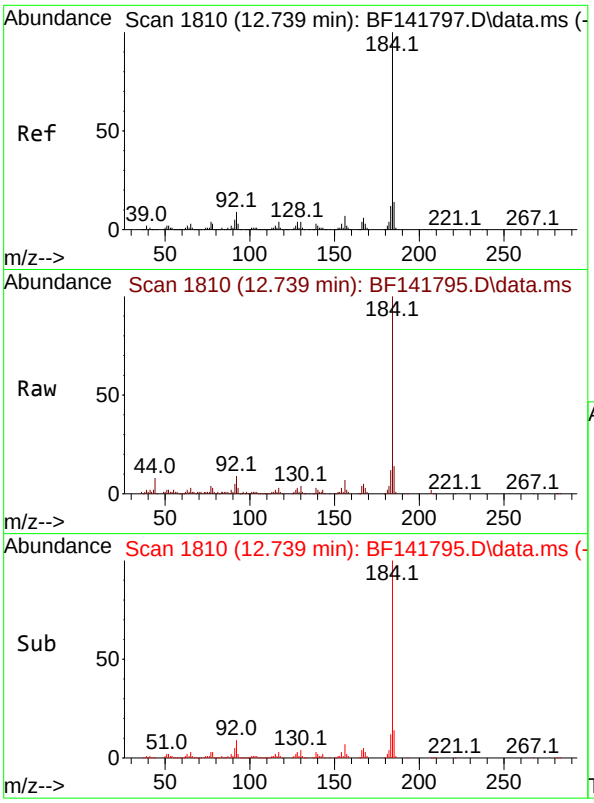



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:240 Resp: 800194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.6 | 9.7 | 14.5 |
| 236 | 25.9 | 21.0 | 31.4 |

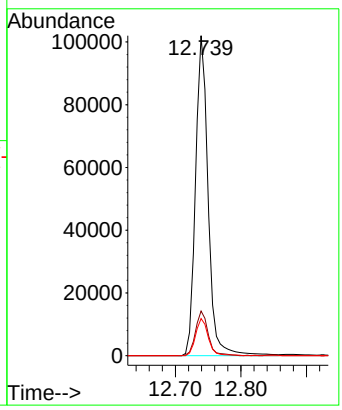





#77
Benzidine
Concen: 13.588 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:184 Resp: 13685

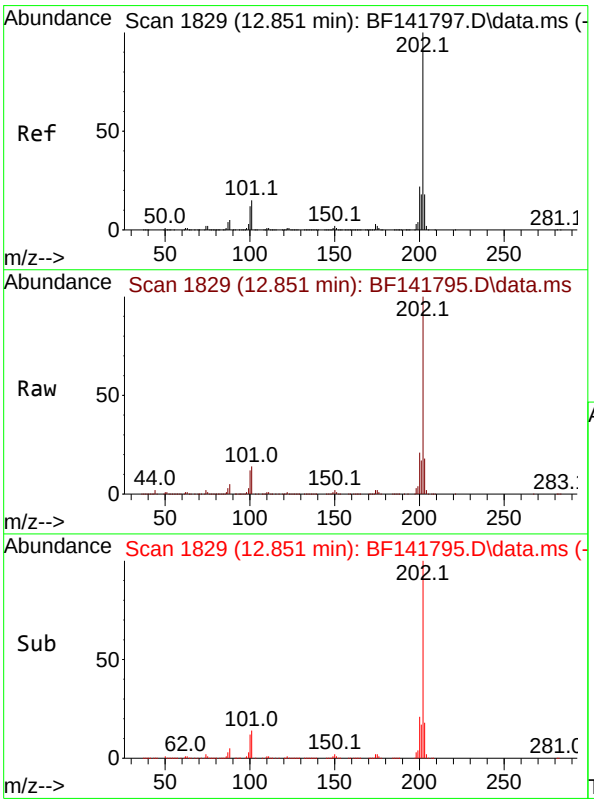
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.0 | 11.6 | 17.4 |
| 183 | 11.6 | 9.4 | 14.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

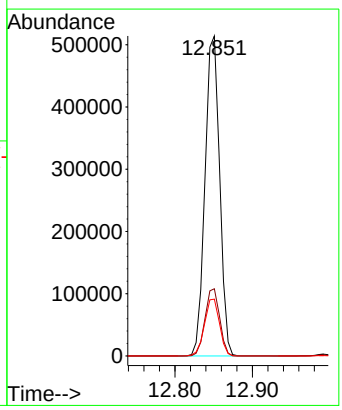
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

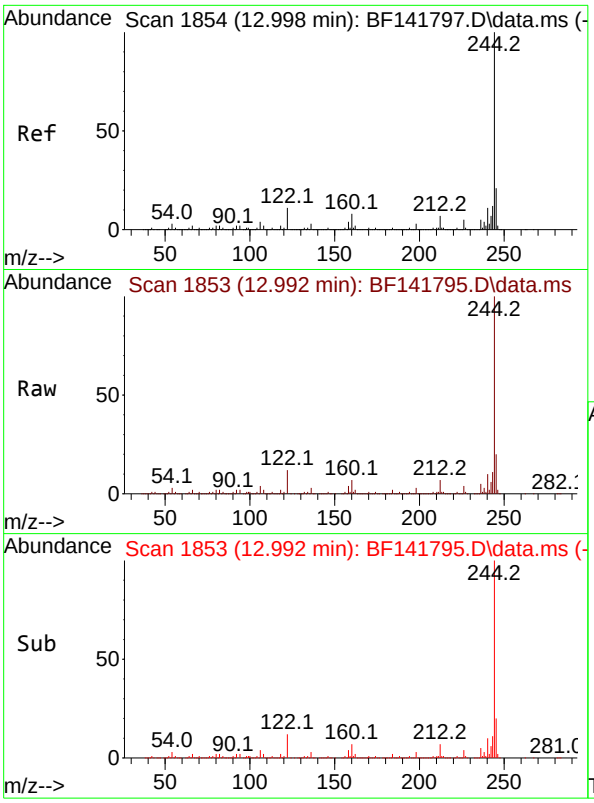



#78
Pyrene
Concen: 9.740 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:202 Resp: 674877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.0 | 17.4 | 26.0 |
| 203 | 17.7 | 14.6 | 22.0 |

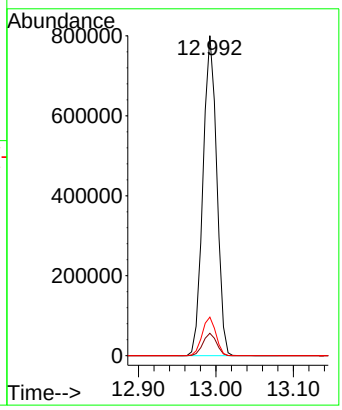





#79
Terphenyl-d14
Concen: 19.952 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:244 Resp: 98678

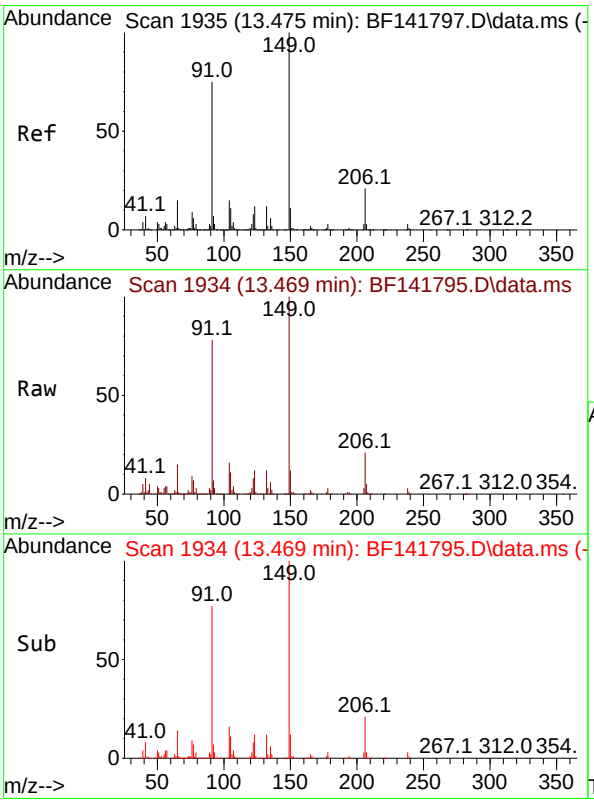
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.0 | 6.0 | 9.0 |
| 122 | 12.1 | 9.0 | 13.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

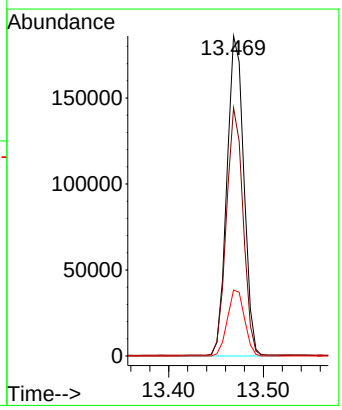
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

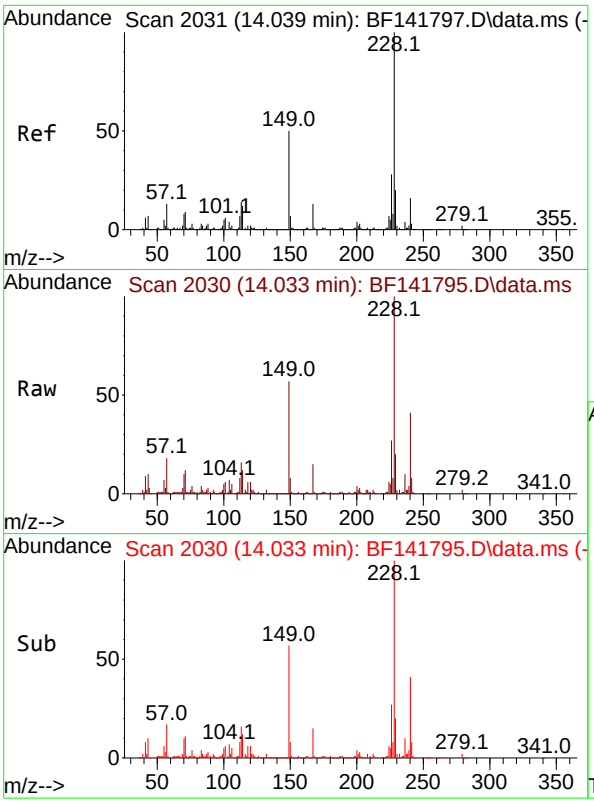



#80
Butylbenzylphthalate
Concen: 9.194 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:149 Resp: 231474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 77.5 | 60.1 | 90.1 |
| 206 | 20.6 | 16.8 | 25.2 |






#81
Benzo(a)anthracene
Concen: 10.496 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

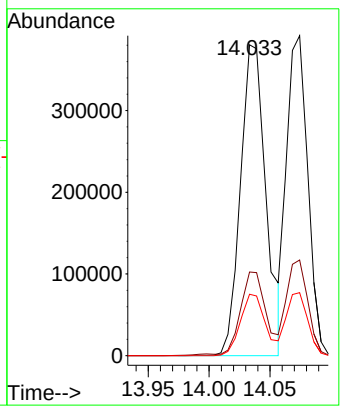
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

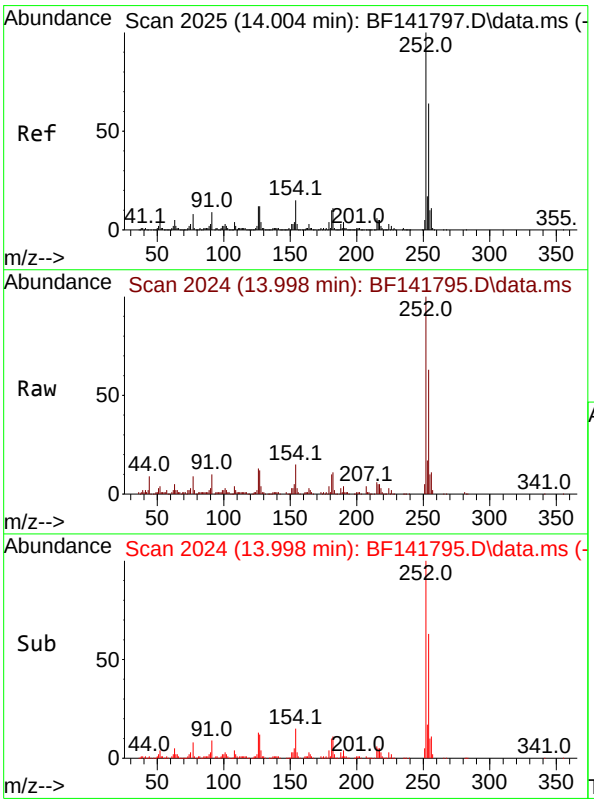
Tgt Ion:228 Resp: 55477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 26.9 | 22.1 | 33.1 |
| 229 | 19.8 | 16.1 | 24.1 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

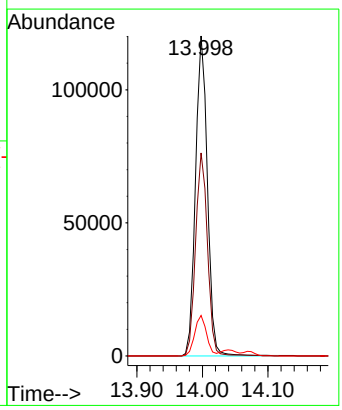


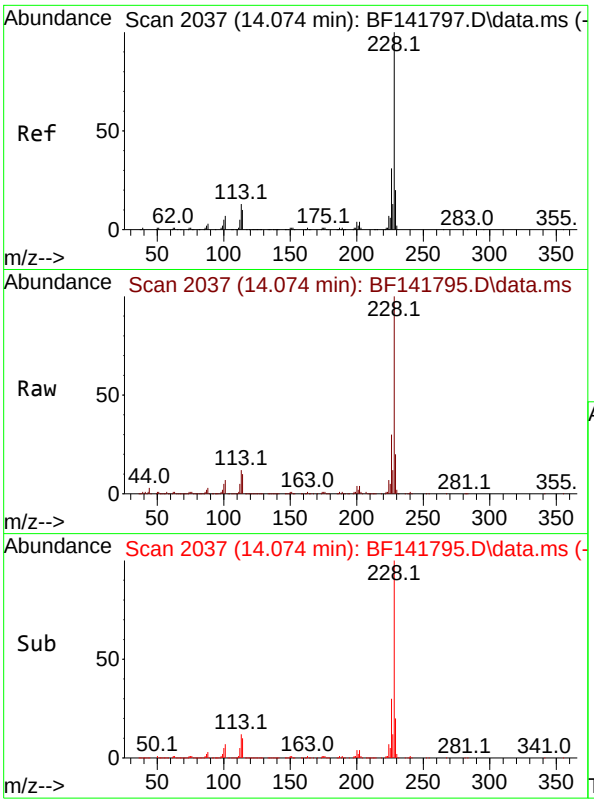




#82
3,3'-Dichlorobenzidine
Concen: 10.033 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:252 Resp: 152147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 63.5 | 51.4 | 77.0 |
| 126 | 12.7 | 9.8 | 14.6 |

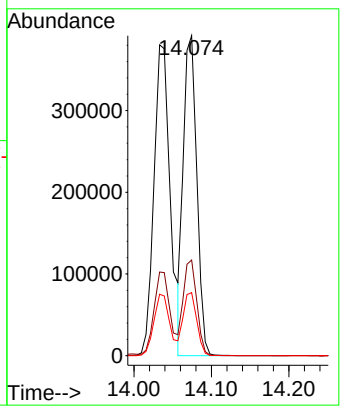





#83
Chrysene
Concen: 9.721 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:228 Resp: 47361

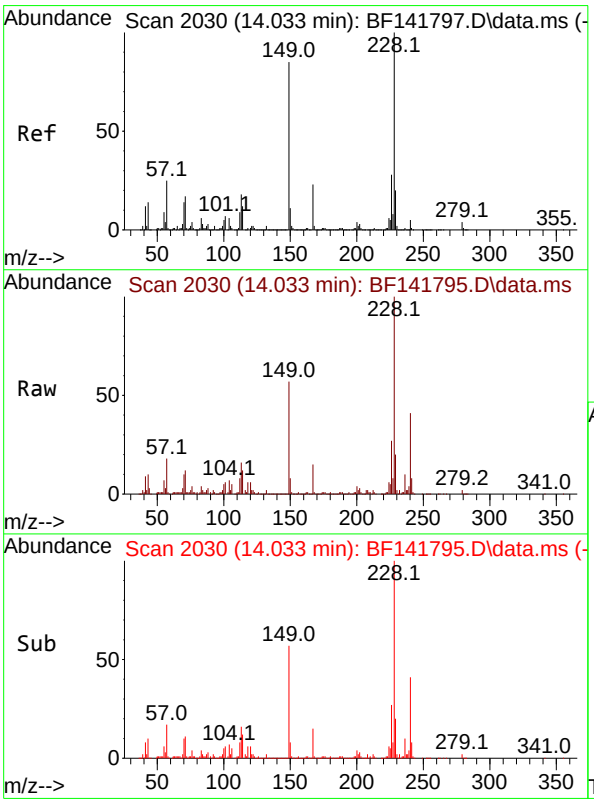
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 29.9 | 24.6 | 37.0 |
| 229 | 19.7 | 16.1 | 24.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

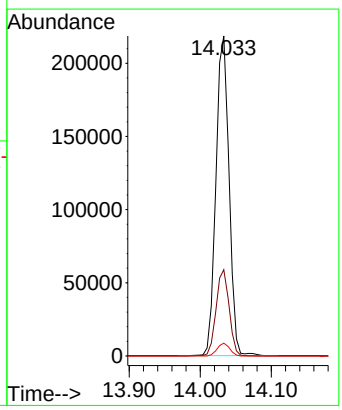
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

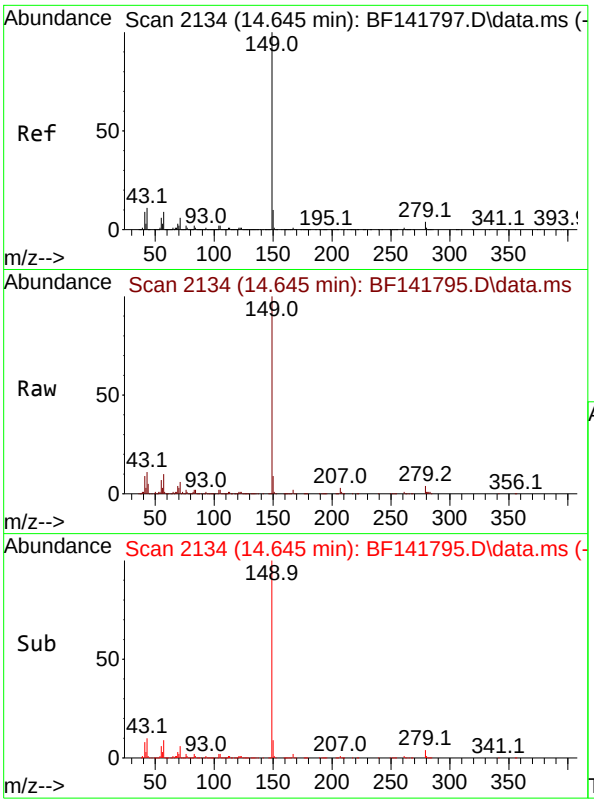



#84
Bis(2-ethylhexyl)phthalate
Concen: 8.884 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:149 Resp: 278482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.9 | 21.2 | 31.8 |
| 279 | 4.0 | 3.3 | 4.9 |






#85
Di-n-octyl phthalate
Concen: 7.857 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

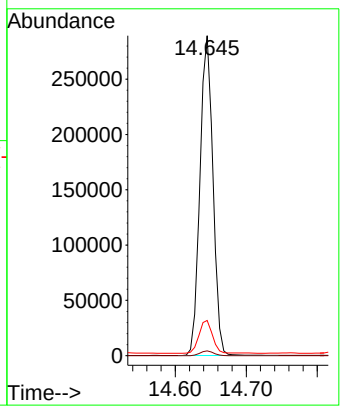
Tgt Ion:149 Resp: 36871

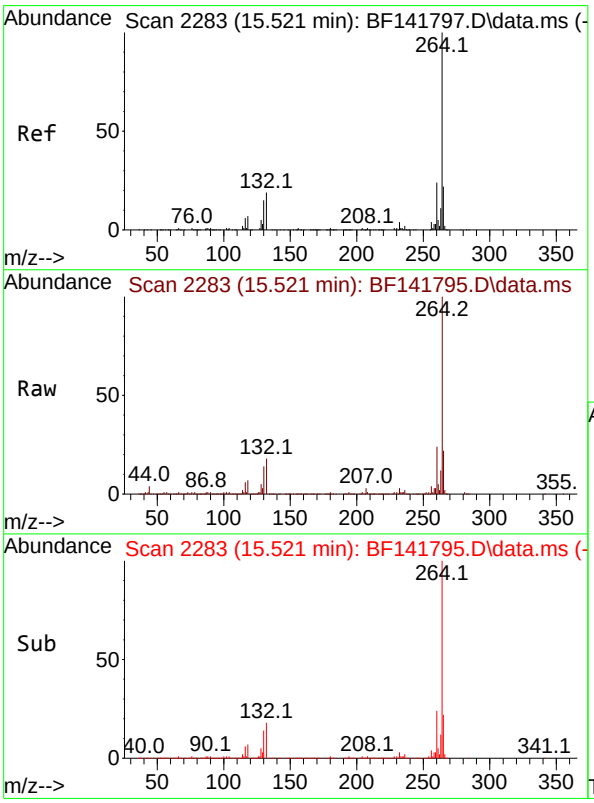
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.5 | 1.2 | 1.8 |
| 43 | 10.8 | 8.6 | 12.8 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

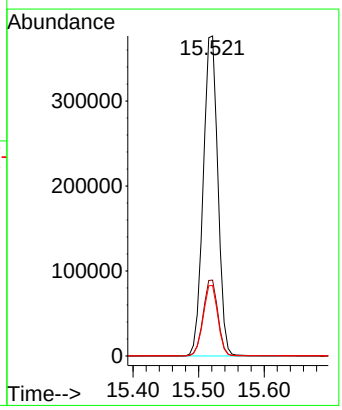


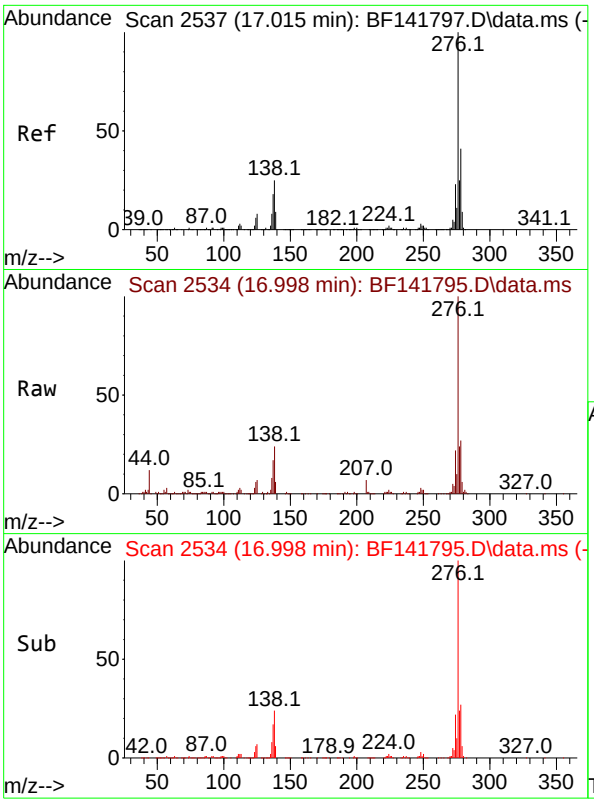




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:264 Resp: 586419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.7 | 18.9 | 28.3 |
| 265 | 22.0 | 17.4 | 26.0 |

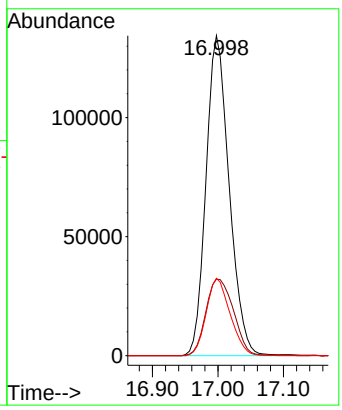





#87
Indeno(1,2,3-cd)pyrene
Concen: 8.838 ng
RT: 16.998 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:276 Resp: 33001

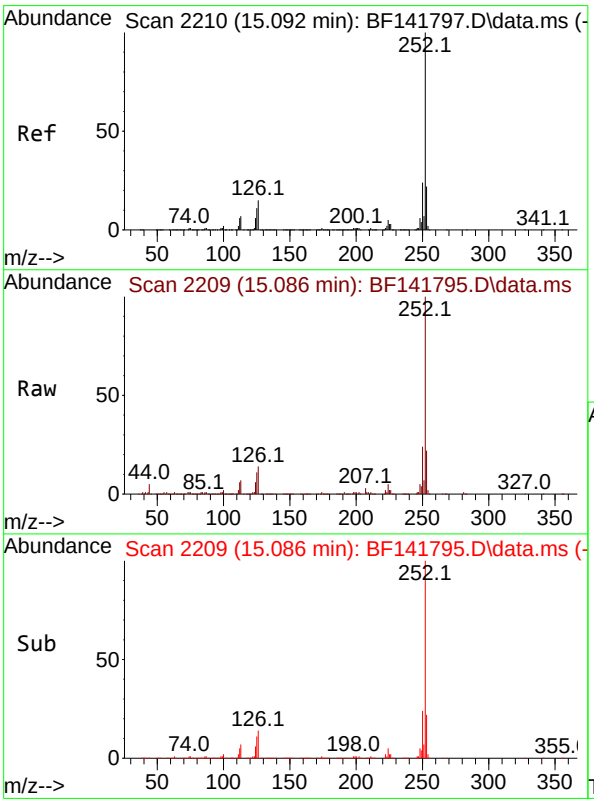
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.6 | 22.5 | 33.7 |
| 277 | 25.0 | 20.3 | 30.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

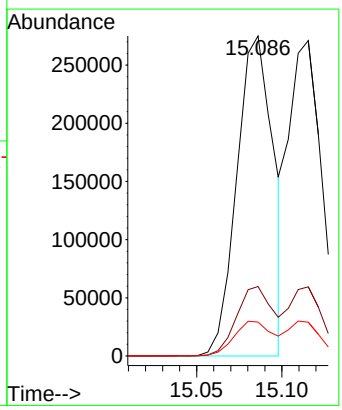
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

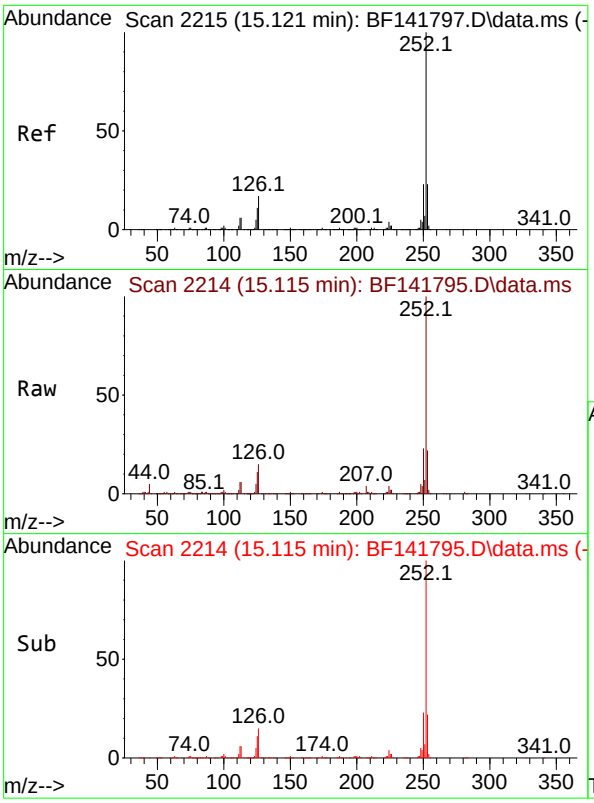



#88
Benzo(b)fluoranthene
Concen: 10.250 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:252 Resp: 409420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 17.7 | 26.5 |
| 125 | 10.6 | 8.6 | 13.0 |

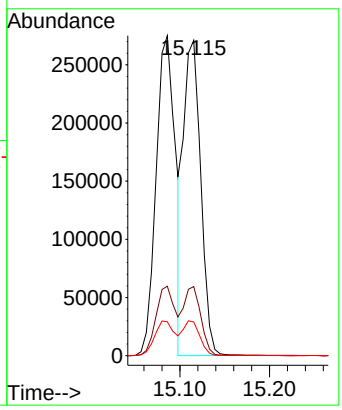





#89
Benzo(k)fluoranthene
Concen: 10.707 ng
RT: 15.115 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:252 Resp: 36351

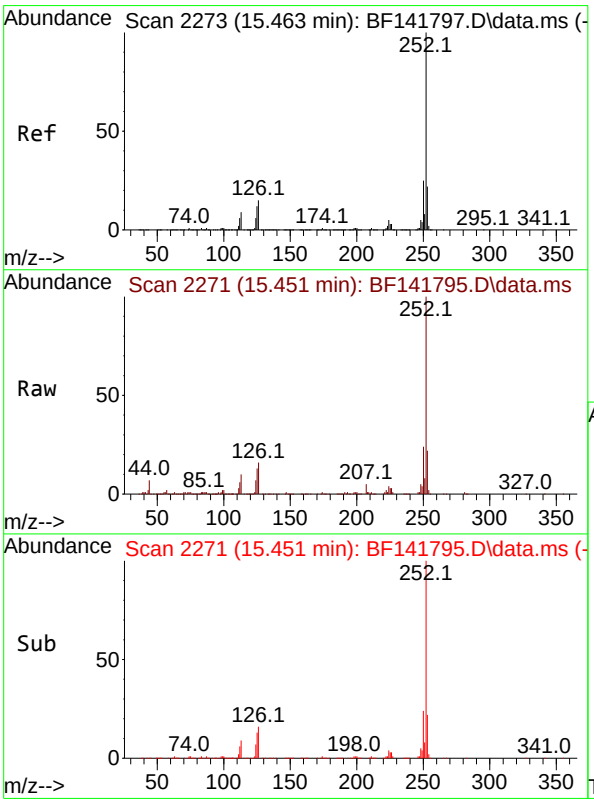
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 17.8 | 26.8 |
| 125 | 10.7 | 8.8 | 13.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

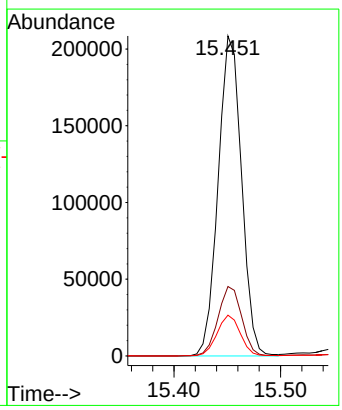
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

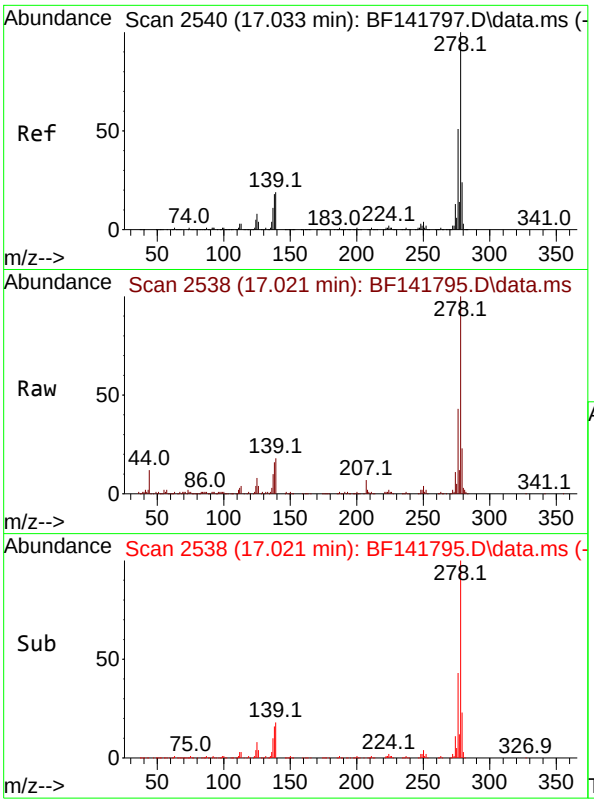



#90
Benzo(a)pyrene
Concen: 9.913 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:252 Resp: 317564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.7 | 17.5 | 26.3 |
| 125 | 12.8 | 9.4 | 14.2 |

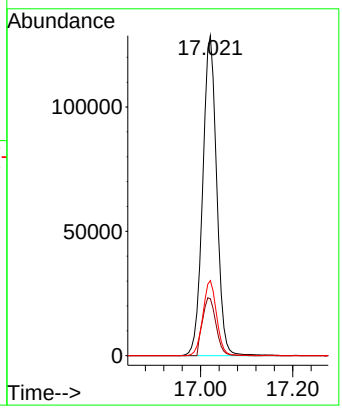





#91
Dibenzo(a,h)anthracene
Concen: 8.954 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:278 Resp: 27291

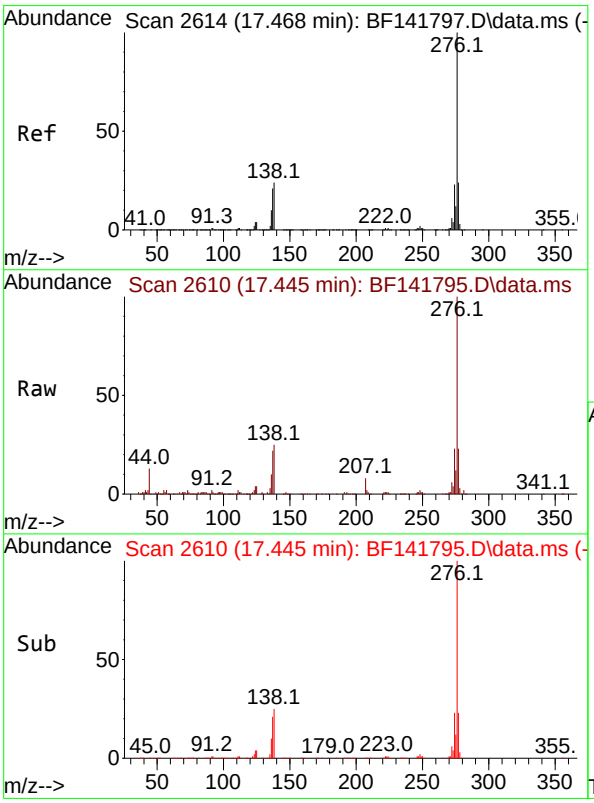
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.8 | 14.9 | 22.3 |
| 279 | 23.4 | 19.3 | 28.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC010

**Manual Integrations**
**APPROVED**

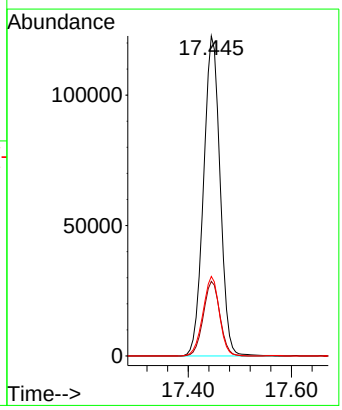
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025




#92
Benzo(g,h,i)perylene
Concen: 8.724 ng
RT: 17.445 min Scan# 2610
Delta R.T. -0.024 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:276 Resp: 272428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.3 | 19.4 | 29.0 |
| 138 | 24.9 | 19.3 | 28.9 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141796.D
Acq On : 27 Feb 2025 16:46
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:24:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.887 | 152 | 282585 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 1143337 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.928 | 164 | 626338 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.410 | 188 | 1041715 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.045 | 240 | 688606 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.521 | 264 | 539147 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.498 | 112 | 749674 | 42.367 | ng | | 0.00 |
| 7) Phenol-d6 | 6.498 | 99 | 976719 | 42.408 | ng | | -0.01 |
| 23) Nitrobenzene-d5 | 7.445 | 82 | 726034 | 40.590 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.710 | 330 | 235147 | 39.990 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.245 | 172 | 1686318 | 43.170 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.992 | 244 | 1785806 | 41.959 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.681 | 88 | 162630 | 20.255 | ng | | 100 |
| 3) Pyridine | 3.446 | 79 | 419991 | 21.024 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.387 | 42 | 194836 | 20.270 | ng | | 99 |
| 6) Aniline | 6.551 | 93 | 510018 | 21.416 | ng | | 99 |
| 8) 2-Chlorophenol | 6.669 | 128 | 406583 | 21.241 | ng | | 99 |
| 9) Benzaldehyde | 6.440 | 77 | 289246 | 21.590 | ng | | 99 |
| 10) Phenol | 6.516 | 94 | 527399m | 21.493 | ng | | |
| 11) bis(2-Chloroethyl)ether | 6.622 | 93 | 393290 | 20.964 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.828 | 146 | 435544 | 21.247 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.904 | 146 | 437770 | 21.195 | ng | | 100 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 416995 | 21.620 | ng | | 99 |
| 15) Benzyl Alcohol | 7.022 | 79 | 388176 | 21.089 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 607289 | 21.316 | ng | | 99 |
| 17) 2-Methylphenol | 7.128 | 107 | 329265 | 20.839 | ng | | 99 |
| 18) Hexachloroethane | 7.404 | 117 | 162363 | 21.002 | ng | | 98 |
| 19) n-Nitroso-di-n-propyla... | 7.293 | 70 | 316487 | 20.904 | ng | | 99 |
| 20) 3+4-Methylphenols | 7.281 | 107 | 425612 | 21.633 | ng | | 98 |
| 22) Acetophenone | 7.293 | 105 | 585913 | 21.041 | ng | # | 97 |
| 24) Nitrobenzene | 7.463 | 77 | 395521 | 20.649 | ng | | 97 |
| 25) Isophorone | 7.704 | 82 | 789349 | 20.541 | ng | | 99 |
| 26) 2-Nitrophenol | 7.781 | 139 | 132844 | 18.604 | ng | | 98 |
| 27) 2,4-Dimethylphenol | 7.810 | 122 | 292966 | 20.740 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.916 | 93 | 513944 | 20.966 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.016 | 162 | 338122 | 20.749 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 374188 | 20.955 | ng | | 99 |
| 31) Naphthalene | 8.192 | 128 | 1258082 | 21.409 | ng | | 99 |
| 32) Benzoic acid | 7.898 | 122 | 165613 | 19.487 | ng | | 98 |
| 33) 4-Chloroaniline | 8.234 | 127 | 454568 | 21.097 | ng | | 100 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 230541 | 20.776 | ng | | 98 |
| 35) Caprolactam | 8.587 | 113 | 102898 | 20.521 | ng | | 99 |
| 36) 4-Chloro-3-methylphenol | 8.704 | 107 | 376094 | 20.776 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.881 | 142 | 826497 | 21.443 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.981 | 142 | 796808 | 21.545 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.045 | 216 | 377360 | 20.861 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 9.034 | 237 | 158105 | 20.943 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.151 | 196 | 238591 | 20.419 | ng | | 100 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141796.D
Acq On : 27 Feb 2025 16:46
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations APPROVED**
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:24:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.187 | 196 | 242709 | 20.976 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.345 | 154 | 1021081 | 21.418 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.369 | 162 | 752142 | 21.375 | ng | | 99 |
| 48) 2-Nitroaniline | 9.457 | 65 | 153869 | 18.870 | ng | | 97 |
| 49) Acenaphthylene | 9.786 | 152 | 1126303 | 21.349 | ng | | 99 |
| 50) Dimethylphthalate | 9.645 | 163 | 879870 | 20.977 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.704 | 165 | 144673 | 19.796 | ng | | 98 |
| 52) Acenaphthene | 9.957 | 154 | 749963 | 21.068 | ng | | 99 |
| 53) 3-Nitroaniline | 9.869 | 138 | 152114 | 19.664 | ng | # | 99 |
| 54) 2,4-Dinitrophenol | 9.969 | 184 | 41521 | 19.116 | ng | # | 1 |
| 55) Dibenzofuran | 10.128 | 168 | 1105278 | 21.332 | ng | | 99 |
| 56) 4-Nitrophenol | 10.010 | 139 | 123415 | 19.922 | ng | | 98 |
| 57) 2,4-Dinitrotoluene | 10.104 | 165 | 165949 | 19.214 | ng | | 98 |
| 58) Fluorene | 10.469 | 166 | 822264 | 21.187 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232 | 210339 | 20.902 | ng | | 99 |
| 60) Diethylphthalate | 10.345 | 149 | 894118 | 21.264 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204 | 409697 | 21.069 | ng | | 99 |
| 62) 4-Nitroaniline | 10.481 | 138 | 143482 | 20.031 | ng | | 98 |
| 63) Azobenzene | 10.622 | 77 | 942499 | 21.288 | ng | | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.510 | 198 | 65163 | 19.161 | ng | | 97 |
| 66) n-Nitrosodiphenylamine | 10.581 | 169 | 717531 | 20.977 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248 | 248503 | 20.423 | ng | | 98 |
| 68) Hexachlorobenzene | 11.016 | 284 | 265367 | 20.653 | ng | | 97 |
| 69) Atrazine | 11.104 | 200 | 203939 | 21.680 | ng | | 99 |
| 70) Pentachlorophenol | 11.210 | 266 | 167231 | 20.521 | ng | | 99 |
| 71) Phenanthrene | 11.433 | 178 | 1181769 | 21.209 | ng | | 99 |
| 72) Anthracene | 11.486 | 178 | 1203701 | 21.554 | ng | | 99 |
| 73) Carbazole | 11.639 | 167 | 1056147 | 21.416 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.975 | 149 | 1345098 | 21.518 | ng | | 99 |
| 75) Fluoranthene | 12.622 | 202 | 1242031 | 21.753 | ng | | 99 |
| 77) Benzidine | 12.739 | 184 | 136521 | 15.752 | ng | | 99 |
| 78) Pyrene | 12.851 | 202 | 1249647 | 20.957 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.469 | 149 | 442702 | 20.434 | ng | | 98 |
| 81) Benzo(a)anthracene | 14.039 | 228 | 953146 | 20.956 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.998 | 252 | 262708 | 20.132 | ng | | 100 |
| 83) Chrysene | 14.074 | 228 | 850641 | 20.288 | ng | | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 542812 | 20.122 | ng | | 100 |
| 85) Di-n-octyl phthalate | 14.645 | 149 | 763685 | 18.910 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 17.004 | 276 | 668777 | 19.480 | ng | | 99 |
| 88) Benzo(b)fluoranthene | 15.086 | 252 | 826369 | 22.501 | ng | | 100 |
| 89) Benzo(k)fluoranthene | 15.116 | 252 | 592250 | 18.973 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.457 | 252 | 610871 | 20.740 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.027 | 278 | 552725 | 19.724 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.451 | 276 | 557705 | 19.426 | ng | | 100 |

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

ICAL Form

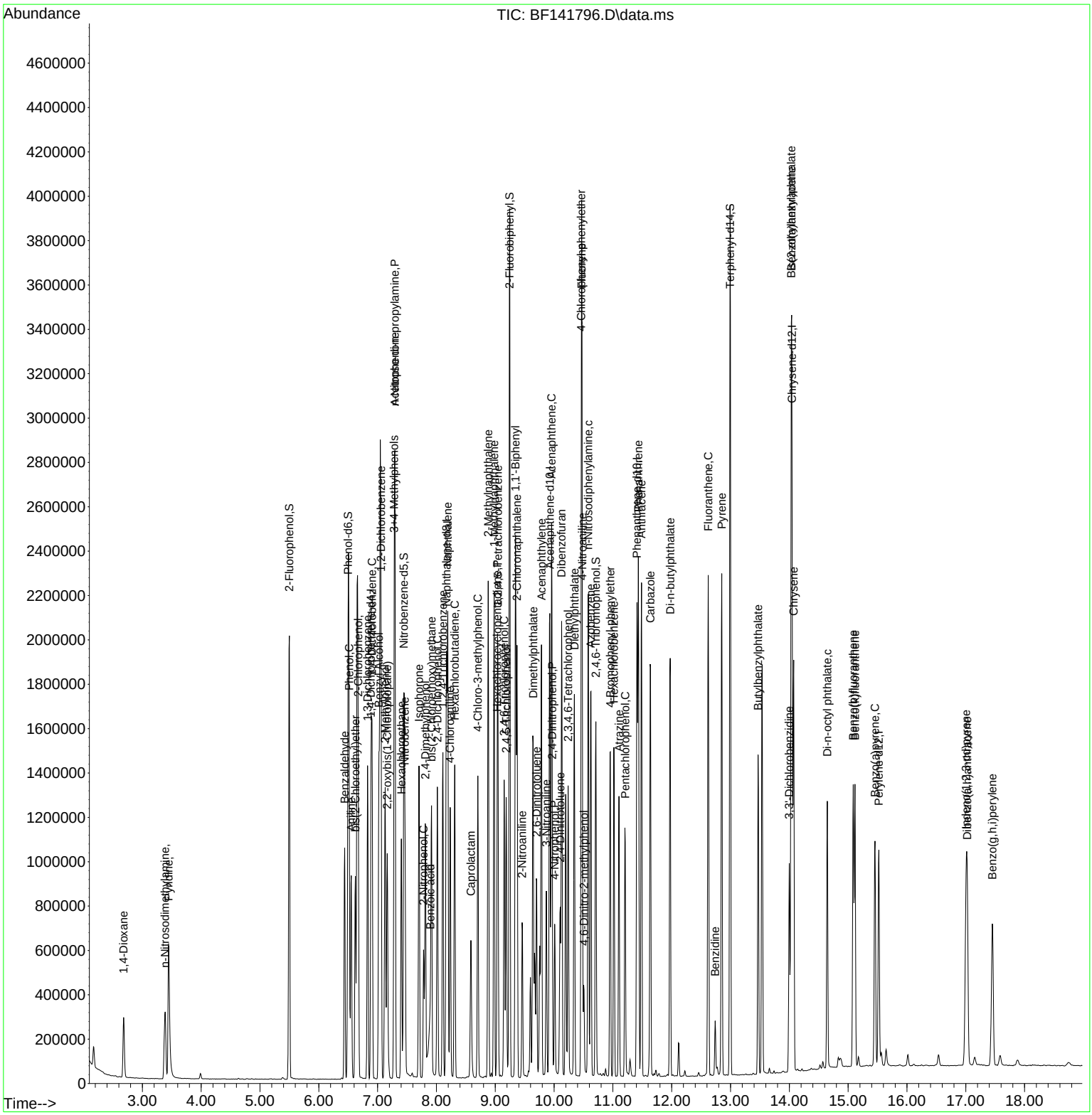
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141796.D
Acq On : 27 Feb 2025 16:46
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

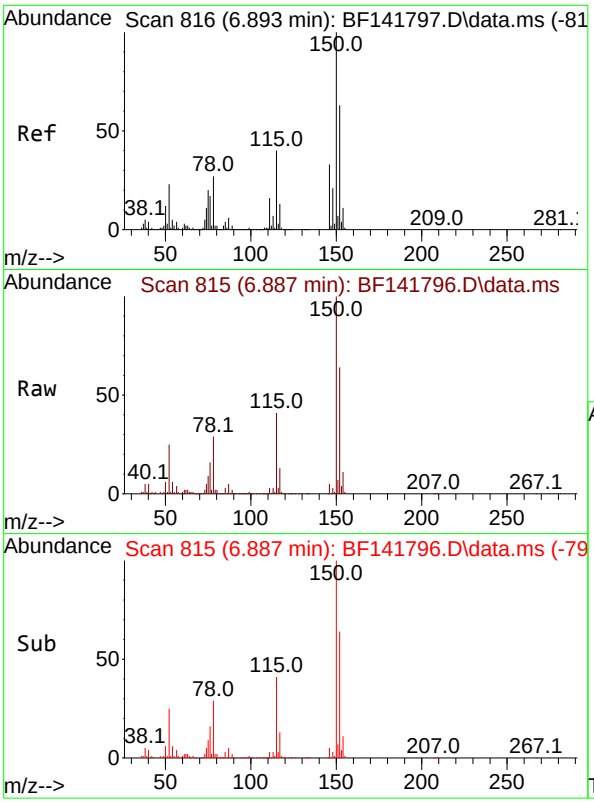
Quant Time: Feb 28 01:24:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

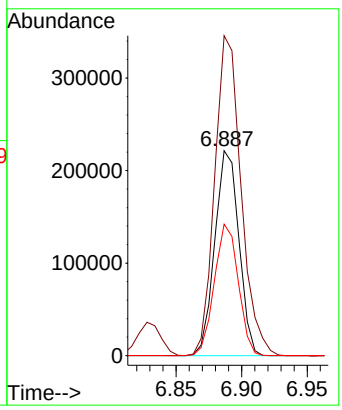





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:152 Resp: 28258

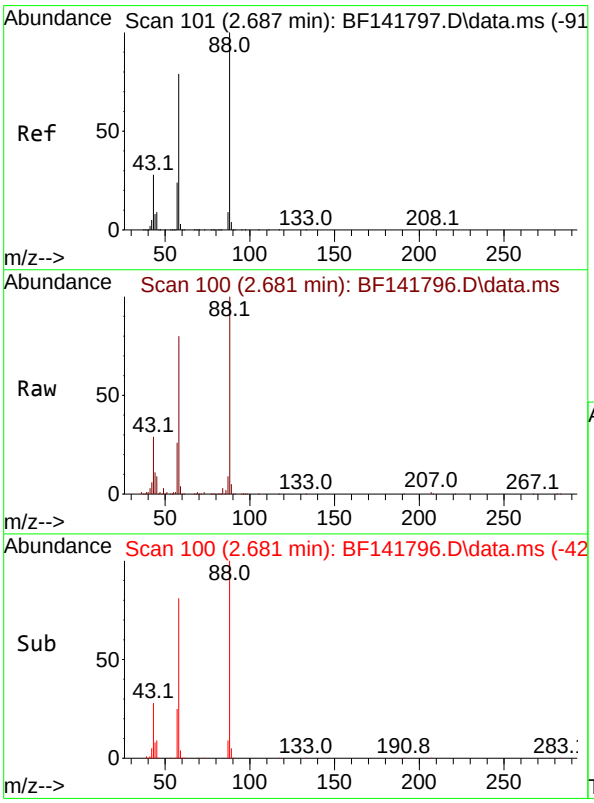
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 156.1 | 127.5 | 191.3 |
| 115 | 64.2 | 51.4 | 77.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

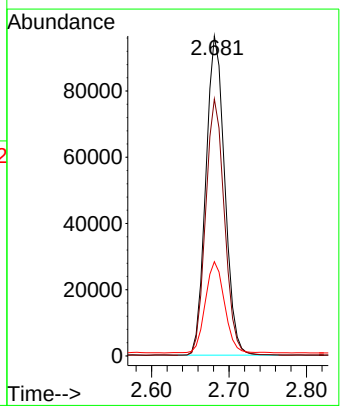
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

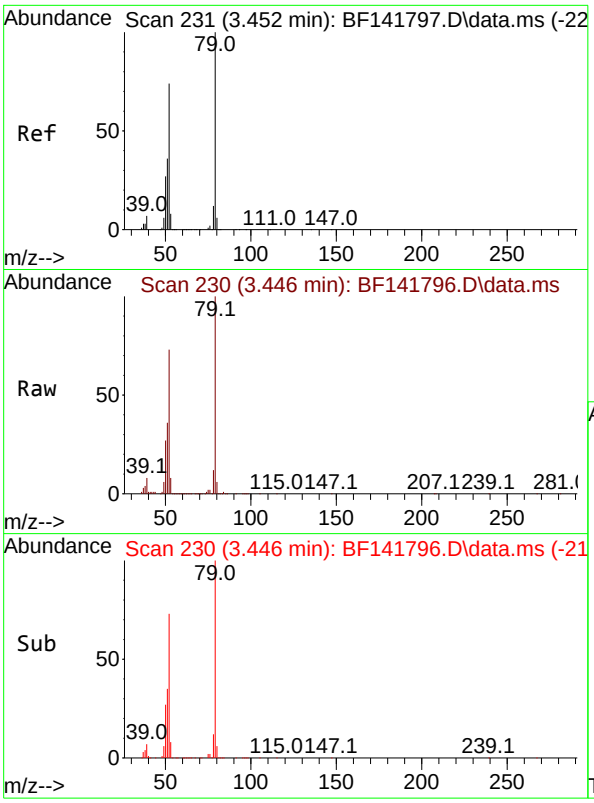



#2
1,4-Dioxane
Concen: 20.255 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 88 Resp: 162630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 80.0 | 63.9 | 95.9 |
| 43 | 29.0 | 23.0 | 34.6 |

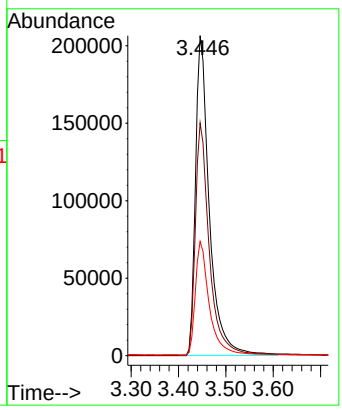





#3
Pyridine
Concen: 21.024 ng
RT: 3.446 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 79 Resp: 41999

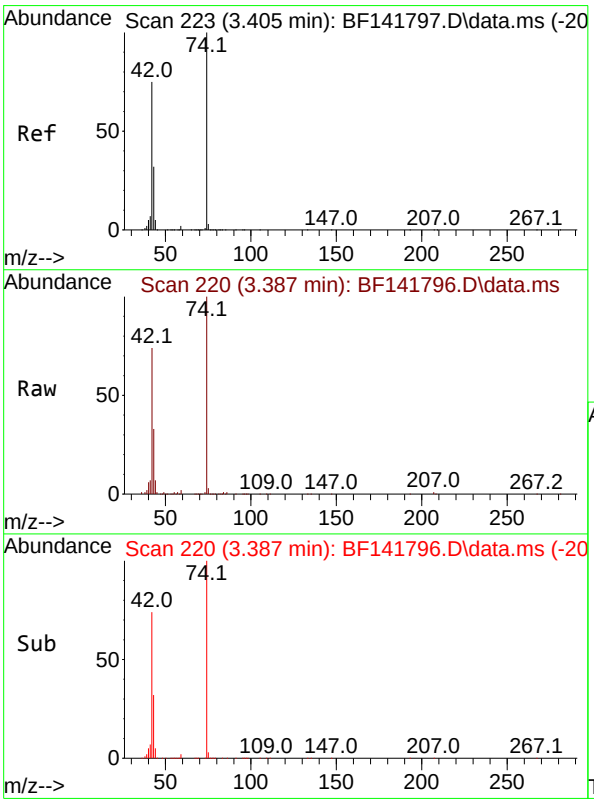
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 72.7 | 59.0 | 88.4 |
| 51 | 35.7 | 29.0 | 43.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

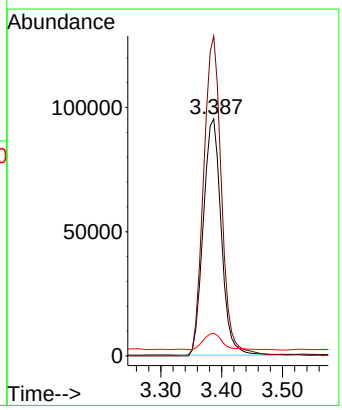
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

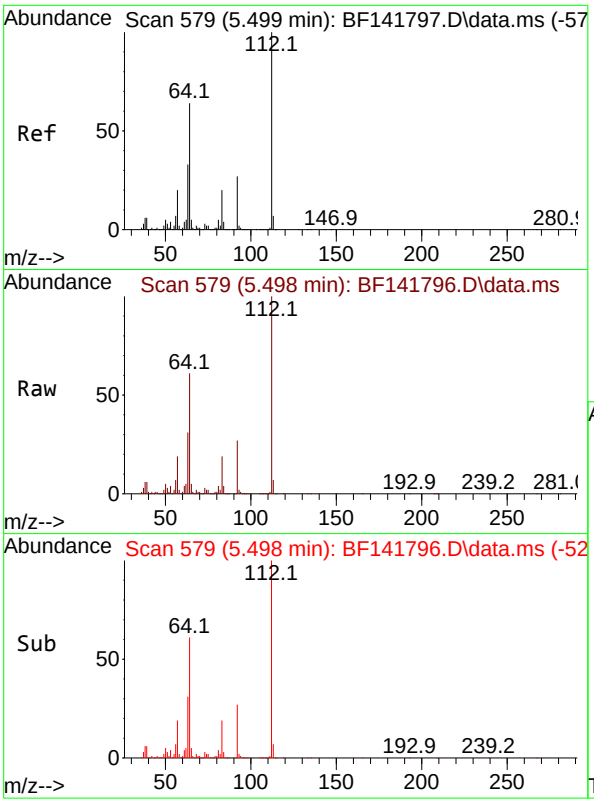



#4
n-Nitrosodimethylamine
Concen: 20.270 ng
RT: 3.387 min Scan# 220
Delta R.T. -0.018 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 42 Resp: 194836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 135.0 | 107.1 | 160.7 |
| 44 | 9.5 | 6.6 | 9.8 |

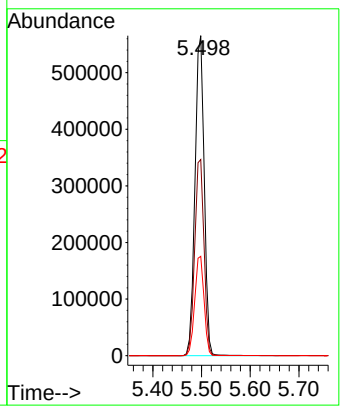





#5
2-Fluorophenol
Concen: 42.367 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:112 Resp: 74967

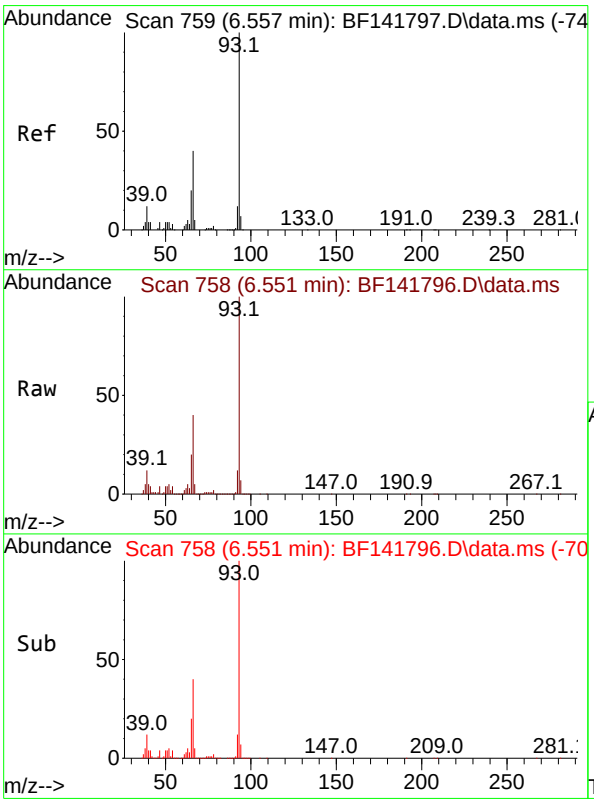
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 61.3 | 51.3 | 76.9 |
| 63 | 31.1 | 26.2 | 39.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

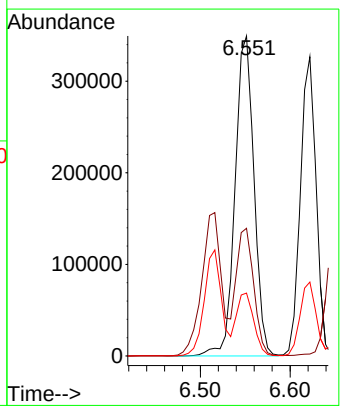
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

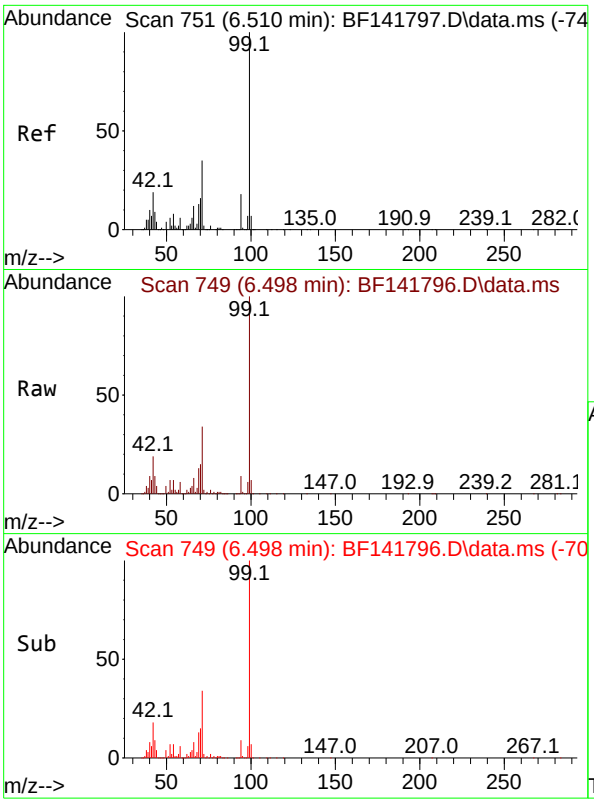



#6
Aniline
Concen: 21.416 ng
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 93 Resp: 510018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 39.9 | 32.3 | 48.5 |
| 65 | 19.7 | 15.9 | 23.9 |

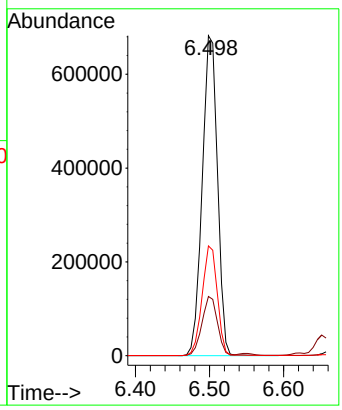





#7
Phenol-d6
Concen: 42.408 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 99 Resp: 97671

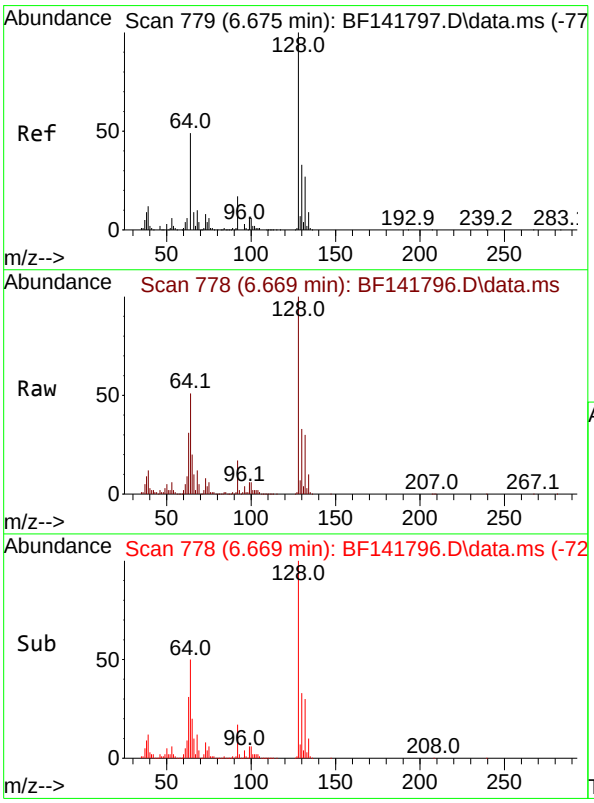
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.5 | 15.2 | 22.8 |
| 71 | 34.3 | 28.2 | 42.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

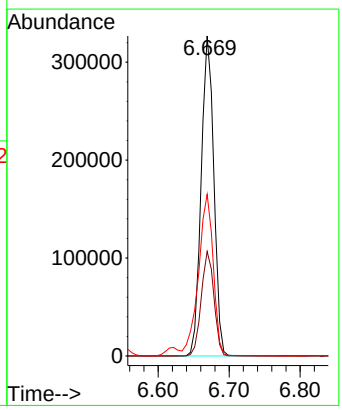
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

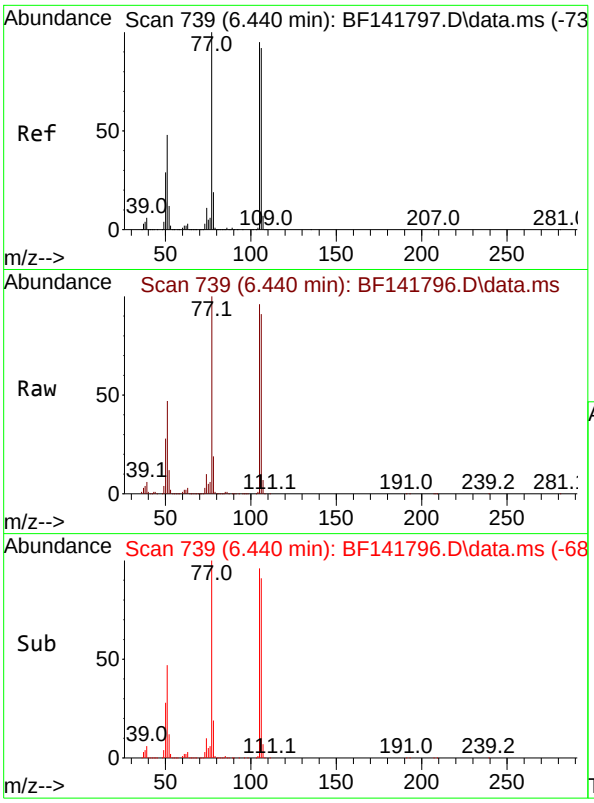



#8
2-Chlorophenol
Concen: 21.241 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:128 Resp: 406583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.6 | 12.6 | 52.6 |
| 64 | 50.5 | 31.1 | 71.1 |

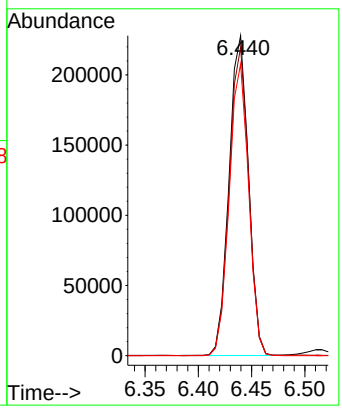





#9
Benzaldehyde
Concen: 21.590 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 77 Resp: 28924

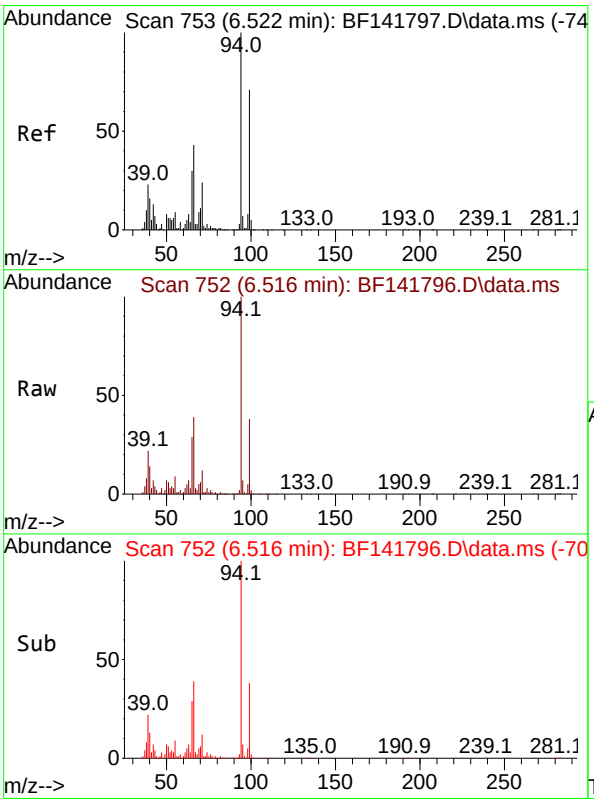
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 96.4 | 75.3 | 115.3 |
| 106 | 91.1 | 72.3 | 112.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

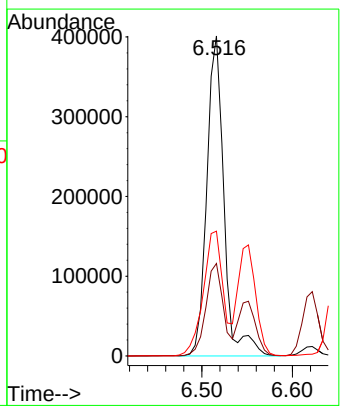
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

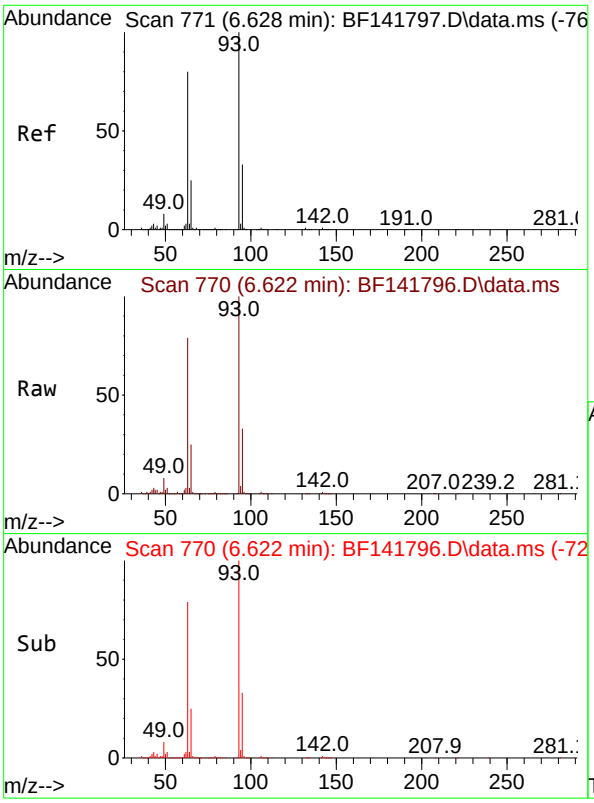



#10
Phenol
Concen: 21.493 ng m
RT: 6.516 min Scan# 752
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 94 Resp: 527399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 28.9 | 10.2 | 50.2 |
| 66 | 39.0 | 23.2 | 63.2 |

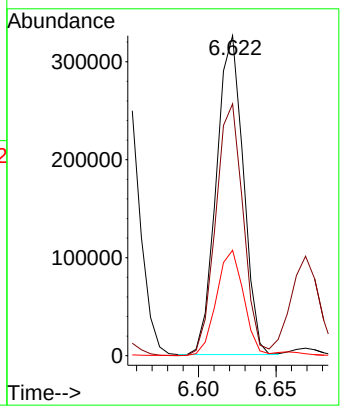





#11
bis(2-Chloroethyl)ether
Concen: 20.964 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 93 Resp: 39329

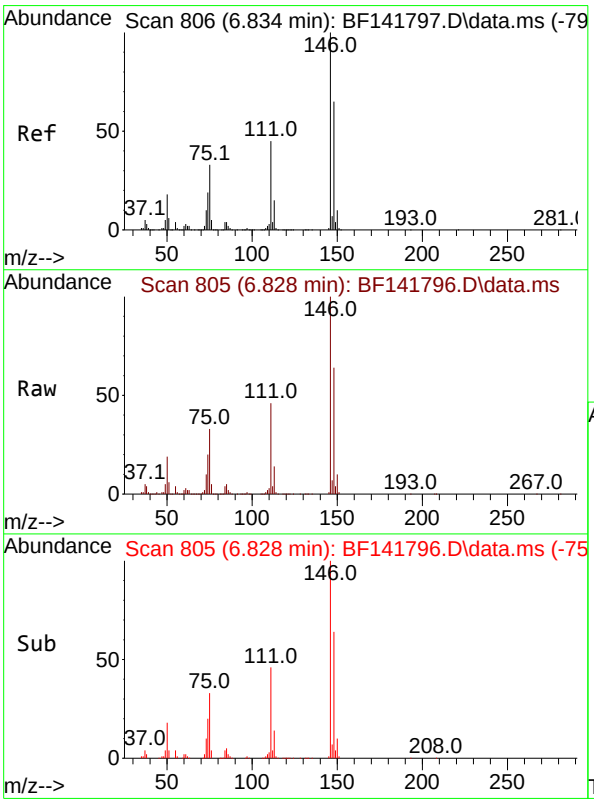
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 78.7 | 59.3 | 99.3 |
| 95 | 32.9 | 13.2 | 53.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

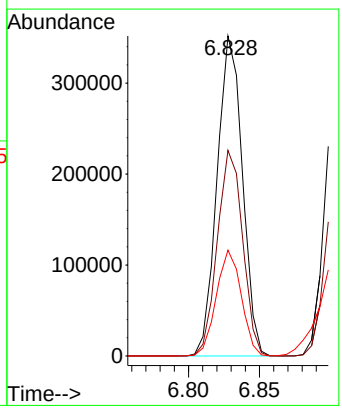
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

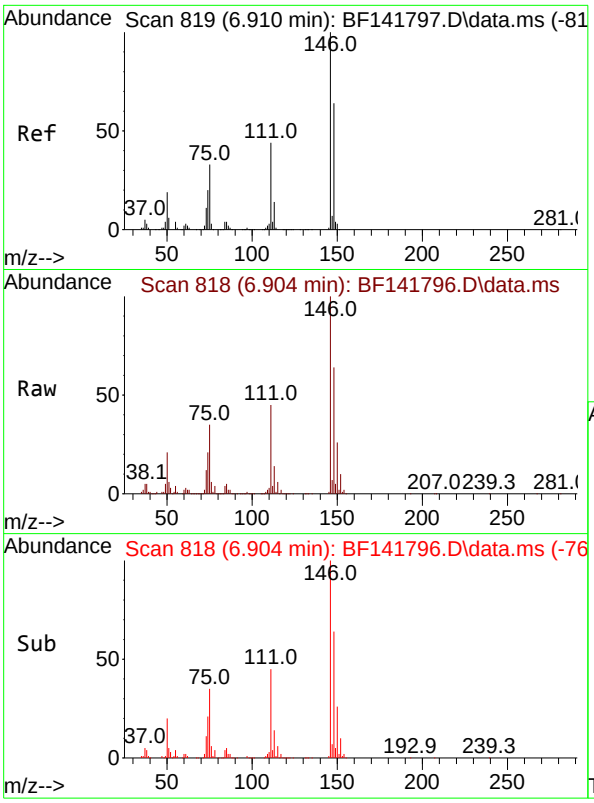



#12
1,3-Dichlorobenzene
Concen: 21.247 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:146 Resp: 435544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.3 | 51.8 | 77.6 |
| 75 | 33.0 | 26.2 | 39.4 |

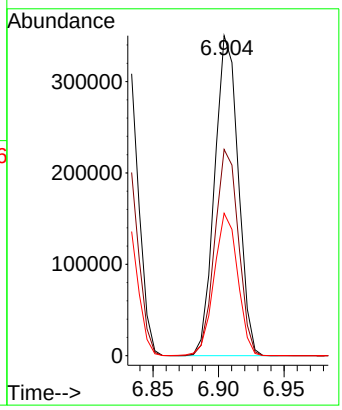





#13
1,4-Dichlorobenzene
Concen: 21.195 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:146 Resp: 43777

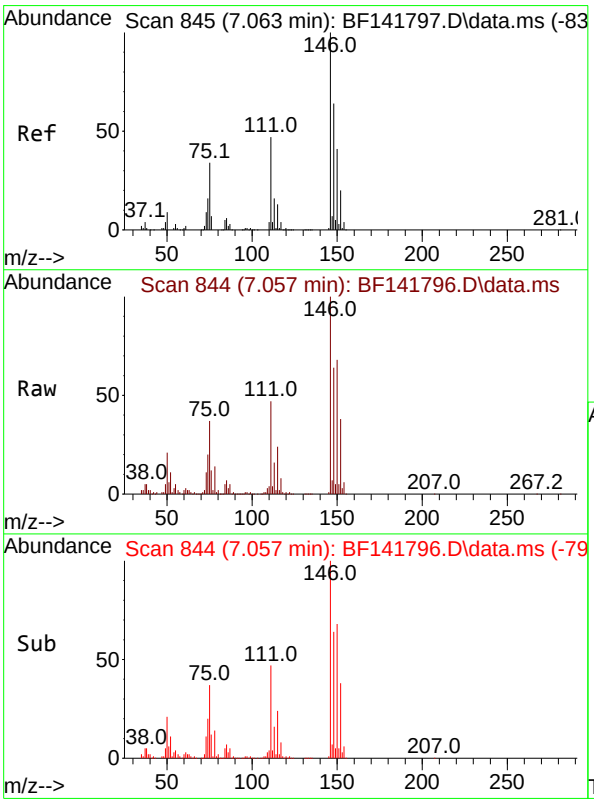
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.5 | 51.4 | 77.2 |
| 111 | 44.5 | 35.5 | 53.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

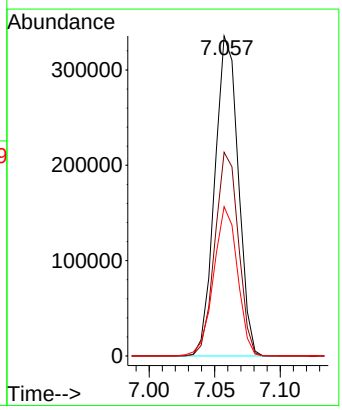
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

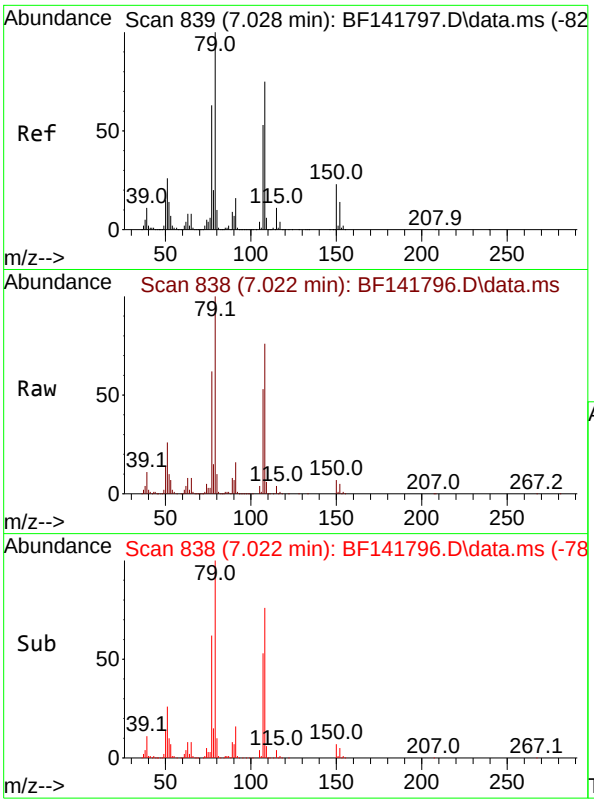



#14
1,2-Dichlorobenzene
Concen: 21.620 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:146 Resp: 416995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.7 | 51.2 | 76.8 |
| 111 | 46.6 | 37.8 | 56.6 |

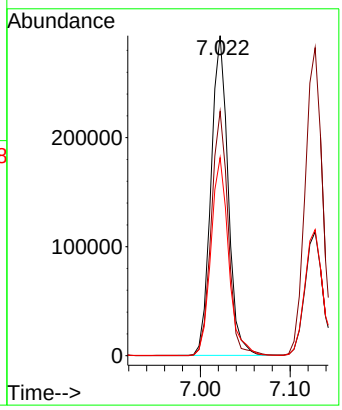





#15
Benzyl Alcohol
Concen: 21.089 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 79 Resp: 38817

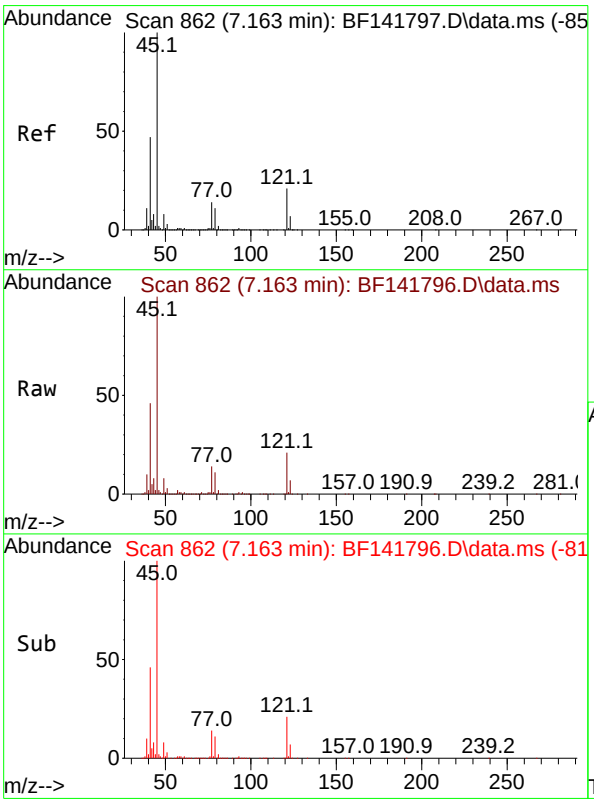
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 76.3 | 60.2 | 90.2 |
| 77 | 61.9 | 50.2 | 75.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

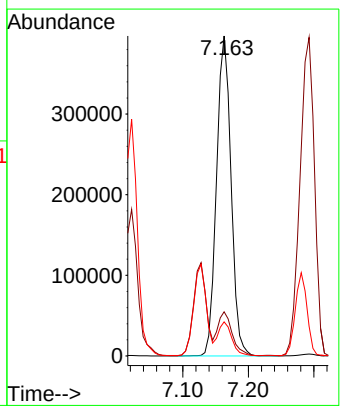
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

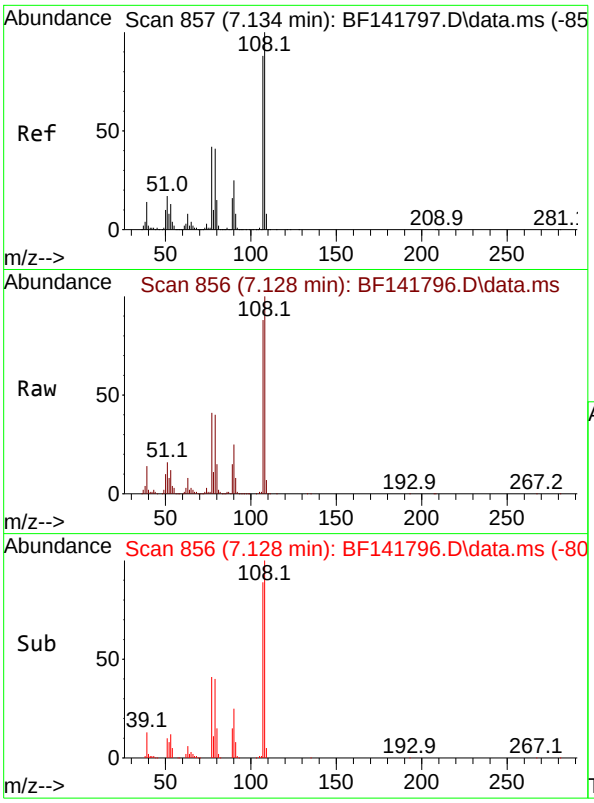



#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.316 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 45 Resp: 607289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 13.8 | 0.0 | 34.4 |
| 79 | 10.7 | 0.0 | 30.9 |

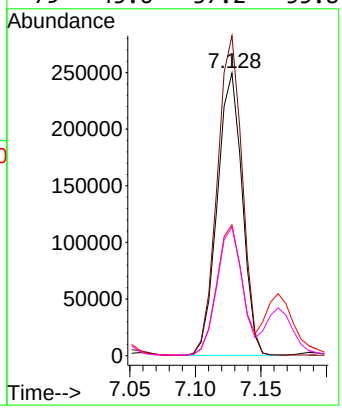





#17
2-Methylphenol
Concen: 20.839 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:107 Resp: 32926

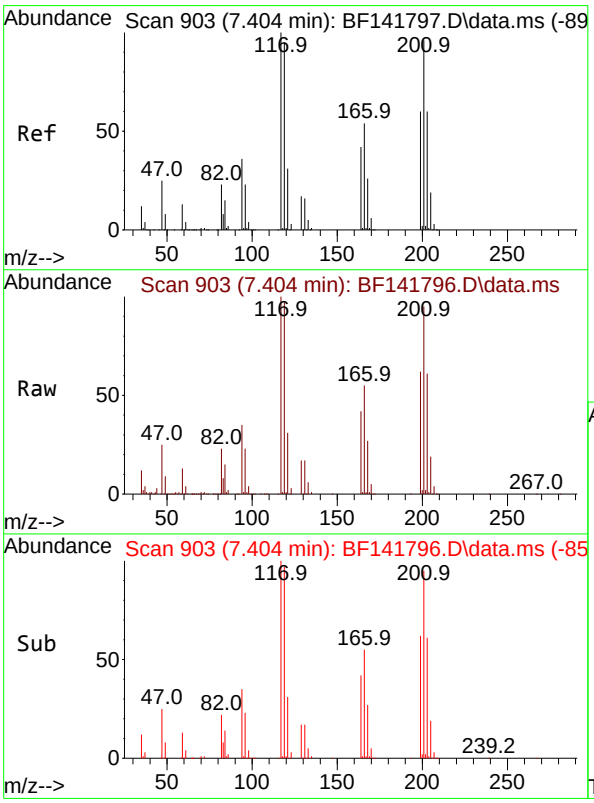
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 113.3 | 90.6 | 135.8 |
| 77 | 46.4 | 37.7 | 56.5 |
| 79 | 45.6 | 37.2 | 55.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

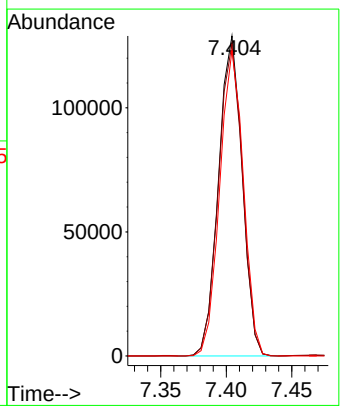
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

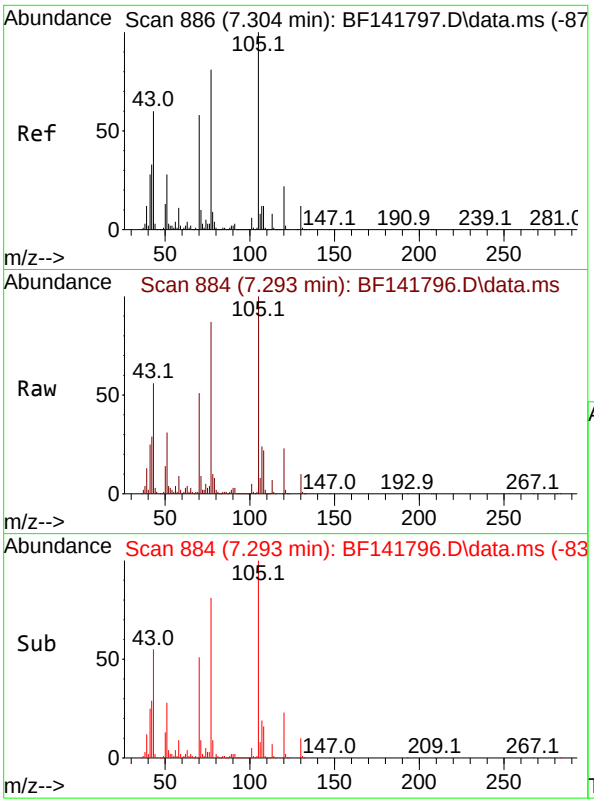



#18
Hexachloroethane
Concen: 21.002 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:117 Resp: 162363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.5 | 75.8 | 113.8 |
| 201 | 95.4 | 76.7 | 115.1 |

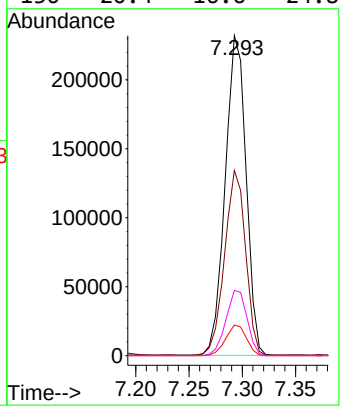





#19
n-Nitroso-di-n-propylamine
Concen: 20.904 ng
RT: 7.293 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 70 Resp: 31648

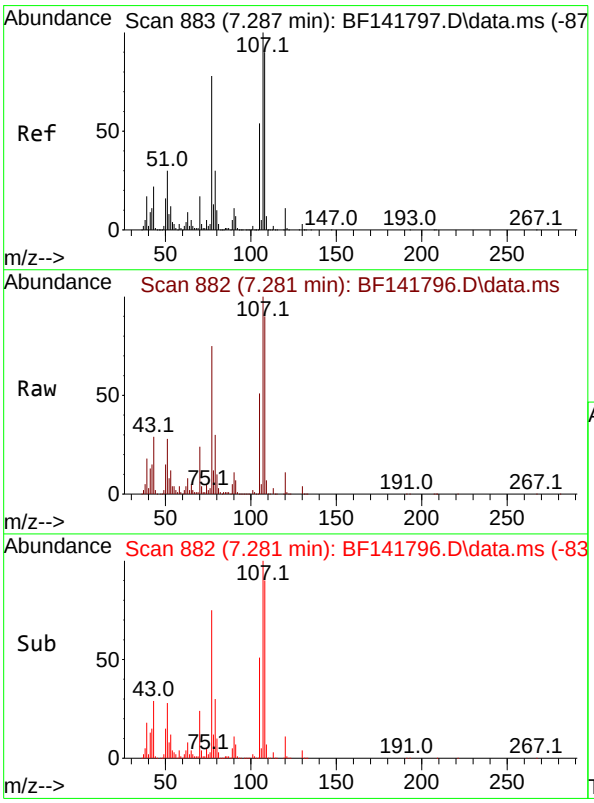
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 57.9 | 45.4 | 68.0 |
| 101 | 9.6 | 7.8 | 11.8 |
| 130 | 20.4 | 16.6 | 24.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

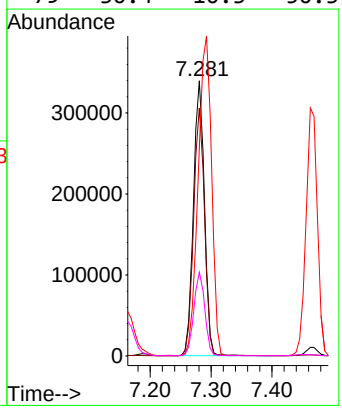
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

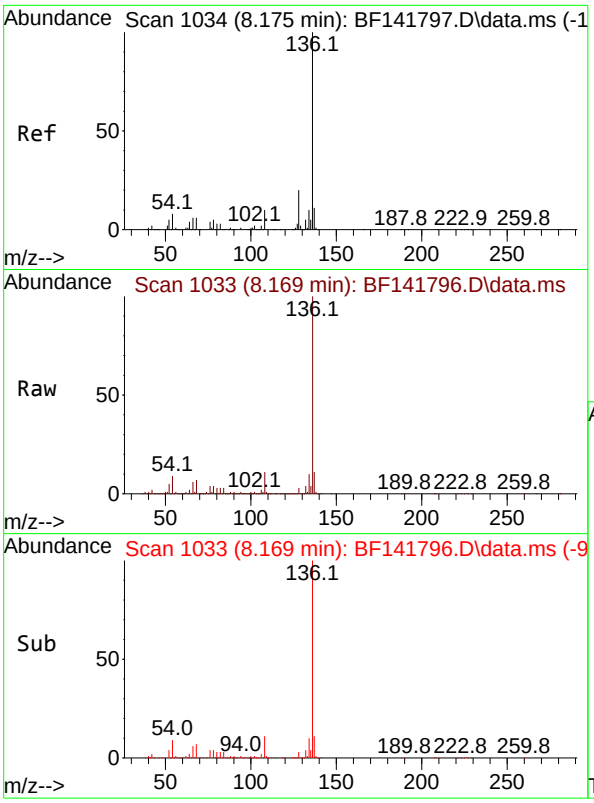



#20
3+4-Methylphenols
Concen: 21.633 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:107 Resp: 425612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 90.1 | 69.7 | 109.7 |
| 77 | 75.5 | 58.3 | 98.3 |
| 79 | 30.4 | 10.3 | 50.3 |

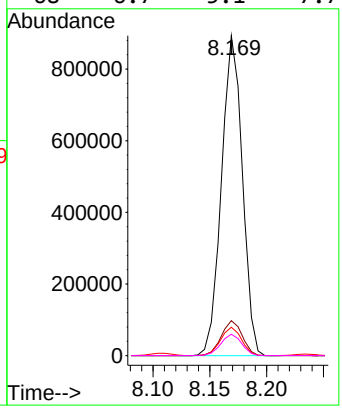





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:136 Resp: 114333

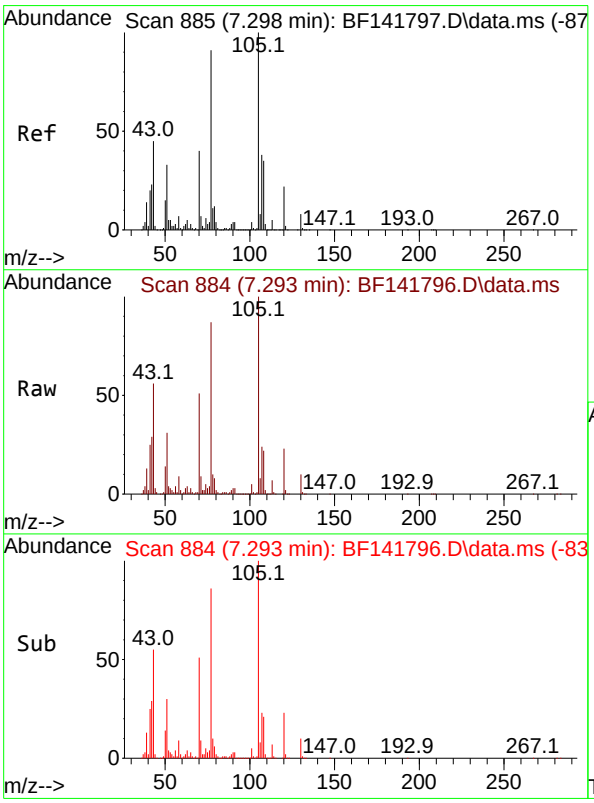
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.9 | 13.3 |
| 54 | 8.9 | 6.9 | 10.3 |
| 68 | 6.7 | 5.1 | 7.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

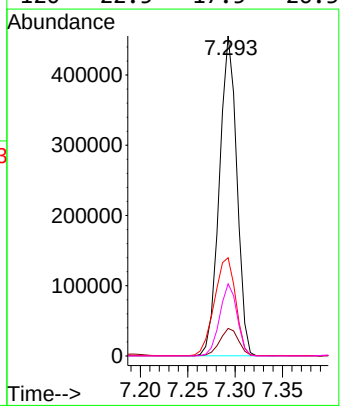
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

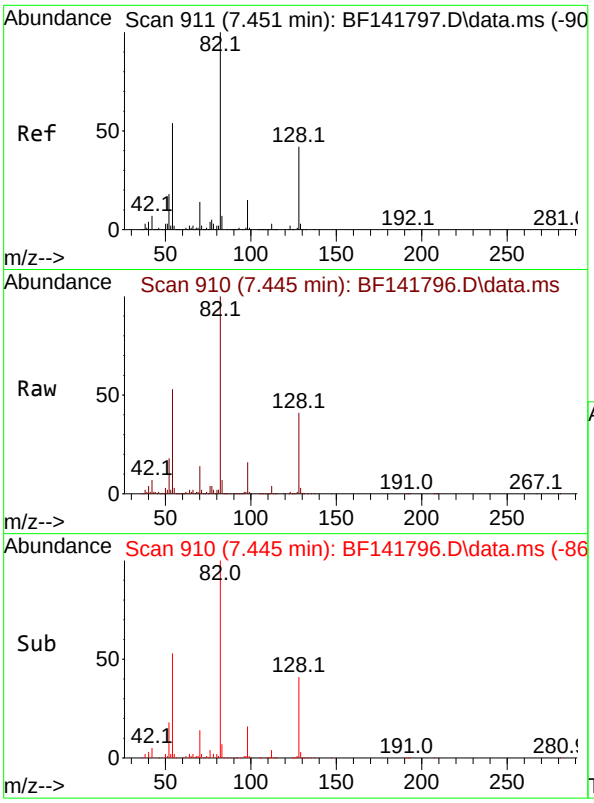



#22
Acetophenone
Concen: 21.041 ng
RT: 7.293 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:105 Resp: 585913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 8.6 | 5.4 | 8.0# |
| 51 | 30.7 | 26.1 | 39.1 |
| 120 | 22.5 | 17.5 | 26.3 |






#23
Nitrobenzene-d5
Concen: 40.590 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

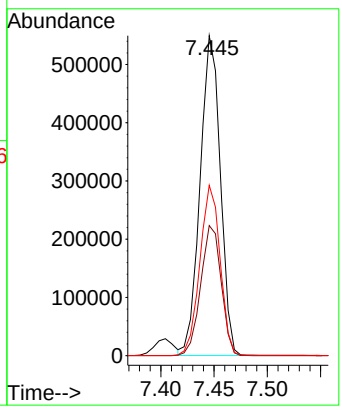
Tgt Ion: 82 Resp: 72603

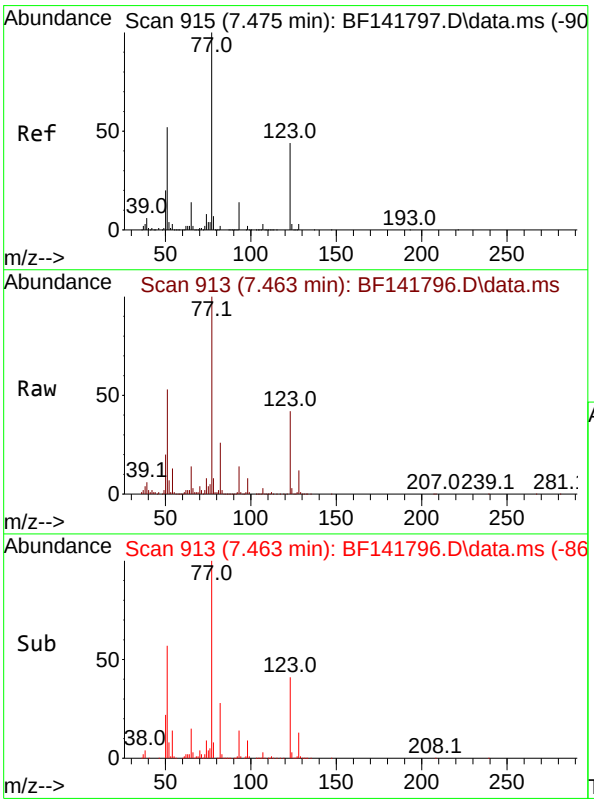
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 40.7 | 33.5 | 50.3 |
| 54 | 53.3 | 42.7 | 64.1 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

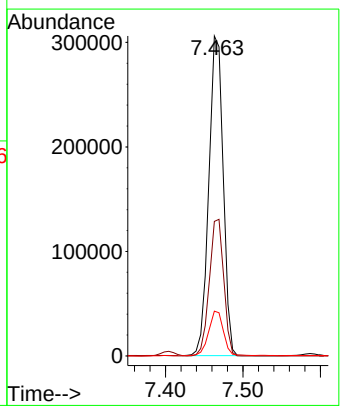


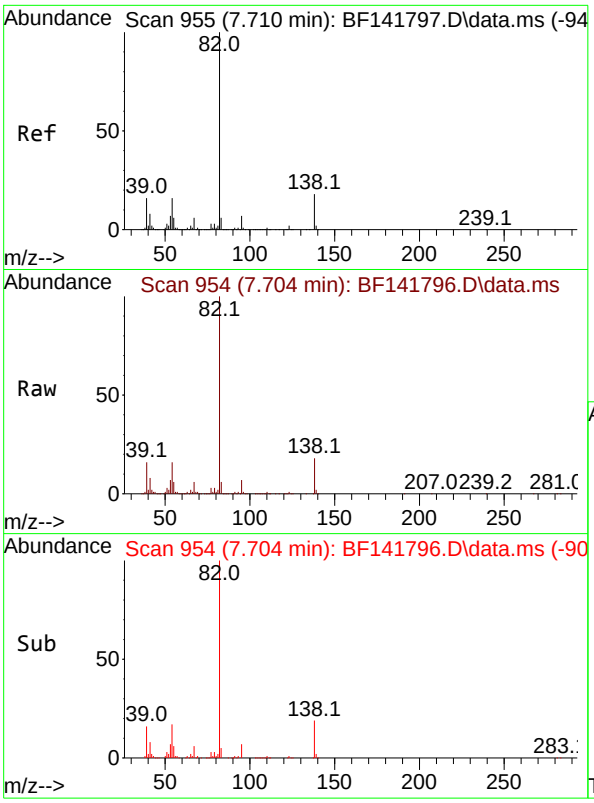




#24
Nitrobenzene
Concen: 20.649 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 77 Resp: 395521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 42.1 | 35.8 | 53.8 |
| 65 | 14.0 | 11.2 | 16.8 |






#25
Isophorone
Concen: 20.541 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

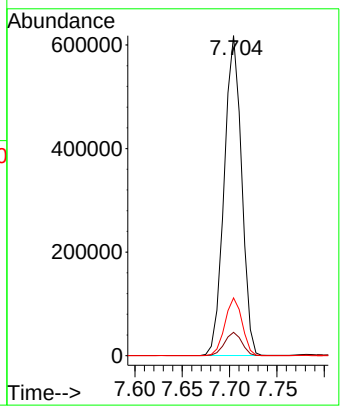
Tgt Ion: 82 Resp: 78934

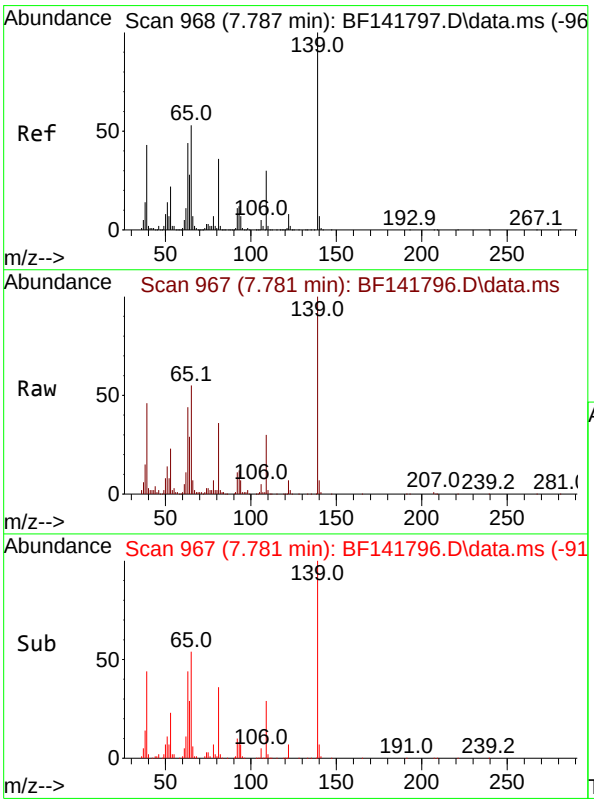
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.3 | 5.8 | 8.8 |
| 138 | 18.1 | 14.0 | 21.0 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

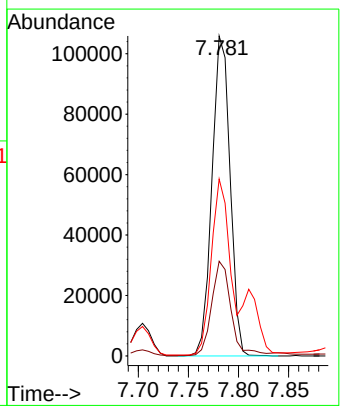


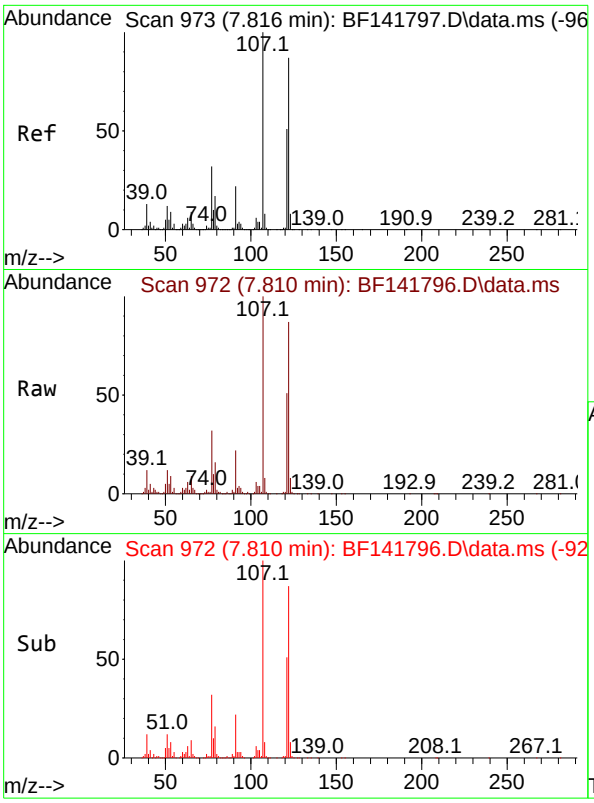




#26
2-Nitrophenol
Concen: 18.604 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:139 Resp: 132844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 29.6 | 24.1 | 36.1 |
| 65 | 55.3 | 42.3 | 63.5 |

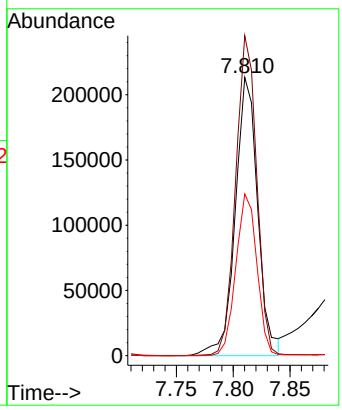





#27
2,4-Dimethylphenol
Concen: 20.740 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:122 Resp: 29296

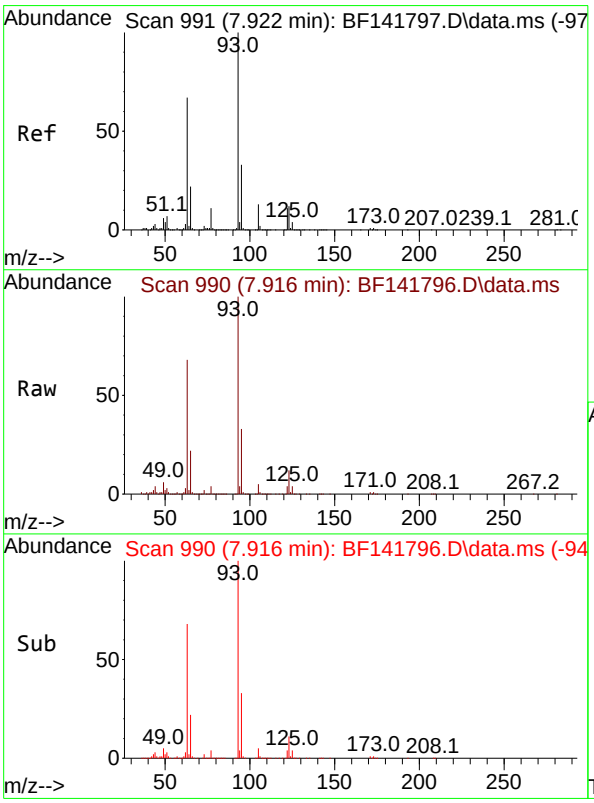
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 115.0 | 92.5 | 138.7 |
| 121 | 58.1 | 47.1 | 70.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

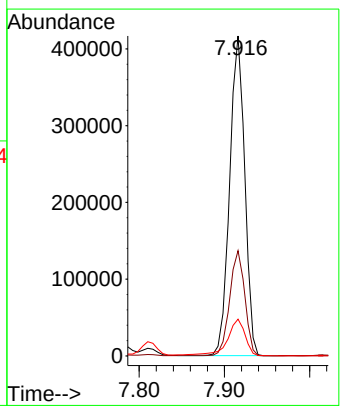
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

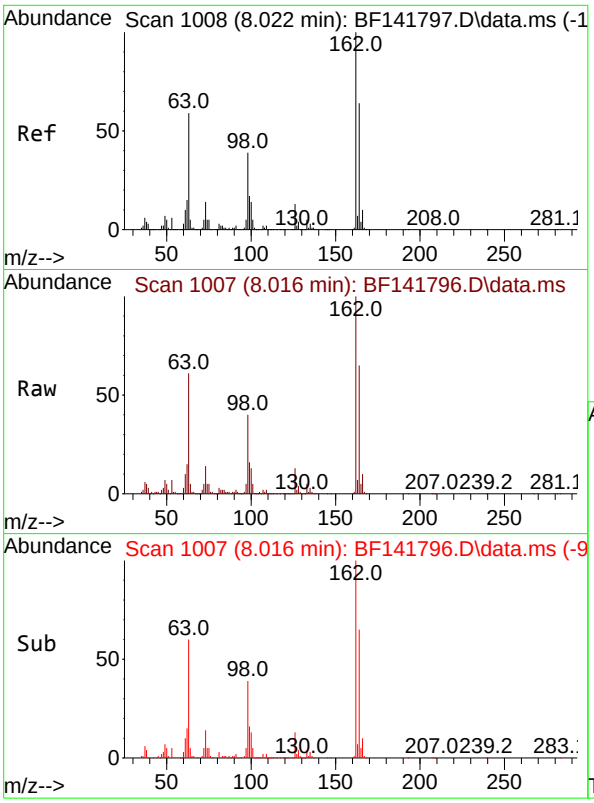



#28
bis(2-Chloroethoxy)methane
Concen: 20.966 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 93 Resp: 513944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.9 | 26.5 | 39.7 |
| 123 | 11.5 | 10.0 | 15.0 |

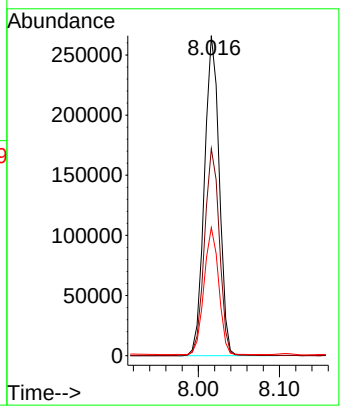





#29
2,4-Dichlorophenol
Concen: 20.749 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:162 Resp: 33812

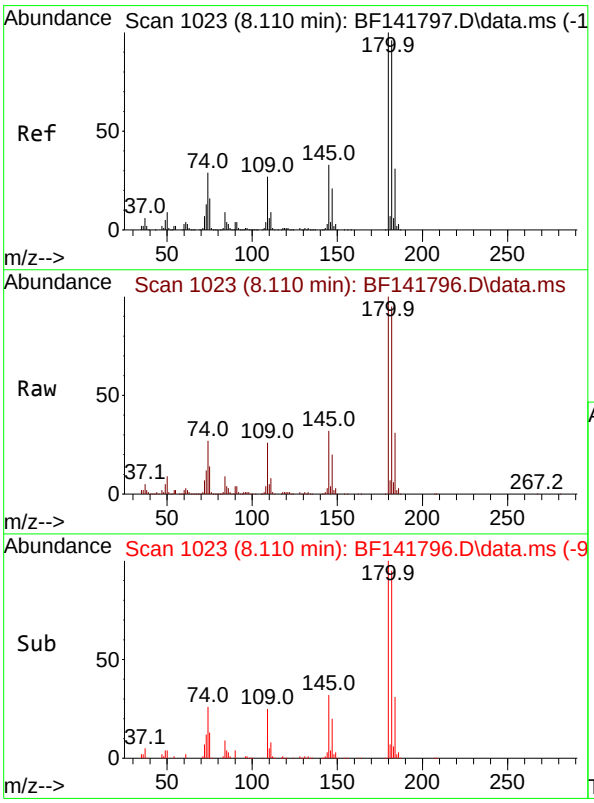
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.7 | 44.3 | 84.3 |
| 98 | 40.0 | 19.6 | 59.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

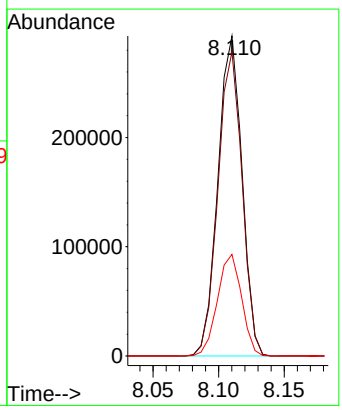
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

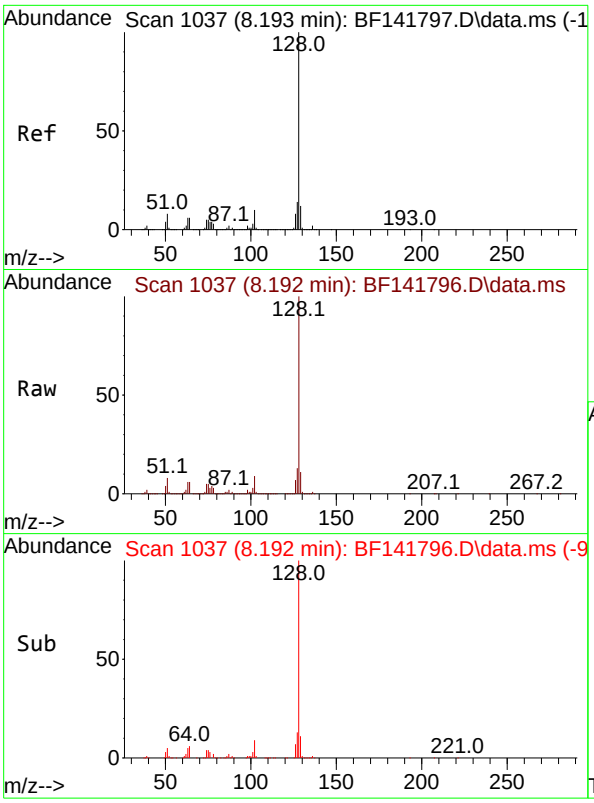



#30
1,2,4-Trichlorobenzene
Concen: 20.955 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:180 Resp: 374188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 76.8 | 115.2 |
| 145 | 31.8 | 26.4 | 39.6 |

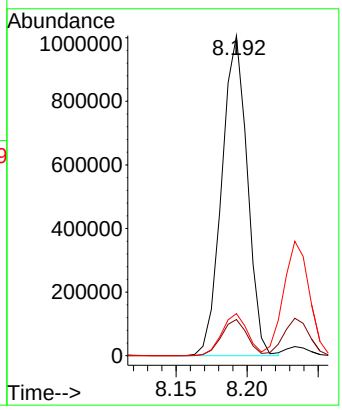





#31
Naphthalene
Concen: 21.409 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:128 Resp: 125808

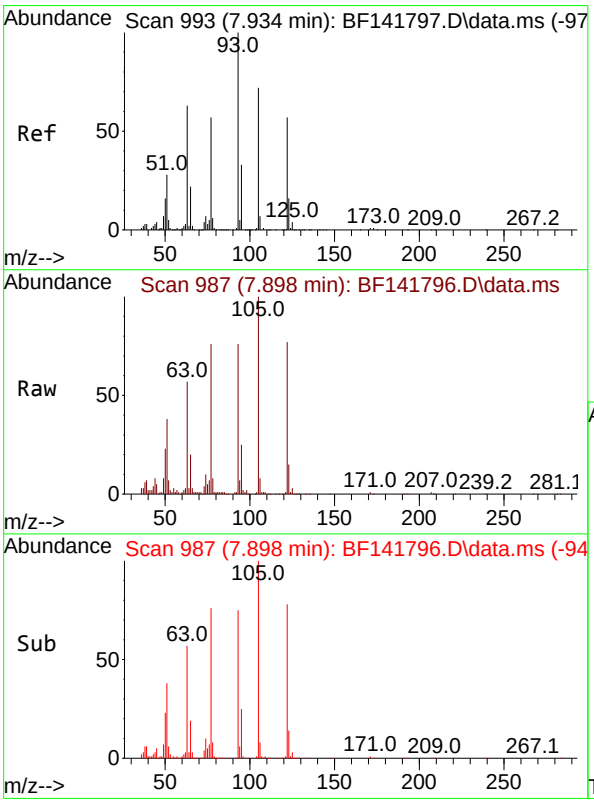
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.3 | 9.2 | 13.8 |
| 127 | 13.2 | 11.0 | 16.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

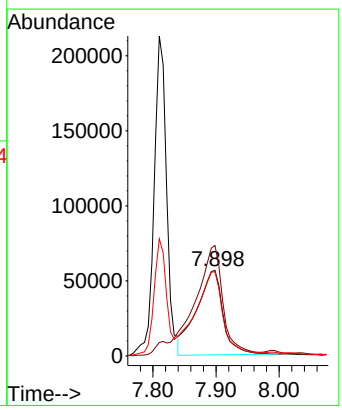
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

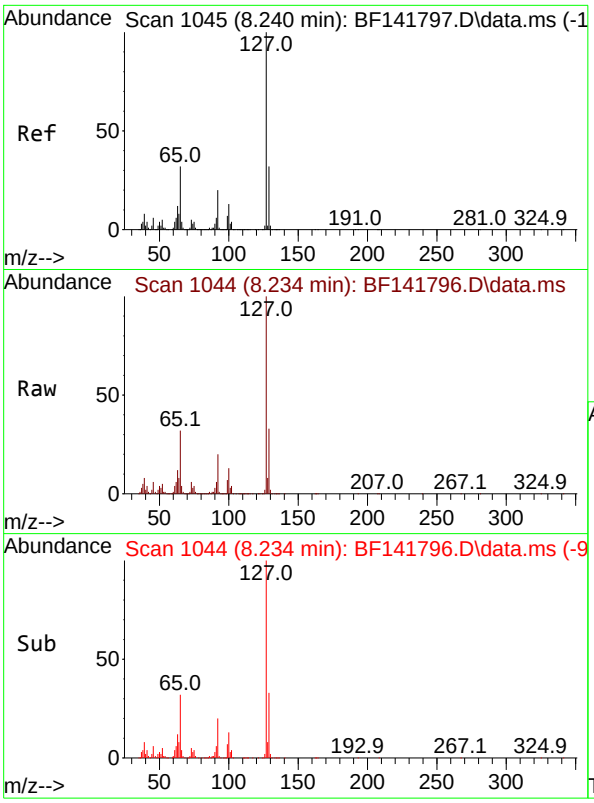



#32
Benzoic acid
Concen: 19.487 ng
RT: 7.898 min Scan# 987
Delta R.T. -0.036 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:122 Resp: 165613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 129.2 | 105.8 | 145.8 |
| 77 | 98.4 | 79.9 | 119.9 |

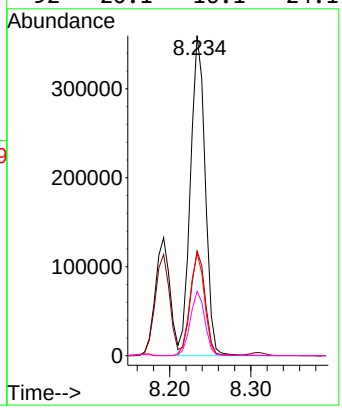





#33
4-Chloroaniline
Concen: 21.097 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:127 Resp: 45456

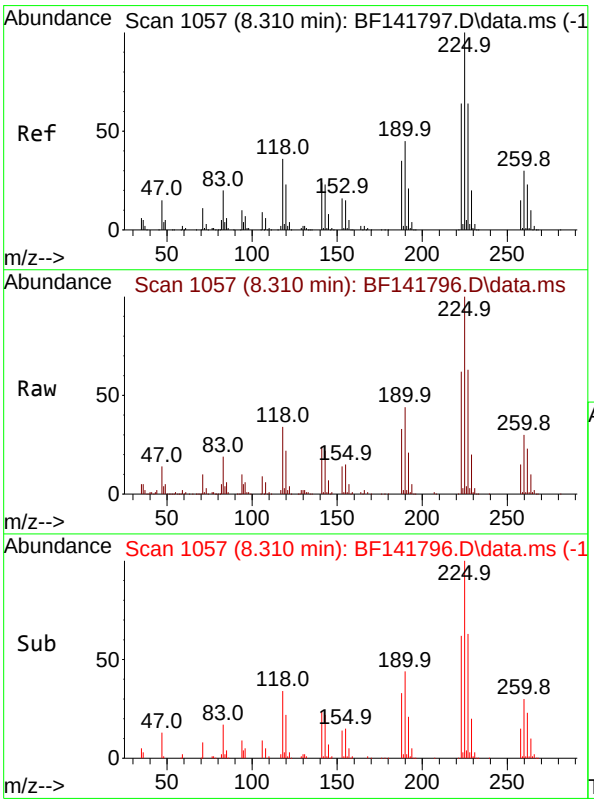
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.7 | 26.1 | 39.1 |
| 65 | 32.0 | 25.7 | 38.5 |
| 92 | 20.1 | 16.1 | 24.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

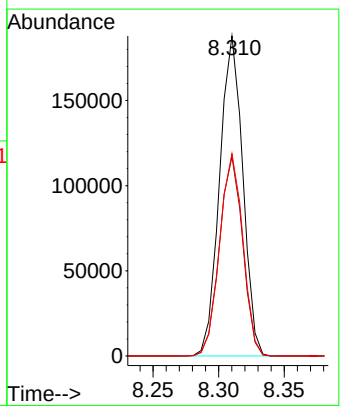
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

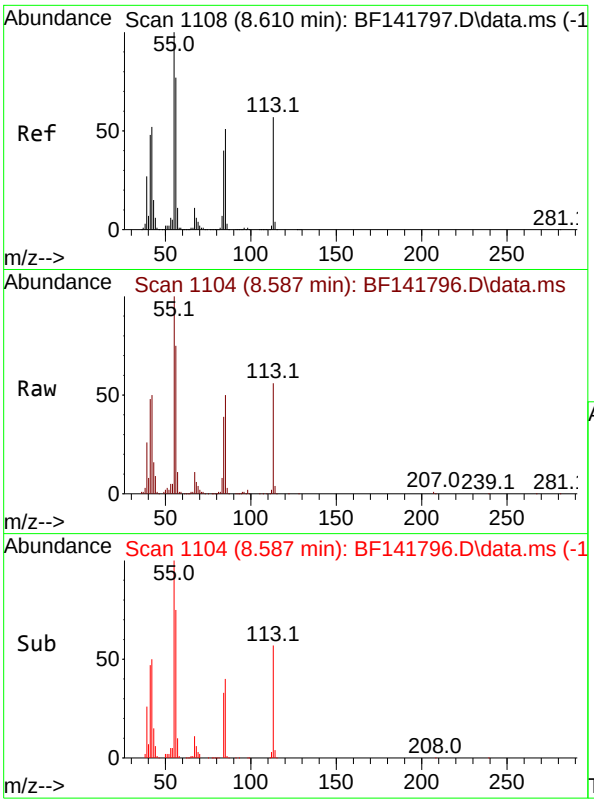



#34
Hexachlorobutadiene
Concen: 20.776 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:225 Resp: 230541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.3 | 51.4 | 77.2 |
| 227 | 63.2 | 51.6 | 77.4 |






#35
Caprolactam
Concen: 20.521 ng
RT: 8.587 min Scan# 11
Delta R.T. -0.024 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

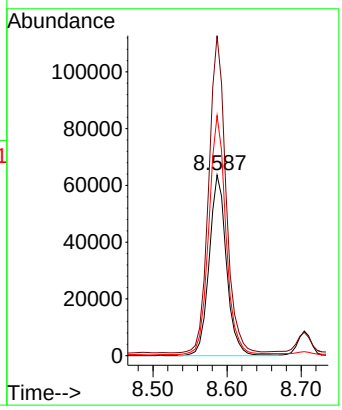
Tgt Ion:113 Resp: 10289

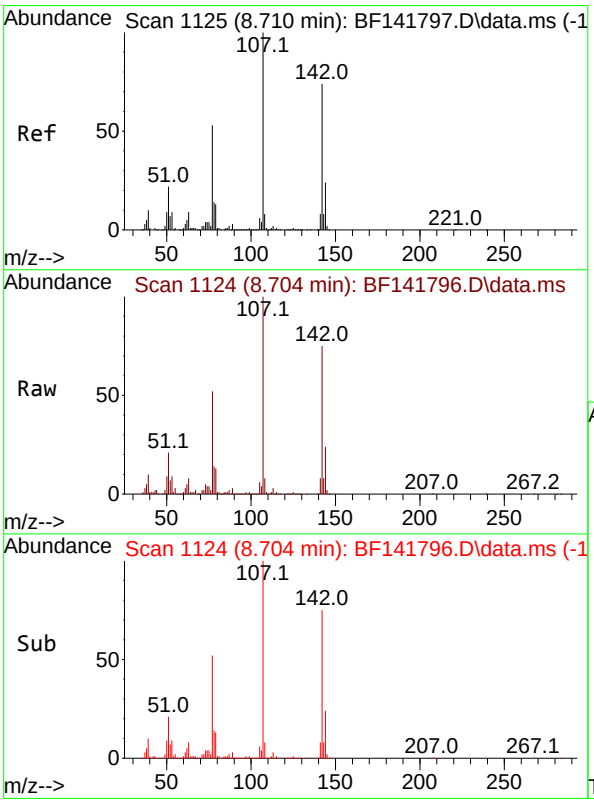
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 177.2 | 155.6 | 195.6 |
| 56 | 132.9 | 114.6 | 154.6 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

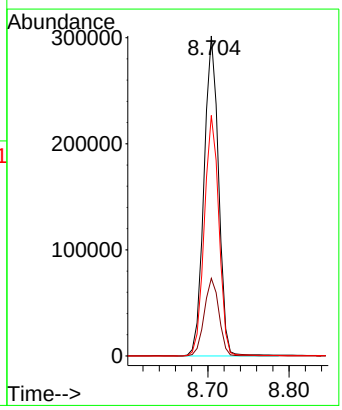


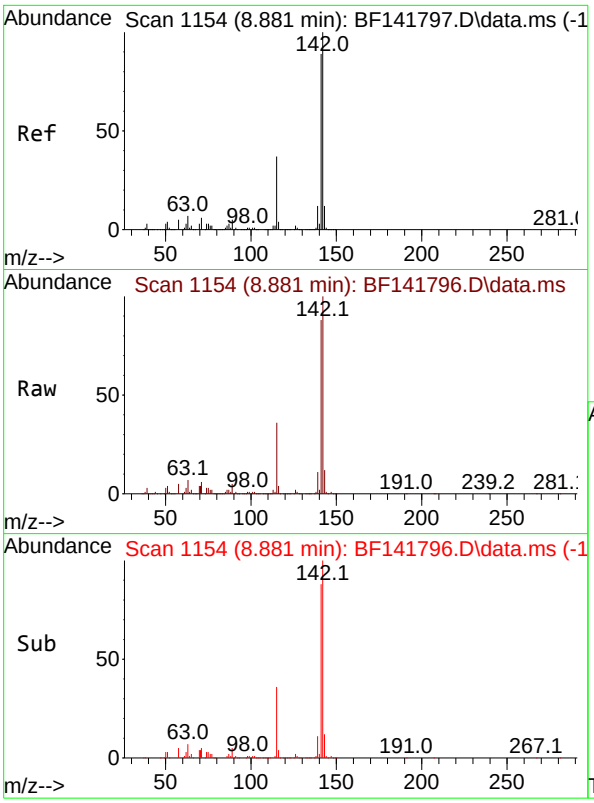




#36
4-Chloro-3-methylphenol
Concen: 20.776 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:107 Resp: 376094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 24.3 | 19.4 | 29.0 |
| 142 | 75.1 | 59.4 | 89.0 |

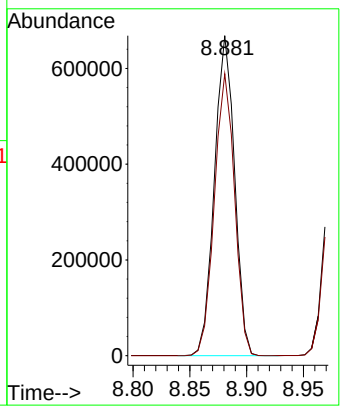





#37
2-Methylnaphthalene
Concen: 21.443 ng
RT: 8.881 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:142 Resp: 82649

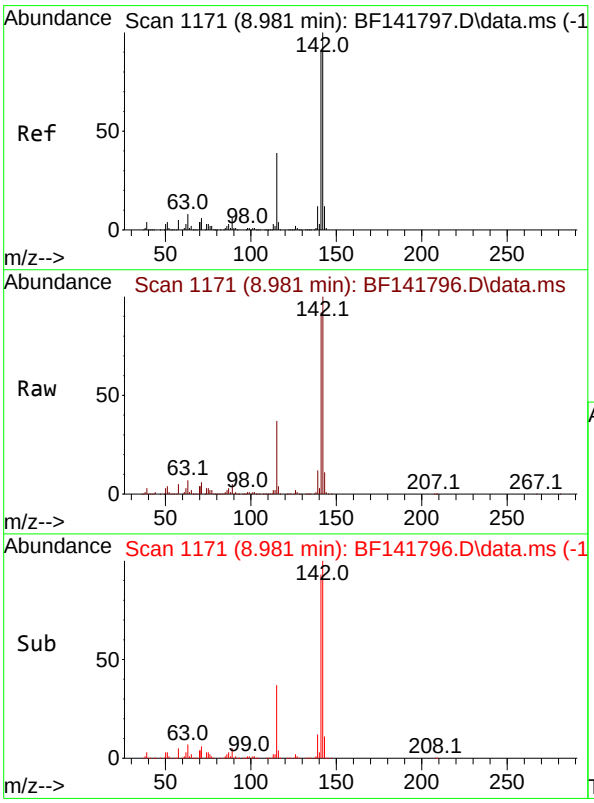
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.1 | 71.1 | 106.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

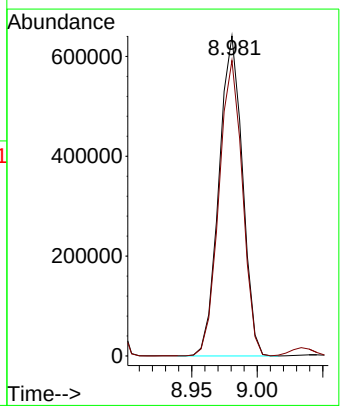
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

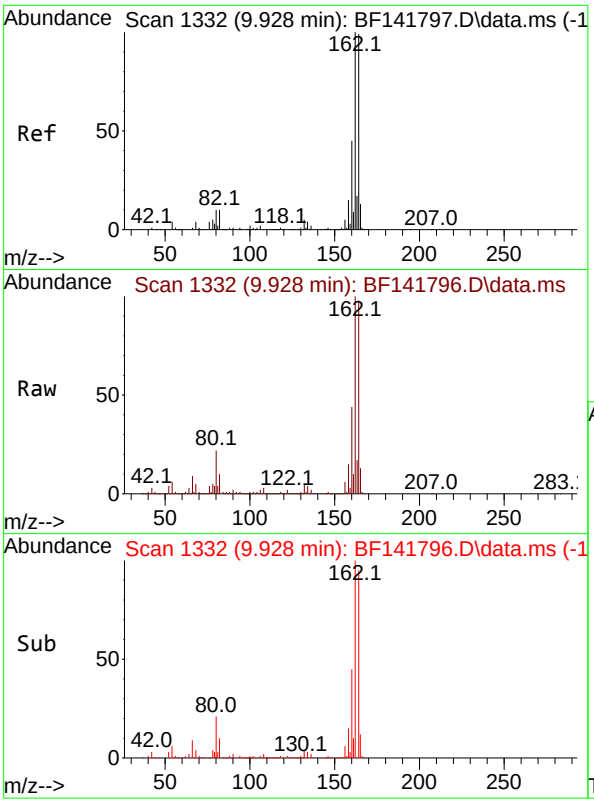



#38
1-Methylnaphthalene
Concen: 21.545 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:142 Resp: 796808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.3 | 73.1 | 109.7 |

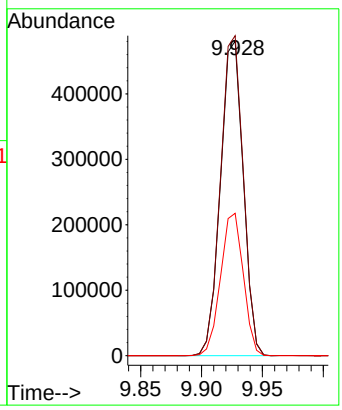





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:164 Resp: 62633

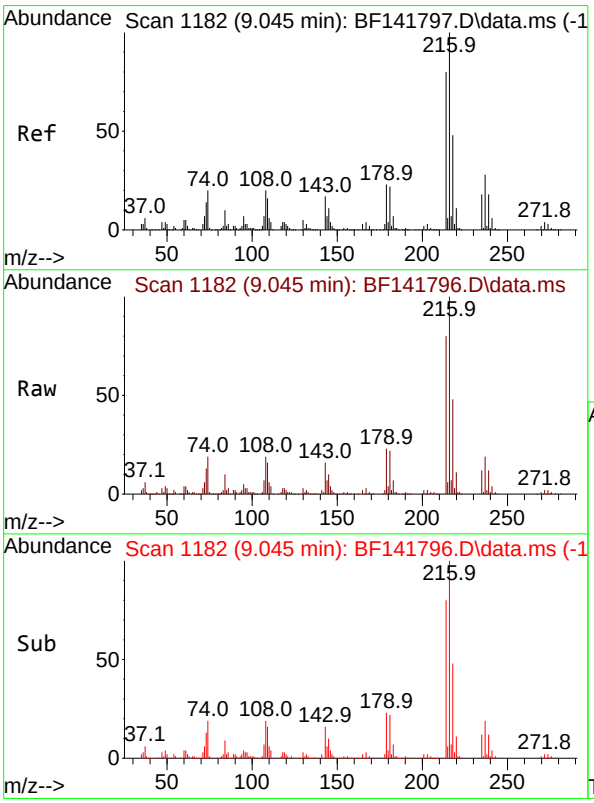
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.7 | 80.6 | 120.8 |
| 160 | 45.3 | 36.3 | 54.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

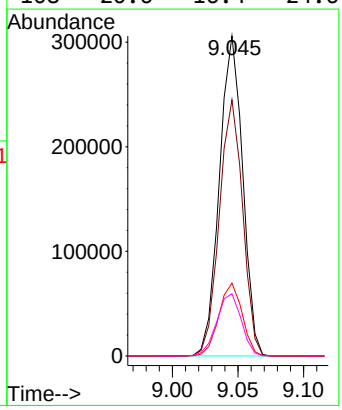
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

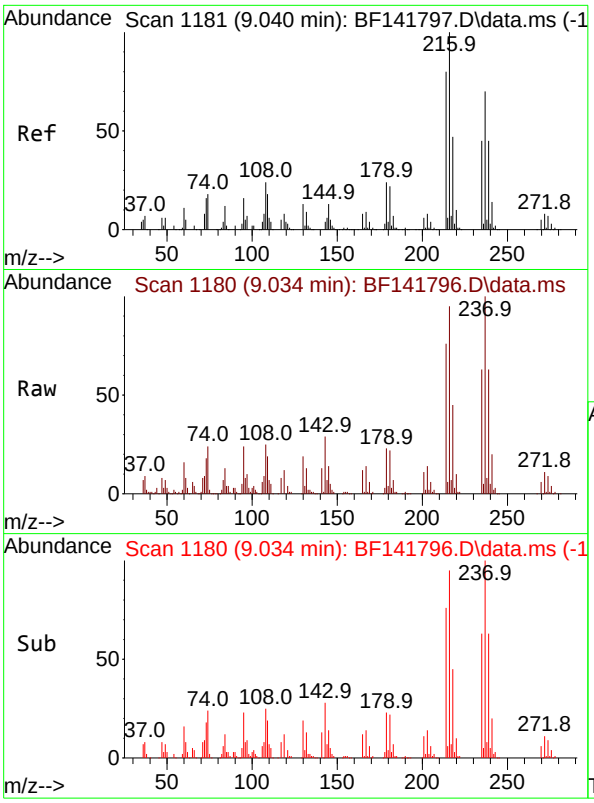



#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.861 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:216 Resp: 377360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 80.0 | 63.5 | 95.3 |
| 179 | 22.8 | 18.1 | 27.1 |
| 108 | 20.6 | 16.4 | 24.6 |






#41
Hexachlorocyclopentadiene
Concen: 20.943 ng
RT: 9.034 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

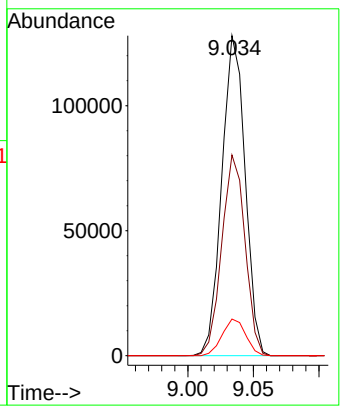
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

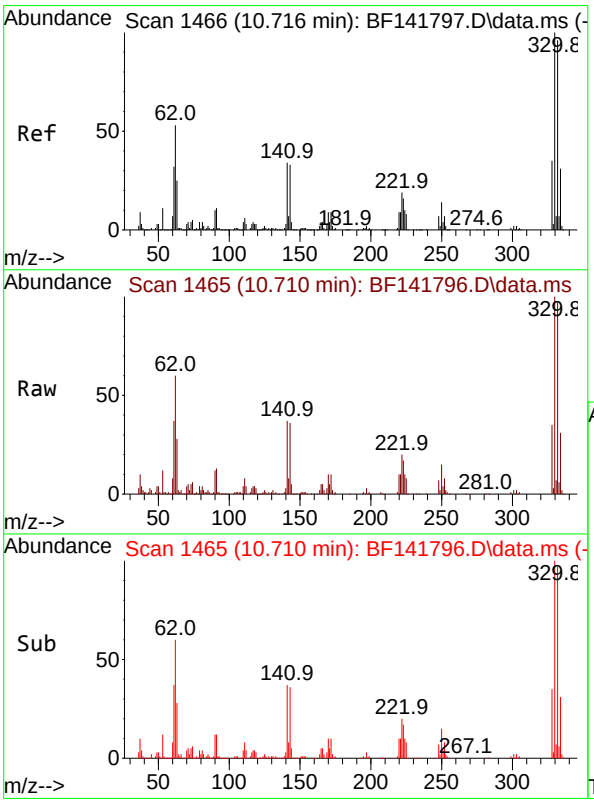
Tgt Ion:237 Resp: 15810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 62.7 | 43.3 | 83.3 |
| 272 | 11.4 | 0.0 | 31.9 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

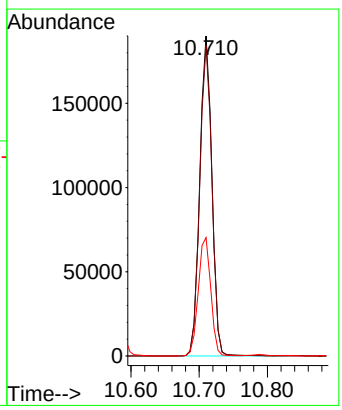


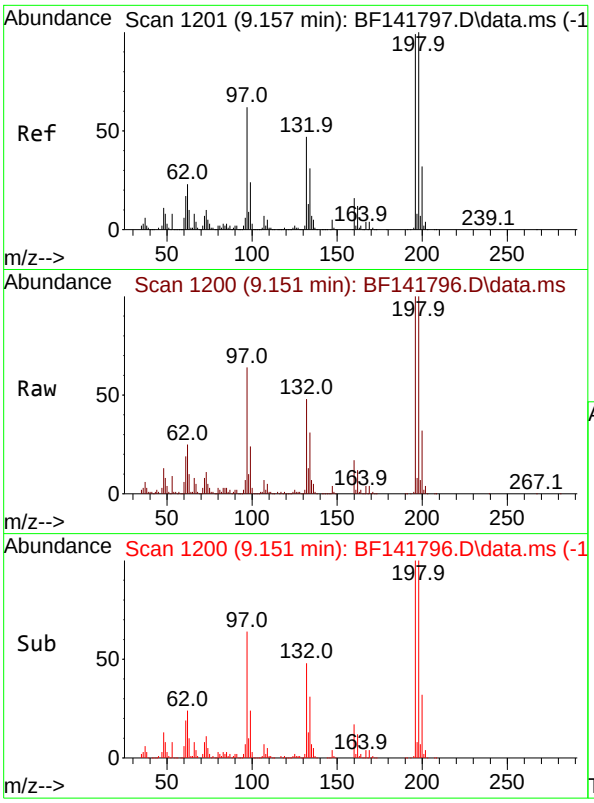




#42
2,4,6-Tribromophenol
Concen: 39.990 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:330 Resp: 235147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.3 | 76.6 | 115.0 |
| 141 | 38.3 | 29.0 | 43.4 |






#43
2,4,6-Trichlorophenol
Concen: 20.419 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

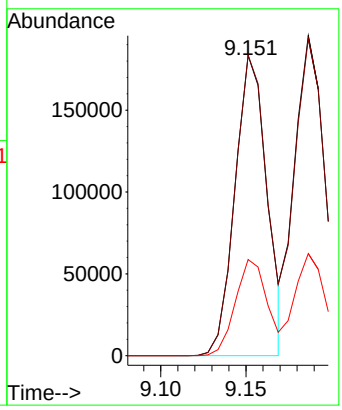
Tgt Ion:196 Resp: 23859

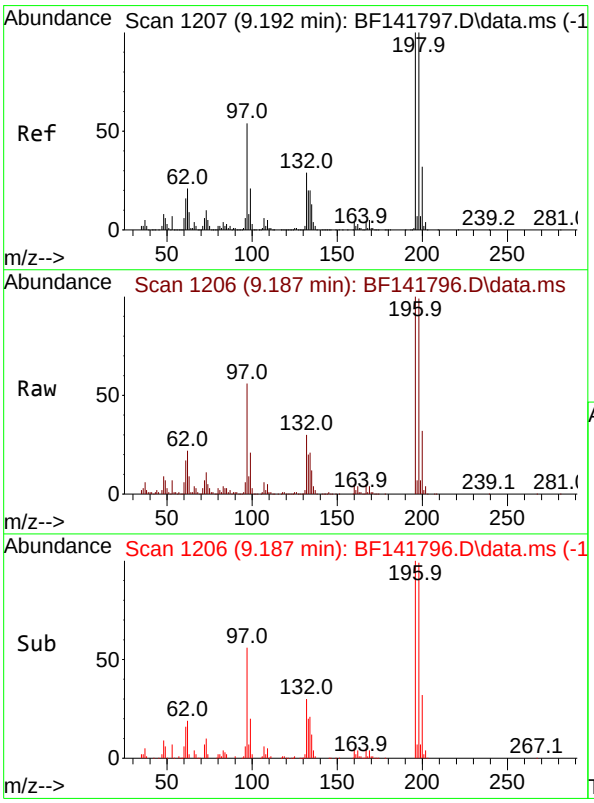
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.1 | 80.4 | 120.6 |
| 200 | 32.0 | 25.7 | 38.5 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

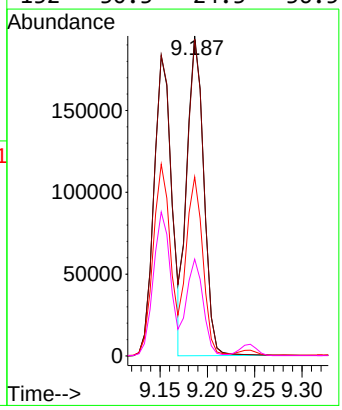


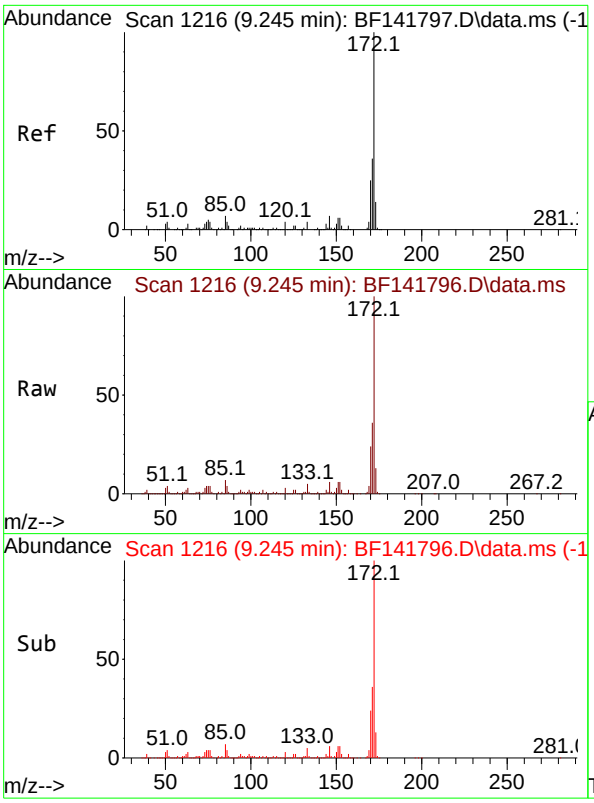




#44
2,4,5-Trichlorophenol
Concen: 20.976 ng
RT: 9.187 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:196 Resp: 242709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 99.1 | 79.7 | 119.5 |
| 97 | 55.9 | 44.2 | 66.2 |
| 132 | 30.3 | 24.3 | 36.5 |

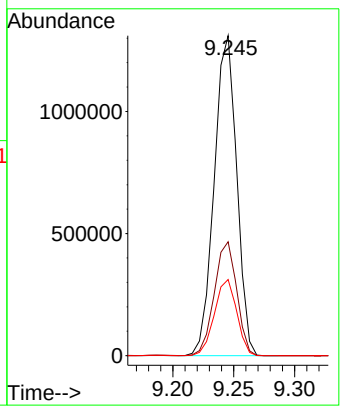





#45
2-Fluorobiphenyl
Concen: 43.170 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:172 Resp: 168631

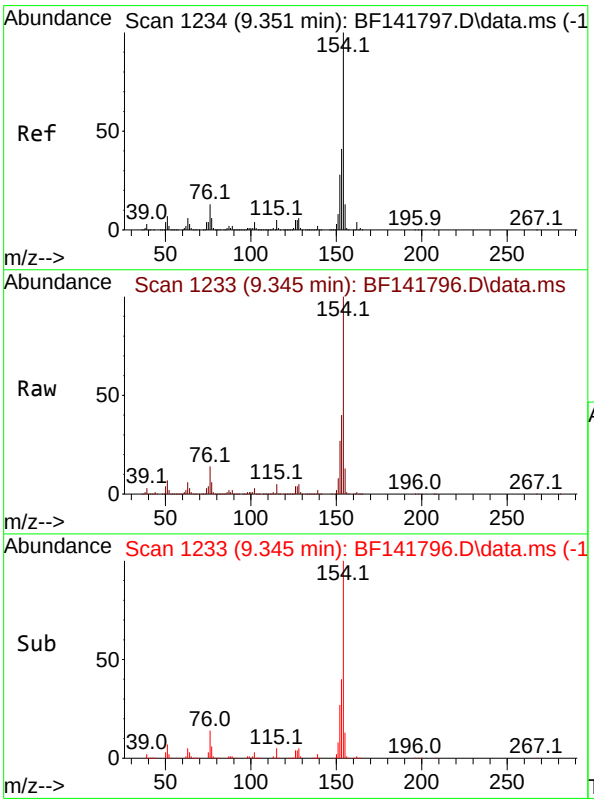
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.6 | 29.2 | 43.8 |
| 170 | 23.8 | 19.7 | 29.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

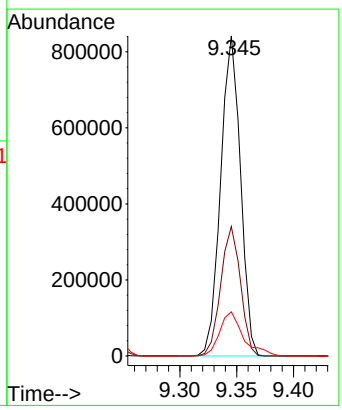
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

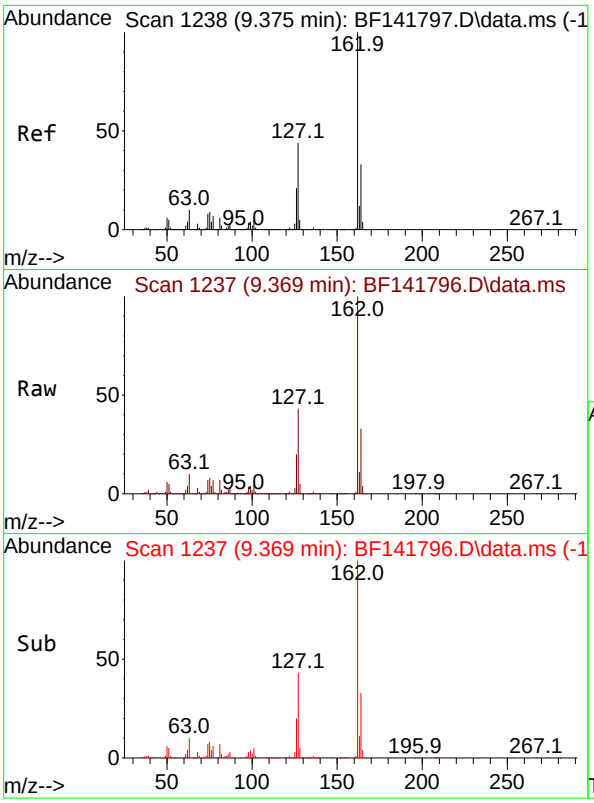



#46
1,1'-Biphenyl
Concen: 21.418 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:154 Resp: 1021081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.4 | 21.4 | 61.4 |
| 76 | 13.8 | 0.0 | 33.4 |

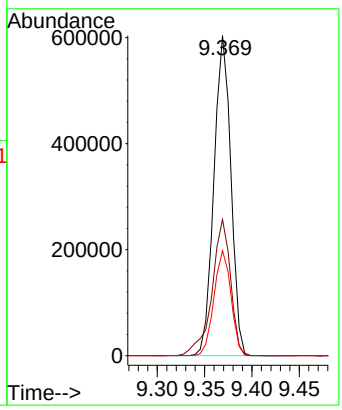





#47
2-Chloronaphthalene
Concen: 21.375 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:162 Resp: 75214

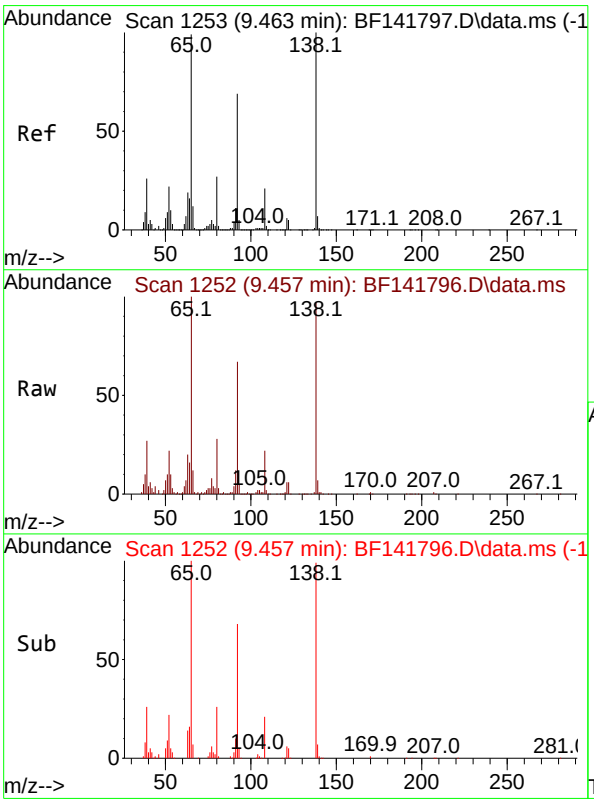
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 42.5 | 35.0 | 52.6 |
| 164 | 32.9 | 26.6 | 40.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

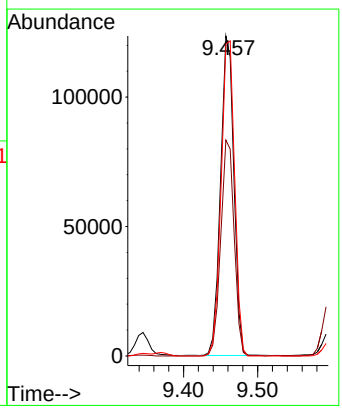
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

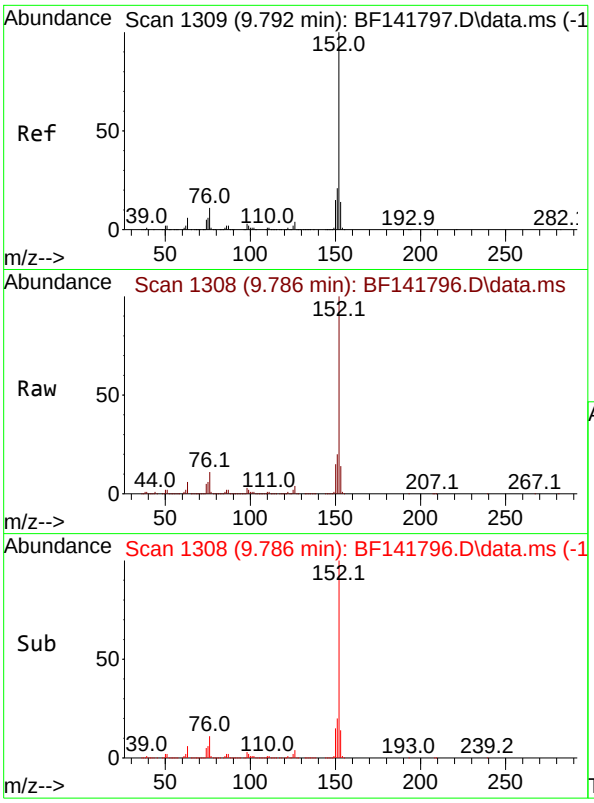



#48
2-Nitroaniline
Concen: 18.870 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 65 Resp: 153869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 67.5 | 55.7 | 83.5 |
| 138 | 97.5 | 80.6 | 121.0 |

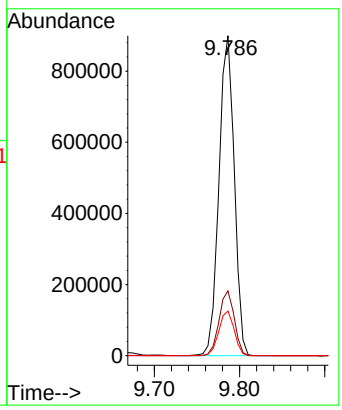





#49
Acenaphthylene
Concen: 21.349 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:152 Resp: 112630

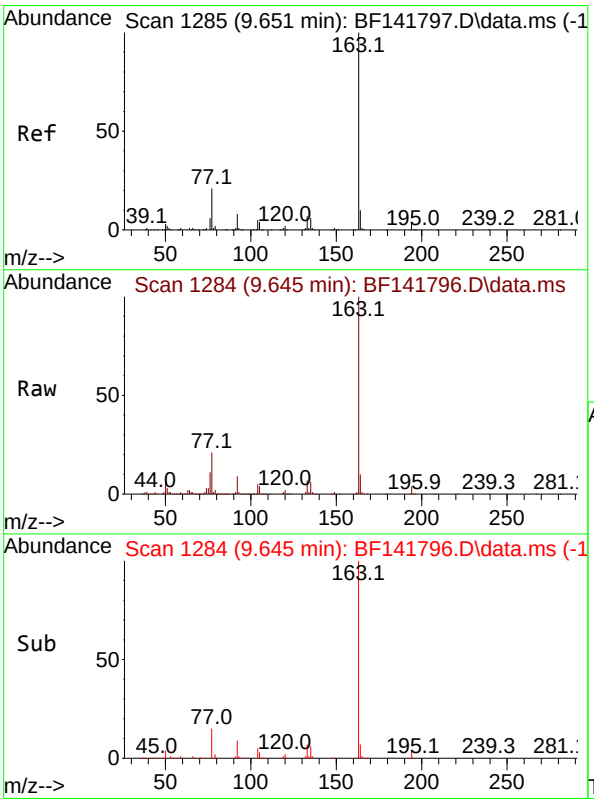
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.6 | 24.8 |
| 153 | 13.9 | 11.2 | 16.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

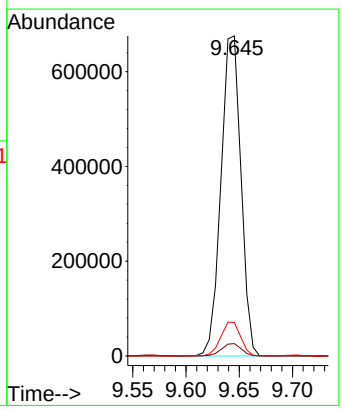
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

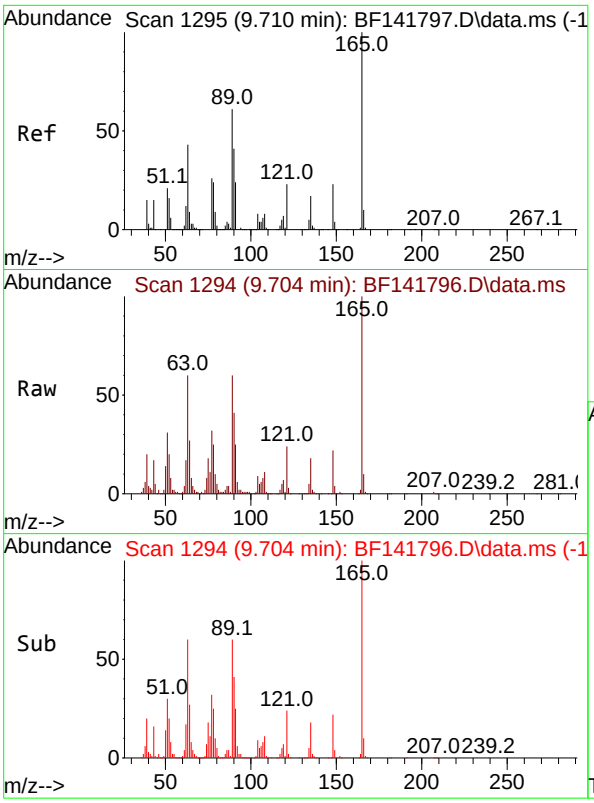



#50
Dimethylphthalate
Concen: 20.977 ng
RT: 9.645 min Scan# 1284
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:163 Resp: 879870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.9 | 3.1 | 4.7 |
| 164 | 10.4 | 8.4 | 12.6 |






#51
2,6-Dinitrotoluene
Concen: 19.796 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

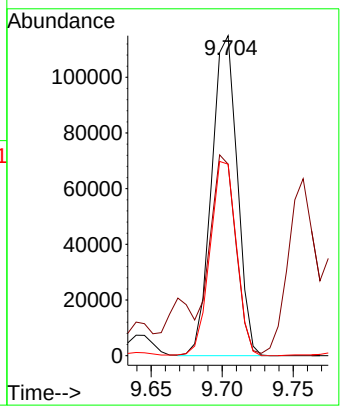
Tgt Ion:165 Resp: 14467

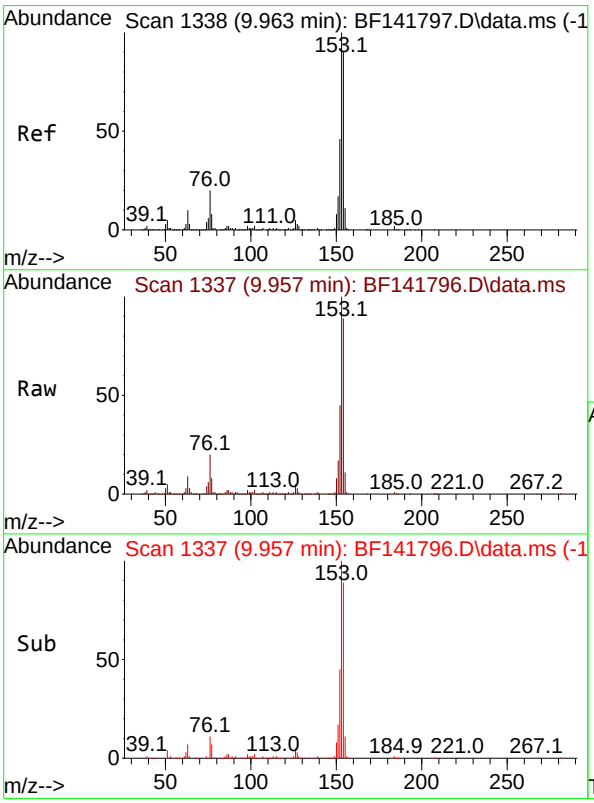
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 59.9 | 49.5 | 74.3 |
| 89 | 59.8 | 49.0 | 73.4 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

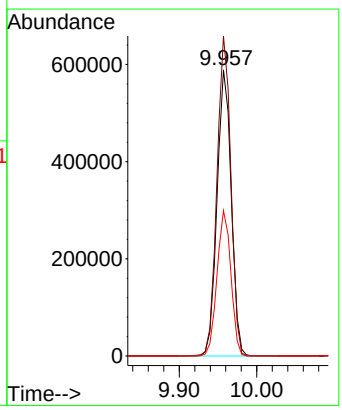


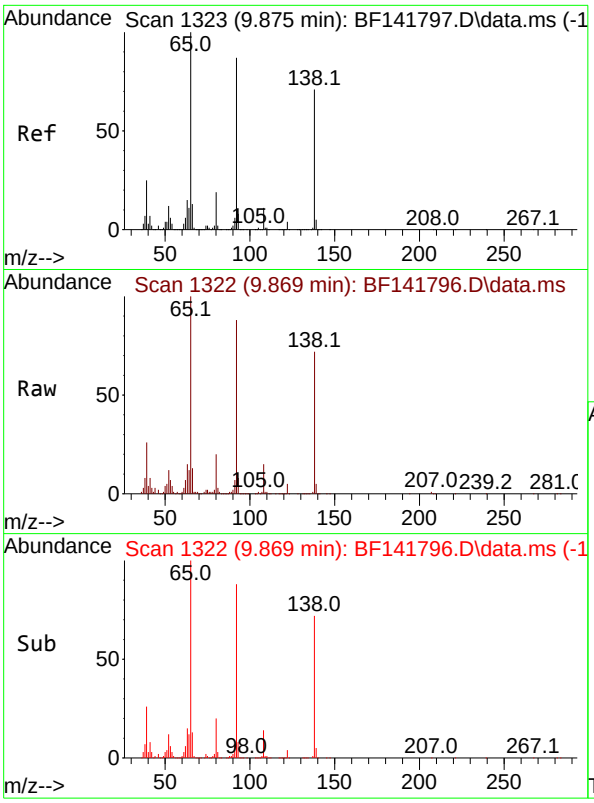




#52
Acenaphthene
Concen: 21.068 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:154 Resp: 749963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 111.9 | 88.7 | 133.1 |
| 152 | 50.8 | 40.9 | 61.3 |






#53
3-Nitroaniline
Concen: 19.664 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

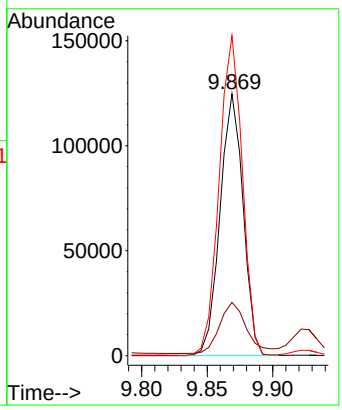
Tgt Ion:138 Resp: 15211

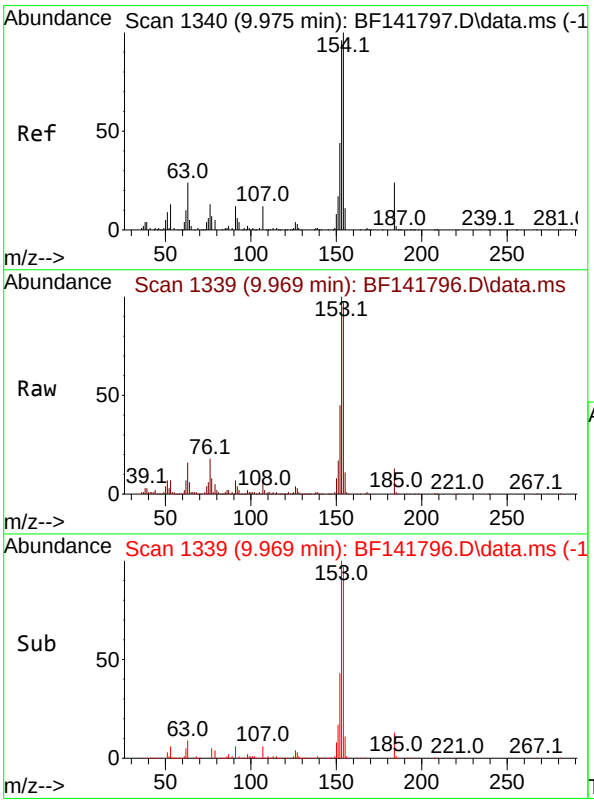
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 20.3 | 12.7 | 19.1# |
| 92 | 122.3 | 97.9 | 146.9 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

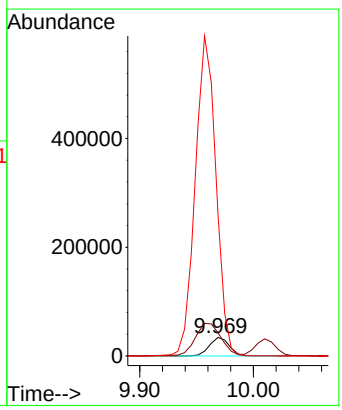


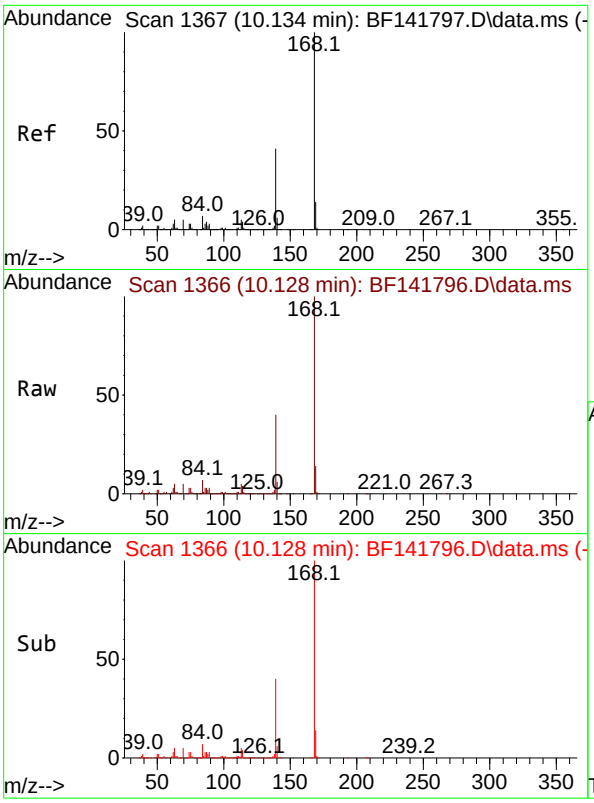




#54
2,4-Dinitrophenol
Concen: 19.116 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:184 Resp: 41521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 125.2 | 79.0 | 118.6# |
| 154 | 760.8 | 335.8 | 503.8# |

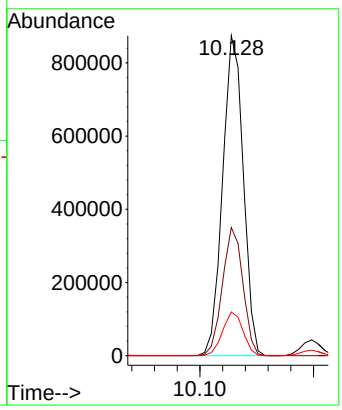





#55
Dibenzofuran
Concen: 21.332 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:168 Resp: 110527

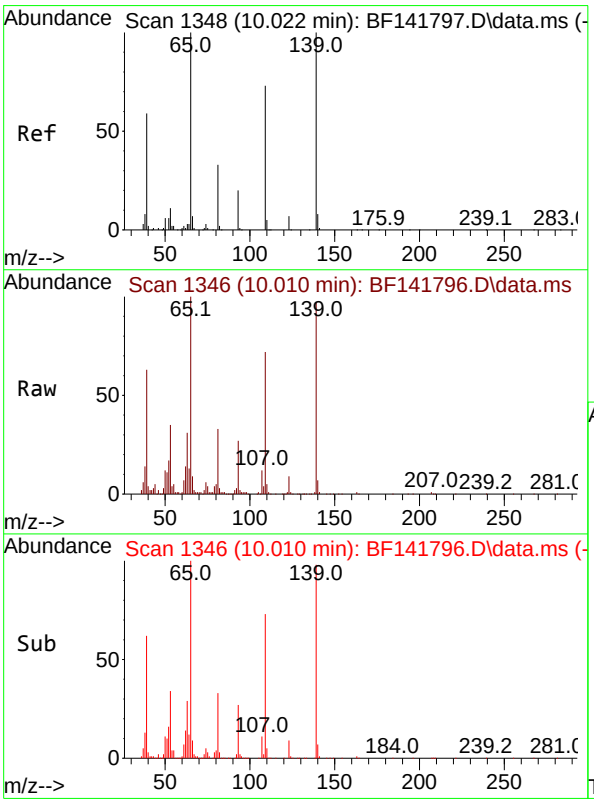
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.1 | 32.9 | 49.3 |
| 169 | 13.6 | 11.1 | 16.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

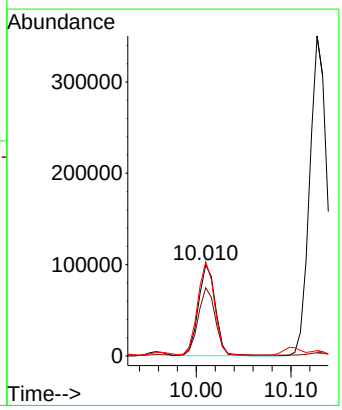
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

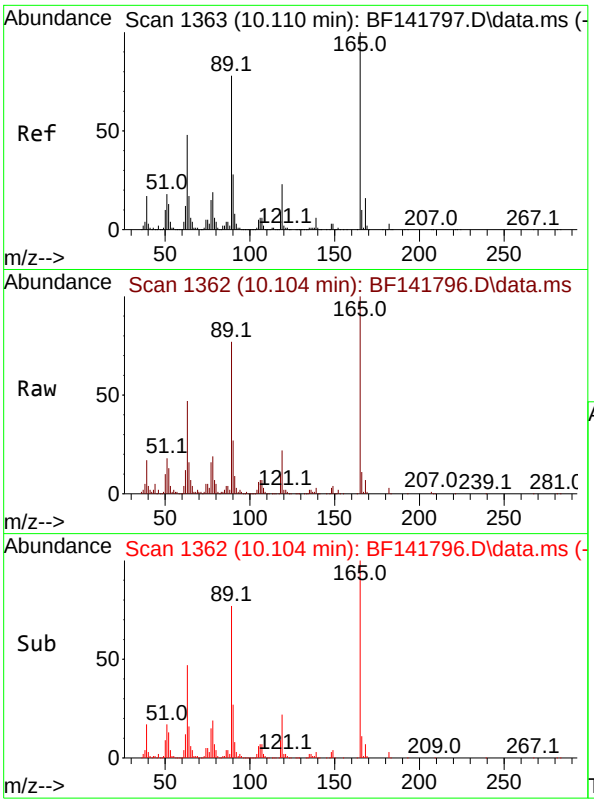



#56
4-Nitrophenol
Concen: 19.922 ng
RT: 10.010 min Scan# 1346
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:139 Resp: 123415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 74.8 | 53.4 | 93.4 |
| 65 | 103.5 | 82.1 | 122.1 |

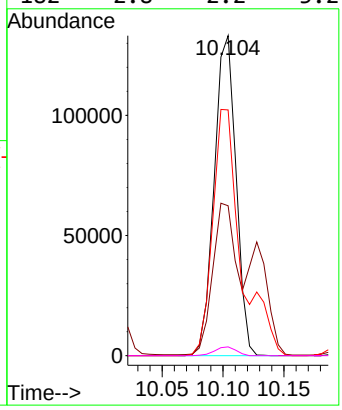





#57
2,4-Dinitrotoluene
Concen: 19.214 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:165 Resp: 16594

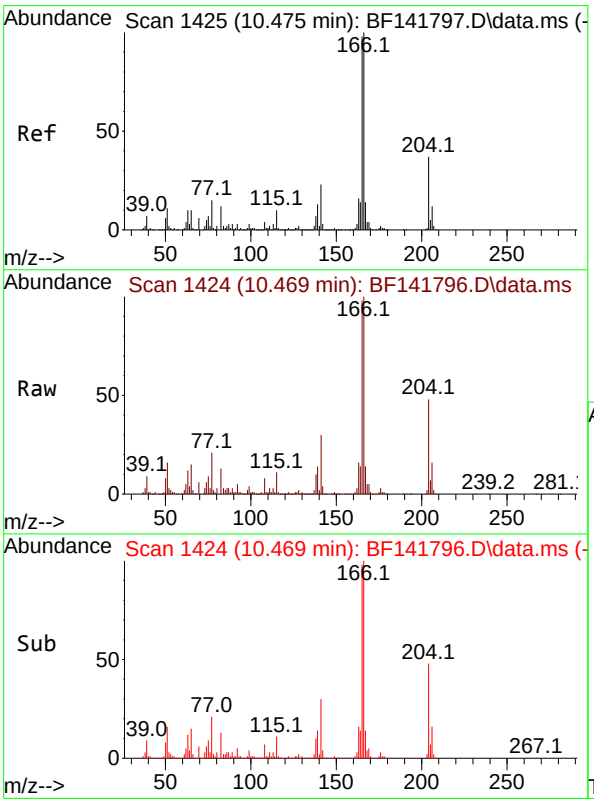
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 46.9 | 38.8 | 58.2 |
| 89 | 76.8 | 62.6 | 94.0 |
| 182 | 2.8 | 2.2 | 3.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

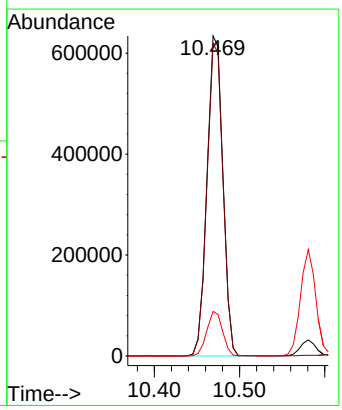
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

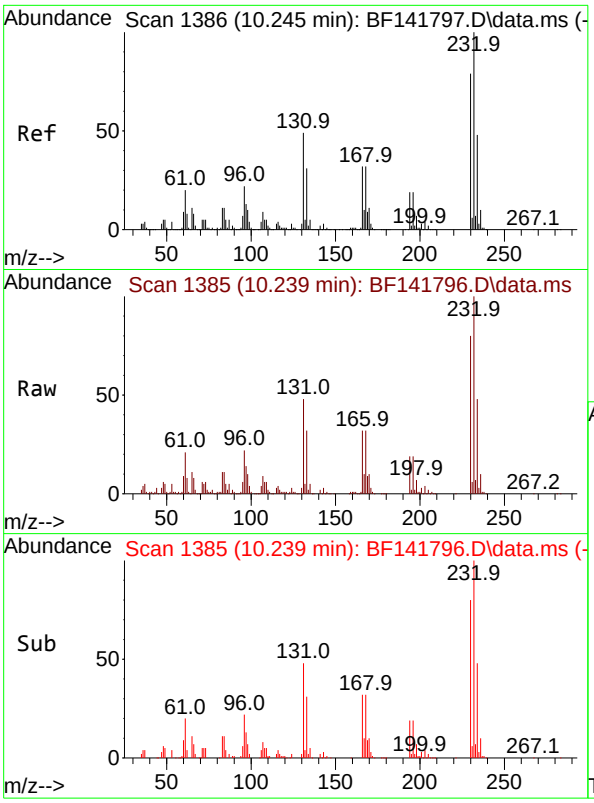



#58
Fluorene
Concen: 21.187 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:166 Resp: 822264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.7 | 78.6 | 117.8 |
| 167 | 13.9 | 11.0 | 16.4 |

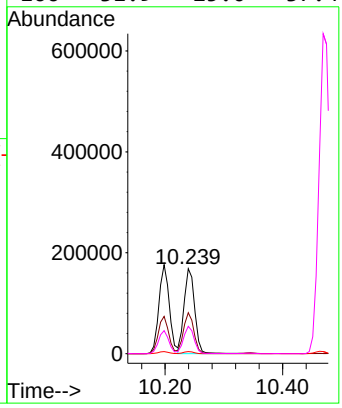





#59
2,3,4,6-Tetrachlorophenol
Concen: 20.902 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:232 Resp: 21033

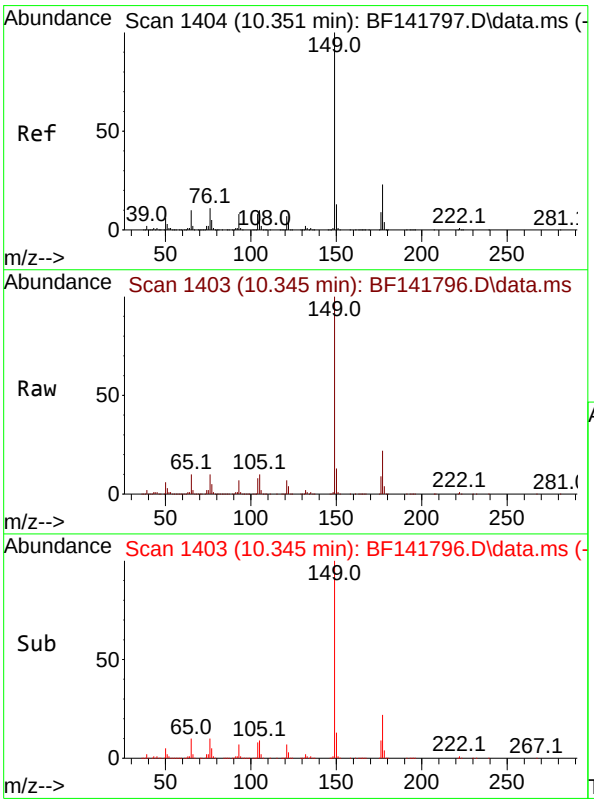
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 47.6 | 37.8 | 56.8 |
| 130 | 2.5 | 2.0 | 3.0 |
| 166 | 31.9 | 25.0 | 37.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

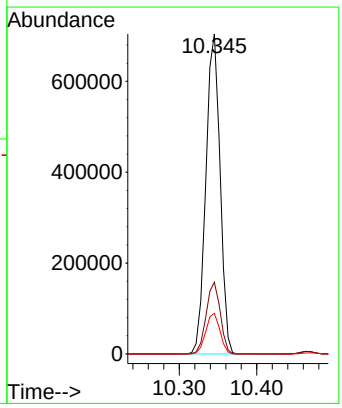
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

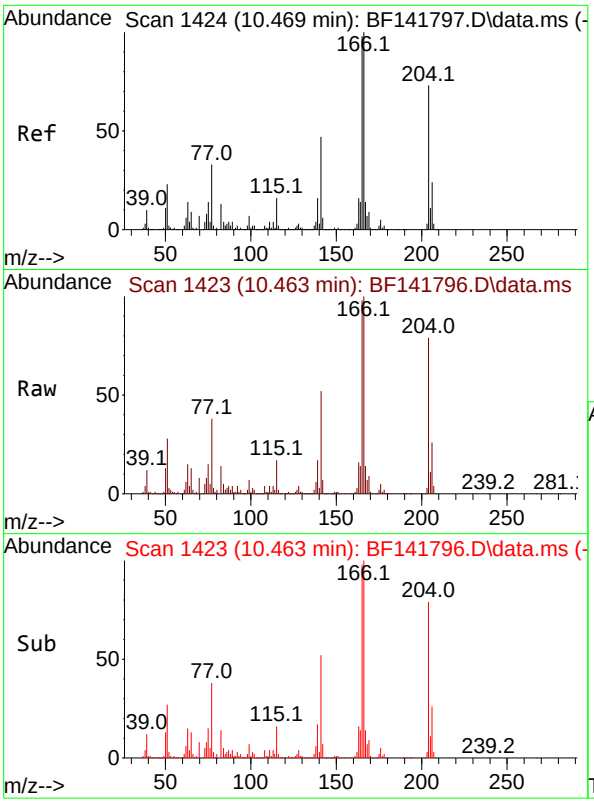



#60
Diethylphthalate
Concen: 21.264 ng
RT: 10.345 min Scan# 1403
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 894118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.4 | 18.3 | 27.5 |
| 150 | 12.7 | 10.3 | 15.5 |

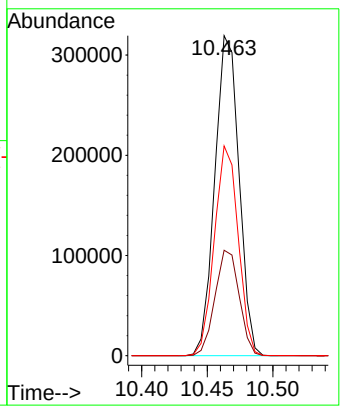





#61
4-Chlorophenyl-phenylether
Concen: 21.069 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:204 Resp: 40969

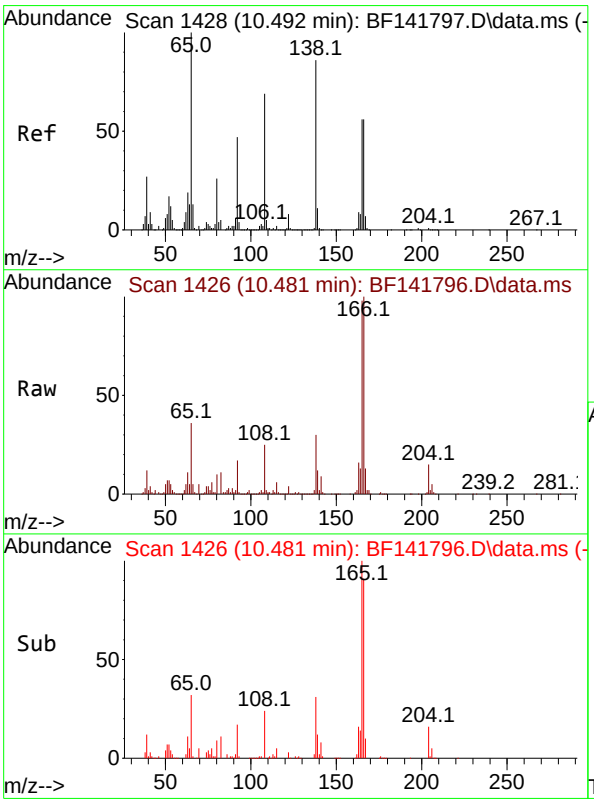
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.9 | 26.2 | 39.4 |
| 141 | 65.6 | 51.7 | 77.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

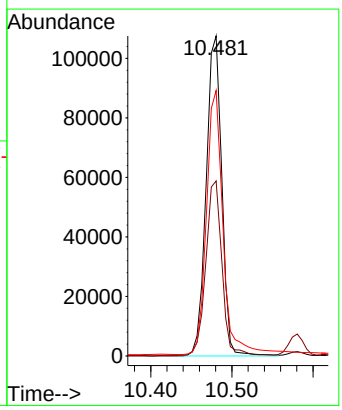
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

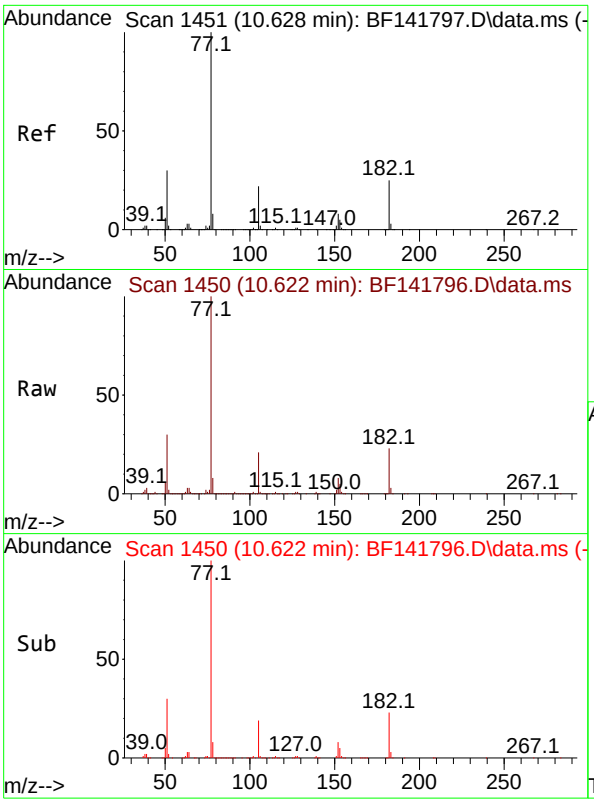



#62
4-Nitroaniline
Concen: 20.031 ng
RT: 10.481 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:138 Resp: 143482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 54.7 | 34.9 | 74.9 |
| 108 | 82.9 | 59.6 | 99.6 |

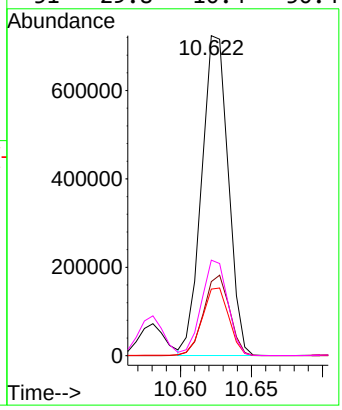





#63
Azobenzene
Concen: 21.288 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 77 Resp: 942499

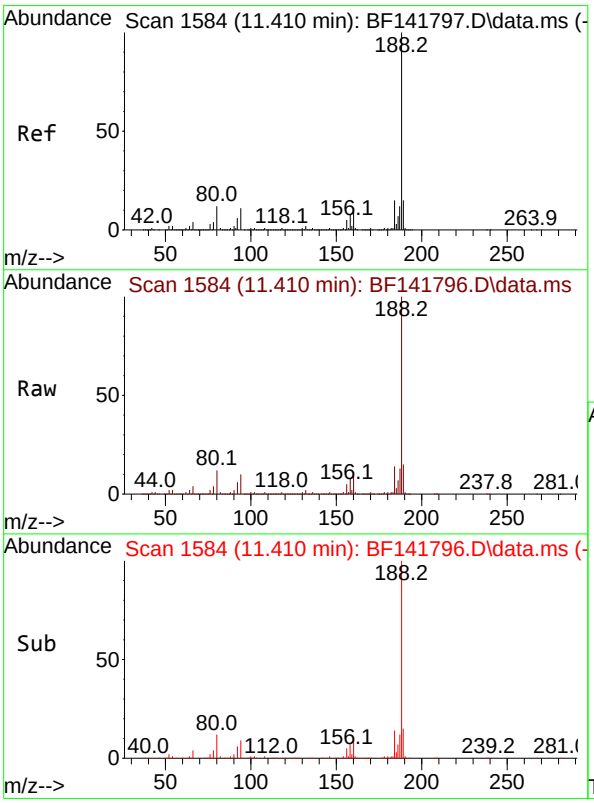
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 23.2 | 4.2 | 44.2 |
| 105 | 20.8 | 1.5 | 41.5 |
| 51 | 29.8 | 10.4 | 50.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

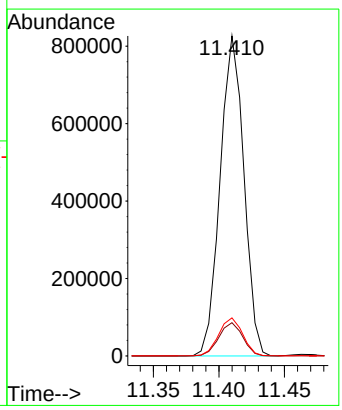
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

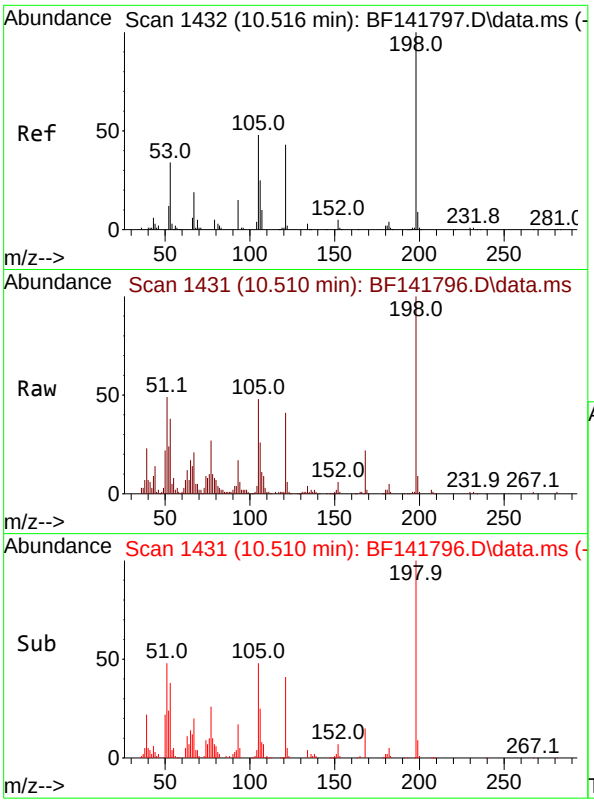



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:188 Resp: 1041715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.4 | 8.9 | 13.3 |
| 80 | 11.9 | 9.7 | 14.5 |






#65
4,6-Dinitro-2-methylphenol
Concen: 19.161 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

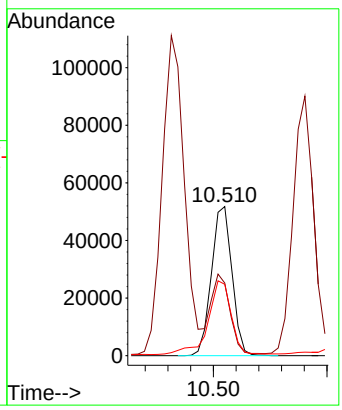
Tgt Ion:198 Resp: 6516

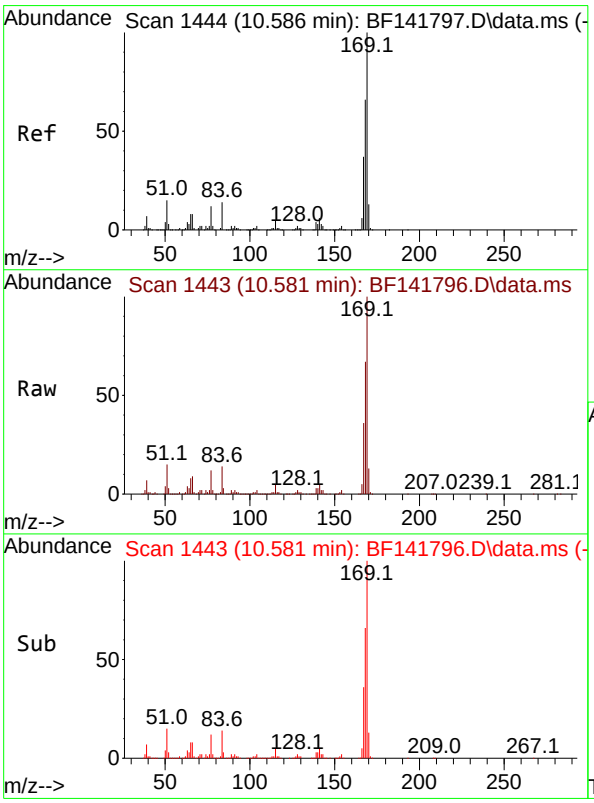
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 48.7 | 32.1 | 72.1 |
| 105 | 47.9 | 28.5 | 68.5 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

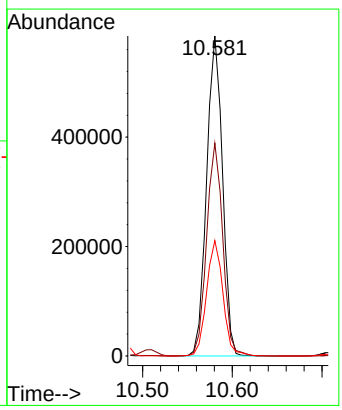


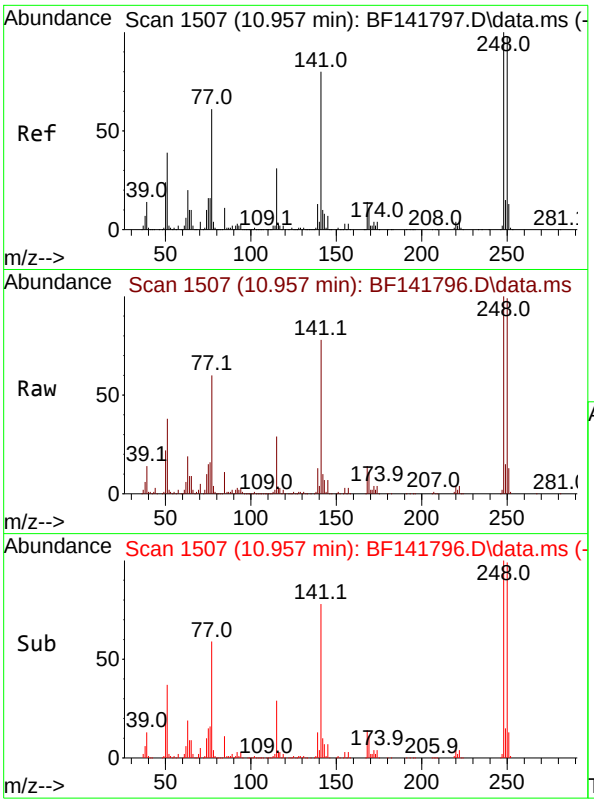




#66
n-Nitrosodiphenylamine
Concen: 20.977 ng
RT: 10.581 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:169 Resp: 717531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.5 | 53.0 | 79.6 |
| 167 | 36.0 | 29.3 | 43.9 |

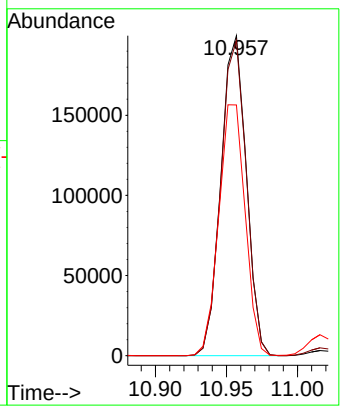





#67
4-Bromophenyl-phenylether
Concen: 20.423 ng
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:248 Resp: 24850

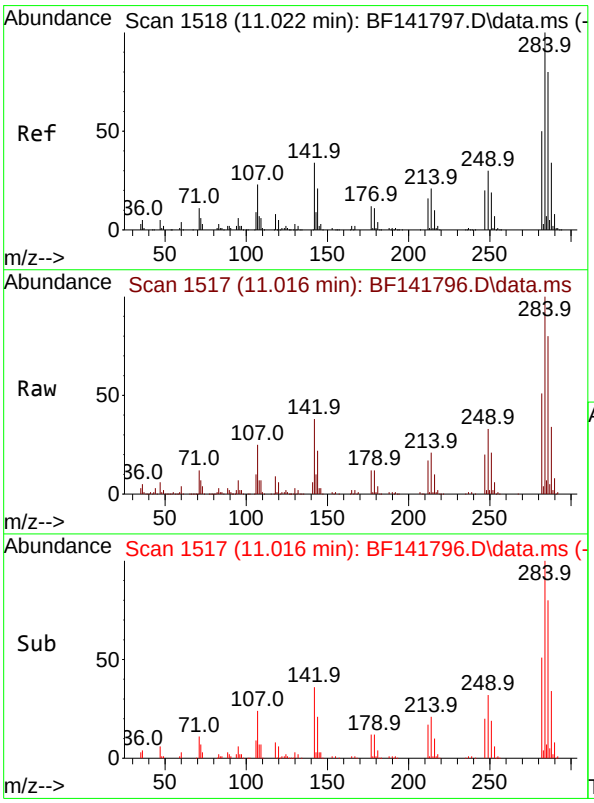
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 98.6 | 78.1 | 117.1 |
| 141 | 78.3 | 64.3 | 96.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

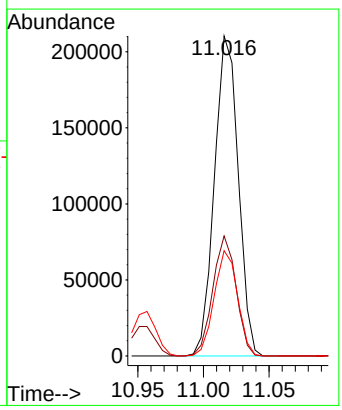
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

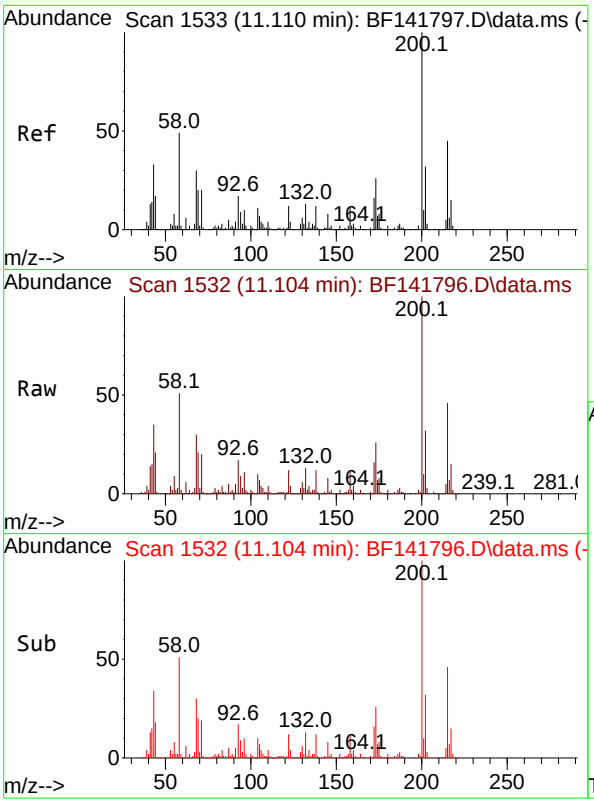



#68
Hexachlorobenzene
Concen: 20.653 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:284 Resp: 265367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 37.5 | 28.2 | 42.2 |
| 249 | 32.9 | 25.5 | 38.3 |






#69
Atrazine
Concen: 21.680 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

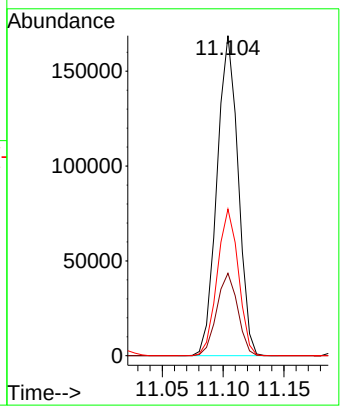
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

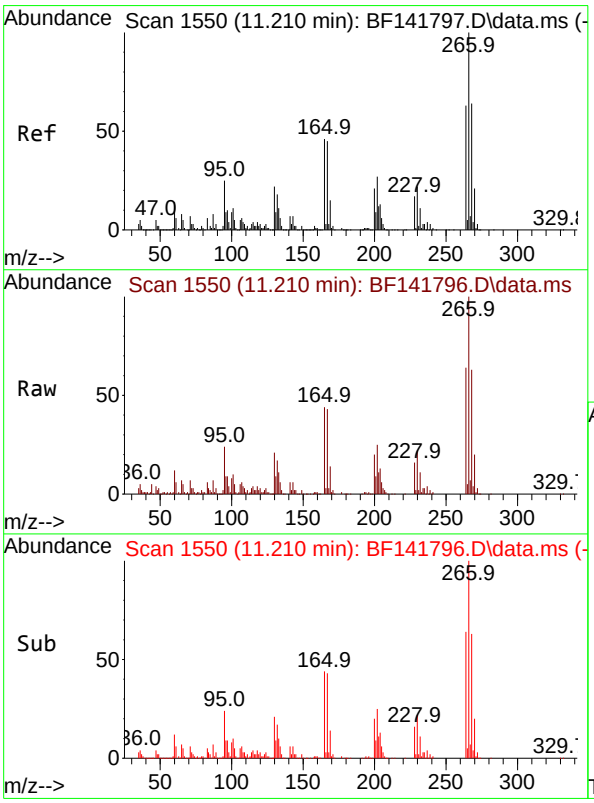
Tgt Ion:200 Resp: 20393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.7 | 5.6 | 45.6 |
| 215 | 45.8 | 25.3 | 65.3 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

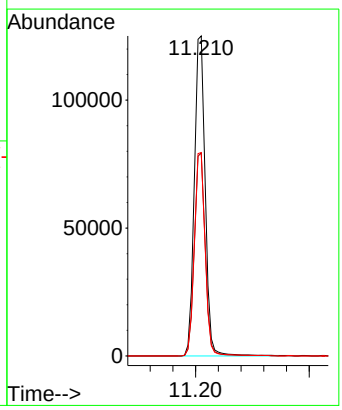


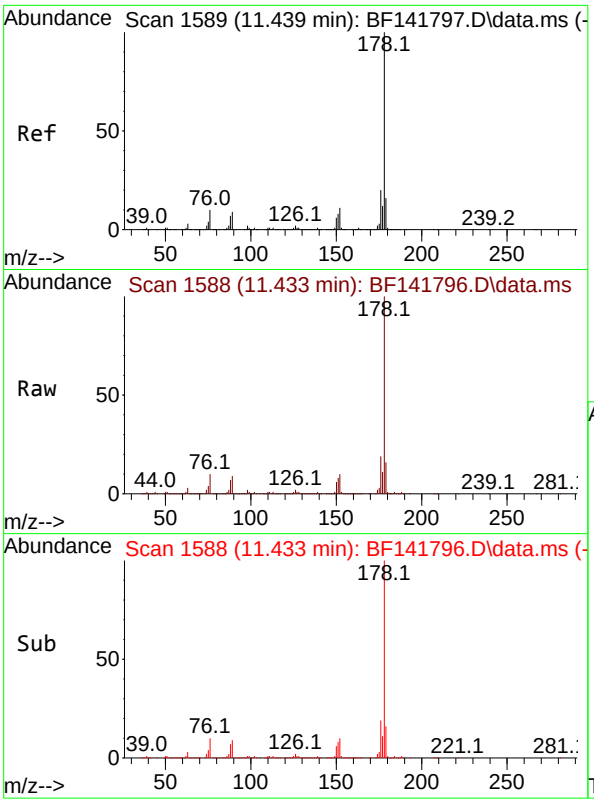




#70
Pentachlorophenol
Concen: 20.521 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:266 Resp: 167231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.5 | 50.9 | 76.3 |
| 264 | 63.6 | 50.2 | 75.4 |

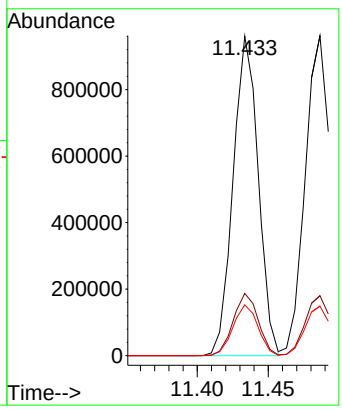





#71
Phenanthrene
Concen: 21.209 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:178 Resp: 118176

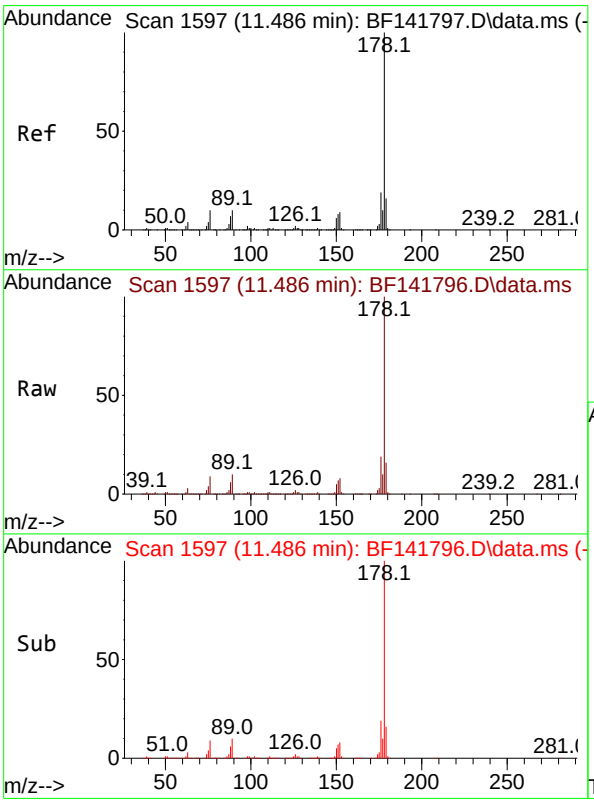
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 16.0 | 24.0 |
| 179 | 15.9 | 12.6 | 19.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

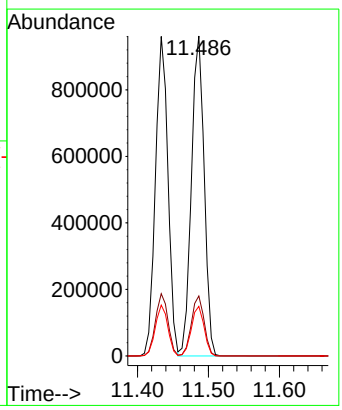
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

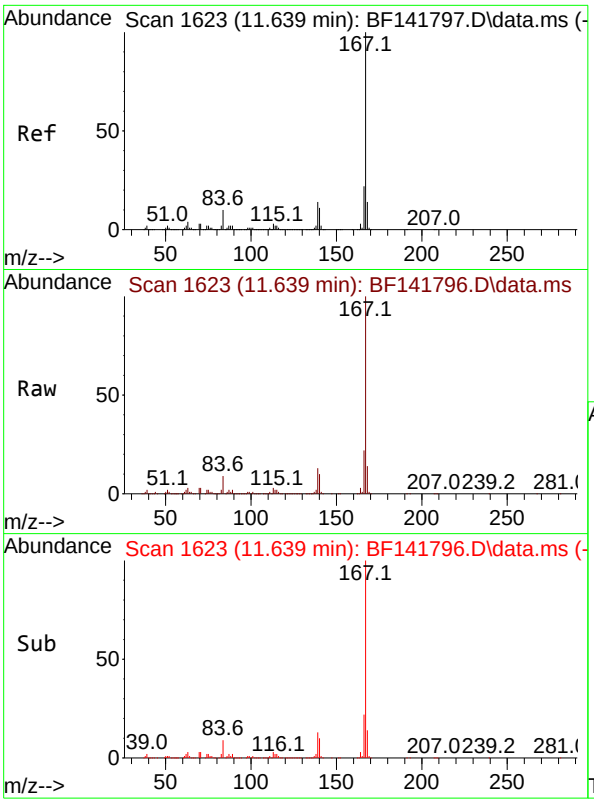



#72
Anthracene
Concen: 21.554 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:178 Resp: 1203701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.4 | 23.0 |
| 179 | 15.5 | 12.8 | 19.2 |

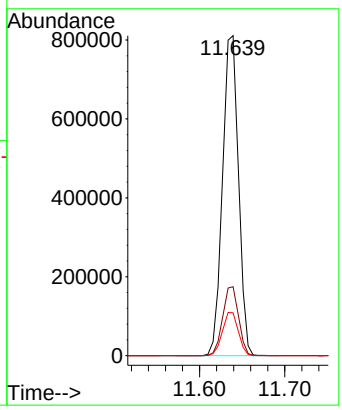





#73
Carbazole
Concen: 21.416 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:167 Resp: 105614

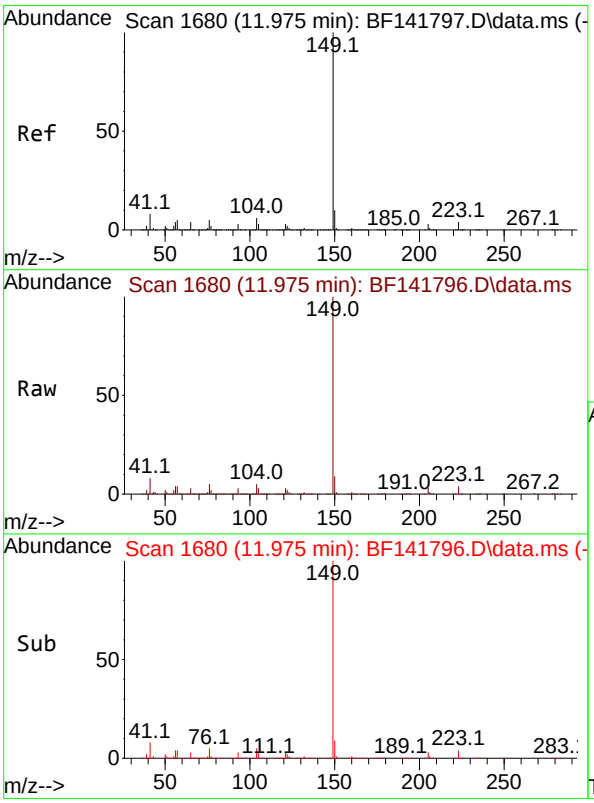
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.6 | 17.5 | 26.3 |
| 139 | 13.4 | 11.3 | 16.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

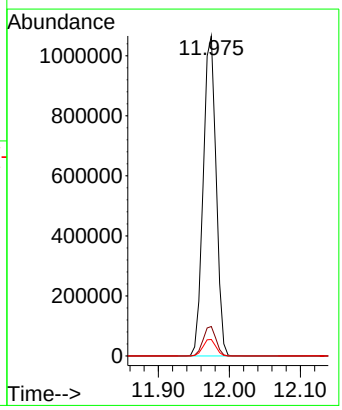
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

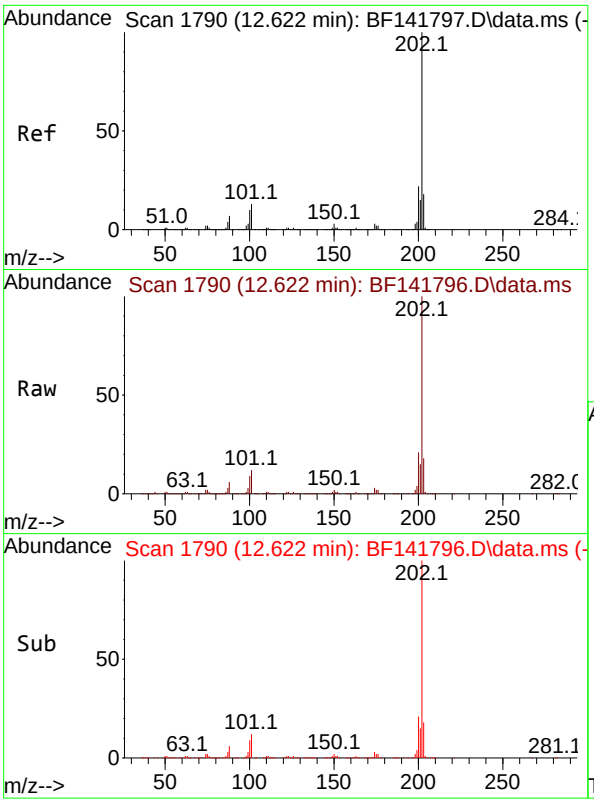



#74
Di-n-butylphthalate
Concen: 21.518 ng
RT: 11.975 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 1345098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.2 | 7.7 | 11.5 |
| 104 | 5.2 | 4.4 | 6.6 |

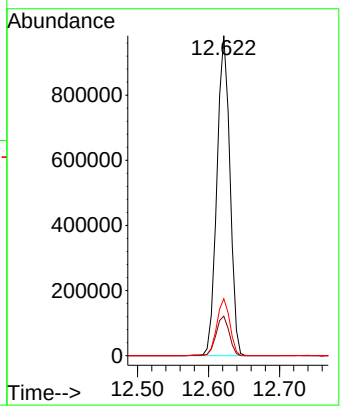





#75
Fluoranthene
Concen: 21.753 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:202 Resp: 124203

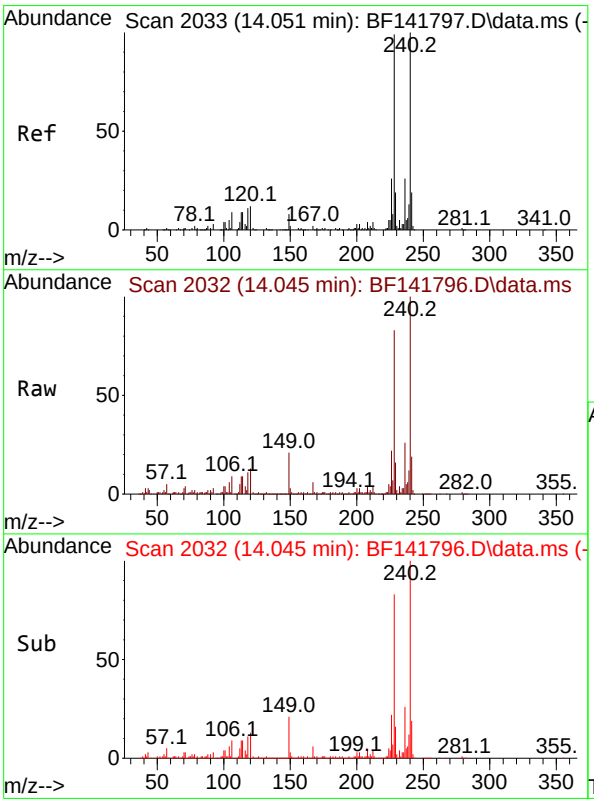
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.3 | 0.0 | 32.8 |
| 203 | 17.8 | 0.0 | 38.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

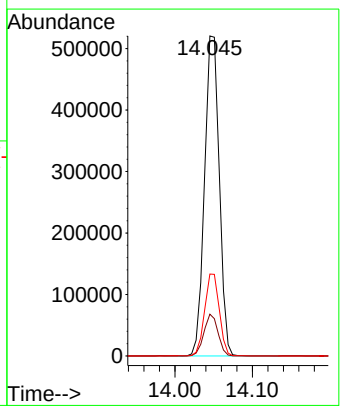
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

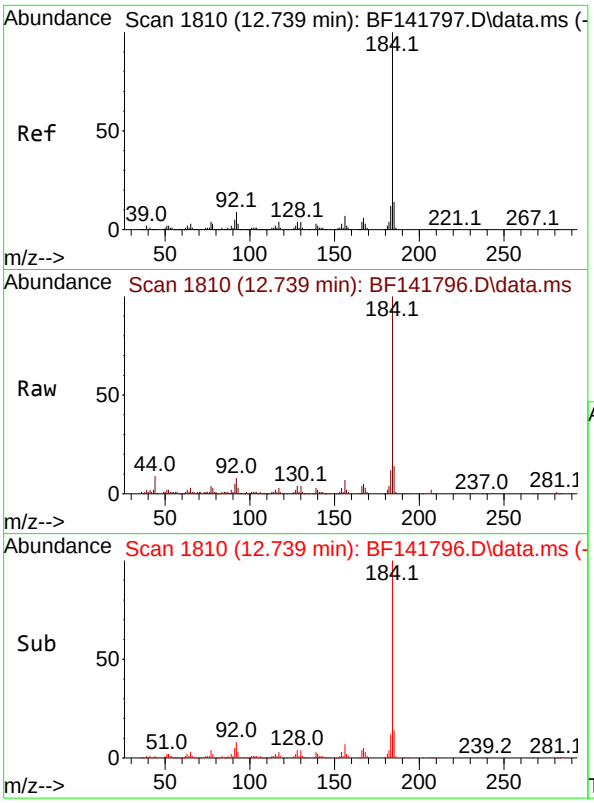



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:240 Resp: 688606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 13.1 | 9.7 | 14.5 |
| 236 | 25.6 | 21.0 | 31.4 |

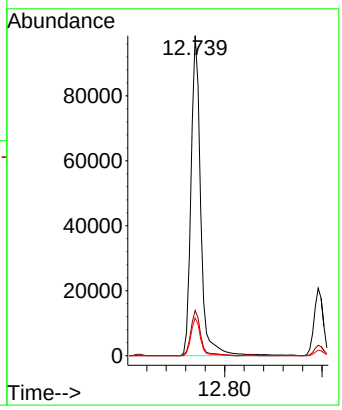





#77
Benzidine
Concen: 15.752 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:184 Resp: 13652

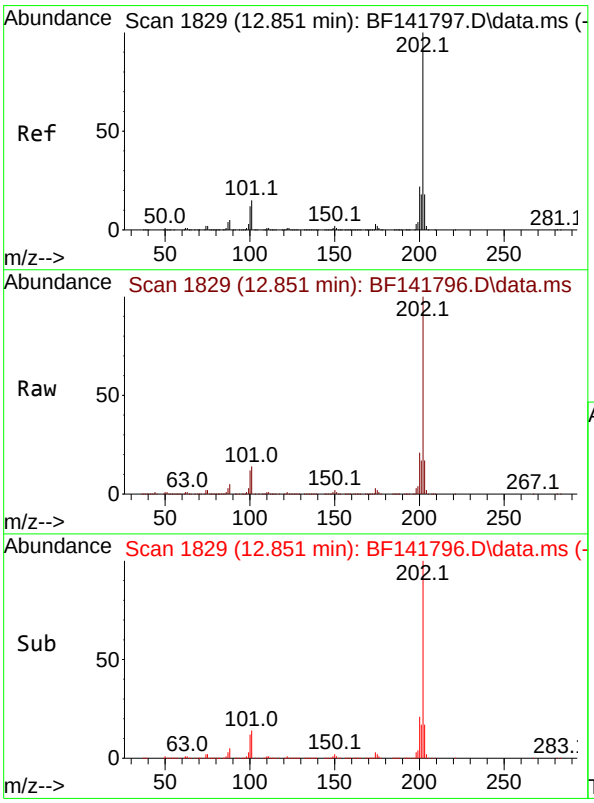
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.1 | 11.6 | 17.4 |
| 183 | 11.8 | 9.4 | 14.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

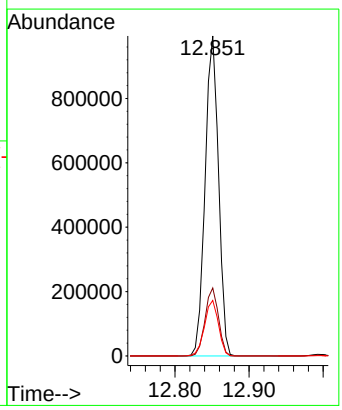
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

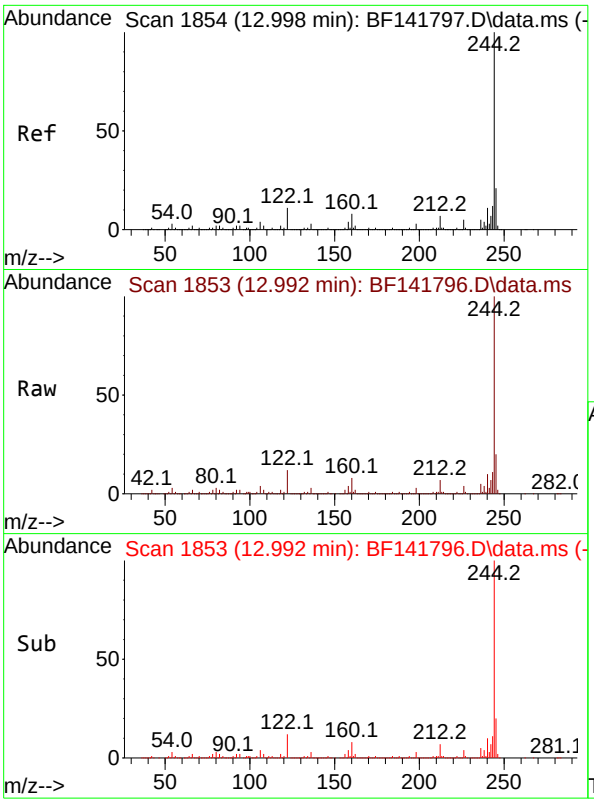



#78
Pyrene
Concen: 20.957 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:202 Resp: 1249647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.3 | 17.4 | 26.0 |
| 203 | 17.4 | 14.6 | 22.0 |

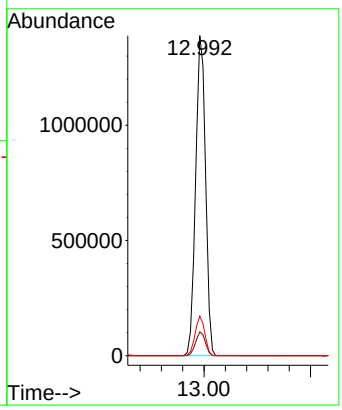





#79
Terphenyl-d14
Concen: 41.959 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:244 Resp: 178580

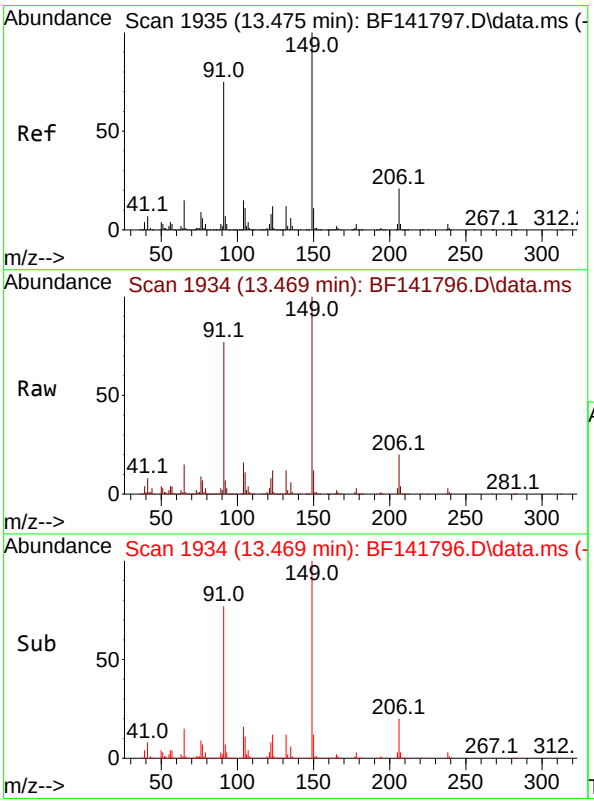
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.4 | 6.0 | 9.0 |
| 122 | 12.4 | 9.0 | 13.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

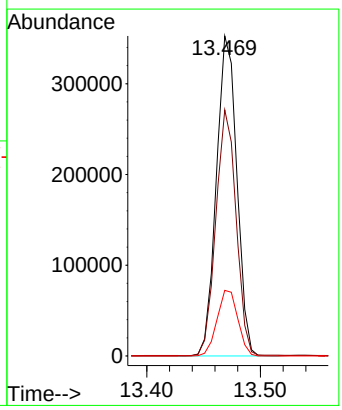
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

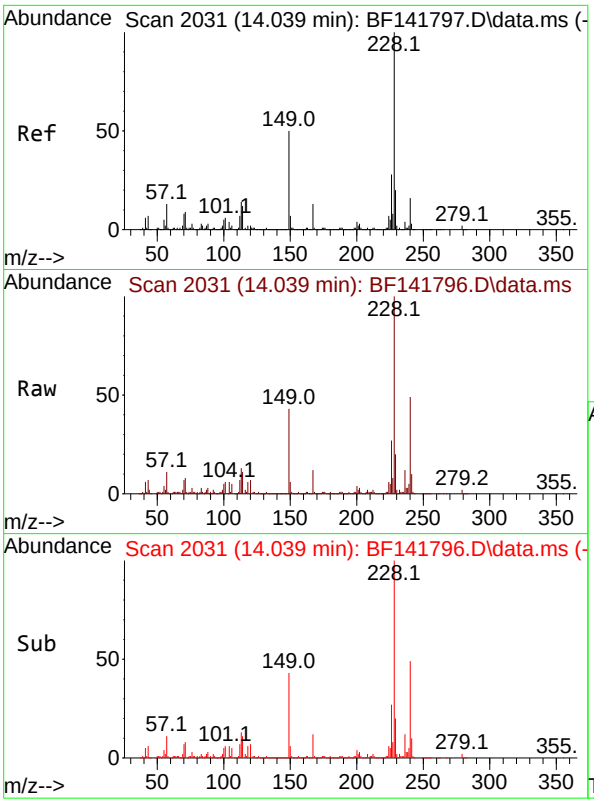



#80
Butylbenzylphthalate
Concen: 20.434 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 442702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 76.9 | 60.1 | 90.1 |
| 206 | 20.5 | 16.8 | 25.2 |

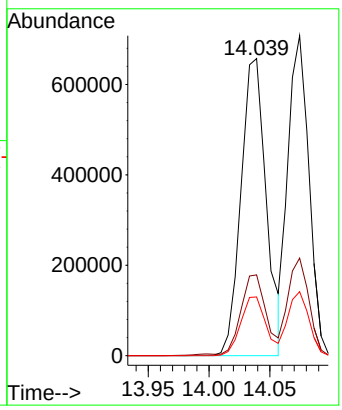





#81
Benzo(a)anthracene
Concen: 20.956 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:228 Resp: 95314

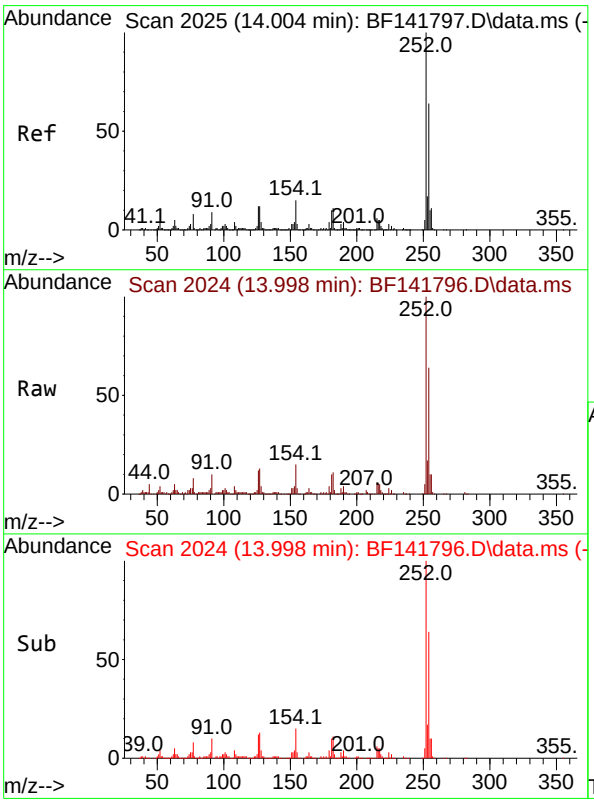
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.2 | 22.1 | 33.1 |
| 229 | 19.8 | 16.1 | 24.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

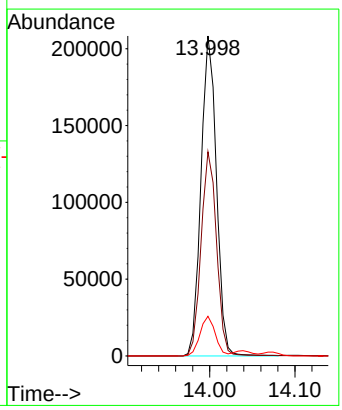
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

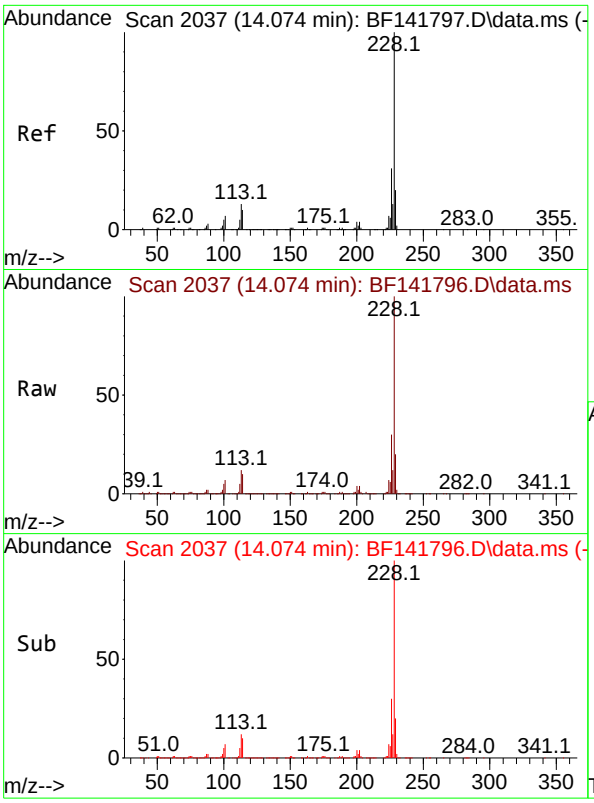



#82
3,3'-Dichlorobenzidine
Concen: 20.132 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:252 Resp: 262708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 63.8 | 51.4 | 77.0 |
| 126 | 12.4 | 9.8 | 14.6 |

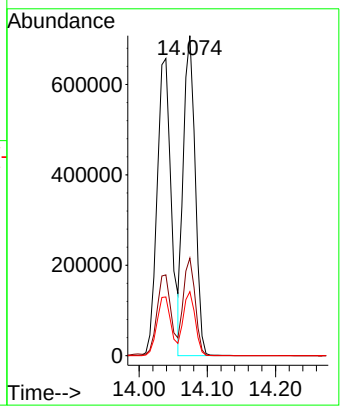





#83
Chrysene
Concen: 20.288 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:228 Resp: 85064

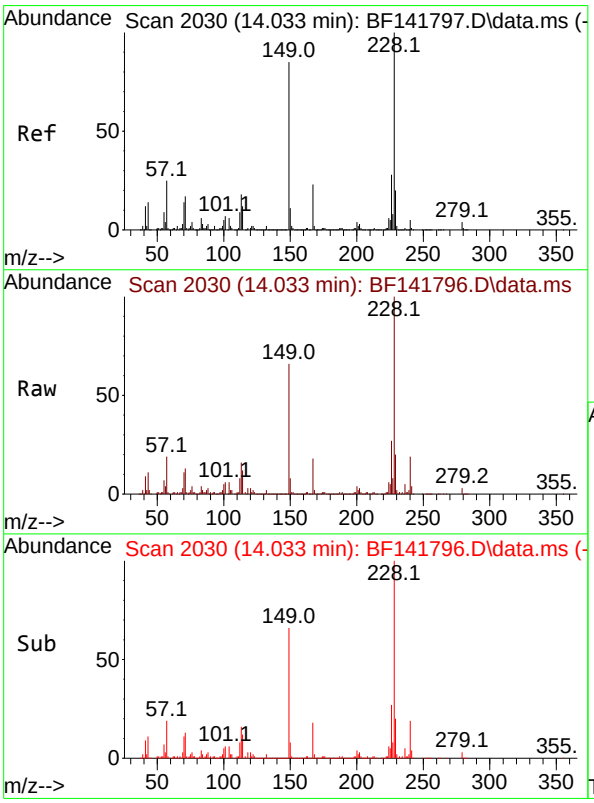
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.5 | 24.6 | 37.0 |
| 229 | 20.0 | 16.1 | 24.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

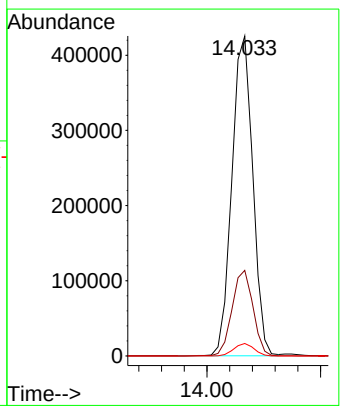
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

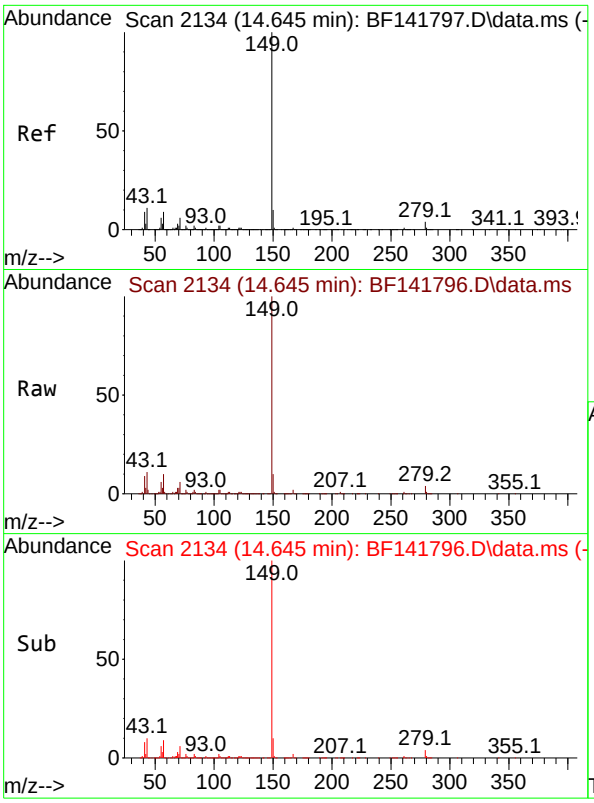



#84
Bis(2-ethylhexyl)phthalate
Concen: 20.122 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 542812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.7 | 21.2 | 31.8 |
| 279 | 3.9 | 3.3 | 4.9 |

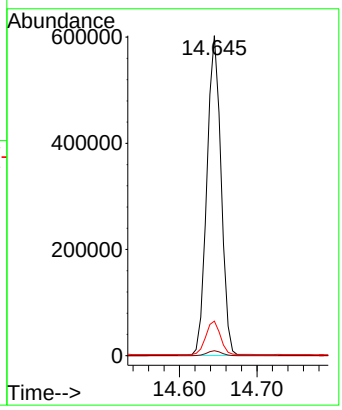





#85
Di-n-octyl phthalate
Concen: 18.910 ng
RT: 14.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 76368

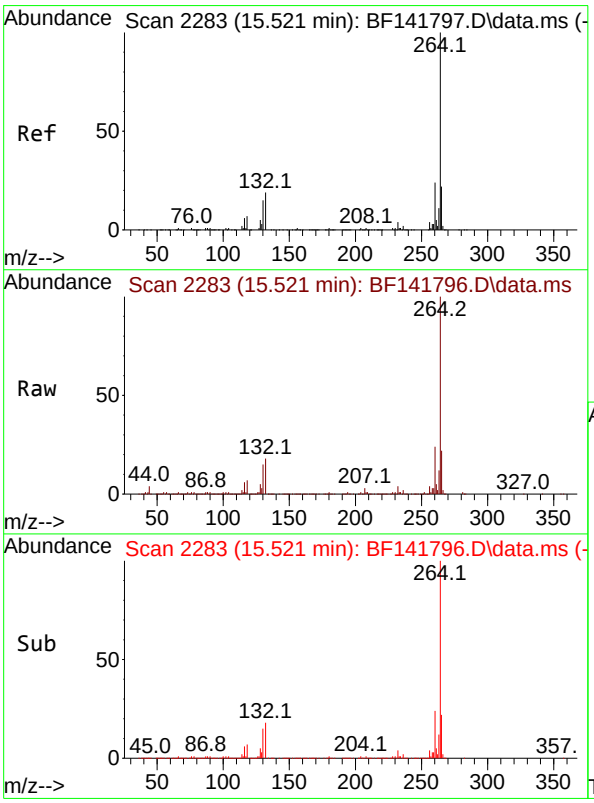
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.2 | 1.8 |
| 43 | 10.7 | 8.6 | 12.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

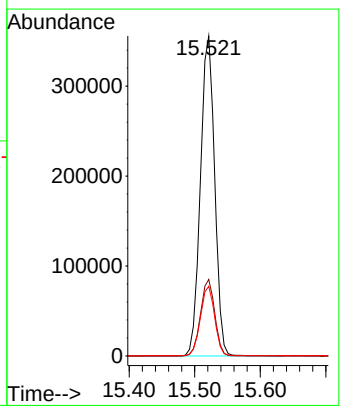
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

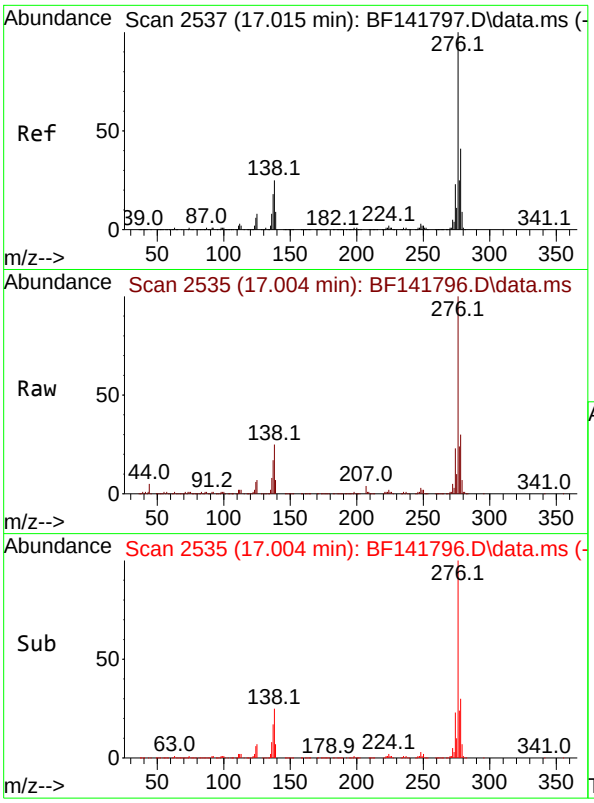



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:264 Resp: 539147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.9 | 18.9 | 28.3 |
| 265 | 21.7 | 17.4 | 26.0 |

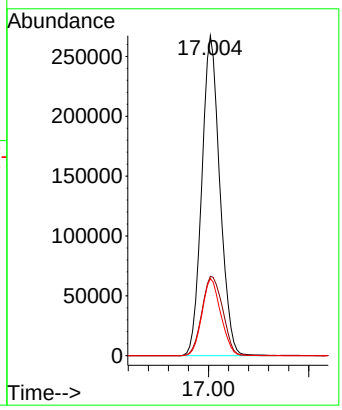





#87
Indeno(1,2,3-cd)pyrene
Concen: 19.480 ng
RT: 17.004 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:276 Resp: 66877

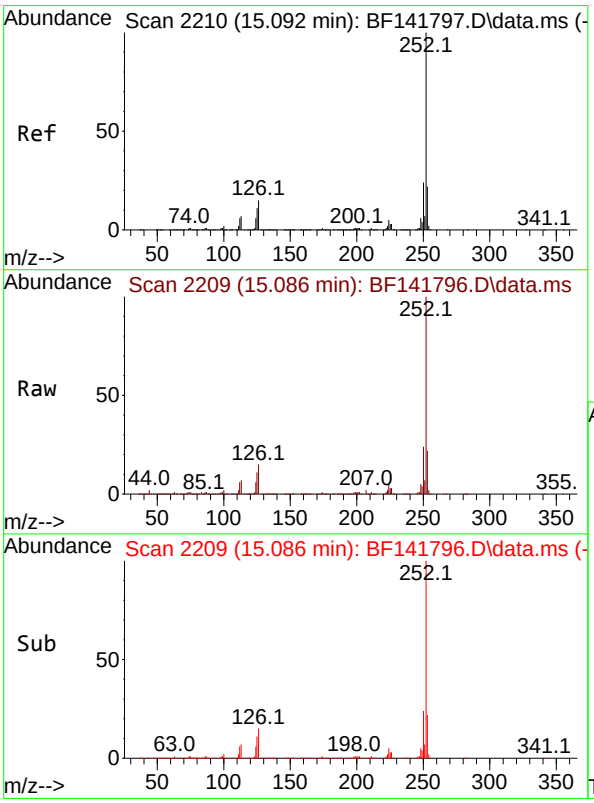
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.5 | 22.5 | 33.7 |
| 277 | 25.1 | 20.3 | 30.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

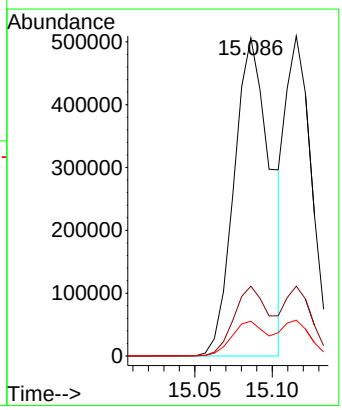
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

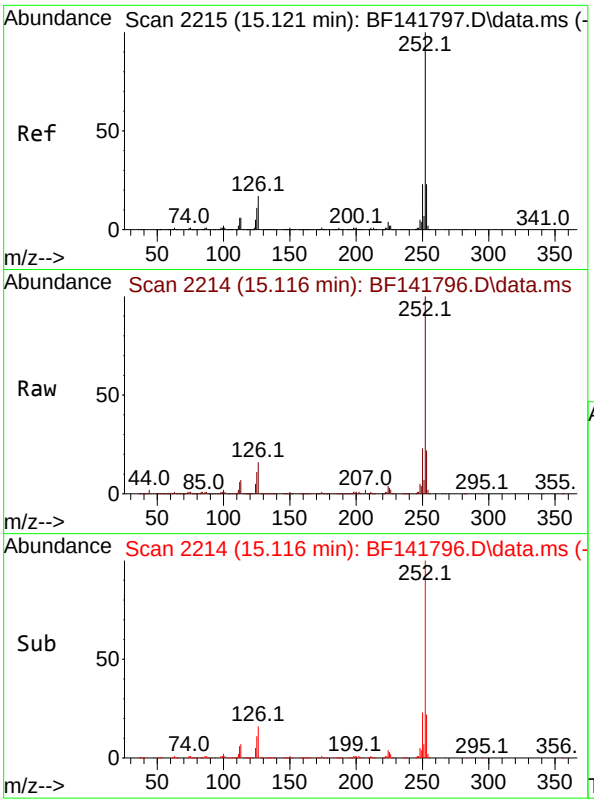



#88
Benzo(b)fluoranthene
Concen: 22.501 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:252 Resp: 826369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 17.7 | 26.5 |
| 125 | 10.9 | 8.6 | 13.0 |

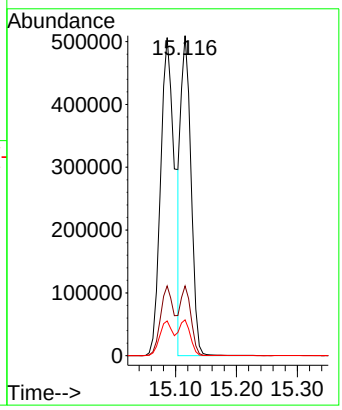





#89
Benzo(k)fluoranthene
Concen: 18.973 ng
RT: 15.116 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:252 Resp: 59225

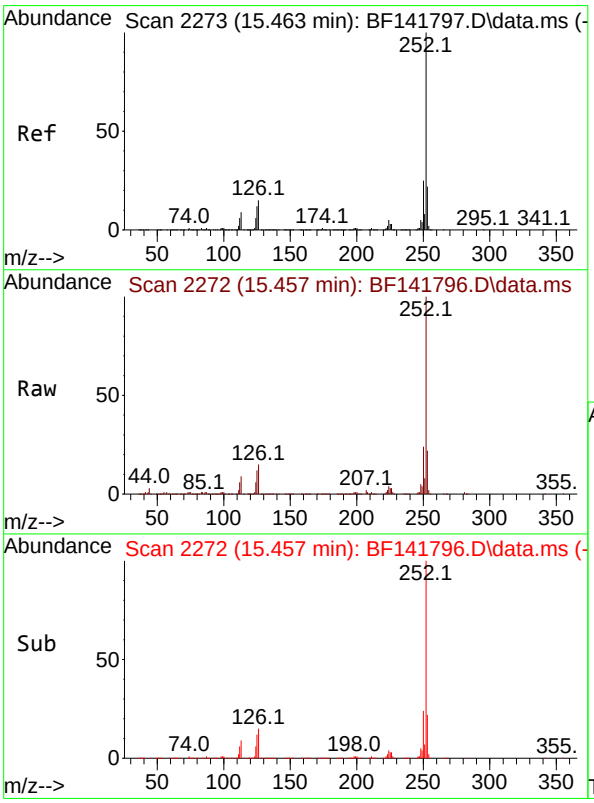
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.8 | 26.8 |
| 125 | 11.2 | 8.8 | 13.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

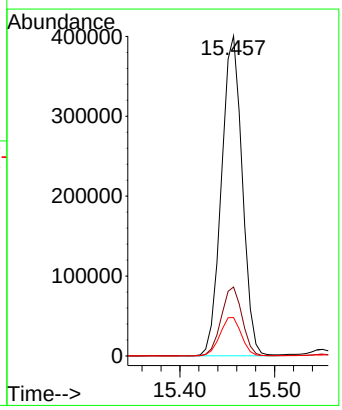
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

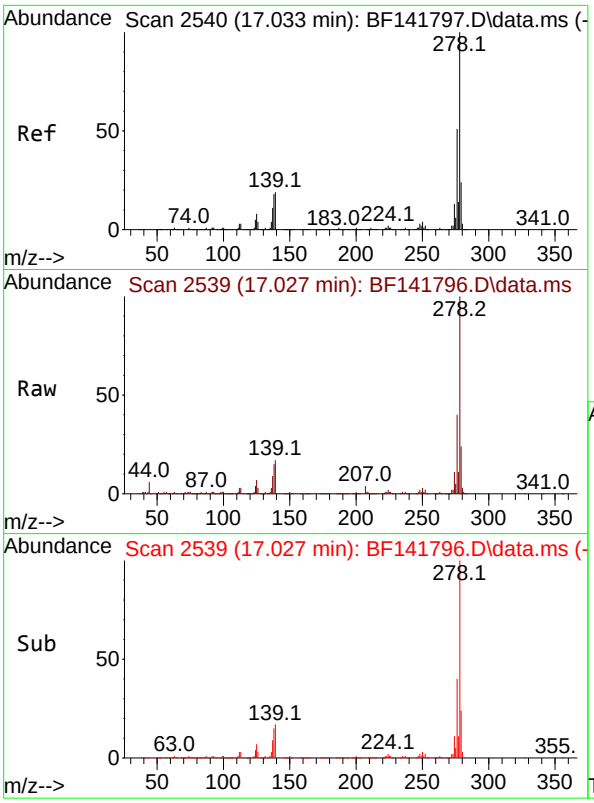



#90
Benzo(a)pyrene
Concen: 20.740 ng
RT: 15.457 min Scan# 2272
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:252 Resp: 610871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.5 | 17.5 | 26.3 |
| 125 | 12.0 | 9.4 | 14.2 |

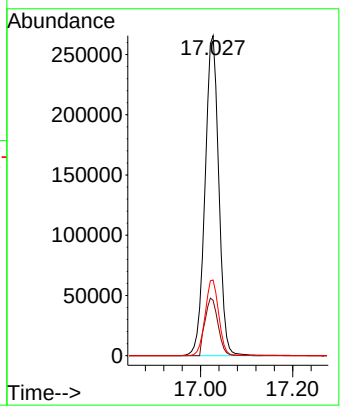





#91
Dibenzo(a,h)anthracene
Concen: 19.724 ng
RT: 17.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:278 Resp: 55272

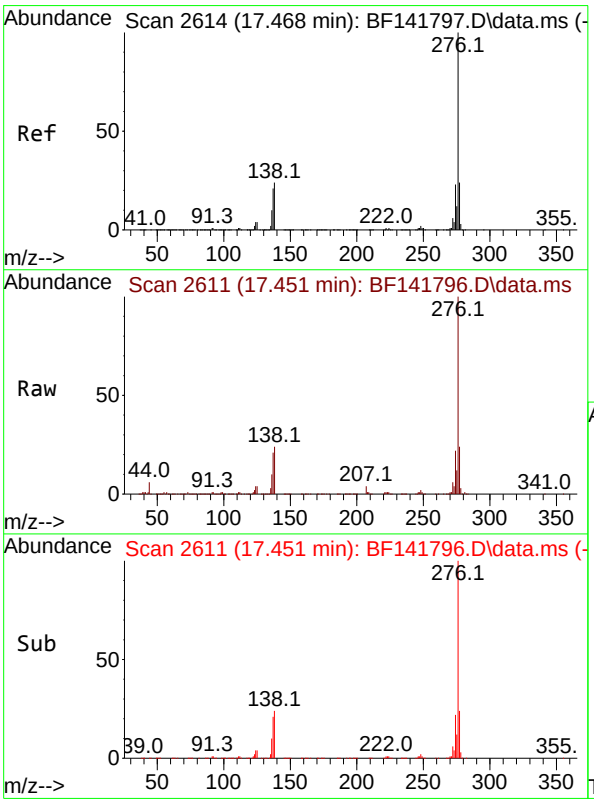
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.3 | 14.9 | 22.3 |
| 279 | 23.7 | 19.3 | 28.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC020

**Manual Integrations**
**APPROVED**

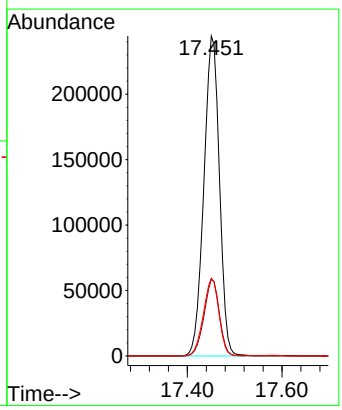
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025




#92
Benzo(g,h,i)perylene
Concen: 19.426 ng
RT: 17.451 min Scan# 2611
Delta R.T. -0.018 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:276 Resp: 557705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.0 | 19.4 | 29.0 |
| 138 | 24.3 | 19.3 | 28.9 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141797.D
Acq On : 27 Feb 2025 17:16
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:25:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.893 | 152 | 288066 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 1155717 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.928 | 164 | 625246 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.410 | 188 | 1031875 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.051 | 240 | 629307 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.521 | 264 | 567240 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.499 | 112 | 1481716 | 82.144 | ng | 0.00 |
| 7) Phenol-d6 | 6.510 | 99 | 1940706 | 82.660 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.451 | 82 | 1577764 | 87.263 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.716 | 330 | 498702 | 84.959 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.245 | 172 | 3094072 | 79.348 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.998 | 244 | 3170442 | 81.511 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.687 | 88 | 343299 | 41.944 | ng | 100 |
| 3) Pyridine | 3.452 | 79 | 850494 | 41.764 | ng | 100 |
| 4) n-Nitrosodimethylamine | 3.405 | 42 | 420465 | 42.911 | ng | 100 |
| 6) Aniline | 6.557 | 93 | 1042452 | 42.941 | ng | 100 |
| 8) 2-Chlorophenol | 6.675 | 128 | 813316 | 41.681 | ng | 100 |
| 9) Benzaldehyde | 6.440 | 77 | 565698 | 41.423 | ng | 100 |
| 10) Phenol | 6.522 | 94 | 1048185 | 41.904 | ng | 100 |
| 11) bis(2-Chloroethyl)ether | 6.628 | 93 | 771641 | 40.349 | ng | 100 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 866494 | 41.465 | ng | 100 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 871351 | 41.384 | ng | 100 |
| 14) 1,2-Dichlorobenzene | 7.063 | 146 | 807407 | 41.065 | ng | 100 |
| 15) Benzyl Alcohol | 7.028 | 79 | 787264 | 41.957 | ng | 100 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 1197610 | 41.236 | ng | 100 |
| 17) 2-Methylphenol | 7.134 | 107 | 670597 | 41.635 | ng | 100 |
| 18) Hexachloroethane | 7.404 | 117 | 332747 | 42.223 | ng | 100 |
| 19) n-Nitroso-di-n-propyla... | 7.304 | 70 | 626390 | 40.586 | ng | 100 |
| 20) 3+4-Methylphenols | 7.287 | 107 | 830533 | 41.411 | ng | 100 |
| 22) Acetophenone | 7.298 | 105 | 1147737 | 40.776 | ng | 100 |
| 24) Nitrobenzene | 7.475 | 77 | 839887 | 43.379 | ng | 100 |
| 25) Isophorone | 7.710 | 82 | 1575854 | 40.569 | ng | 100 |
| 26) 2-Nitrophenol | 7.787 | 139 | 332584 | 39.357 | ng | 100 |
| 27) 2,4-Dimethylphenol | 7.816 | 122 | 588158 | 41.191 | ng | 100 |
| 28) bis(2-Chloroethoxy)met... | 7.922 | 93 | 1006606 | 40.624 | ng | 100 |
| 29) 2,4-Dichlorophenol | 8.022 | 162 | 688860 | 41.819 | ng | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 737573 | 40.863 | ng | 100 |
| 31) Naphthalene | 8.193 | 128 | 2410915 | 40.588 | ng | 100 |
| 32) Benzoic acid | 7.934 | 122 | 442477 | 38.870 | ng | 100 |
| 33) 4-Chloroaniline | 8.240 | 127 | 877082 | 40.271 | ng | 100 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 459338 | 40.952 | ng | 100 |
| 35) Caprolactam | 8.610 | 113 | 211331m | 41.695 | ng | |
| 36) 4-Chloro-3-methylphenol | 8.710 | 107 | 752961 | 41.148 | ng | 100 |
| 37) 2-Methylnaphthalene | 8.881 | 142 | 1565422 | 40.179 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.981 | 142 | 1506039 | 40.286 | ng | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.045 | 216 | 736508 | 40.786 | ng | 100 |
| 41) Hexachlorocyclopentadiene | 9.040 | 237 | 323162 | 42.882 | ng | 100 |
| 43) 2,4,6-Trichlorophenol | 9.157 | 196 | 497182 | 42.623 | ng | 100 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141797.D
Acq On : 27 Feb 2025 17:16
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 01:25:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.192 | 196 | 478749 | 41.448 | ng | 100 |
| 46) 1,1'-Biphenyl | 9.351 | 154 | 1899694 | 39.917 | ng | 100 |
| 47) 2-Chloronaphthalene | 9.375 | 162 | 1419149 | 40.402 | ng | 100 |
| 48) 2-Nitroaniline | 9.463 | 65 | 375120 | 39.827 | ng | 100 |
| 49) Acenaphthylene | 9.792 | 152 | 2139722 | 40.629 | ng | 100 |
| 50) Dimethylphthalate | 9.651 | 163 | 1704601 | 40.710 | ng | 100 |
| 51) 2,6-Dinitrotoluene | 9.710 | 165 | 321129 | 40.557 | ng | 100 |
| 52) Acenaphthene | 9.963 | 154 | 1437821 | 40.461 | ng | 100 |
| 53) 3-Nitroaniline | 9.875 | 138 | 346294 | 41.045 | ng | 100 |
| 54) 2,4-Dinitrophenol | 9.975 | 184 | 115933 | 39.874 | ng | 100 |
| 55) Dibenzofuran | 10.134 | 168 | 2079139 | 40.198 | ng | 100 |
| 56) 4-Nitrophenol | 10.022 | 139 | 285537 | 46.172 | ng | 100 |
| 57) 2,4-Dinitrotoluene | 10.110 | 165 | 391858 | 40.635 | ng | 100 |
| 58) Fluorene | 10.475 | 166 | 1536139 | 39.650 | ng | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232 | 424277 | 42.235 | ng | 100 |
| 60) Diethylphthalate | 10.351 | 149 | 1729522 | 41.203 | ng | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 775274 | 39.939 | ng | 100 |
| 62) 4-Nitroaniline | 10.492 | 138 | 333830 | 46.685 | ng | 100 |
| 63) Azobenzene | 10.628 | 77 | 1796906 | 40.657 | ng | 100 |
| 65) 4,6-Dinitro-2-methylph... | 10.516 | 198 | 179018 | 38.731 | ng | 100 |
| 66) n-Nitrosodiphenylamine | 10.586 | 169 | 1371761 | 40.485 | ng | 100 |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248 | 490816 | 40.722 | ng | 100 |
| 68) Hexachlorobenzene | 11.022 | 284 | 518266 | 40.721 | ng | 100 |
| 69) Atrazine | 11.110 | 200 | 369439 | 39.649 | ng | 100 |
| 70) Pentachlorophenol | 11.210 | 266 | 347791 | 43.086 | ng | 100 |
| 71) Phenanthrene | 11.439 | 178 | 2214957 | 40.130 | ng | 100 |
| 72) Anthracene | 11.486 | 178 | 2204147 | 39.845 | ng | 100 |
| 73) Carbazole | 11.639 | 167 | 1971491 | 40.358 | ng | 100 |
| 74) Di-n-butylphthalate | 11.975 | 149 | 2493783 | 40.274 | ng | 100 |
| 75) Fluoranthene | 12.622 | 202 | 2248284 | 39.753 | ng | 100 |
| 77) Benzidine | 12.739 | 184 | 326609 | 41.235 | ng | 100 |
| 78) Pyrene | 12.851 | 202 | 2259888 | 41.470 | ng | 100 |
| 80) Butylbenzylphthalate | 13.475 | 149 | 840509 | 42.452 | ng | 100 |
| 81) Benzo(a)anthracene | 14.039 | 228 | 1651930 | 39.742 | ng | 100 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 494528 | 41.467 | ng | 100 |
| 83) Chrysene | 14.074 | 228 | 1591812 | 41.543 | ng | 100 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 1046693 | 42.458 | ng | 100 |
| 85) Di-n-octyl phthalate | 14.645 | 149 | 1644901 | 44.568 | ng | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 17.015 | 276 | 1526575 | 42.264 | ng | 100 |
| 88) Benzo(b)fluoranthene | 15.092 | 252 | 1481931 | 38.353 | ng | 100 |
| 89) Benzo(k)fluoranthene | 15.121 | 252 | 1377470 | 41.943 | ng | 100 |
| 90) Benzo(a)pyrene | 15.463 | 252 | 1269914 | 40.981 | ng | 100 |
| 91) Dibenzo(a,h)anthracene | 17.033 | 278 | 1257866 | 42.664 | ng | 100 |
| 92) Benzo(g,h,i)perylene | 17.468 | 276 | 1281590 | 42.430 | ng | 100 |

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

ICAL Form

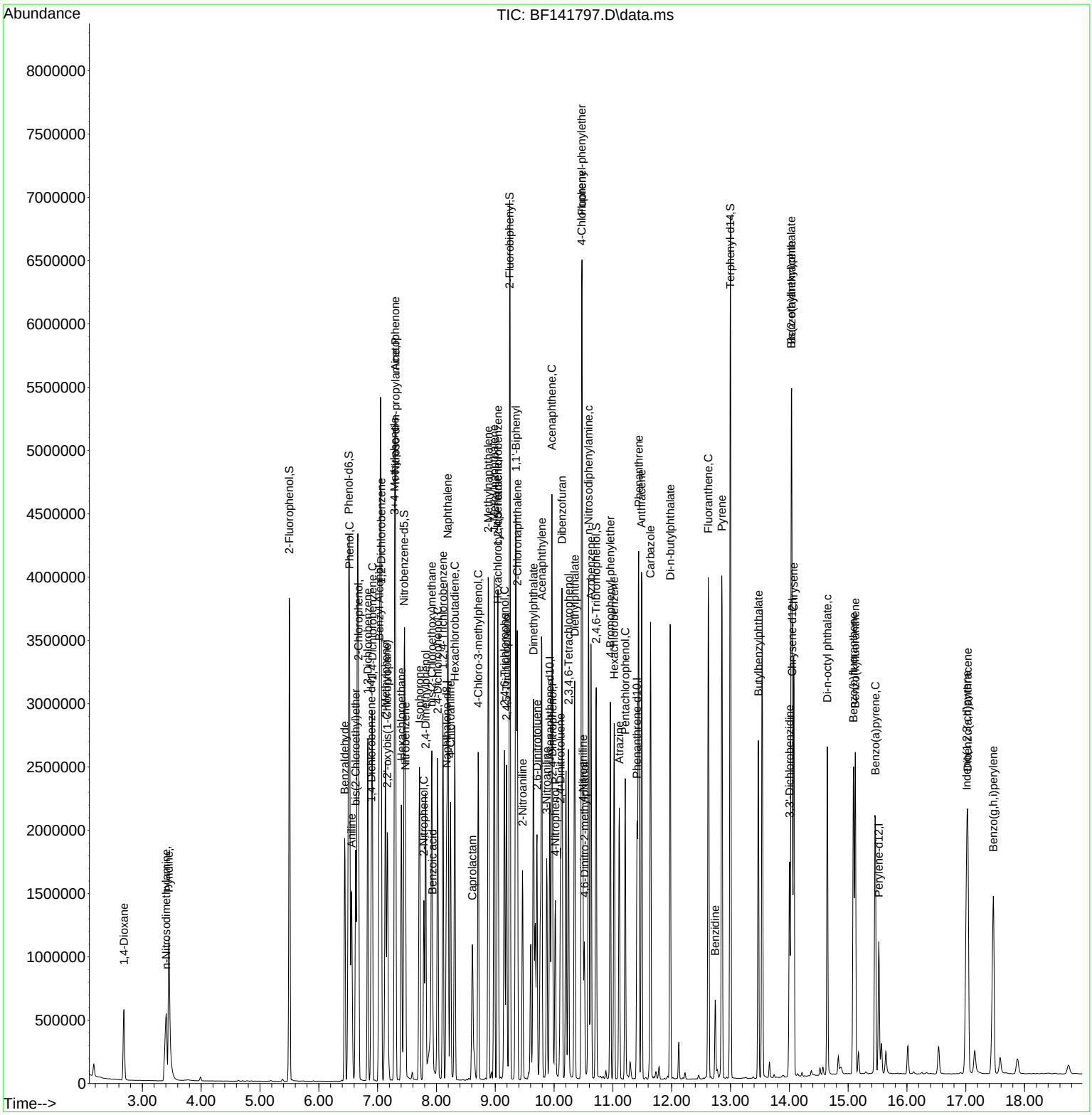
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Data File : BF141797.D
Acq On : 27 Feb 2025 17:16
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

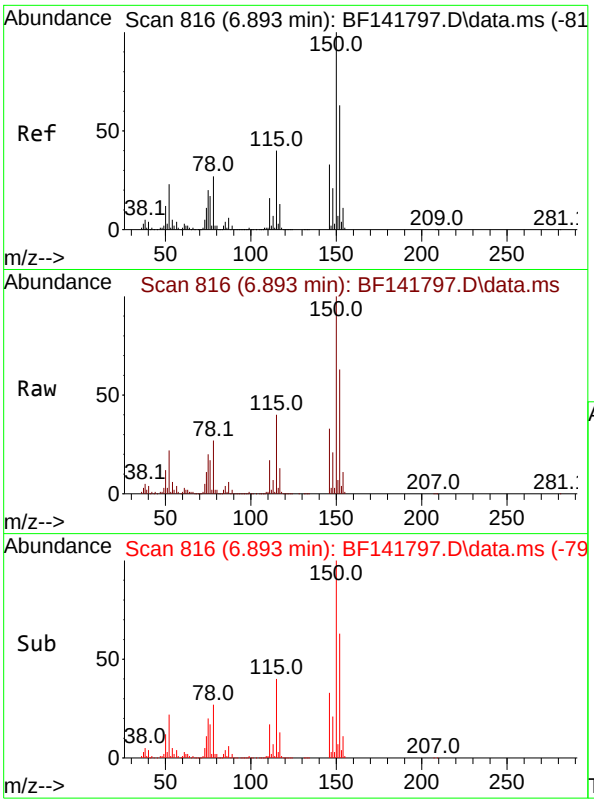
Quant Time: Feb 28 01:25:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

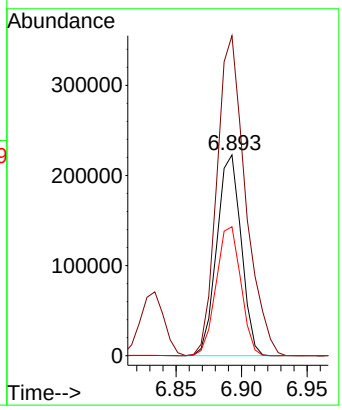





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:152 Resp: 28806

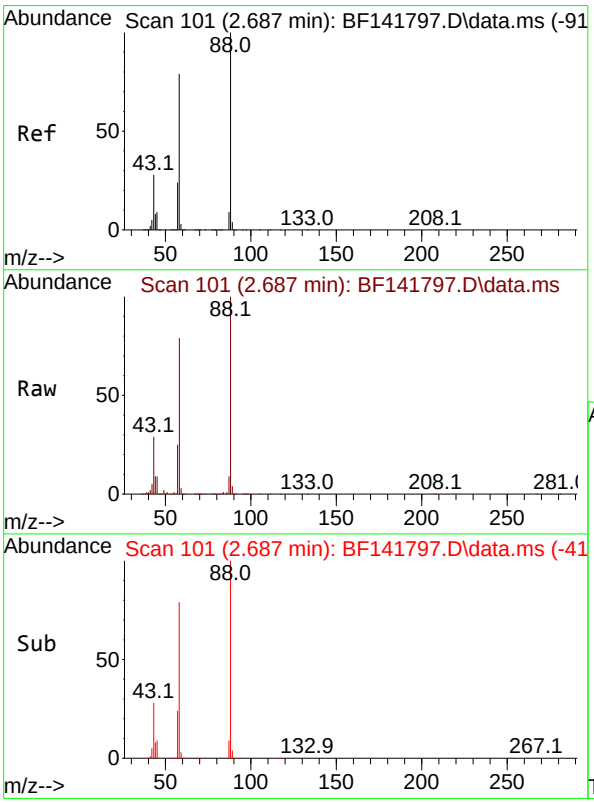
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 159.4 | 127.5 | 191.3 |
| 115 | 64.3 | 51.4 | 77.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

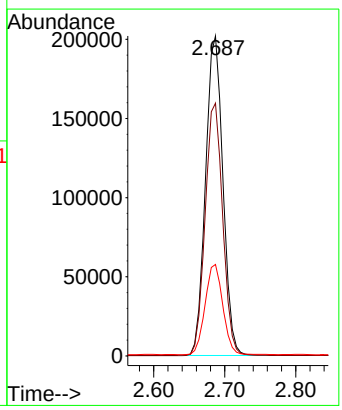
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

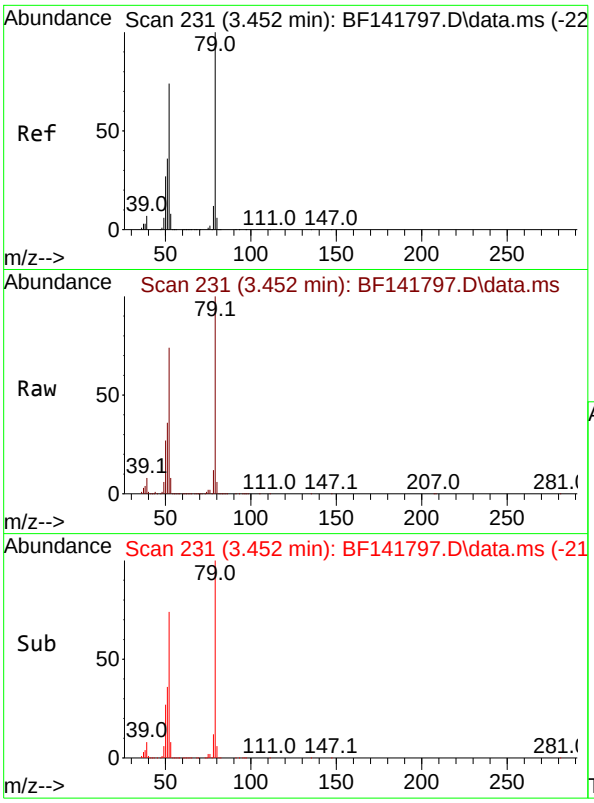



#2
1,4-Dioxane
Concen: 41.944 ng
RT: 2.687 min Scan# 101
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 88 Resp: 343299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 79.9 | 63.9 | 95.9 |
| 43 | 28.8 | 23.0 | 34.6 |






#3
Pyridine
Concen: 41.764 ng
RT: 3.452 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

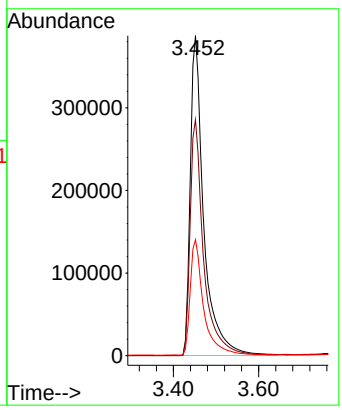
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

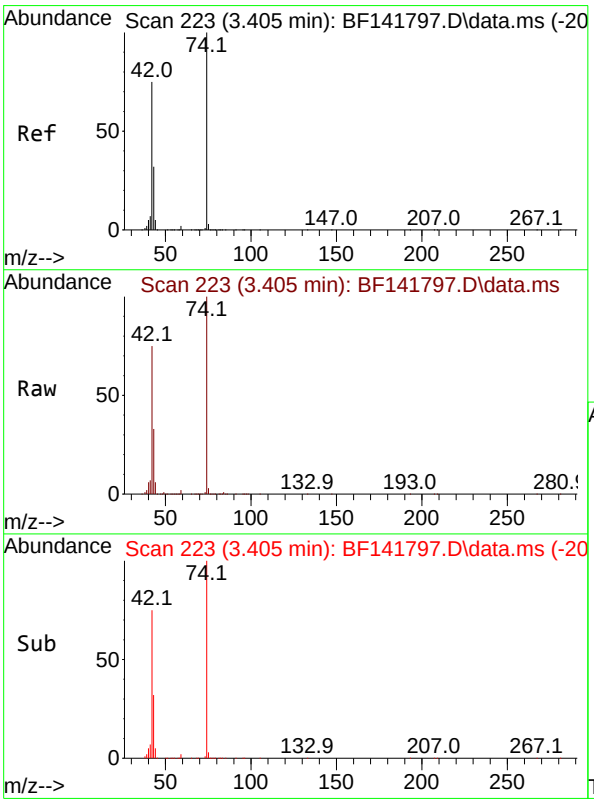
Tgt Ion: 79 Resp: 85049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 73.7 | 59.0 | 88.4 |
| 51 | 36.2 | 29.0 | 43.4 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

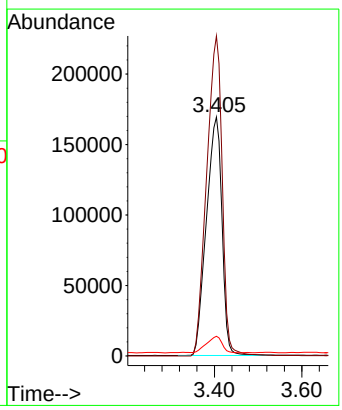


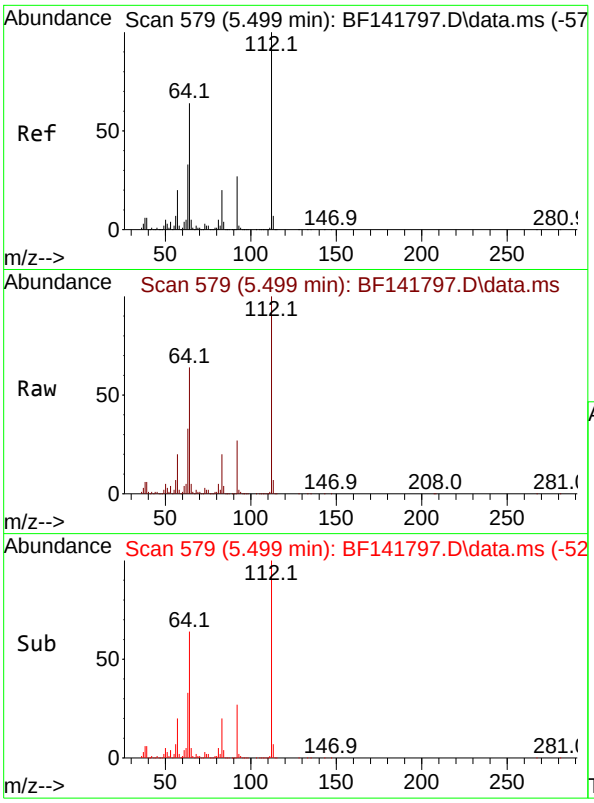




#4
n-Nitrosodimethylamine
Concen: 42.911 ng
RT: 3.405 min Scan# 223
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 42 Resp: 420465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 133.9 | 107.1 | 160.7 |
| 44 | 8.2 | 6.6 | 9.8 |






#5
2-Fluorophenol
Concen: 82.144 ng
RT: 5.499 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

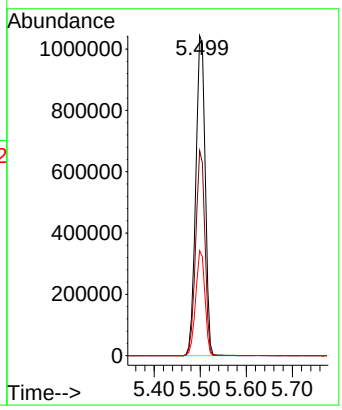
Tgt Ion:112 Resp: 148171(

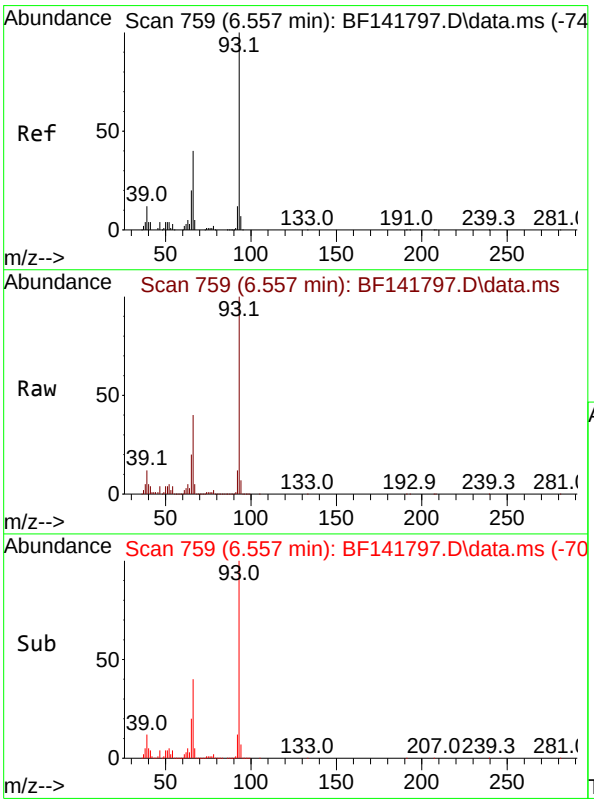
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 64.1 | 51.3 | 76.9 |
| 63 | 32.8 | 26.2 | 39.4 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

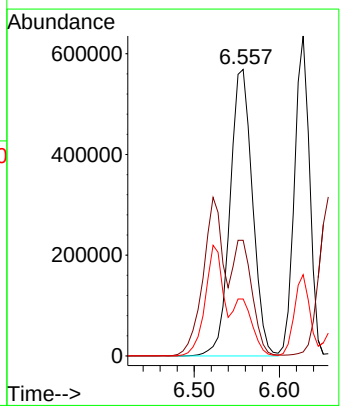


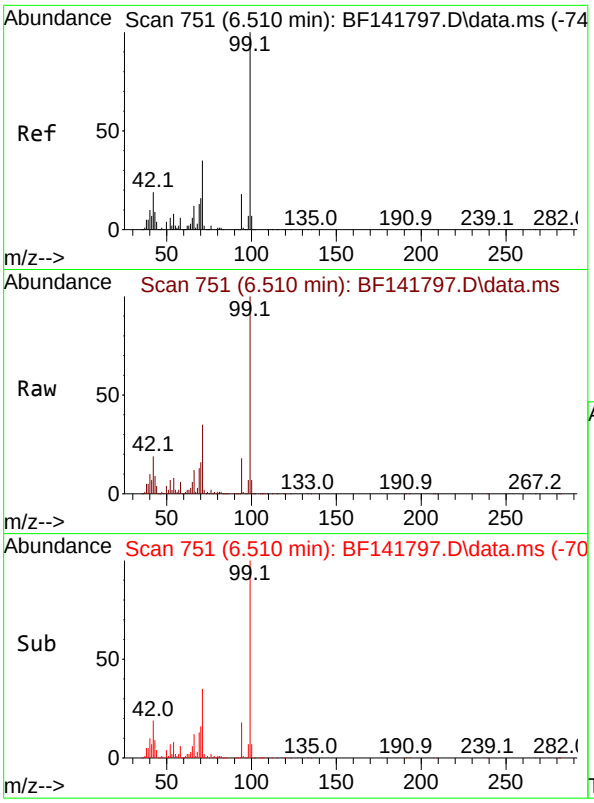




#6
Aniline
Concen: 42.941 ng
RT: 6.557 min Scan# 759
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 93 Resp: 1042452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 40.4 | 32.3 | 48.5 |
| 65 | 19.9 | 15.9 | 23.9 |

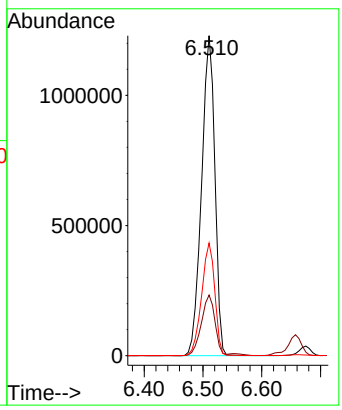





#7
Phenol-d6
Concen: 82.660 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 99 Resp: 194070

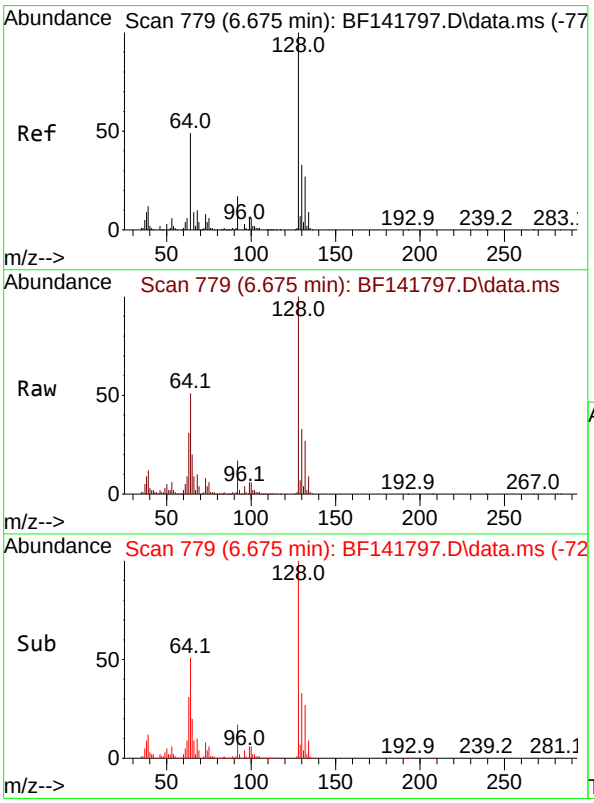
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.0 | 15.2 | 22.8 |
| 71 | 35.2 | 28.2 | 42.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

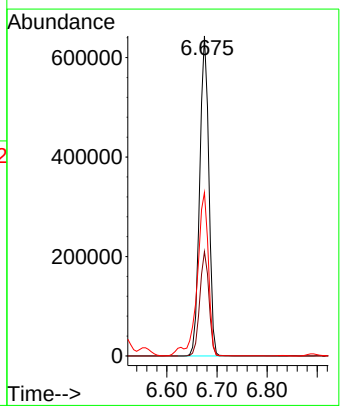
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

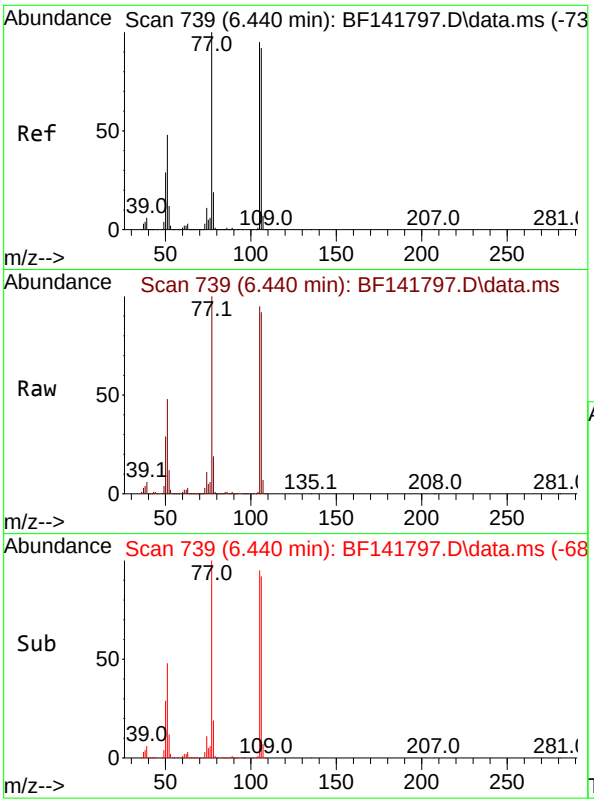



#8
2-Chlorophenol
Concen: 41.681 ng
RT: 6.675 min Scan# 779
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:128 Resp: 813316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.6 | 12.6 | 52.6 |
| 64 | 51.1 | 31.1 | 71.1 |

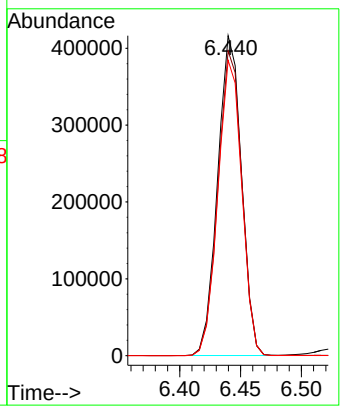





#9
Benzaldehyde
Concen: 41.423 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 77 Resp: 56569

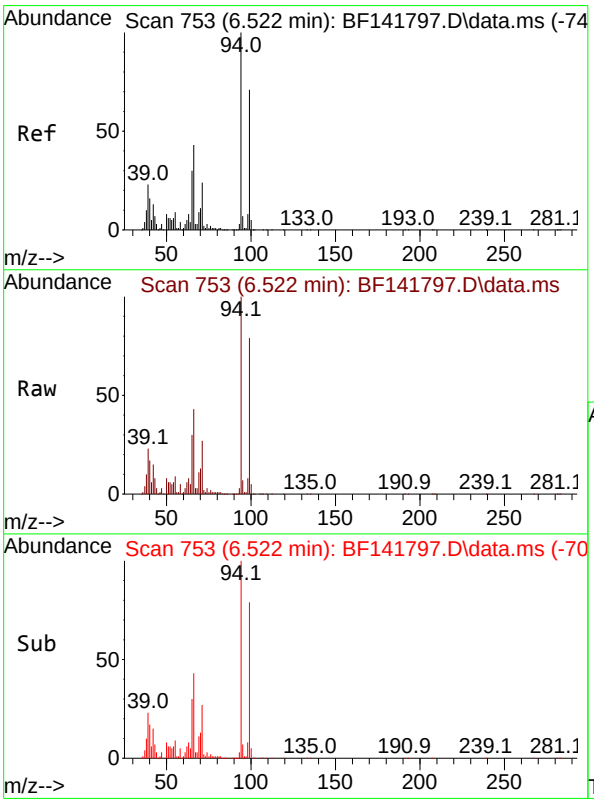
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 95.3 | 75.3 | 115.3 |
| 106 | 92.3 | 72.3 | 112.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

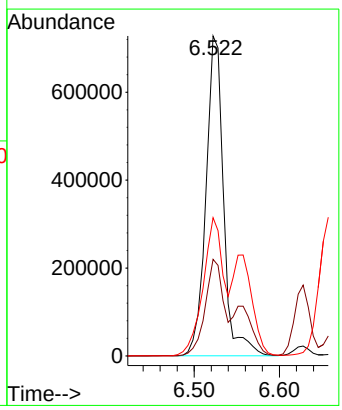
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

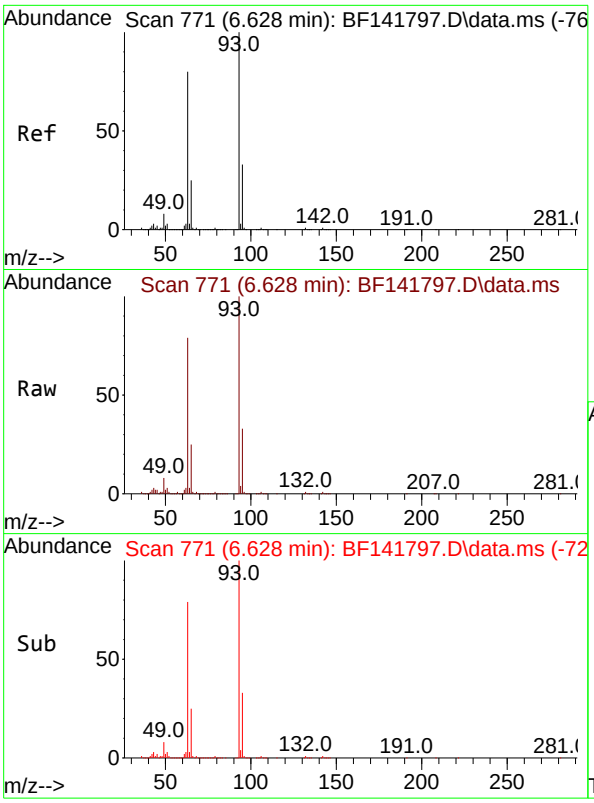



#10
Phenol
Concen: 41.904 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 94 Resp: 1048185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 30.2 | 10.2 | 50.2 |
| 66 | 43.2 | 23.2 | 63.2 |

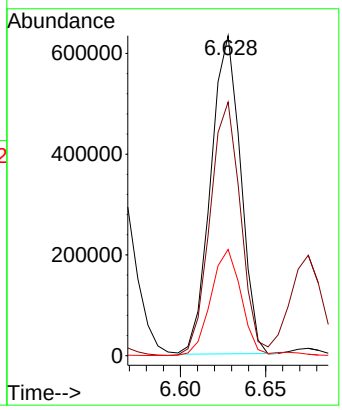





#11
bis(2-Chloroethyl)ether
Concen: 40.349 ng
RT: 6.628 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 93 Resp: 77164

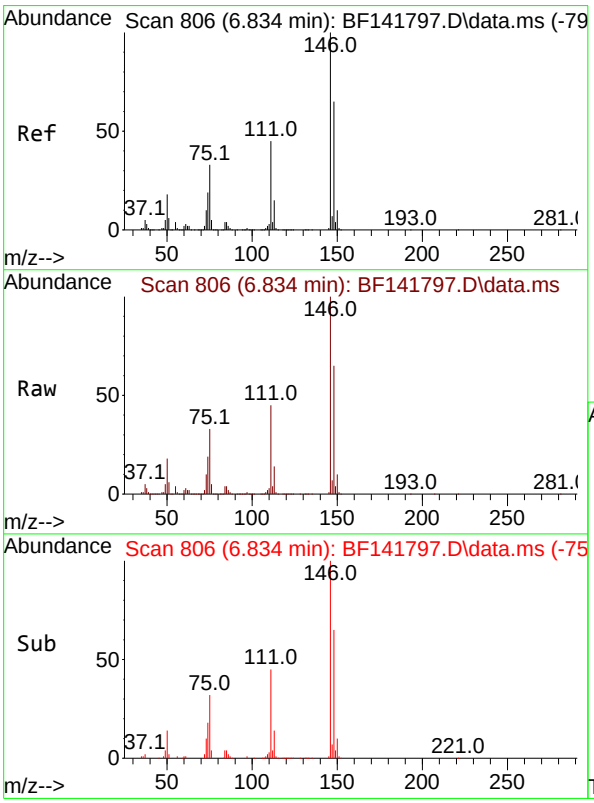
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 79.3 | 59.3 | 99.3 |
| 95 | 33.2 | 13.2 | 53.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

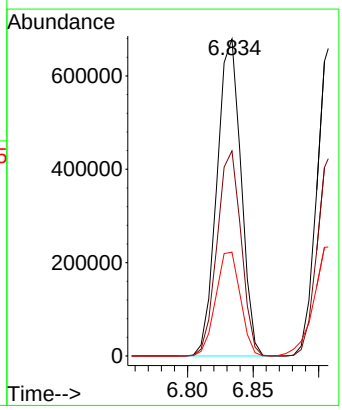
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

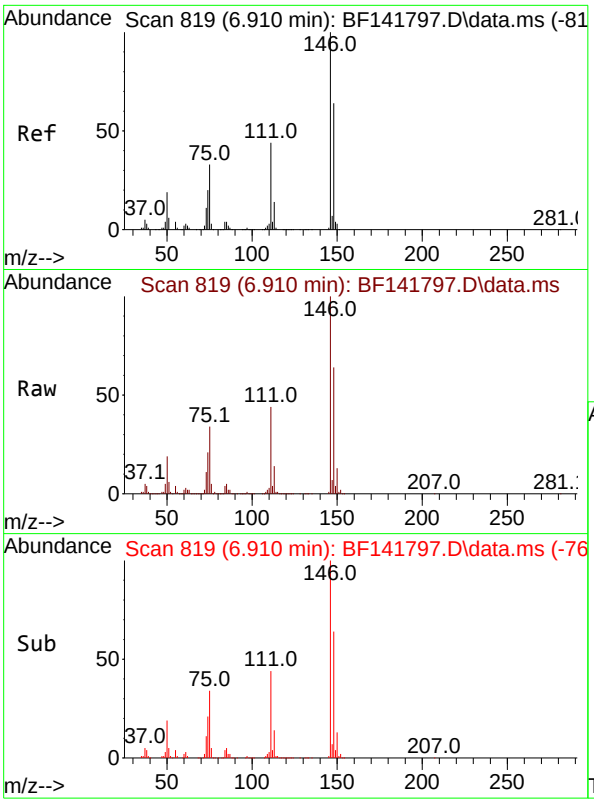



#12
1,3-Dichlorobenzene
Concen: 41.465 ng
RT: 6.834 min Scan# 806
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:146 Resp: 866494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.7 | 51.8 | 77.6 |
| 75 | 32.8 | 26.2 | 39.4 |

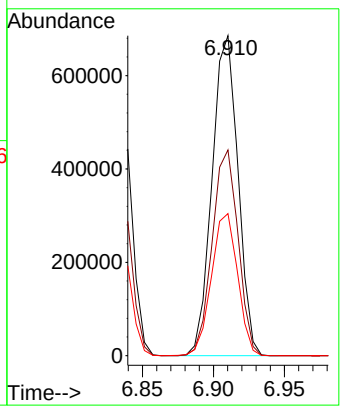





#13
1,4-Dichlorobenzene
Concen: 41.384 ng
RT: 6.910 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:146 Resp: 87135

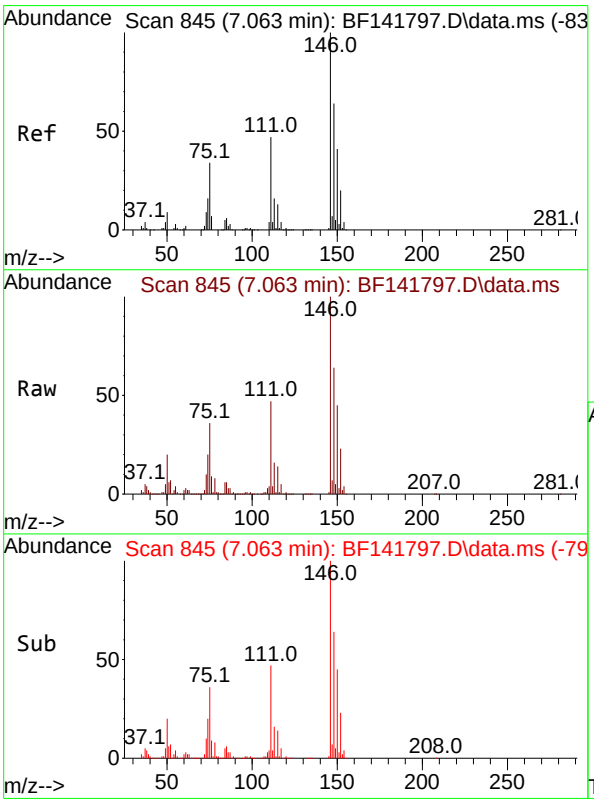
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.3 | 51.4 | 77.2 |
| 111 | 44.4 | 35.5 | 53.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

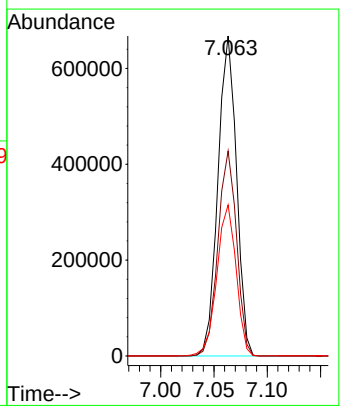
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

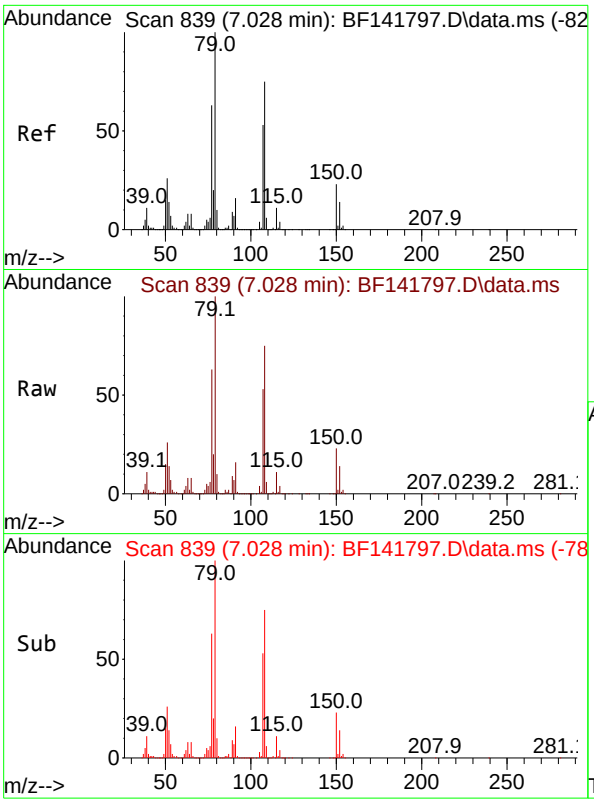



#14
1,2-Dichlorobenzene
Concen: 41.065 ng
RT: 7.063 min Scan# 845
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:146 Resp: 807407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.0 | 51.2 | 76.8 |
| 111 | 47.2 | 37.8 | 56.6 |






#15
Benzyl Alcohol
Concen: 41.957 ng
RT: 7.028 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

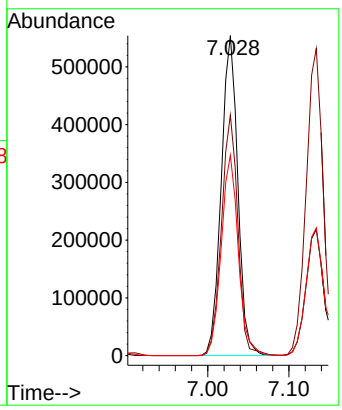
Tgt Ion: 79 Resp: 78726

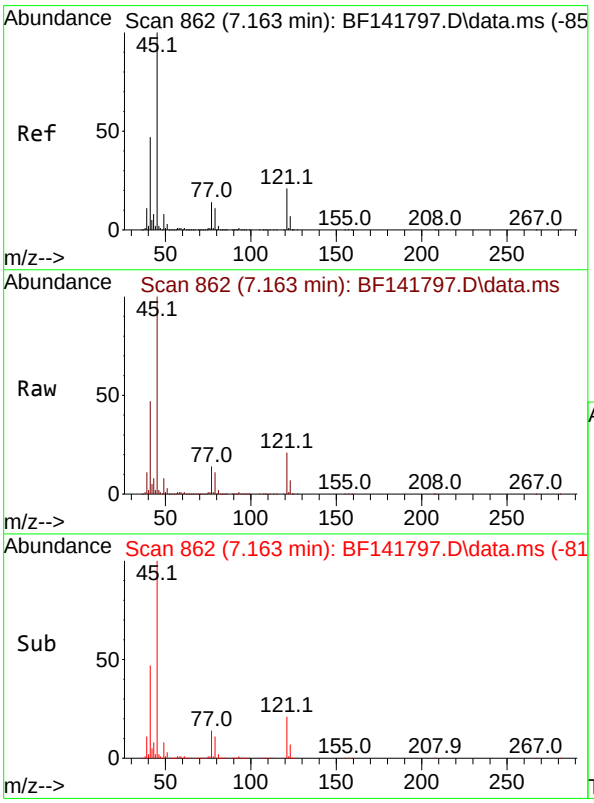
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 75.2 | 60.2 | 90.2 |
| 77 | 62.7 | 50.2 | 75.2 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
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Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

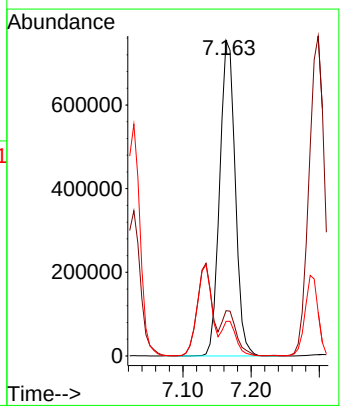


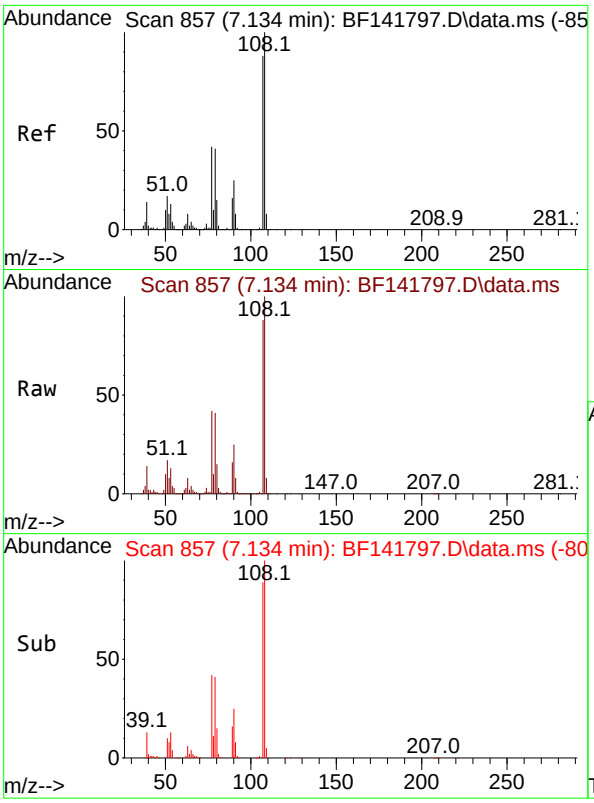




#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.236 ng
RT: 7.163 min Scan# 862
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 45 Resp: 1197610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 14.4 | 0.0 | 34.4 |
| 79 | 10.9 | 0.0 | 30.9 |

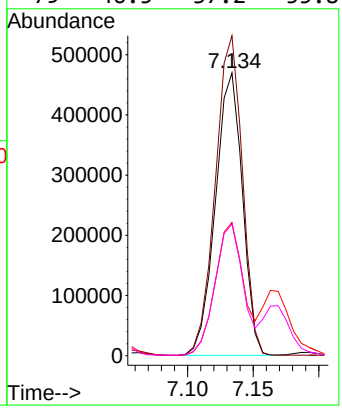





#17
2-Methylphenol
Concen: 41.635 ng
RT: 7.134 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:107 Resp: 67059

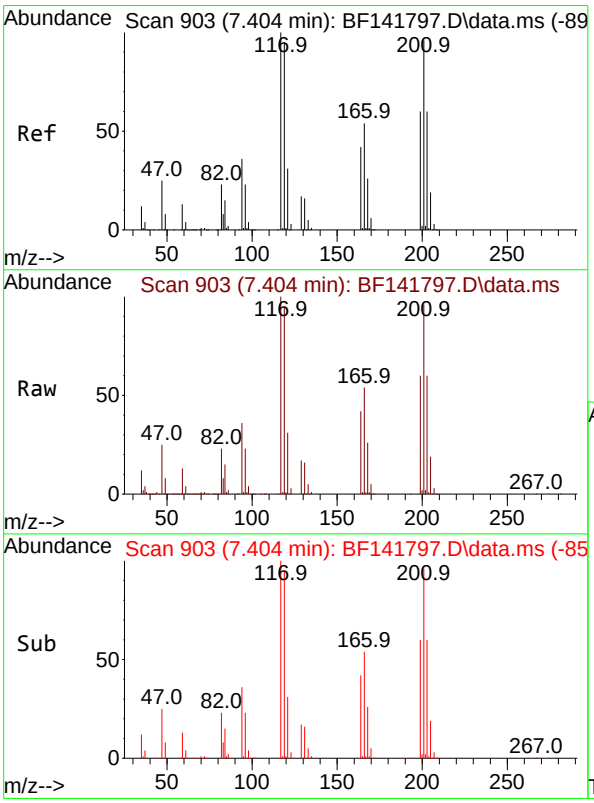
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 113.2 | 90.6 | 135.8 |
| 77 | 47.1 | 37.7 | 56.5 |
| 79 | 46.5 | 37.2 | 55.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

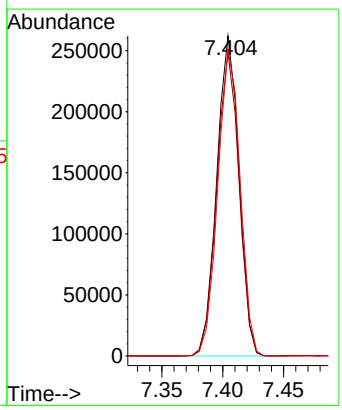
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

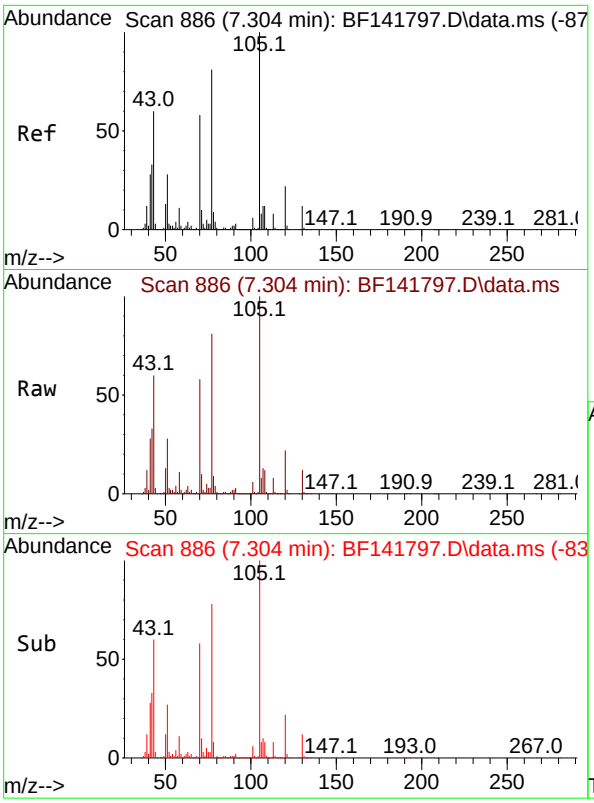



#18
Hexachloroethane
Concen: 42.223 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:117 Resp: 332747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.8 | 75.8 | 113.8 |
| 201 | 95.9 | 76.7 | 115.1 |

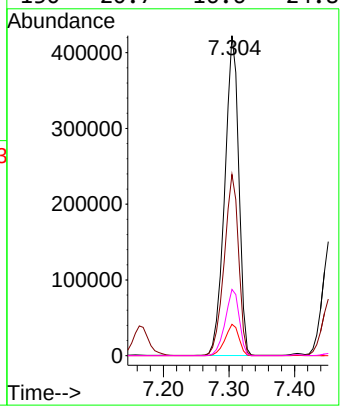





#19
n-Nitroso-di-n-propylamine
Concen: 40.586 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 70 Resp: 62639

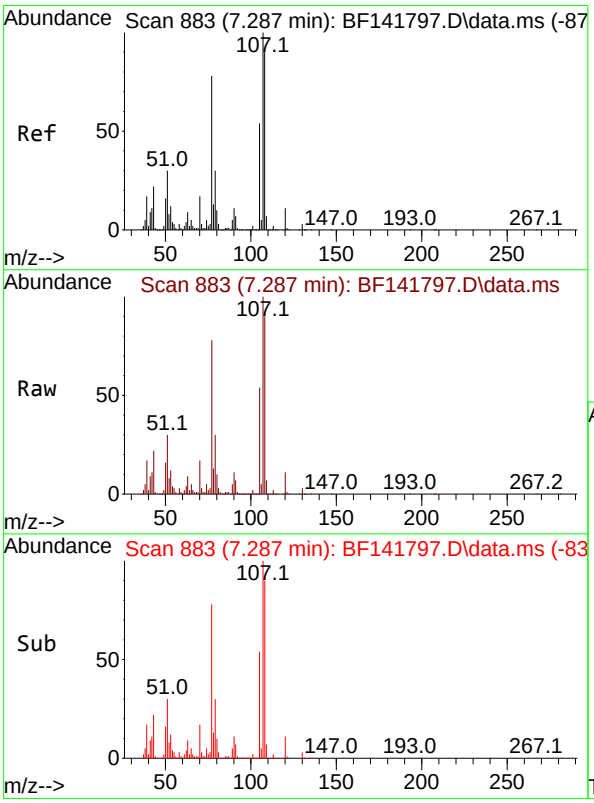
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 56.7 | 45.4 | 68.0 |
| 101 | 9.8 | 7.8 | 11.8 |
| 130 | 20.7 | 16.6 | 24.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

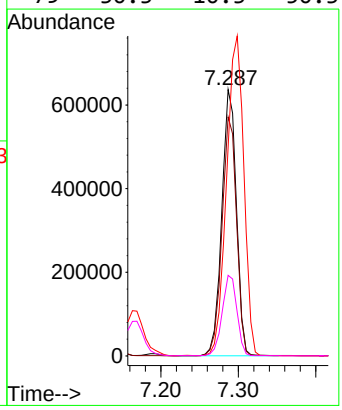
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

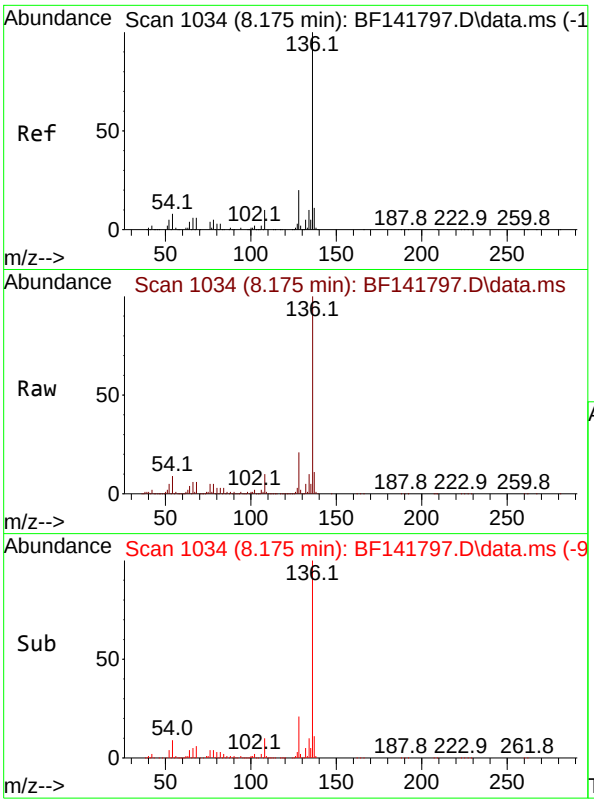



#20
3+4-Methylphenols
Concen: 41.411 ng
RT: 7.287 min Scan# 883
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:107 Resp: 830533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 89.7 | 69.7 | 109.7 |
| 77 | 78.3 | 58.3 | 98.3 |
| 79 | 30.3 | 10.3 | 50.3 |






#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

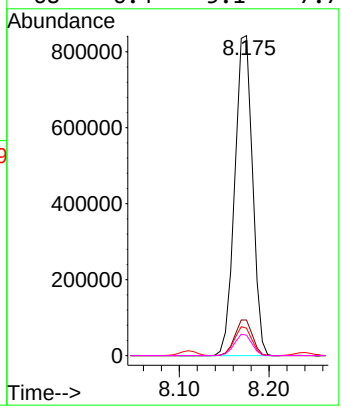
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

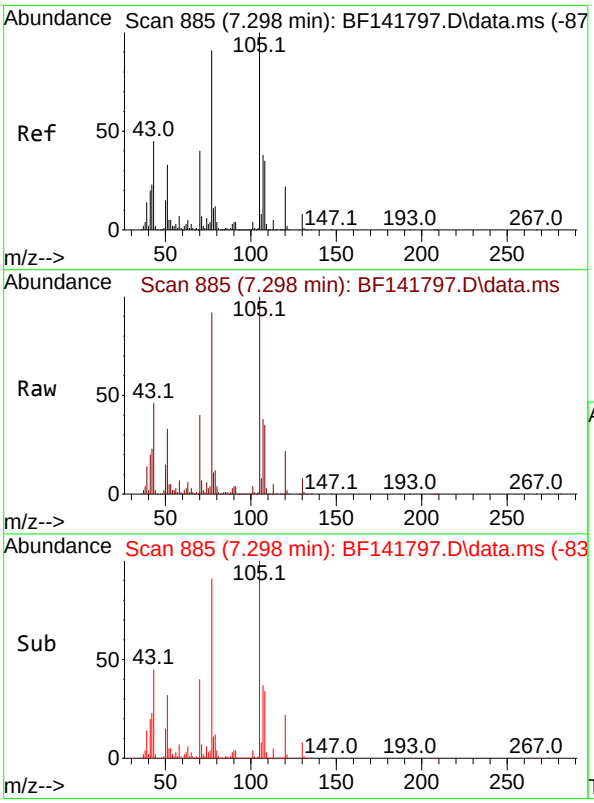
Tgt Ion:136 Resp: 115571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.1 | 8.9 | 13.3 |
| 54 | 8.6 | 6.9 | 10.3 |
| 68 | 6.4 | 5.1 | 7.7 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

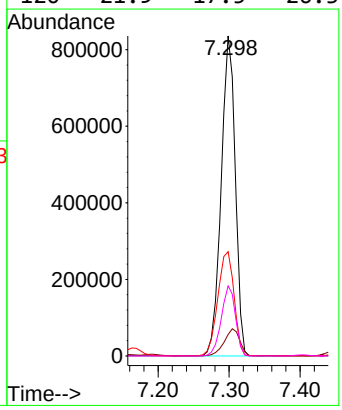


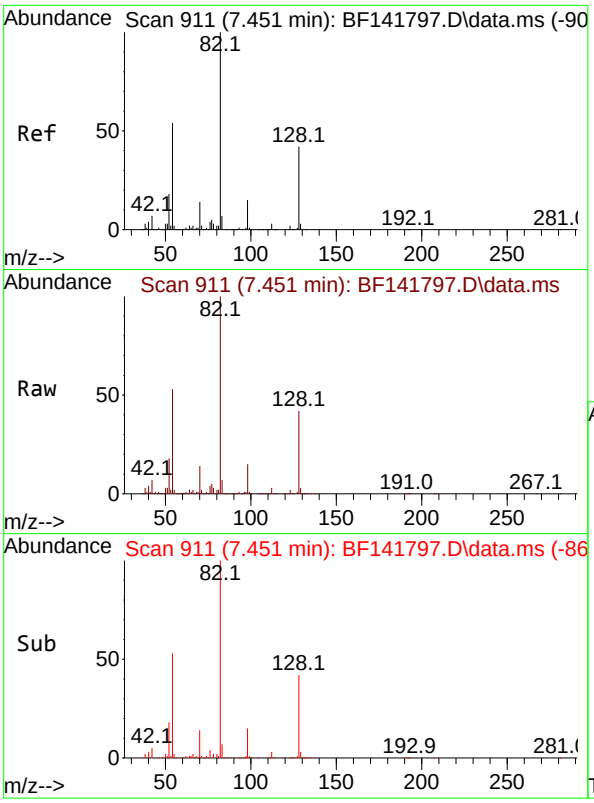




#22
Acetophenone
Concen: 40.776 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:105 Resp: 1147737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 6.7 | 5.4 | 8.0 |
| 51 | 32.6 | 26.1 | 39.1 |
| 120 | 21.9 | 17.5 | 26.3 |

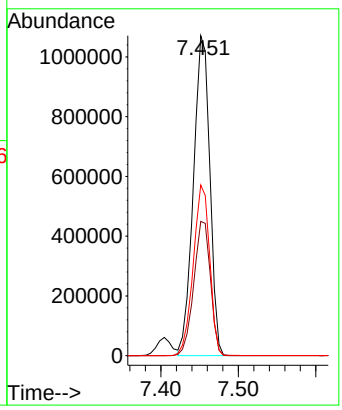





#23
Nitrobenzene-d5
Concen: 87.263 ng
RT: 7.451 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 82 Resp: 157776

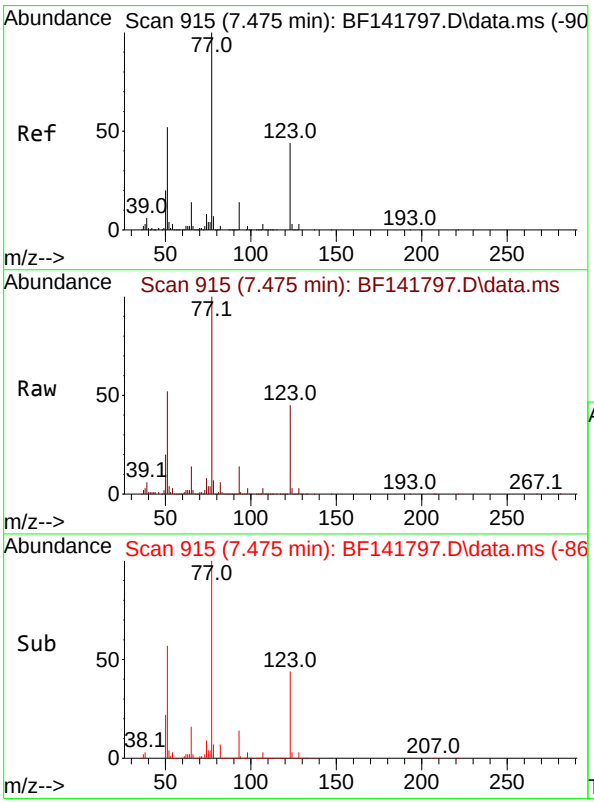
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 41.9 | 33.5 | 50.3 |
| 54 | 53.4 | 42.7 | 64.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

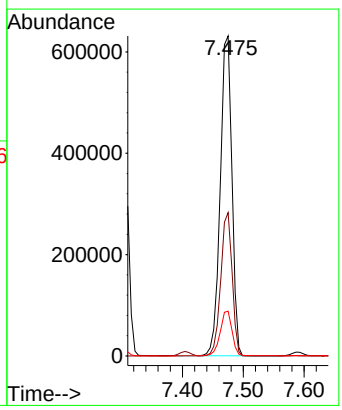
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

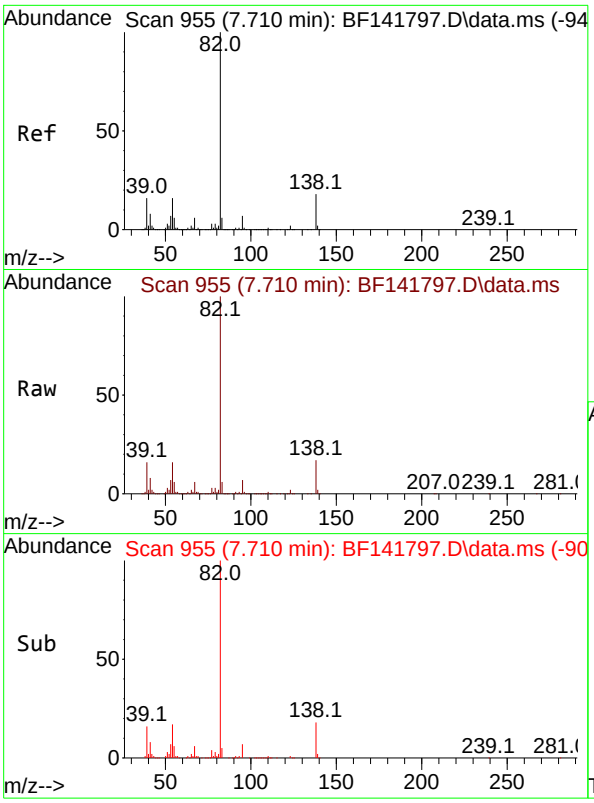



#24
Nitrobenzene
Concen: 43.379 ng
RT: 7.475 min Scan# 915
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 77 Resp: 839887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 44.8 | 35.8 | 53.8 |
| 65 | 14.0 | 11.2 | 16.8 |

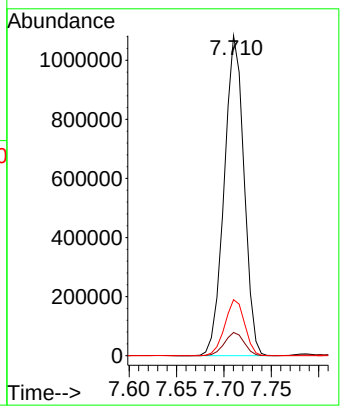





#25
Isophorone
Concen: 40.569 ng
RT: 7.710 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 82 Resp: 157585

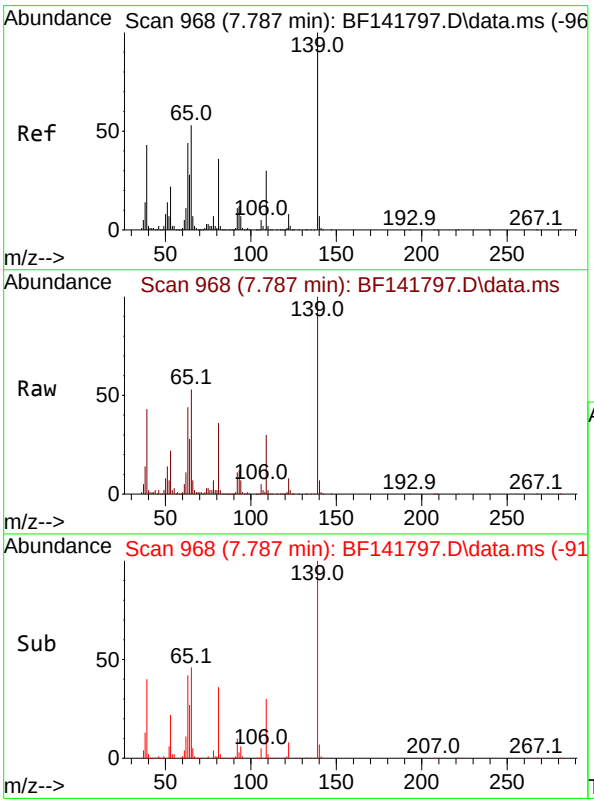
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.3 | 5.8 | 8.8 |
| 138 | 17.5 | 14.0 | 21.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

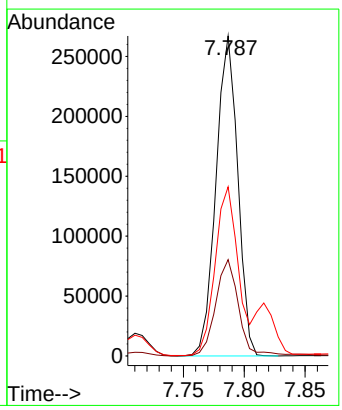
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

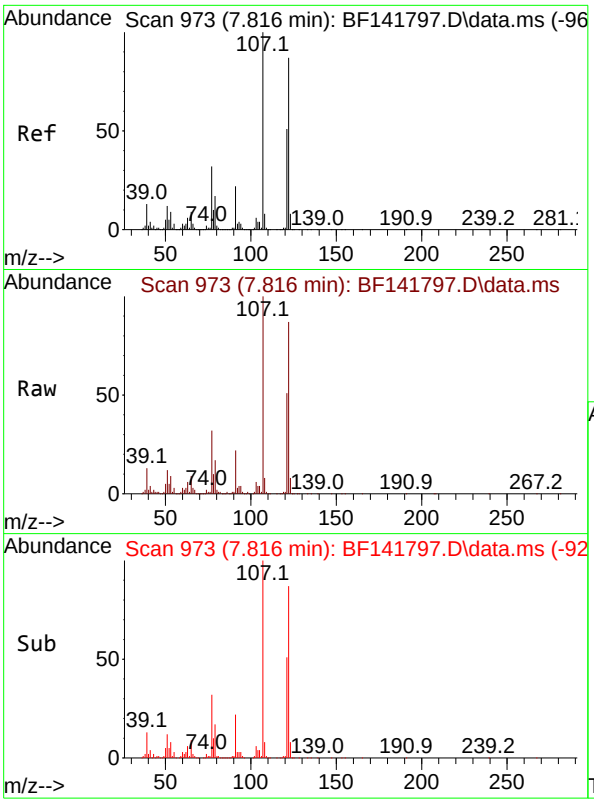



#26
2-Nitrophenol
Concen: 39.357 ng
RT: 7.787 min Scan# 968
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:139 Resp: 332584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 30.1 | 24.1 | 36.1 |
| 65 | 52.9 | 42.3 | 63.5 |

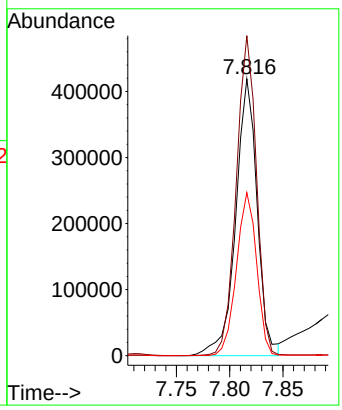





#27
2,4-Dimethylphenol
Concen: 41.191 ng
RT: 7.816 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:122 Resp: 58815

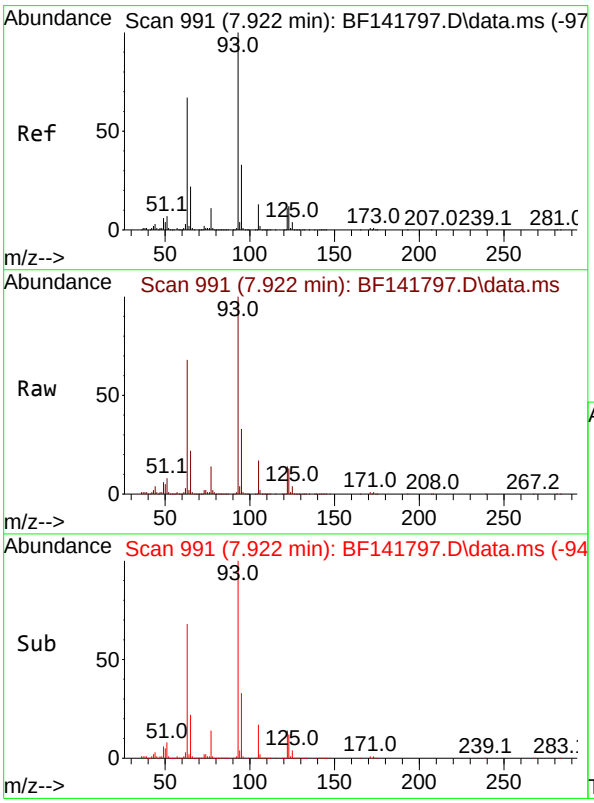
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 115.6 | 92.5 | 138.7 |
| 121 | 58.9 | 47.1 | 70.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

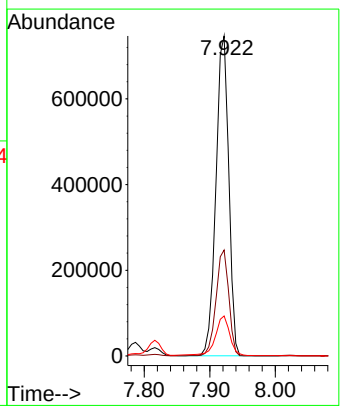
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

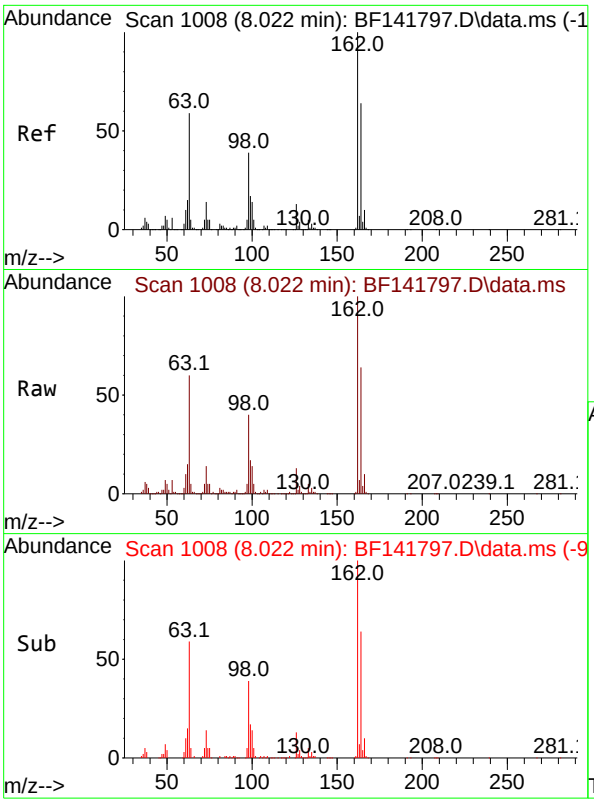



#28
bis(2-Chloroethoxy)methane
Concen: 40.624 ng
RT: 7.922 min Scan# 991
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 93 Resp: 1006606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 33.1 | 26.5 | 39.7 |
| 123 | 12.5 | 10.0 | 15.0 |






#29
2,4-Dichlorophenol
Concen: 41.819 ng
RT: 8.022 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

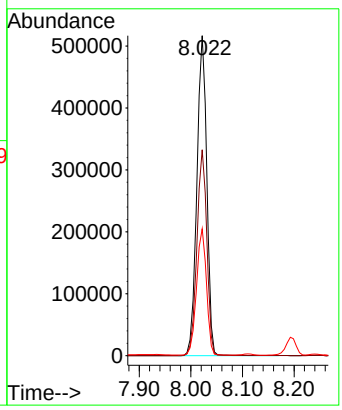
Tgt Ion:162 Resp: 68886

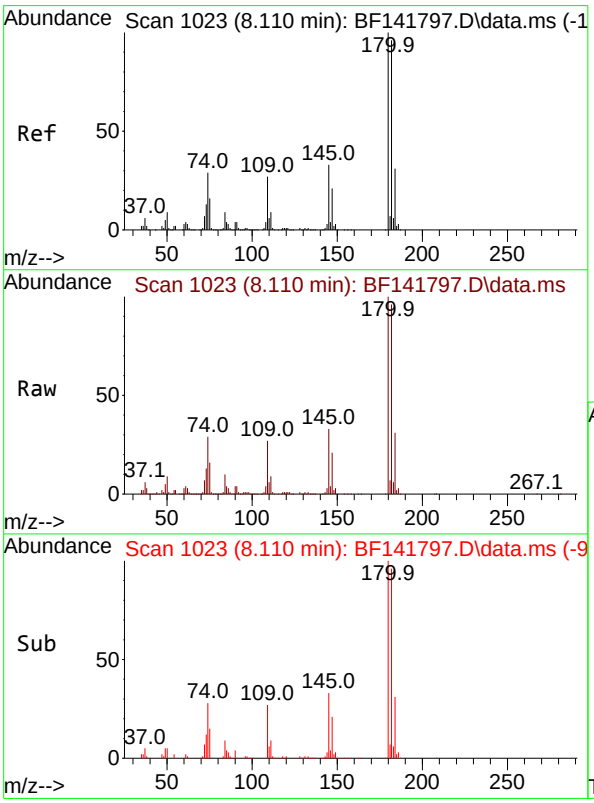
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.3 | 44.3 | 84.3 |
| 98 | 39.6 | 19.6 | 59.6 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

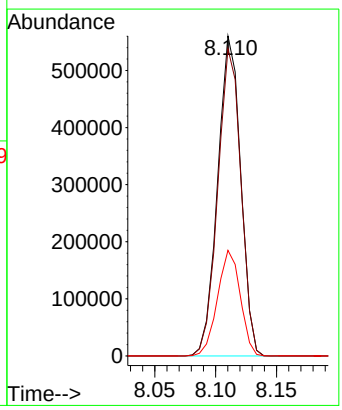


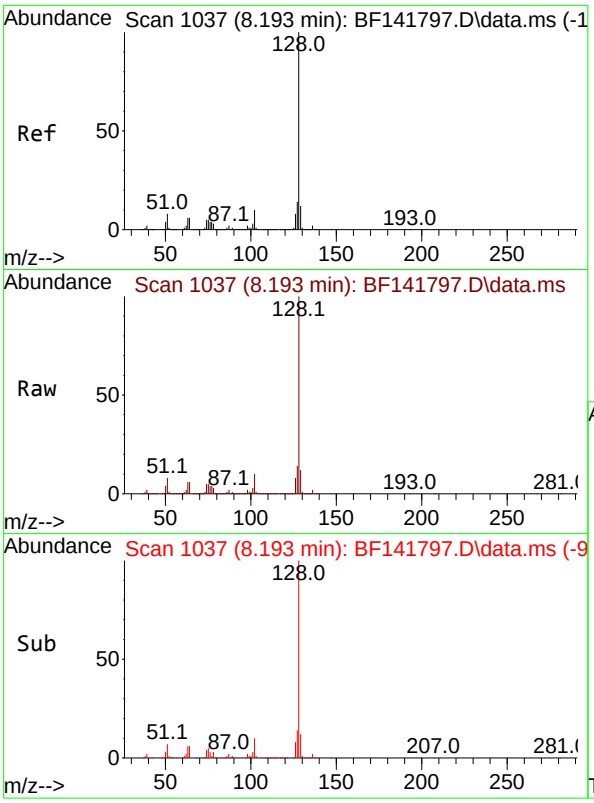




#30
1,2,4-Trichlorobenzene
Concen: 40.863 ng
RT: 8.110 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:180 Resp: 737573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.0 | 76.8 | 115.2 |
| 145 | 33.0 | 26.4 | 39.6 |

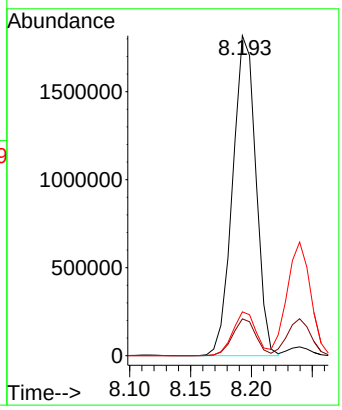





#31
Naphthalene
Concen: 40.588 ng
RT: 8.193 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:128 Resp: 241091

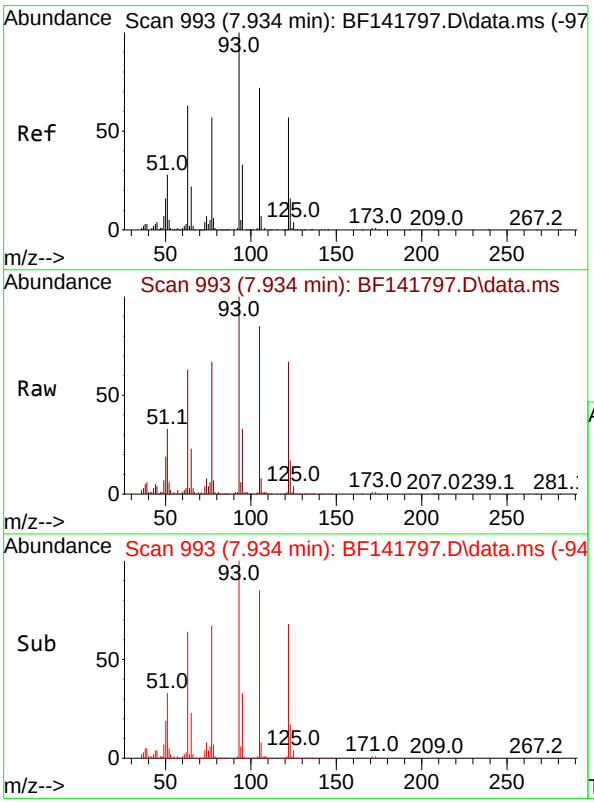
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.5 | 9.2 | 13.8 |
| 127 | 13.7 | 11.0 | 16.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

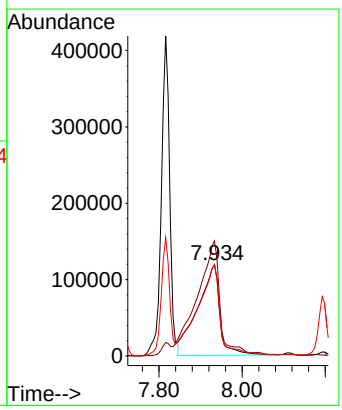
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

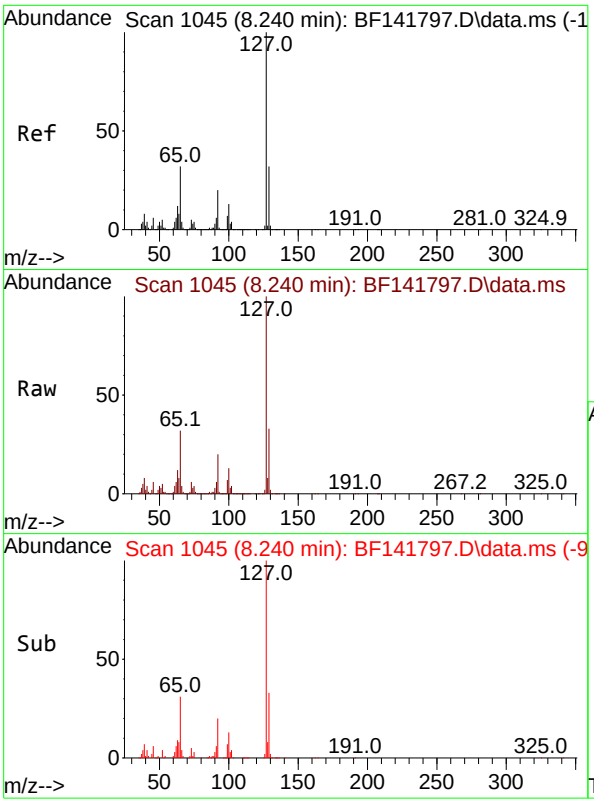



#32
Benzoic acid
Concen: 38.870 ng
RT: 7.934 min Scan# 993
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:122 Resp: 442477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 125.8 | 105.8 | 145.8 |
| 77 | 99.9 | 79.9 | 119.9 |

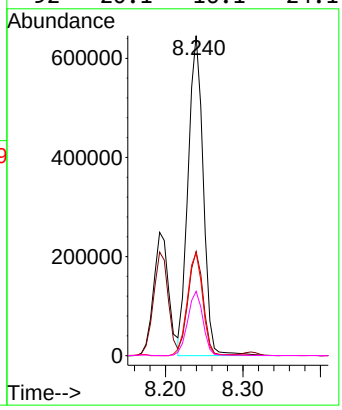





#33
4-Chloroaniline
Concen: 40.271 ng
RT: 8.240 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:127 Resp: 87708

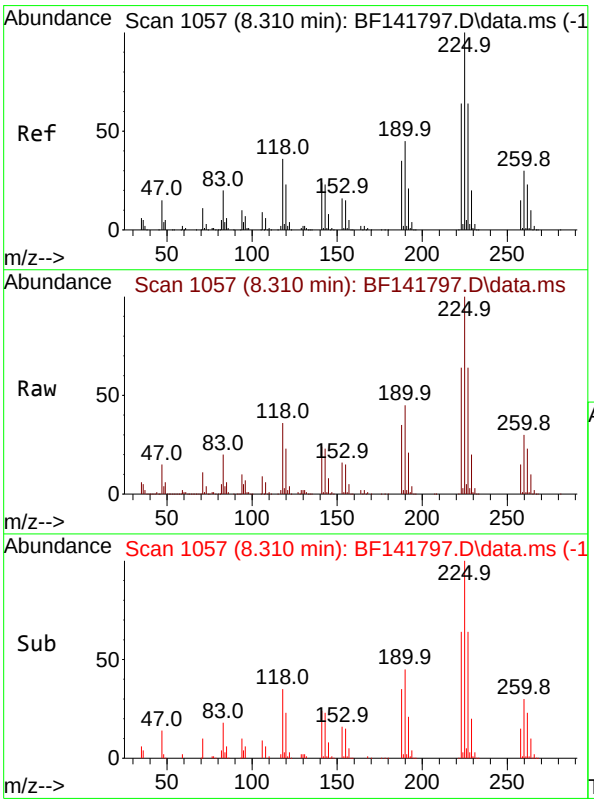
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.6 | 26.1 | 39.1 |
| 65 | 32.1 | 25.7 | 38.5 |
| 92 | 20.1 | 16.1 | 24.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

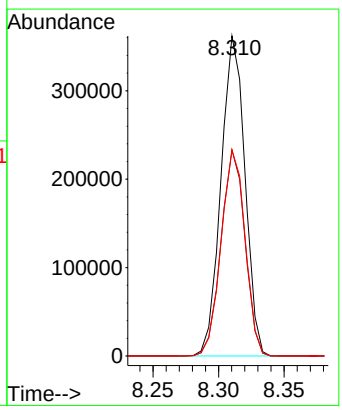
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

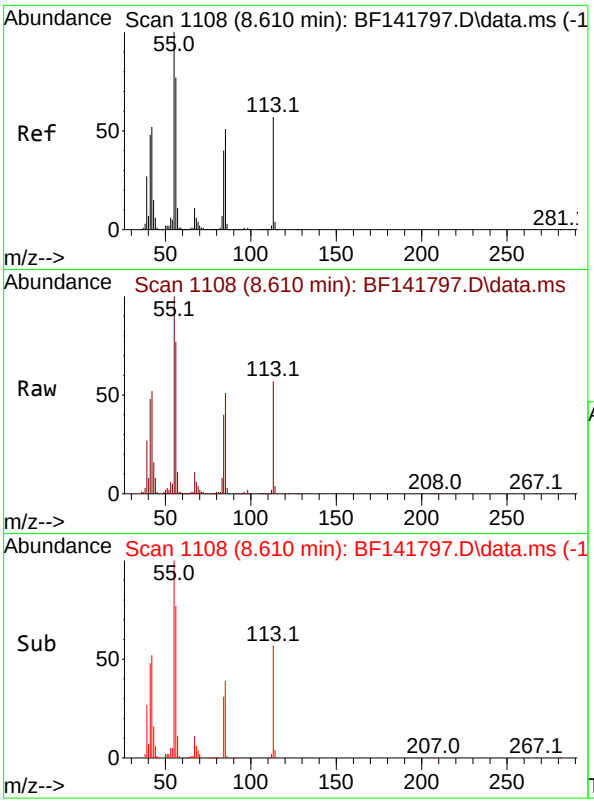



#34
Hexachlorobutadiene
Concen: 40.952 ng
RT: 8.310 min Scan# 1057
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:225 Resp: 459338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.3 | 51.4 | 77.2 |
| 227 | 64.5 | 51.6 | 77.4 |






#35
Caprolactam
Concen: 41.695 ng m
RT: 8.610 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

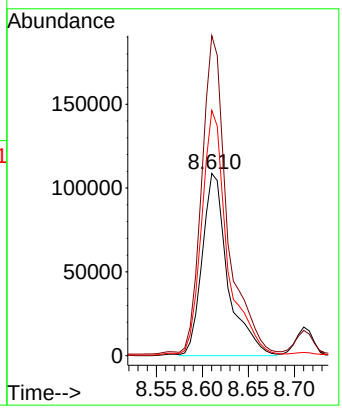
Tgt Ion:113 Resp: 21133

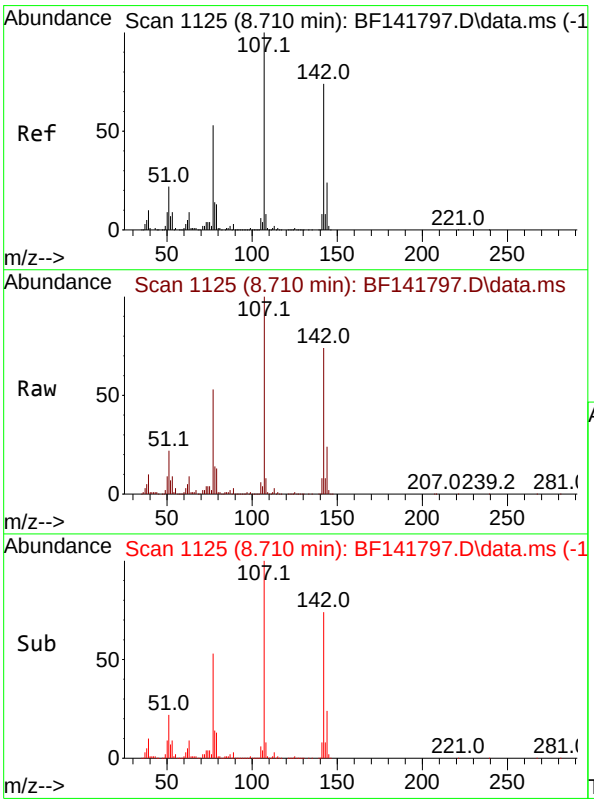
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 175.6 | 155.6 | 195.6 |
| 56 | 134.6 | 114.6 | 154.6 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
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Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

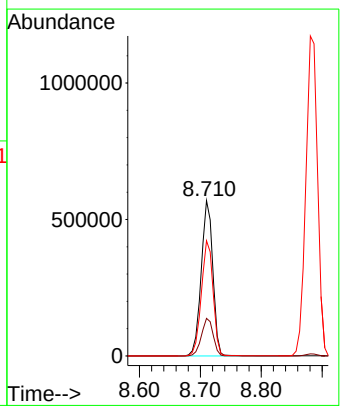


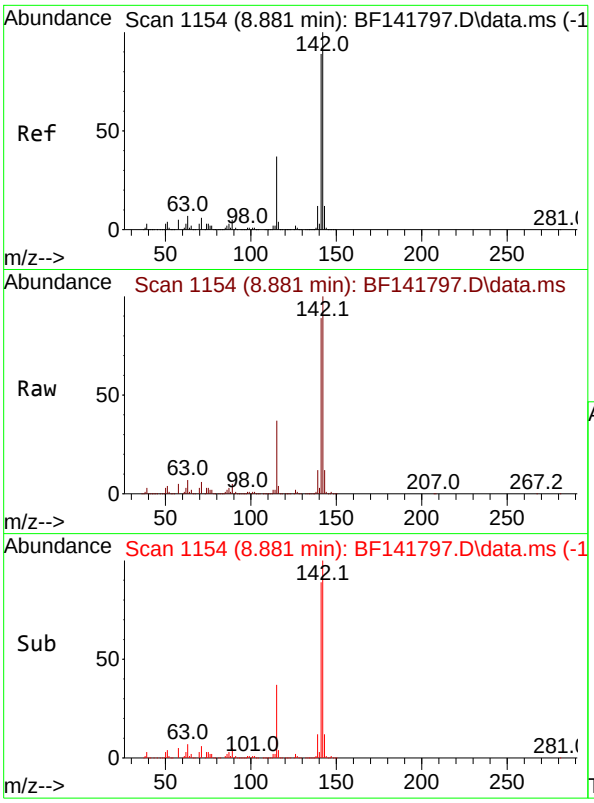




#36
4-Chloro-3-methylphenol
Concen: 41.148 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:107 Resp: 752961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 24.2 | 19.4 | 29.0 |
| 142 | 74.2 | 59.4 | 89.0 |

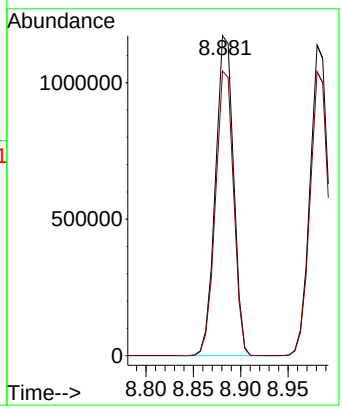





#37
2-Methylnaphthalene
Concen: 40.179 ng
RT: 8.881 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:142 Resp: 156542

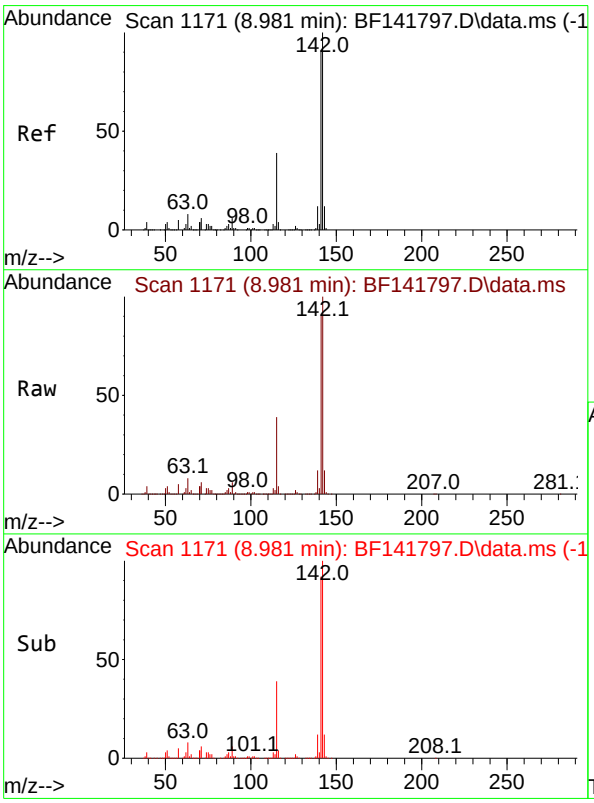
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.9 | 71.1 | 106.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

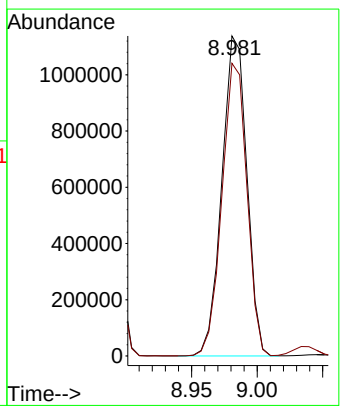
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

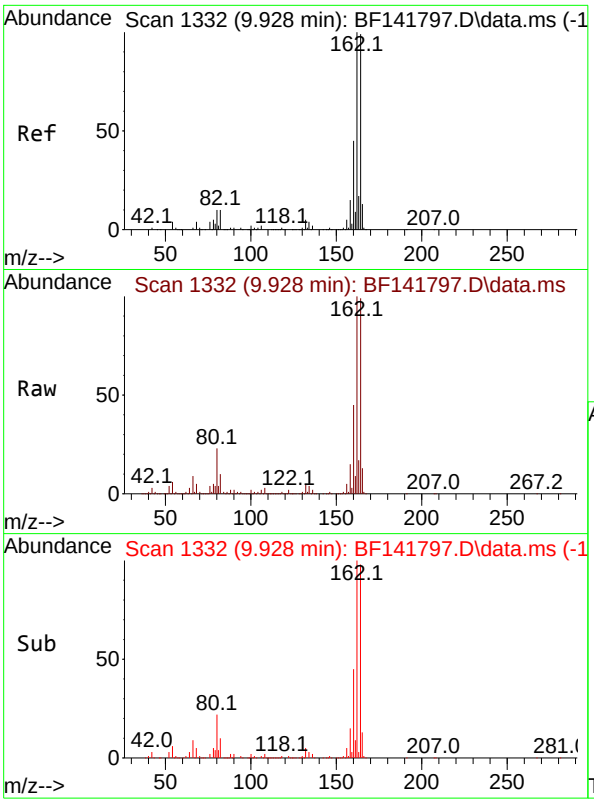



#38
1-Methylnaphthalene
Concen: 40.286 ng
RT: 8.981 min Scan# 1171
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:142 Resp: 1506039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.4 | 73.1 | 109.7 |

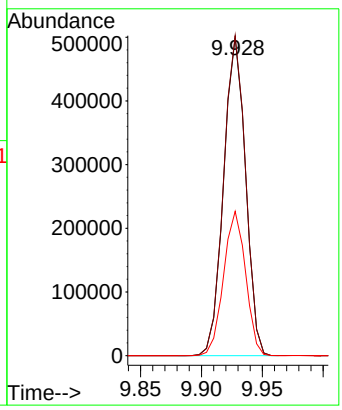





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:164 Resp: 62524

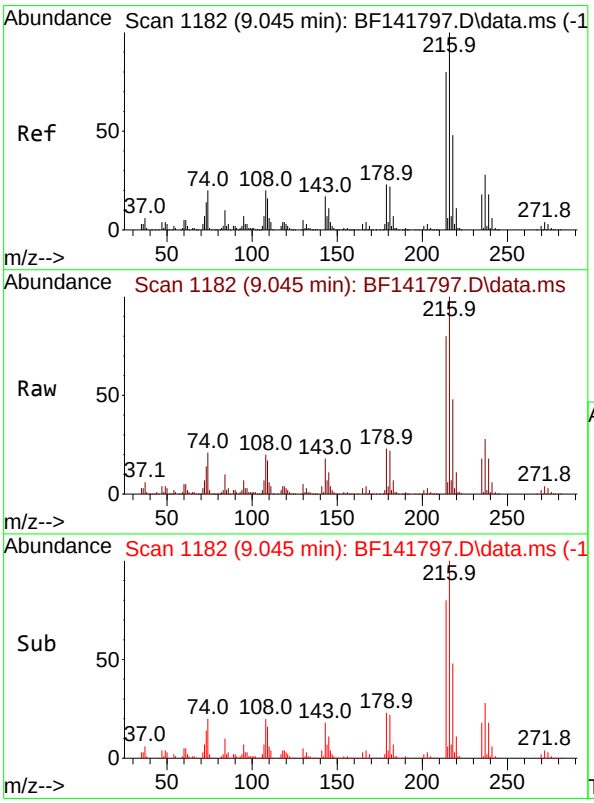
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.7 | 80.6 | 120.8 |
| 160 | 45.4 | 36.3 | 54.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

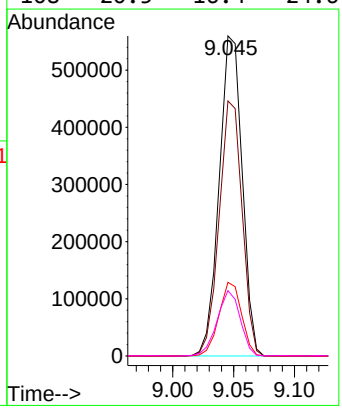
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

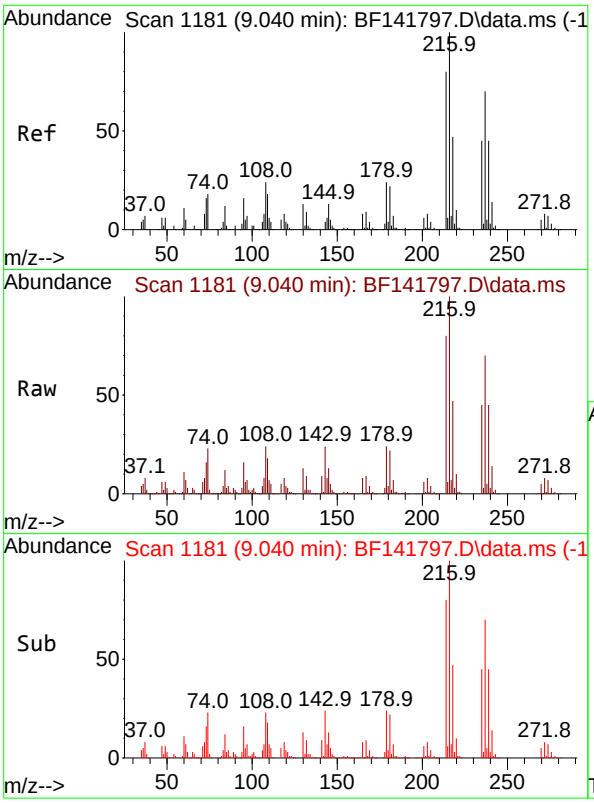



#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.786 ng
RT: 9.045 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:216 Resp: 736508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 79.4 | 63.5 | 95.3 |
| 179 | 22.6 | 18.1 | 27.1 |
| 108 | 20.5 | 16.4 | 24.6 |






#41
Hexachlorocyclopentadiene
Concen: 42.882 ng
RT: 9.040 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

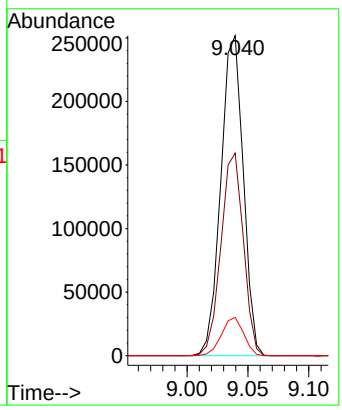
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

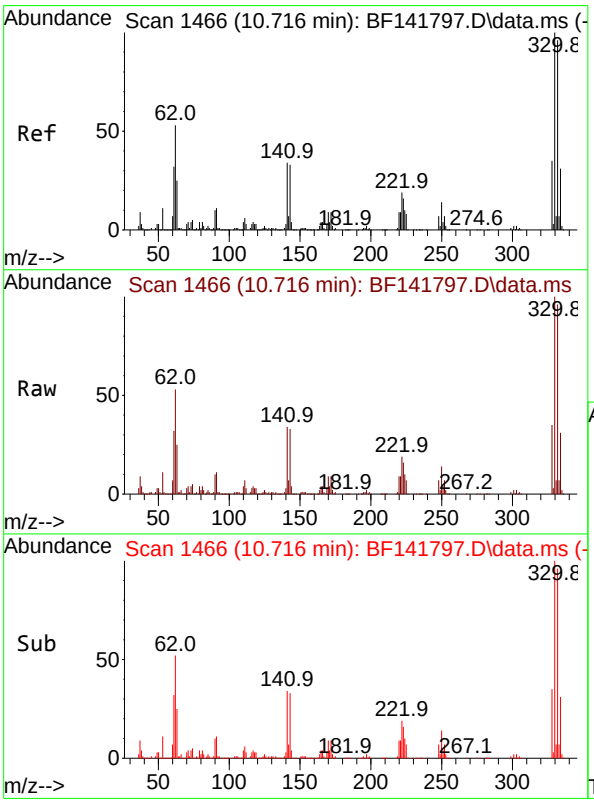
Tgt Ion:237 Resp: 32316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 63.3 | 43.3 | 83.3 |
| 272 | 11.9 | 0.0 | 31.9 |

**Manual Integrations**
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Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

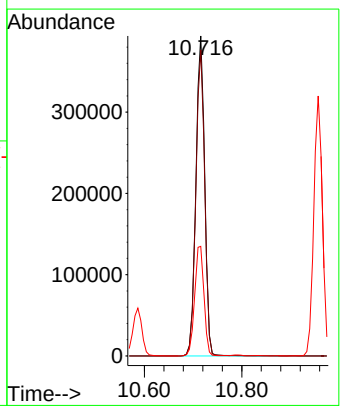


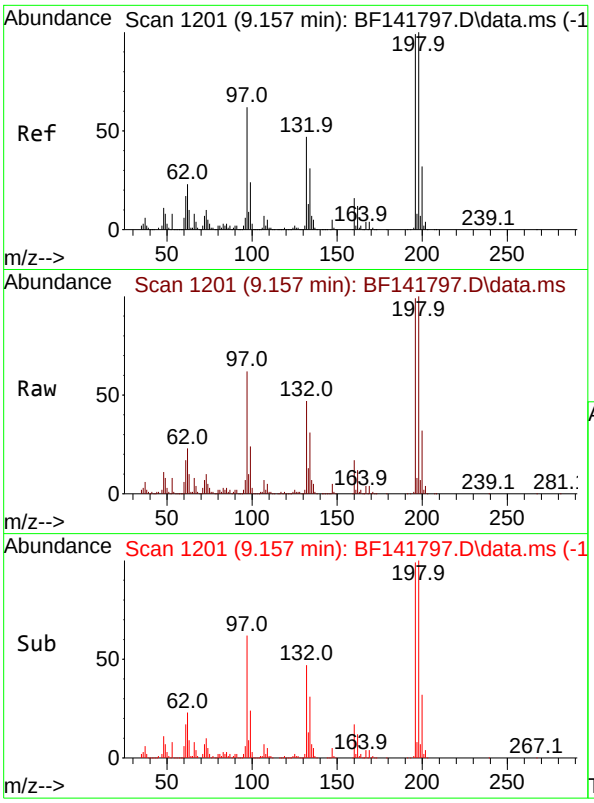




#42
2,4,6-Tribromophenol
Concen: 84.959 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:330 Resp: 498702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.8 | 76.6 | 115.0 |
| 141 | 36.2 | 29.0 | 43.4 |

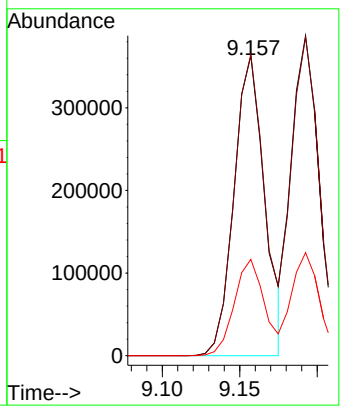





#43
2,4,6-Trichlorophenol
Concen: 42.623 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:196 Resp: 49718

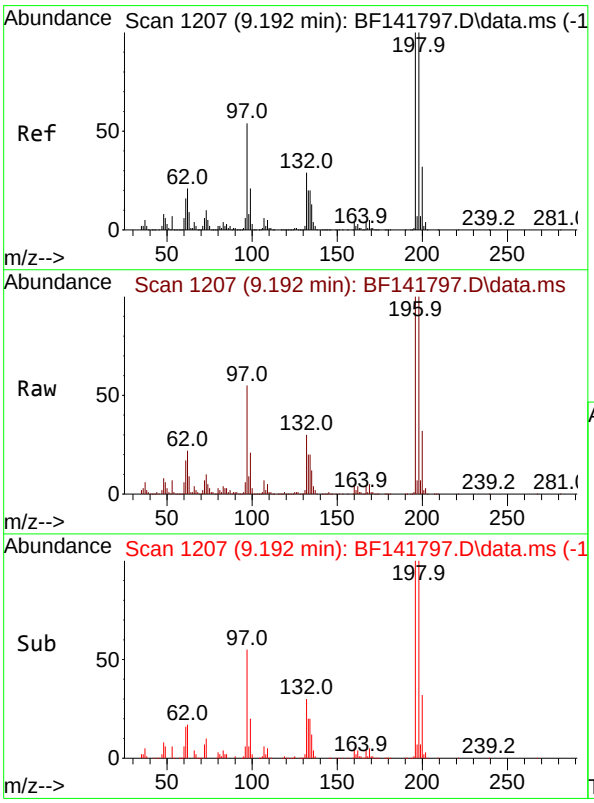
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.5 | 80.4 | 120.6 |
| 200 | 32.1 | 25.7 | 38.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

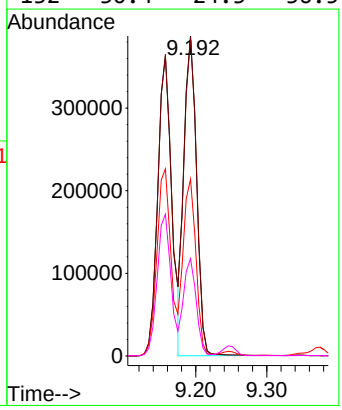
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

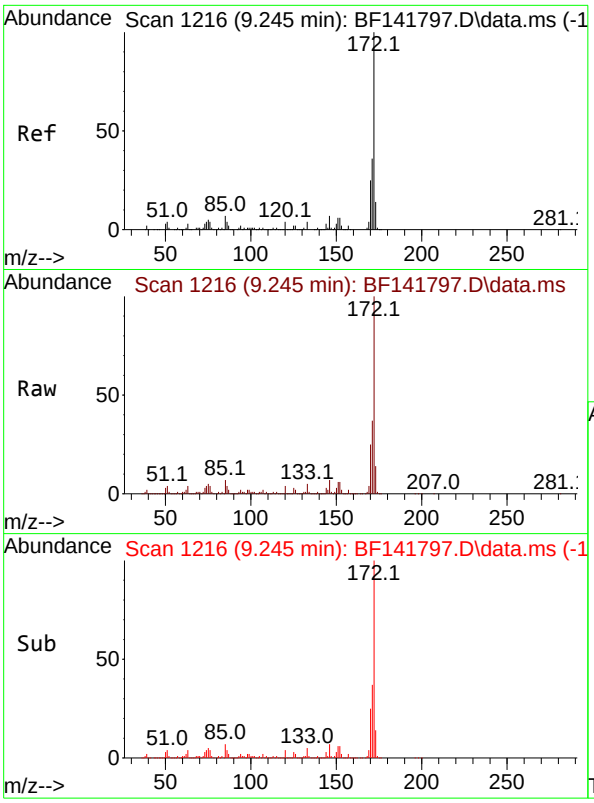



#44
2,4,5-Trichlorophenol
Concen: 41.448 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:196 Resp: 478749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 99.6 | 79.7 | 119.5 |
| 97 | 55.2 | 44.2 | 66.2 |
| 132 | 30.4 | 24.3 | 36.5 |

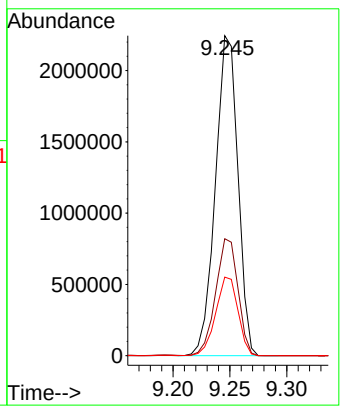





#45
2-Fluorobiphenyl
Concen: 79.348 ng
RT: 9.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:172 Resp: 309407

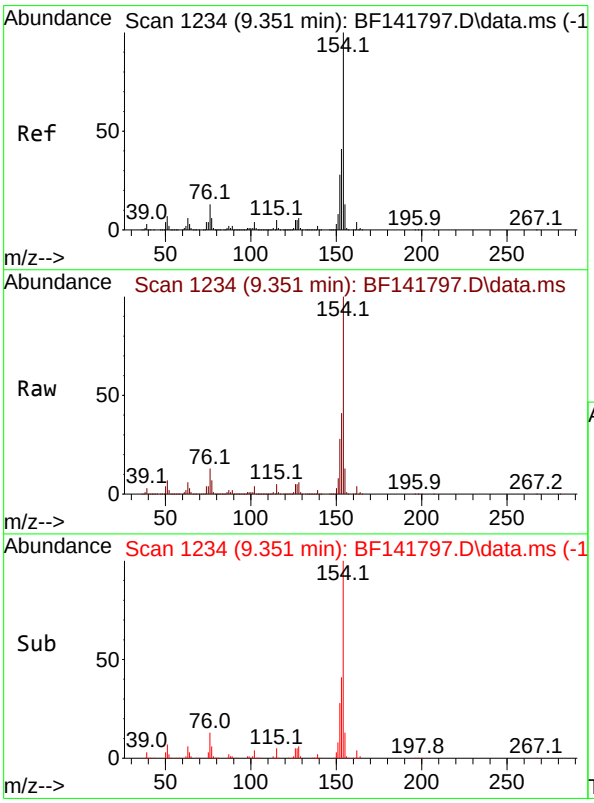
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 29.2 | 43.8 |
| 170 | 24.6 | 19.7 | 29.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

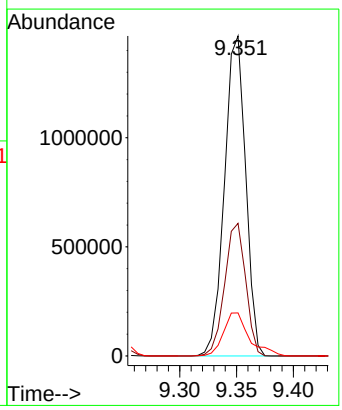
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

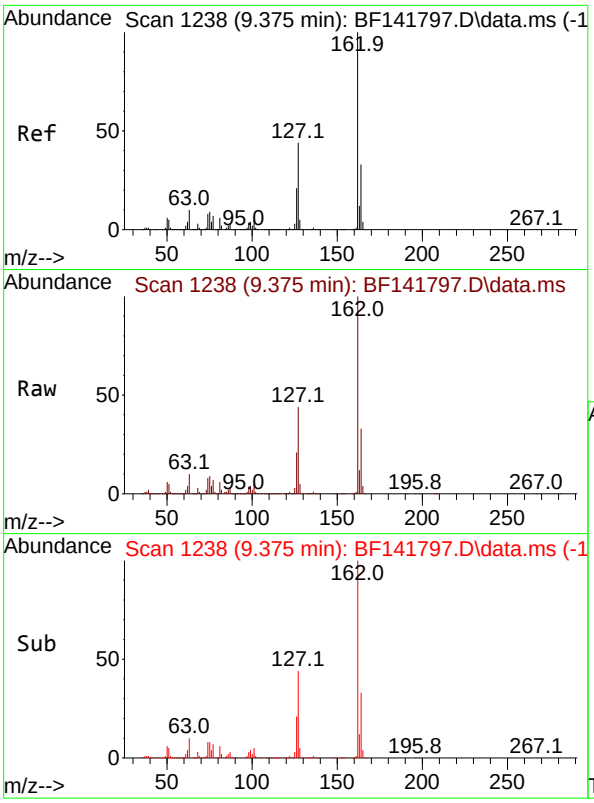



#46
1,1'-Biphenyl
Concen: 39.917 ng
RT: 9.351 min Scan# 1234
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:154 Resp: 1899694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.4 | 21.4 | 61.4 |
| 76 | 13.4 | 0.0 | 33.4 |

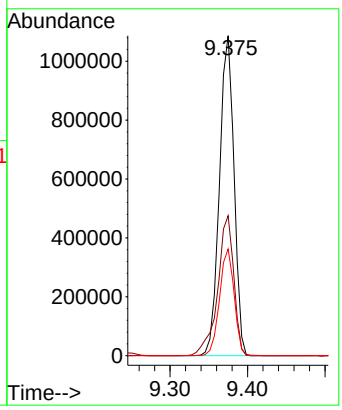





#47
2-Chloronaphthalene
Concen: 40.402 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:162 Resp: 141914

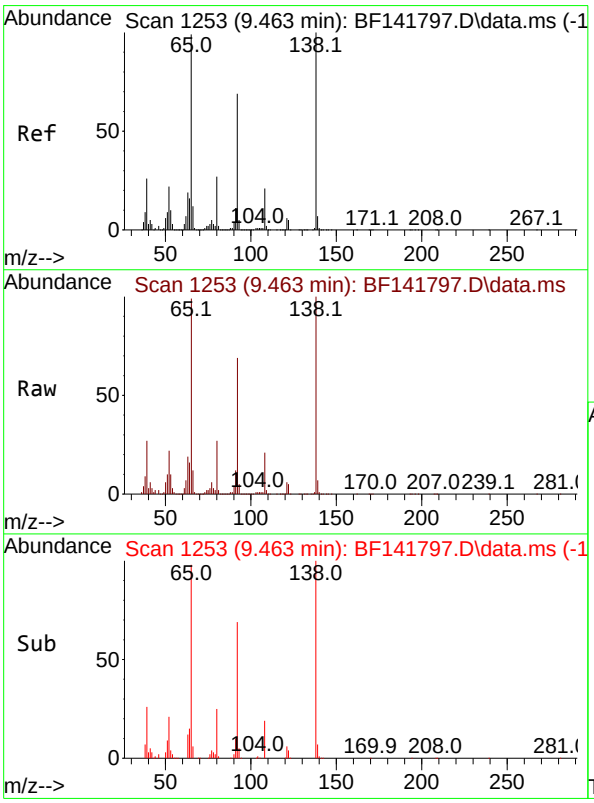
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 43.8 | 35.0 | 52.6 |
| 164 | 33.3 | 26.6 | 40.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

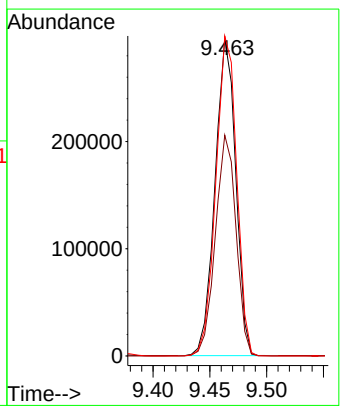
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

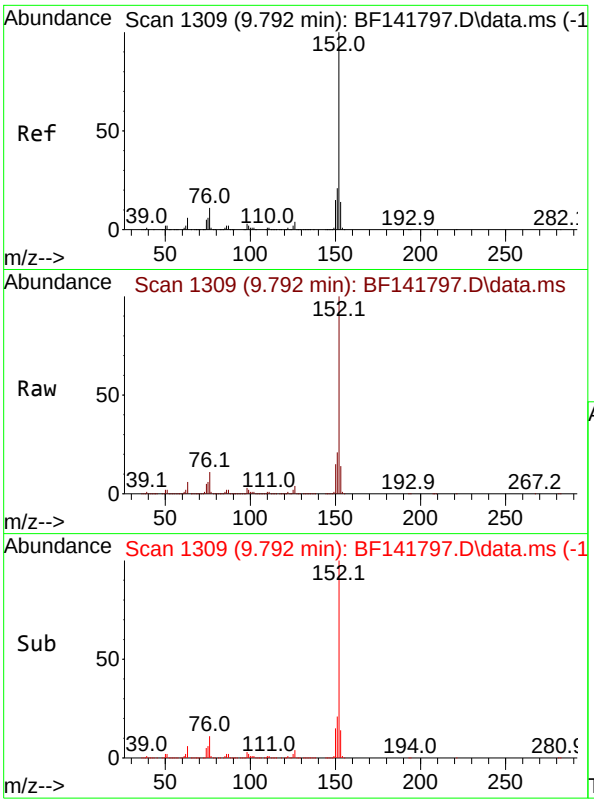



#48
2-Nitroaniline
Concen: 39.827 ng
RT: 9.463 min Scan# 1253
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 65 Resp: 375120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 69.6 | 55.7 | 83.5 |
| 138 | 100.8 | 80.6 | 121.0 |






#49
Acenaphthylene
Concen: 40.629 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

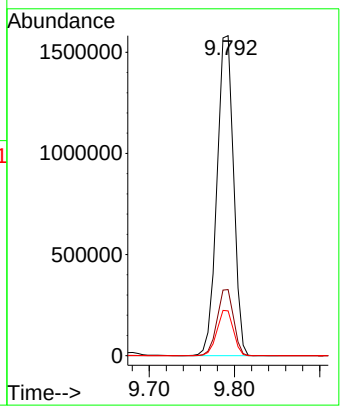
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

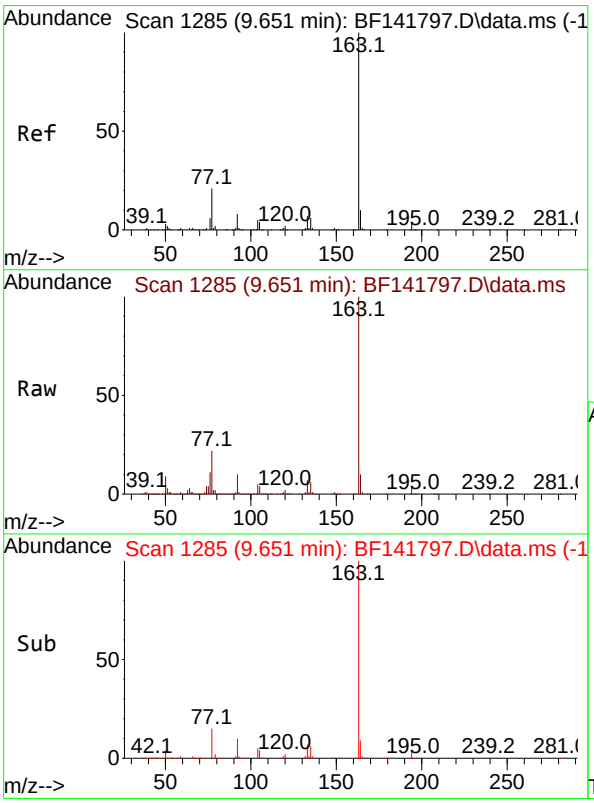
Tgt Ion:152 Resp: 213972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.7 | 16.6 | 24.8 |
| 153 | 14.0 | 11.2 | 16.8 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

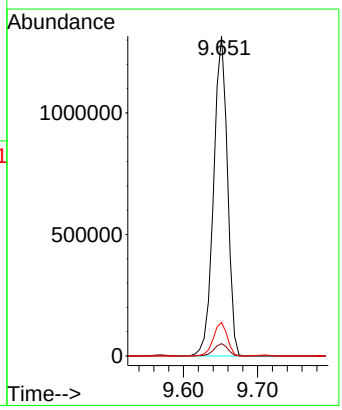


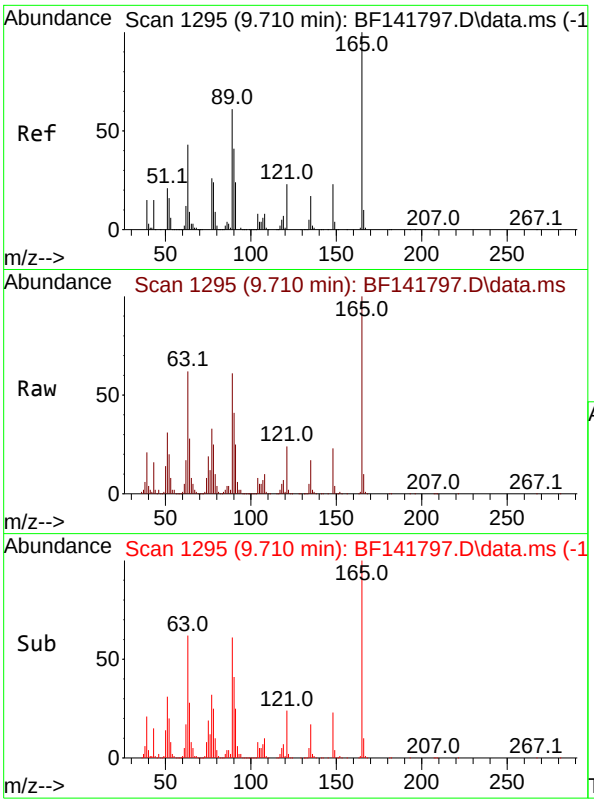




#50
Dimethylphthalate
Concen: 40.710 ng
RT: 9.651 min Scan# 1285
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:163 Resp: 1704601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.9 | 3.1 | 4.7 |
| 164 | 10.5 | 8.4 | 12.6 |

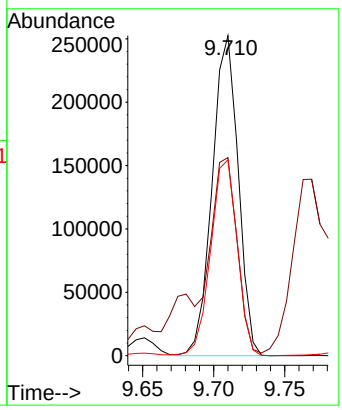





#51
2,6-Dinitrotoluene
Concen: 40.557 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:165 Resp: 32112

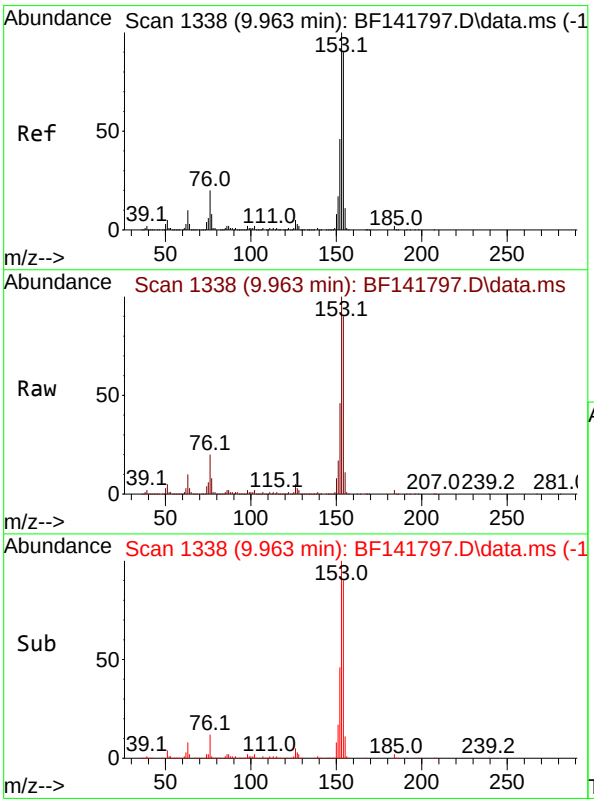
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 61.9 | 49.5 | 74.3 |
| 89 | 61.2 | 49.0 | 73.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

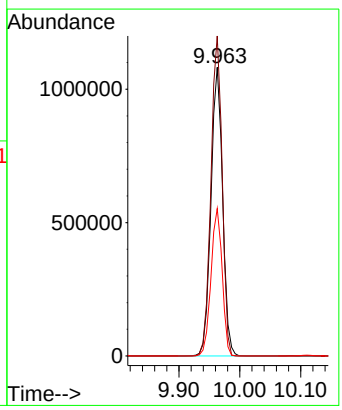
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

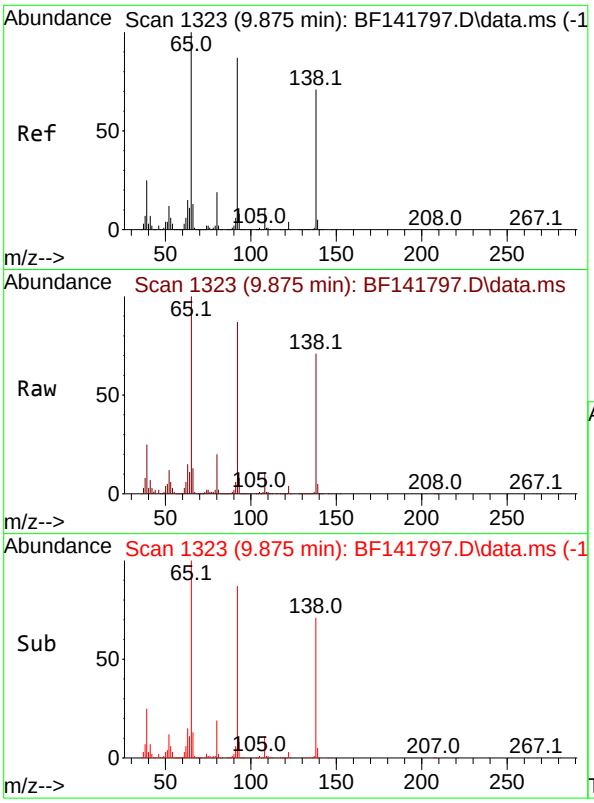



#52
Acenaphthene
Concen: 40.461 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:154 Resp: 1437821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 110.9 | 88.7 | 133.1 |
| 152 | 51.1 | 40.9 | 61.3 |






#53
3-Nitroaniline
Concen: 41.045 ng
RT: 9.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

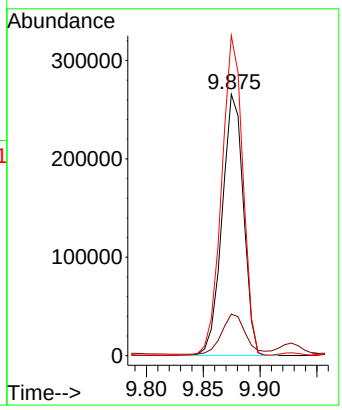
Tgt Ion:138 Resp: 34629

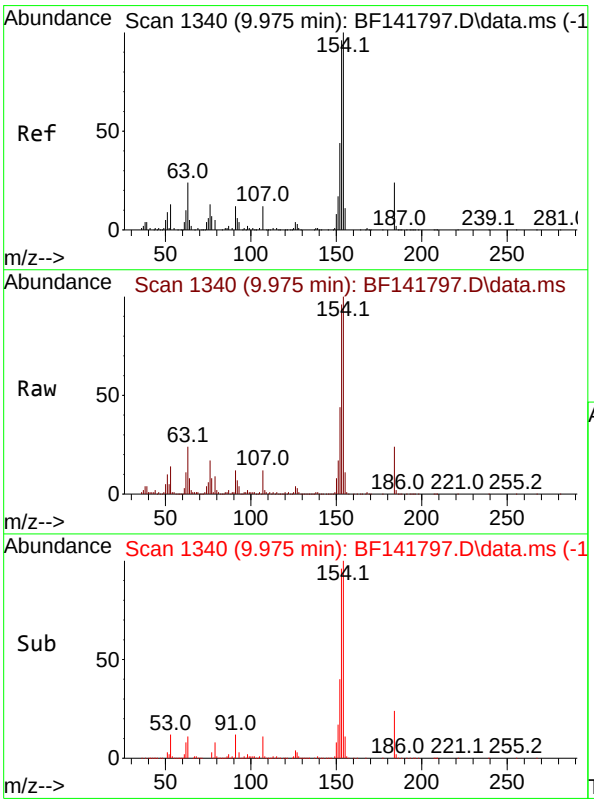
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 15.9 | 12.7 | 19.1 |
| 92 | 122.4 | 97.9 | 146.9 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
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Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

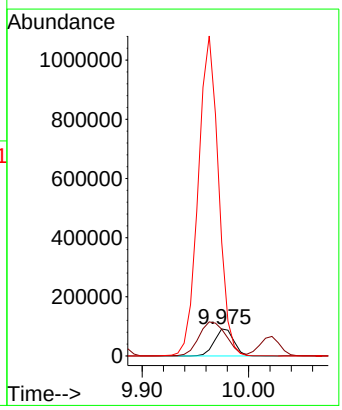


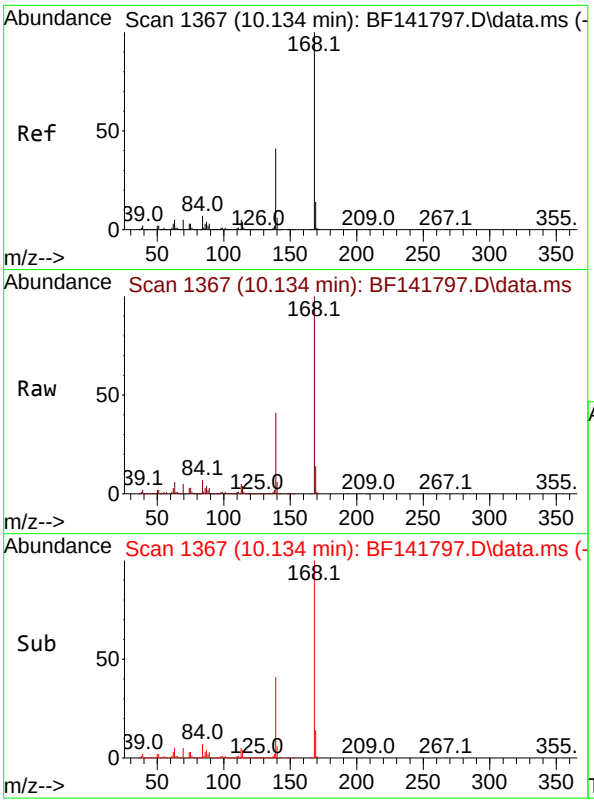




#54
2,4-Dinitrophenol
Concen: 39.874 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:184 Resp: 115933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 98.8 | 79.0 | 118.6 |
| 154 | 419.8 | 335.8 | 503.8 |






#55
Dibenzofuran
Concen: 40.198 ng
RT: 10.134 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

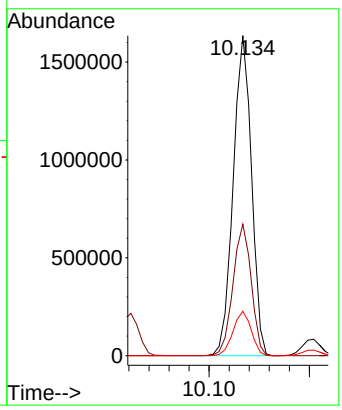
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

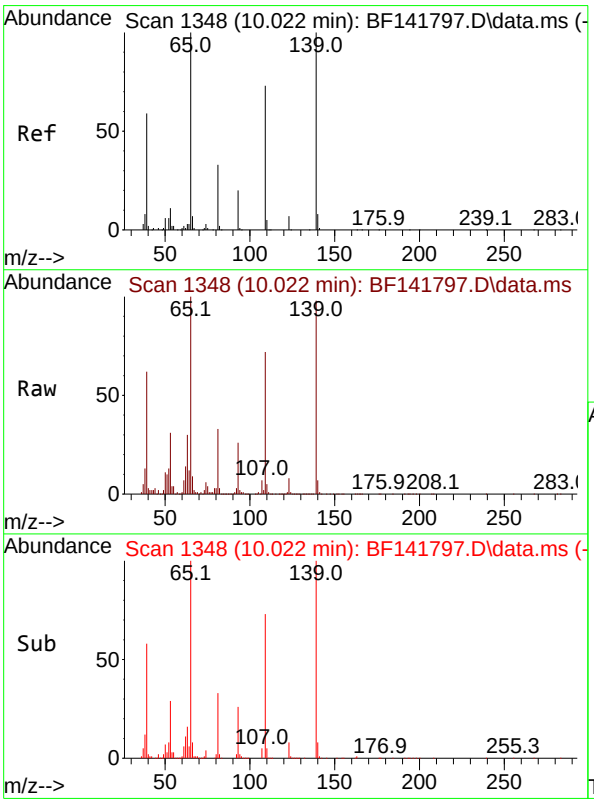
Tgt Ion:168 Resp: 207913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 41.1 | 32.9 | 49.3 |
| 169 | 13.9 | 11.1 | 16.7 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

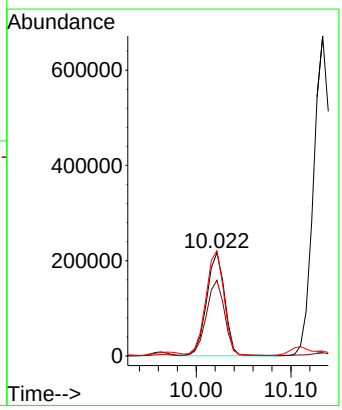


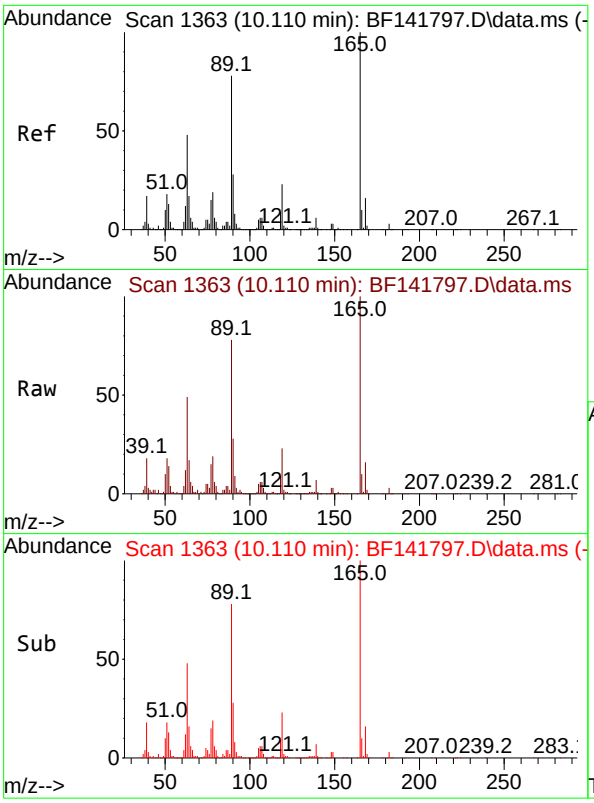




#56
4-Nitrophenol
Concen: 46.172 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:139 Resp: 285537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 73.4 | 53.4 | 93.4 |
| 65 | 102.1 | 82.1 | 122.1 |

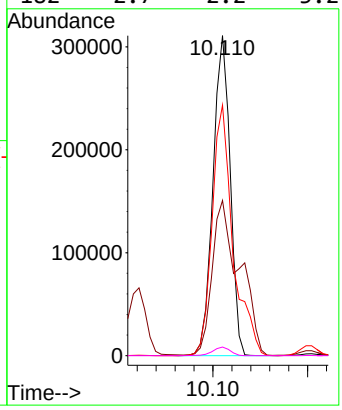





#57
2,4-Dinitrotoluene
Concen: 40.635 ng
RT: 10.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:165 Resp: 39185

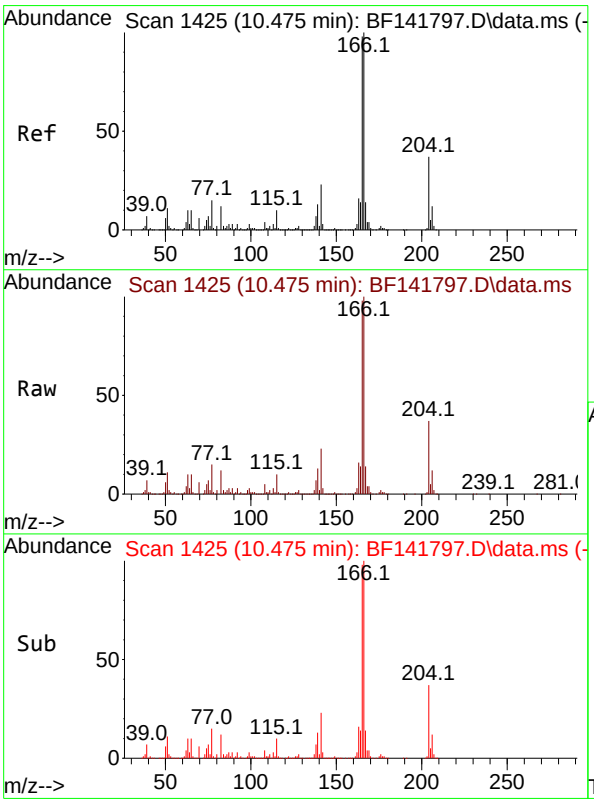
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 48.5 | 38.8 | 58.2 |
| 89 | 78.3 | 62.6 | 94.0 |
| 182 | 2.7 | 2.2 | 3.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

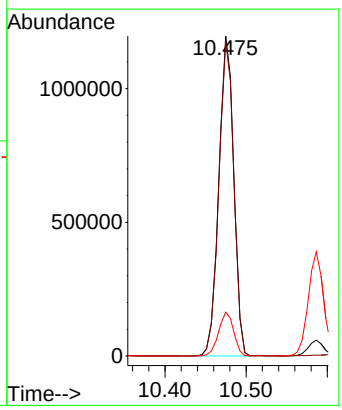
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

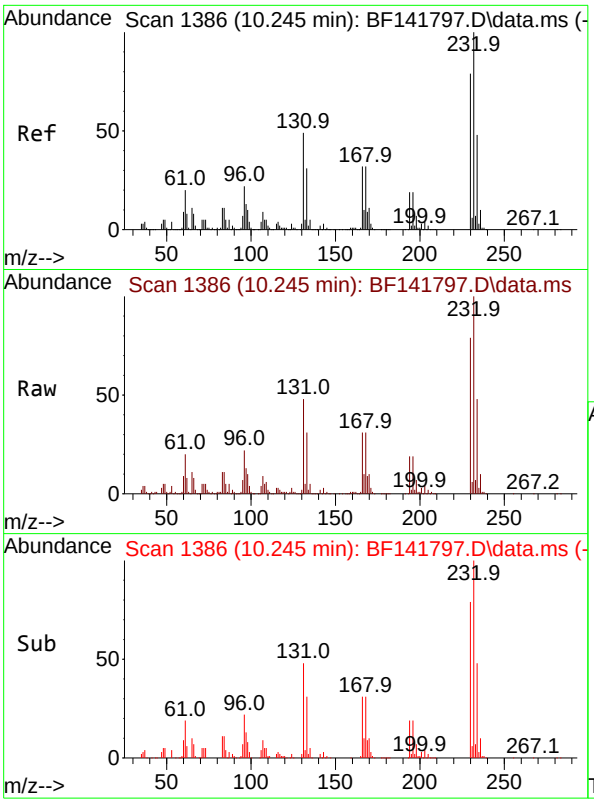



#58
Fluorene
Concen: 39.650 ng
RT: 10.475 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:166 Resp: 1536139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.2 | 78.6 | 117.8 |
| 167 | 13.7 | 11.0 | 16.4 |

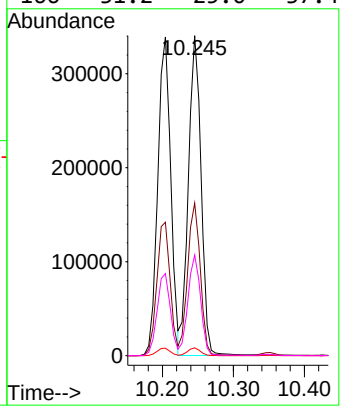





#59
2,3,4,6-Tetrachlorophenol
Concen: 42.235 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:232 Resp: 42427

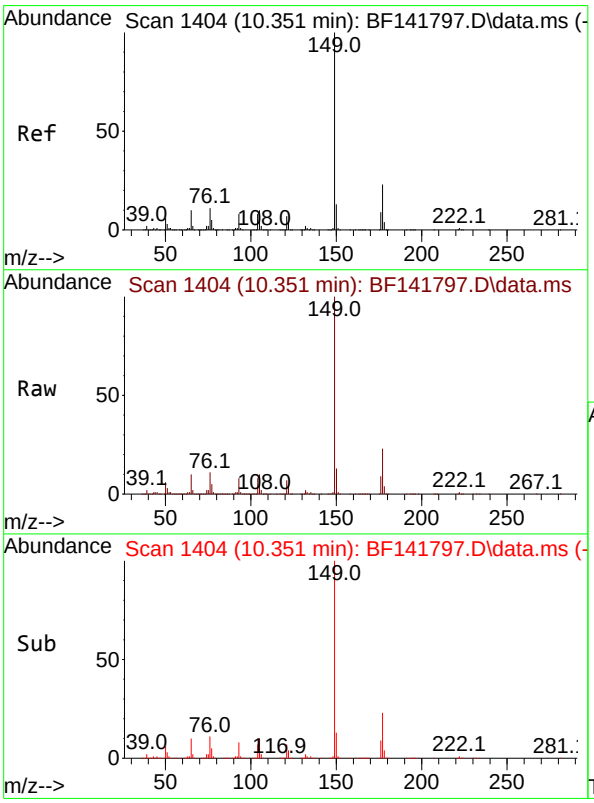
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 47.3 | 37.8 | 56.8 |
| 130 | 2.5 | 2.0 | 3.0 |
| 166 | 31.2 | 25.0 | 37.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

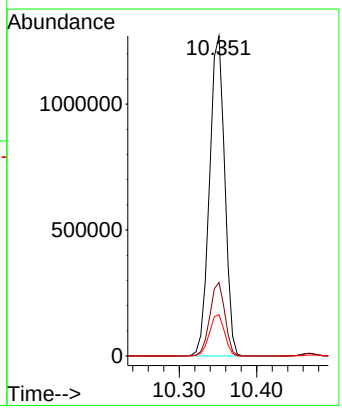
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

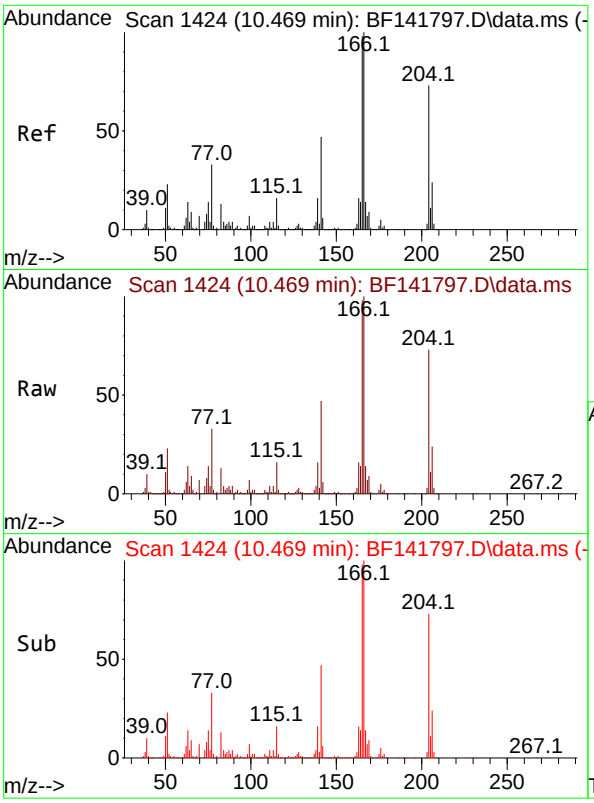



#60
Diethylphthalate
Concen: 41.203 ng
RT: 10.351 min Scan# 1404
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:149 Resp: 1729522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.9 | 18.3 | 27.5 |
| 150 | 12.9 | 10.3 | 15.5 |






#61
4-Chlorophenyl-phenylether
Concen: 39.939 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

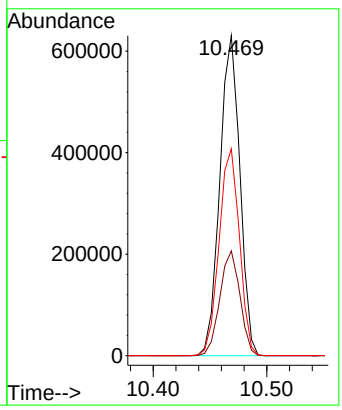
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

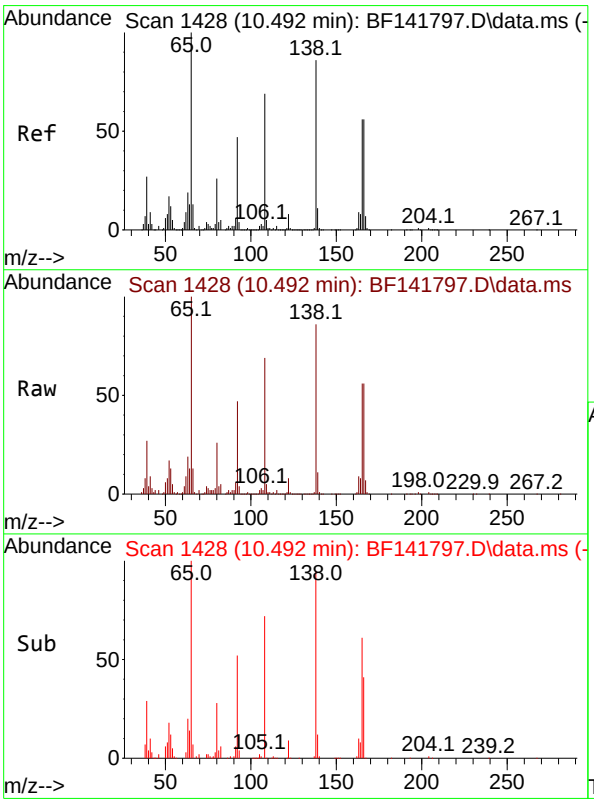
Tgt Ion:204 Resp: 77527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.8 | 26.2 | 39.4 |
| 141 | 64.6 | 51.7 | 77.5 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

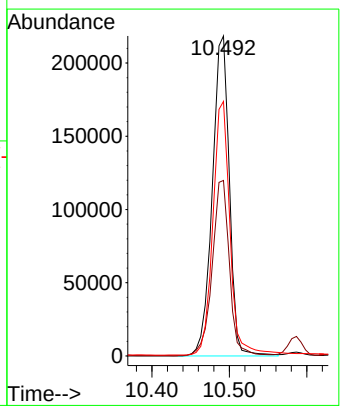


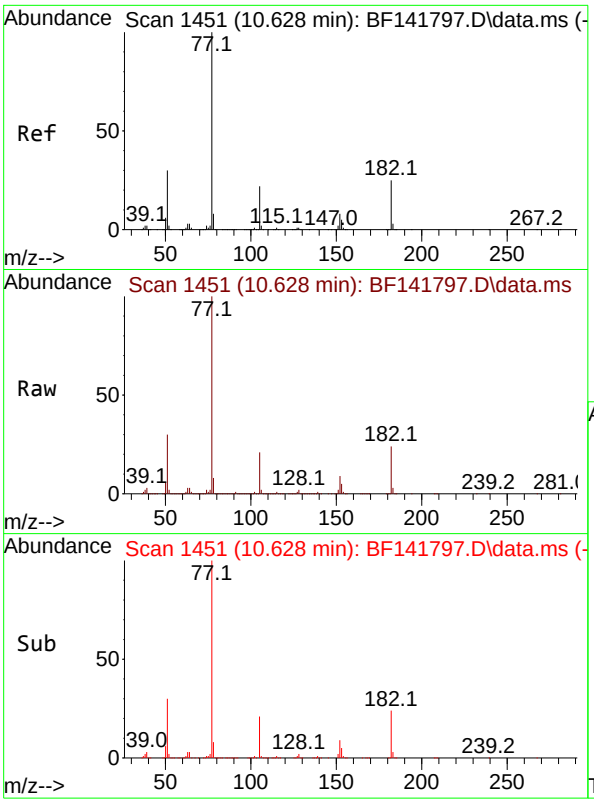




#62
4-Nitroaniline
Concen: 46.685 ng
RT: 10.492 min Scan# 1428
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:138 Resp: 333830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 54.9 | 34.9 | 74.9 |
| 108 | 79.6 | 59.6 | 99.6 |

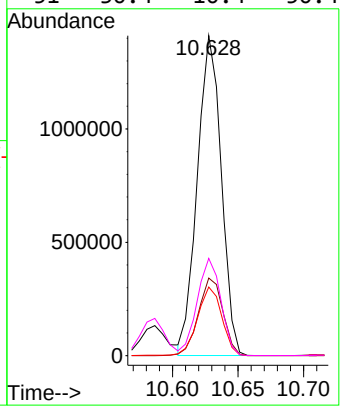





#63
Azobenzene
Concen: 40.657 ng
RT: 10.628 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 77 Resp: 179690

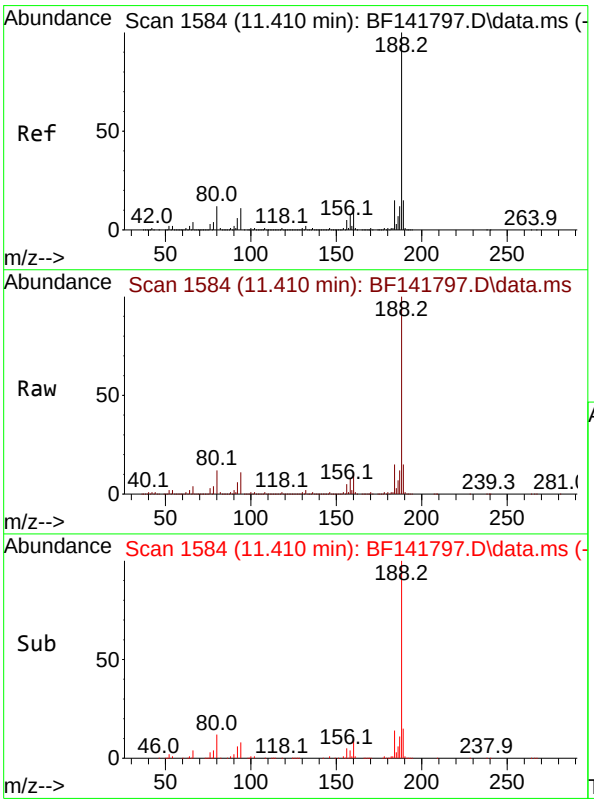
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 24.2 | 4.2 | 44.2 |
| 105 | 21.5 | 1.5 | 41.5 |
| 51 | 30.4 | 10.4 | 50.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

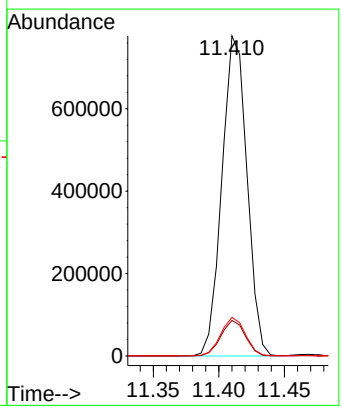
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

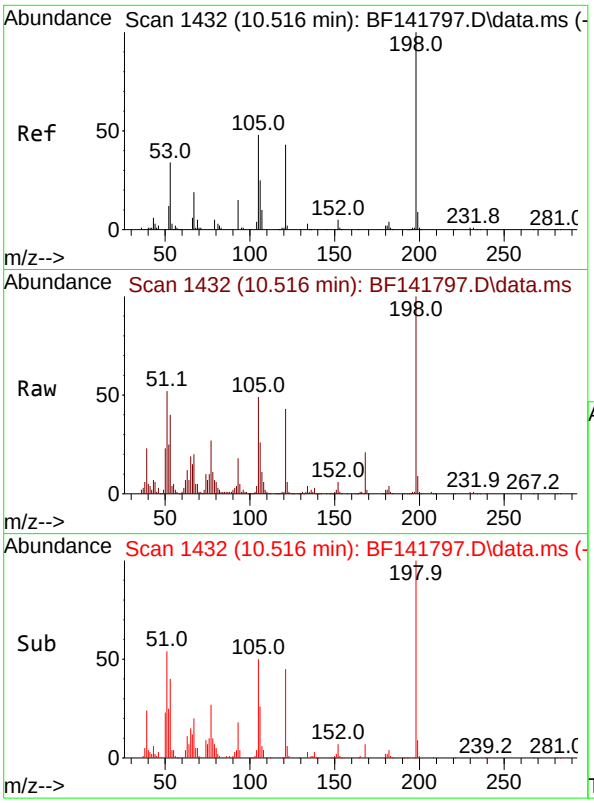



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:188 Resp: 1031875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 11.1 | 8.9 | 13.3 |
| 80 | 12.1 | 9.7 | 14.5 |






#65
4,6-Dinitro-2-methylphenol
Concen: 38.731 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

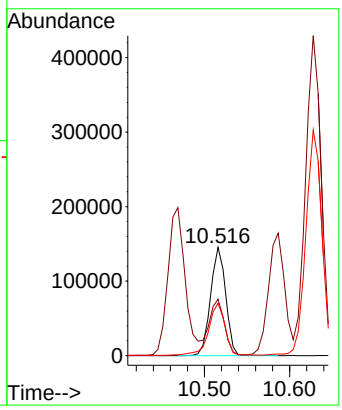
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

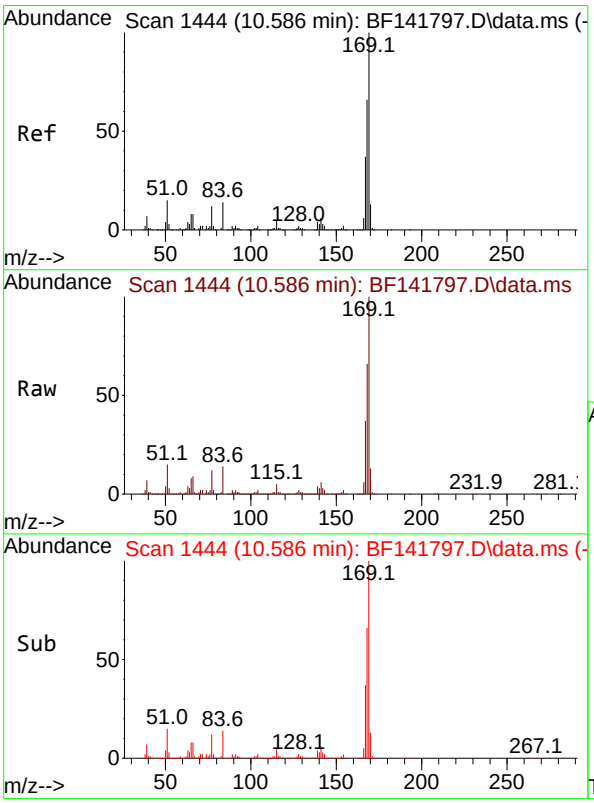
Tgt Ion:198 Resp: 179018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 52.1 | 32.1 | 72.1 |
| 105 | 48.5 | 28.5 | 68.5 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

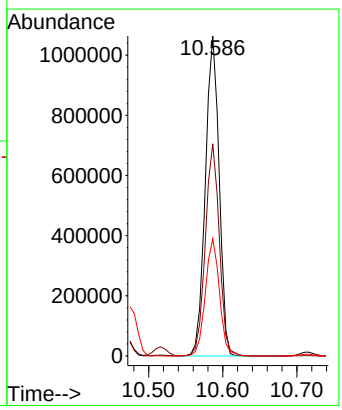


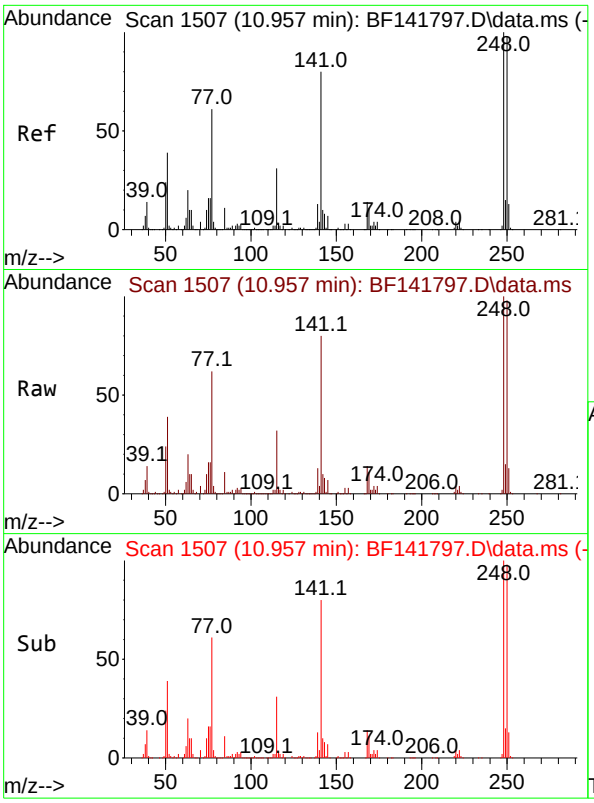




#66
n-Nitrosodiphenylamine
Concen: 40.485 ng
RT: 10.586 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:169 Resp: 1371761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.3 | 53.0 | 79.6 |
| 167 | 36.6 | 29.3 | 43.9 |

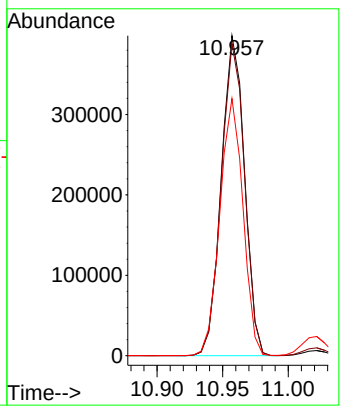





#67
4-Bromophenyl-phenylether
Concen: 40.722 ng
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:248 Resp: 49081

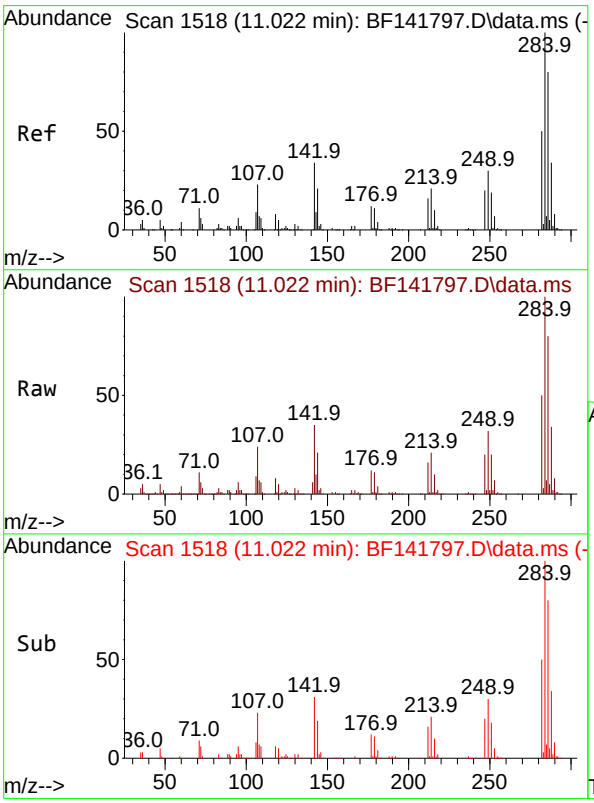
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.6 | 78.1 | 117.1 |
| 141 | 80.4 | 64.3 | 96.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

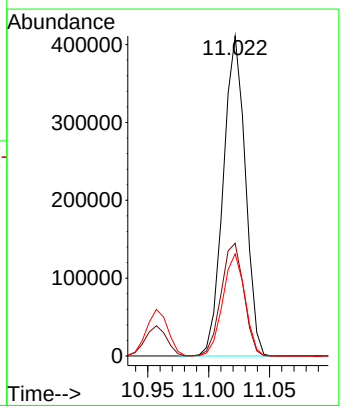
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

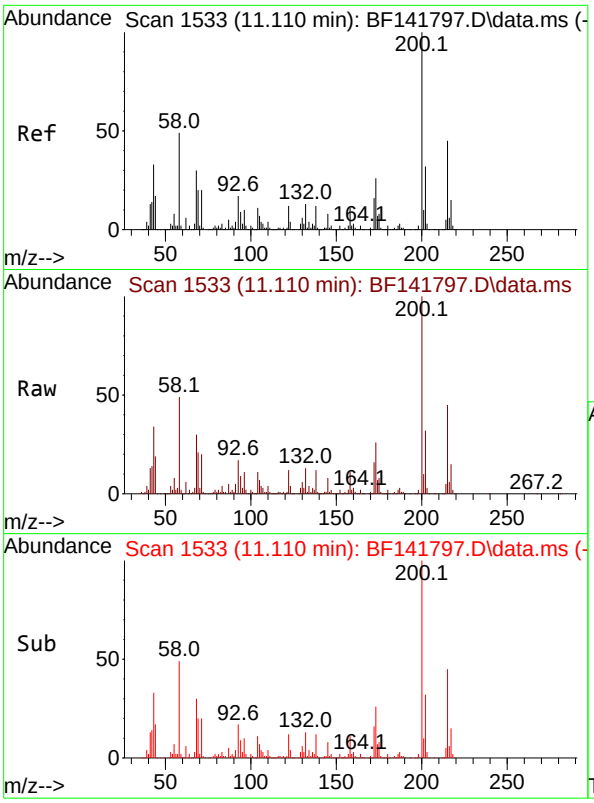



#68
Hexachlorobenzene
Concen: 40.721 ng
RT: 11.022 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:284 Resp: 518266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 35.2 | 28.2 | 42.2 |
| 249 | 31.9 | 25.5 | 38.3 |






#69
Atrazine
Concen: 39.649 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

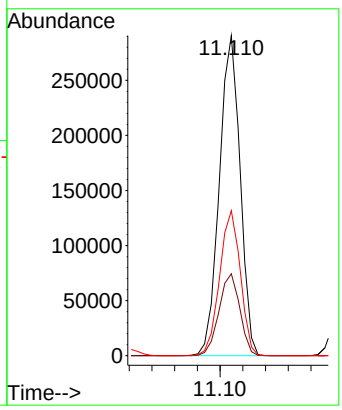
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

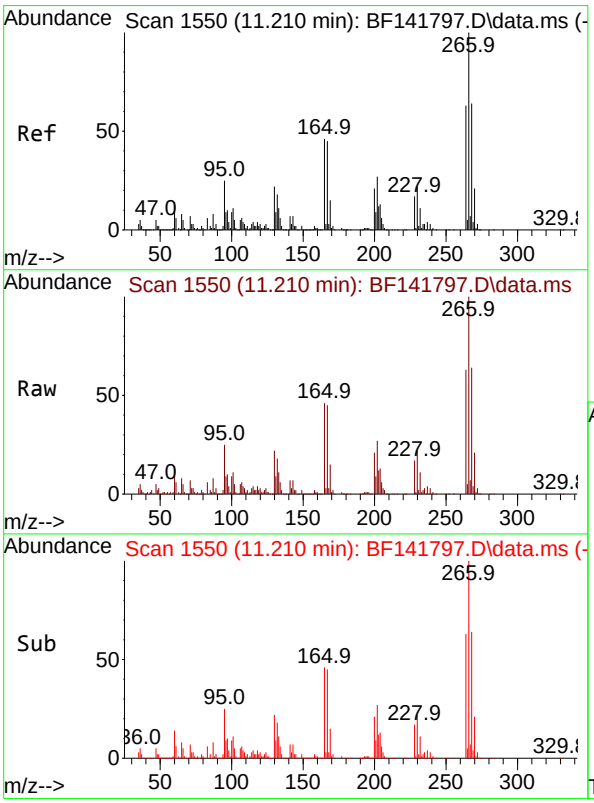
Tgt Ion:200 Resp: 36943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.6 | 5.6 | 45.6 |
| 215 | 45.3 | 25.3 | 65.3 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

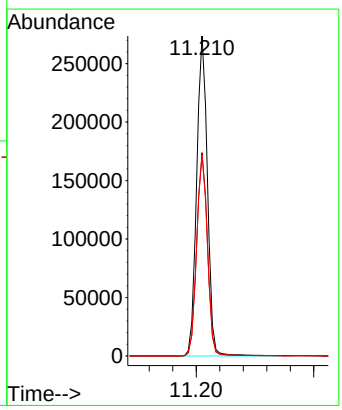


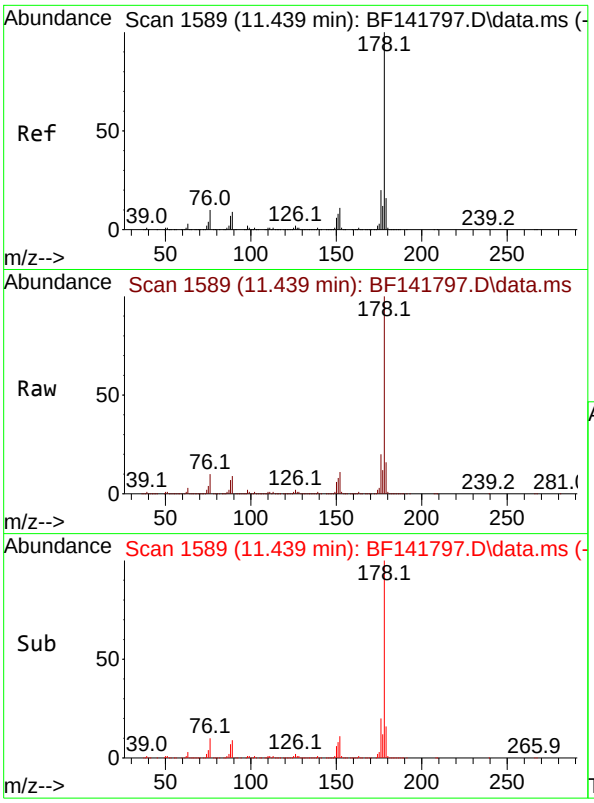




#70
Pentachlorophenol
Concen: 43.086 ng
RT: 11.210 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:266 Resp: 347791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.6 | 50.9 | 76.3 |
| 264 | 62.8 | 50.2 | 75.4 |

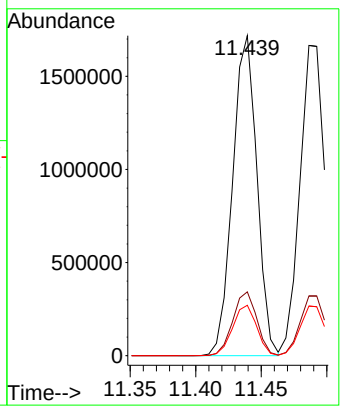





#71
Phenanthrene
Concen: 40.130 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:178 Resp: 221495

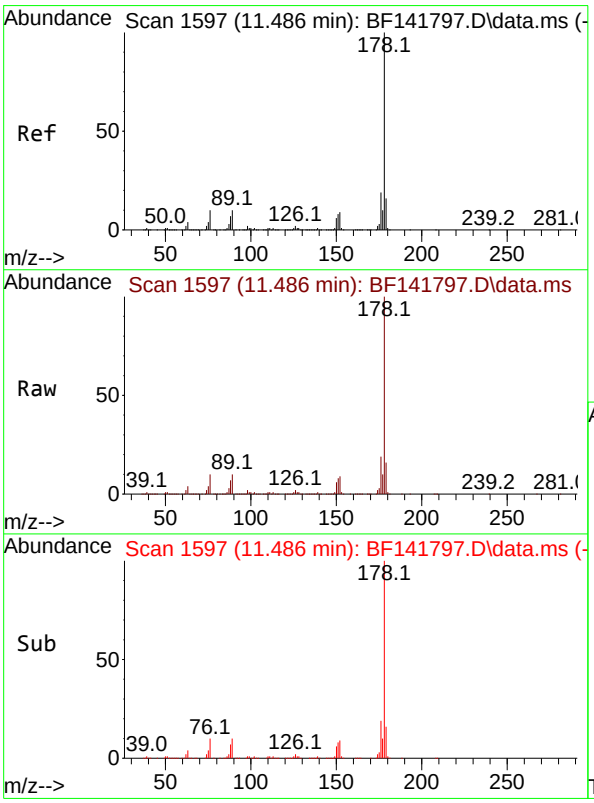
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.0 | 16.0 | 24.0 |
| 179 | 15.8 | 12.6 | 19.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

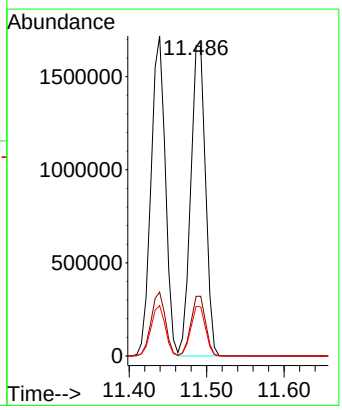
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

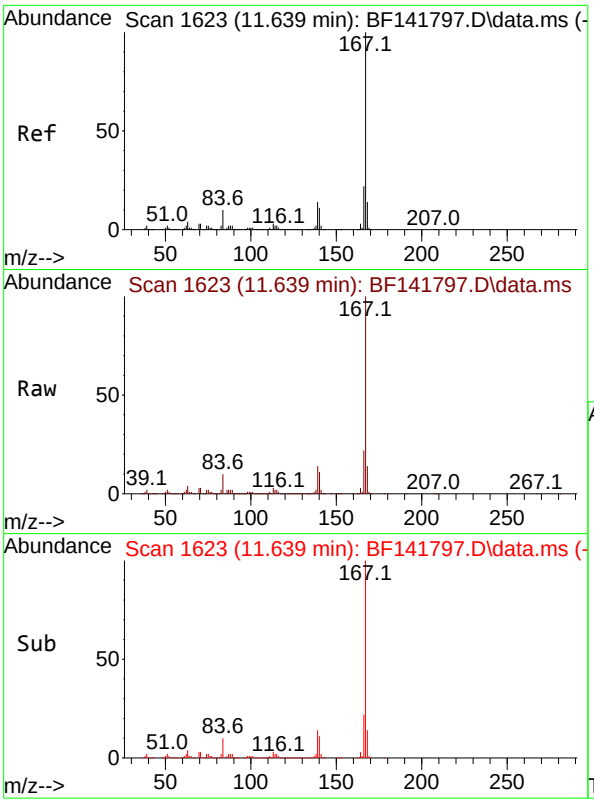



#72
Anthracene
Concen: 39.845 ng
RT: 11.486 min Scan# 1597
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:178 Resp: 2204147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.2 | 15.4 | 23.0 |
| 179 | 16.0 | 12.8 | 19.2 |

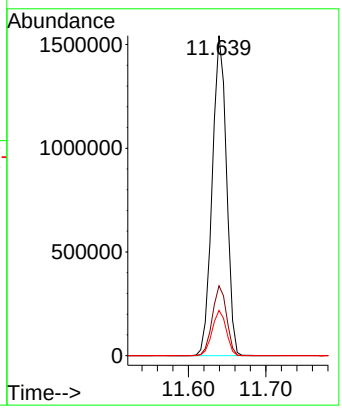





#73
Carbazole
Concen: 40.358 ng
RT: 11.639 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:167 Resp: 197149

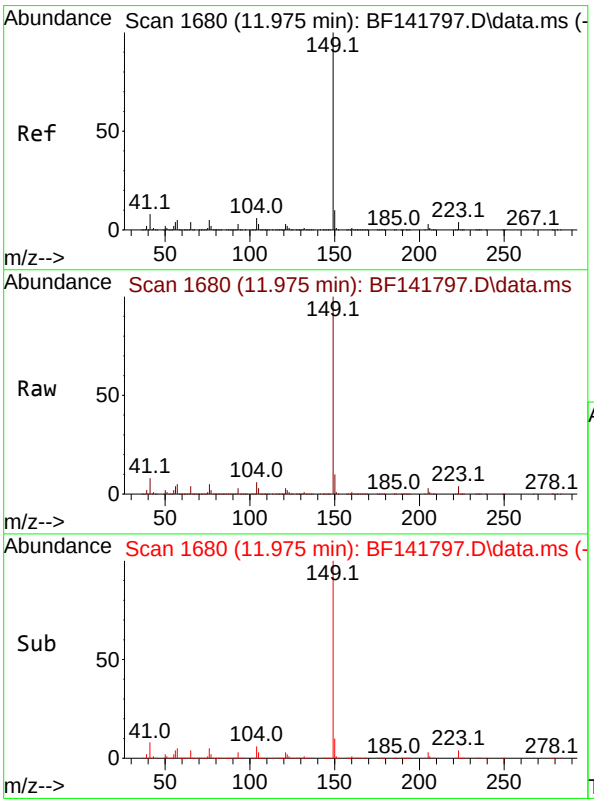
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.9 | 17.5 | 26.3 |
| 139 | 14.1 | 11.3 | 16.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

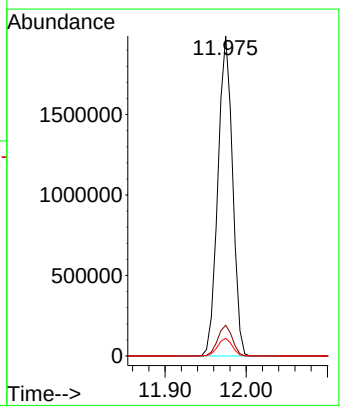
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

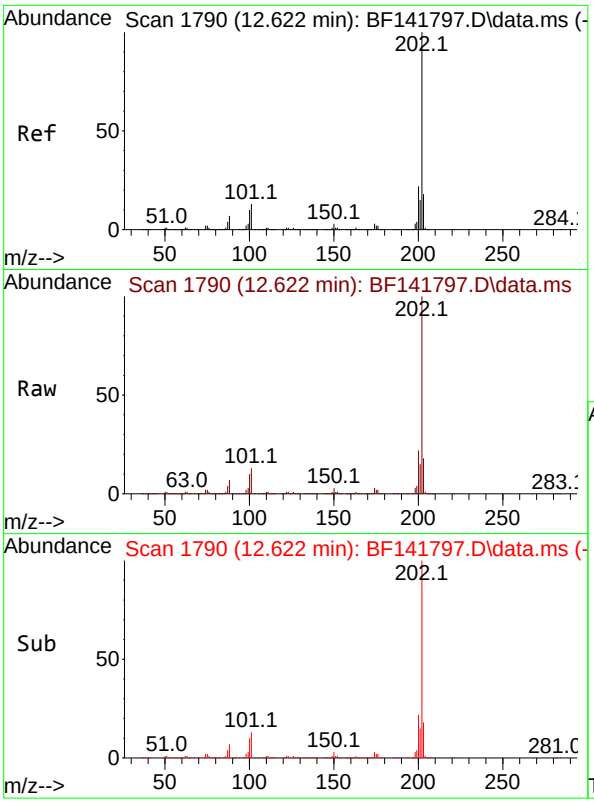



#74
Di-n-butylphthalate
Concen: 40.274 ng
RT: 11.975 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:149 Resp: 2493783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.6 | 7.7 | 11.5 |
| 104 | 5.5 | 4.4 | 6.6 |

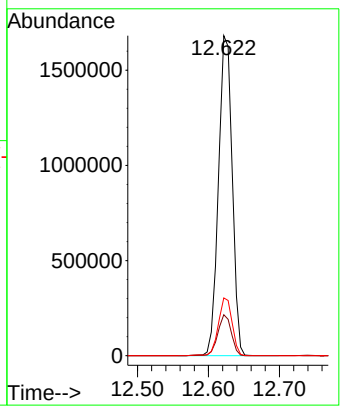





#75
Fluoranthene
Concen: 39.753 ng
RT: 12.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:202 Resp: 224828

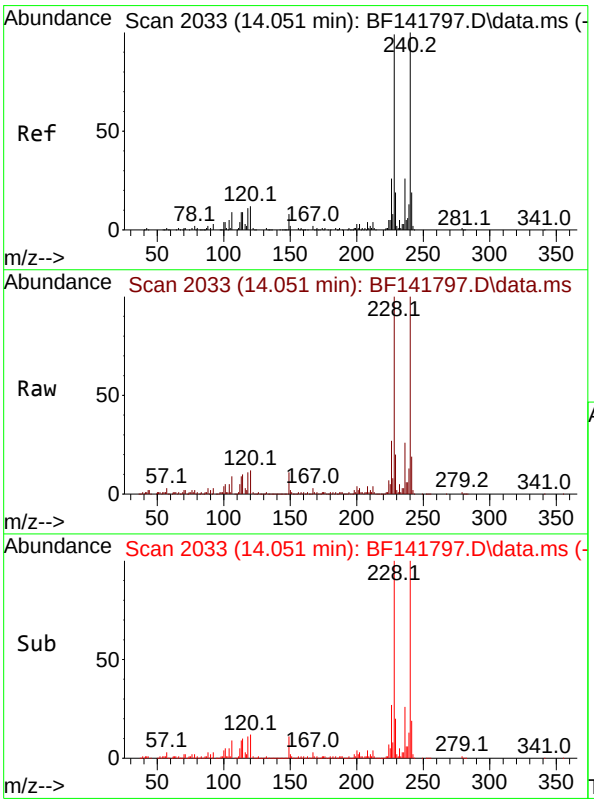
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.8 | 0.0 | 32.8 |
| 203 | 18.0 | 0.0 | 38.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

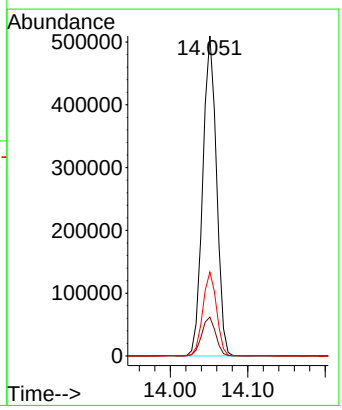
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

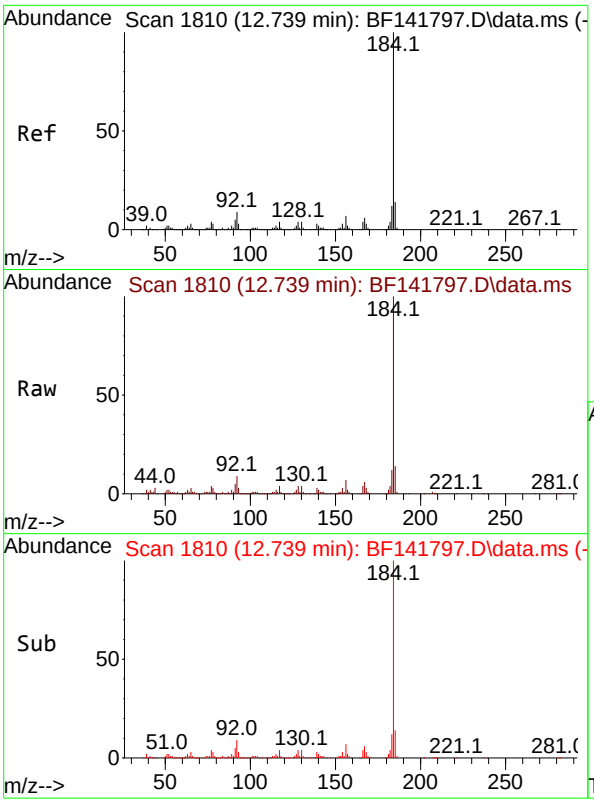



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:240 Resp: 629307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.1 | 9.7 | 14.5 |
| 236 | 26.2 | 21.0 | 31.4 |






#77
Benzidine
Concen: 41.235 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

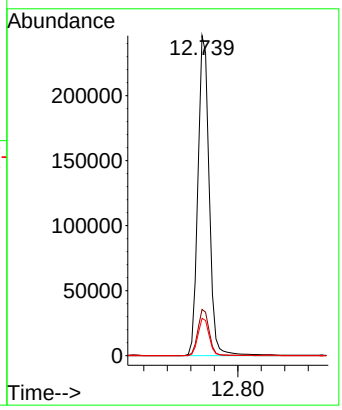
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

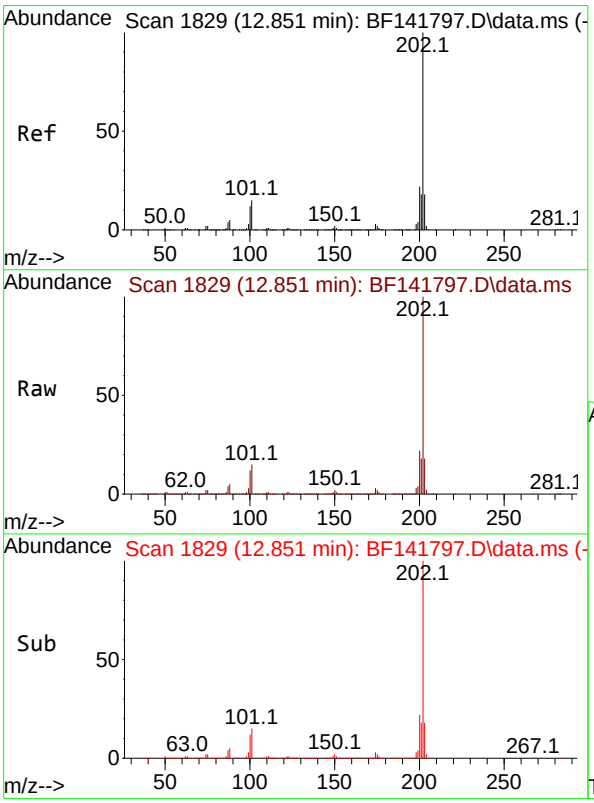
Tgt Ion:184 Resp: 32660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.5 | 11.6 | 17.4 |
| 183 | 11.7 | 9.4 | 14.0 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

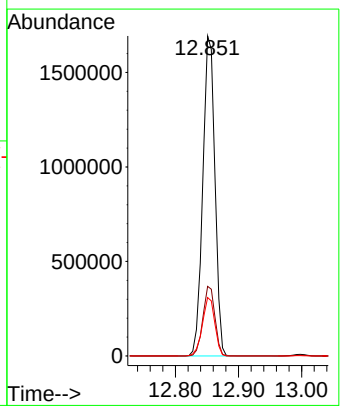


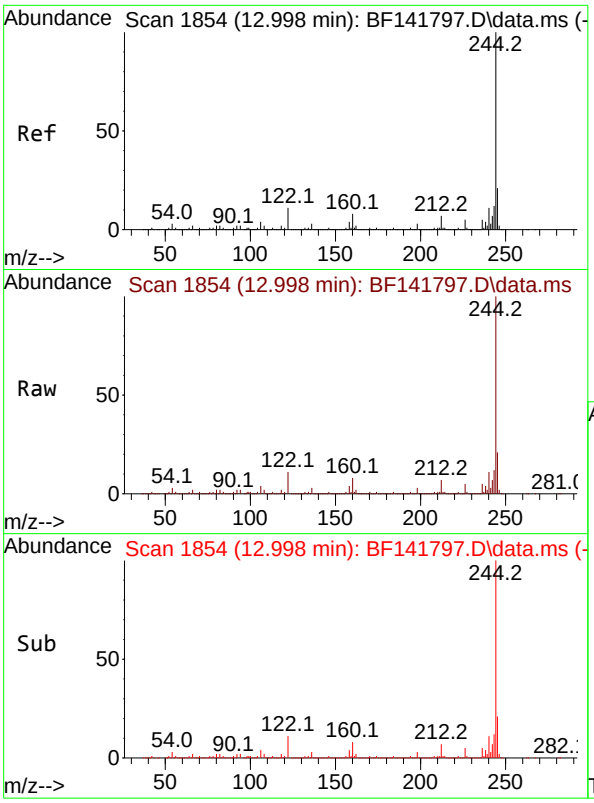




#78
Pyrene
Concen: 41.470 ng
RT: 12.851 min Scan# 1829
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:202 Resp: 2259888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.7 | 17.4 | 26.0 |
| 203 | 18.3 | 14.6 | 22.0 |

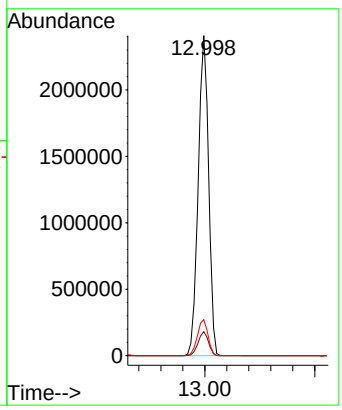





#79
Terphenyl-d14
Concen: 81.511 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:244 Resp: 317044

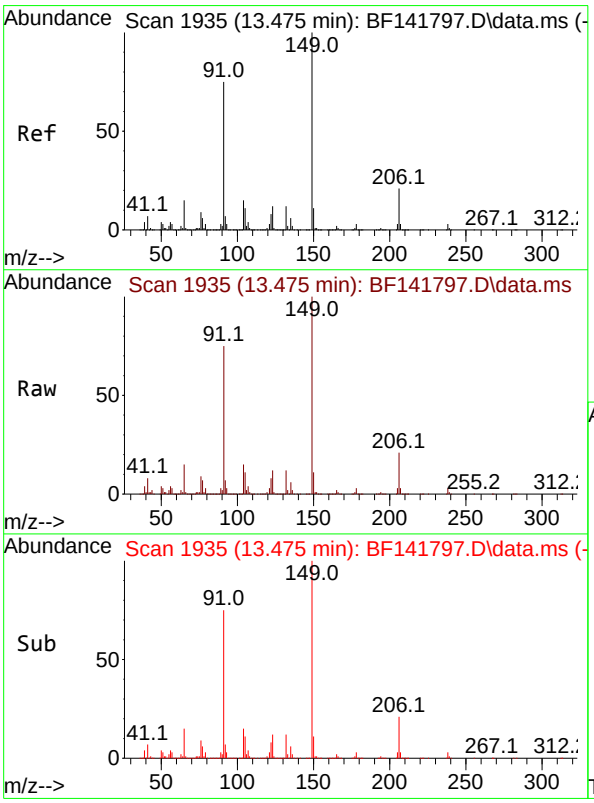
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.5 | 6.0 | 9.0 |
| 122 | 11.3 | 9.0 | 13.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

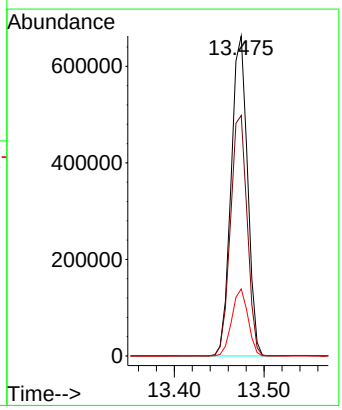
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

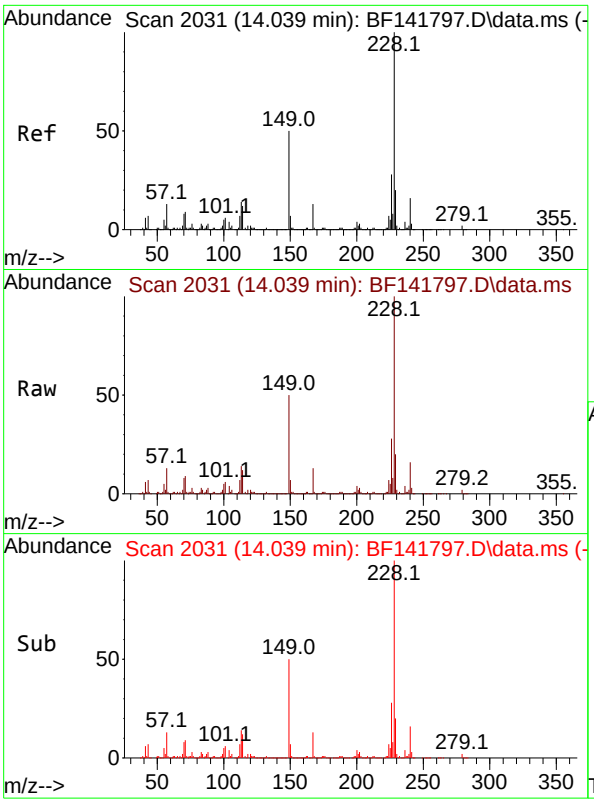



#80
Butylbenzylphthalate
Concen: 42.452 ng
RT: 13.475 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:149 Resp: 840509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 75.1 | 60.1 | 90.1 |
| 206 | 21.0 | 16.8 | 25.2 |

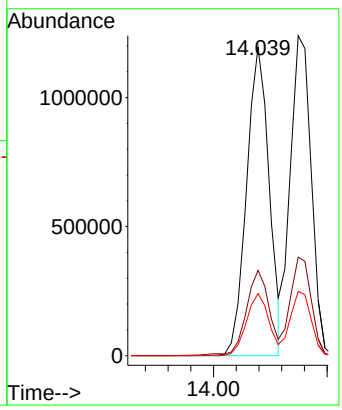





#81
Benzo(a)anthracene
Concen: 39.742 ng
RT: 14.039 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:228 Resp: 165193

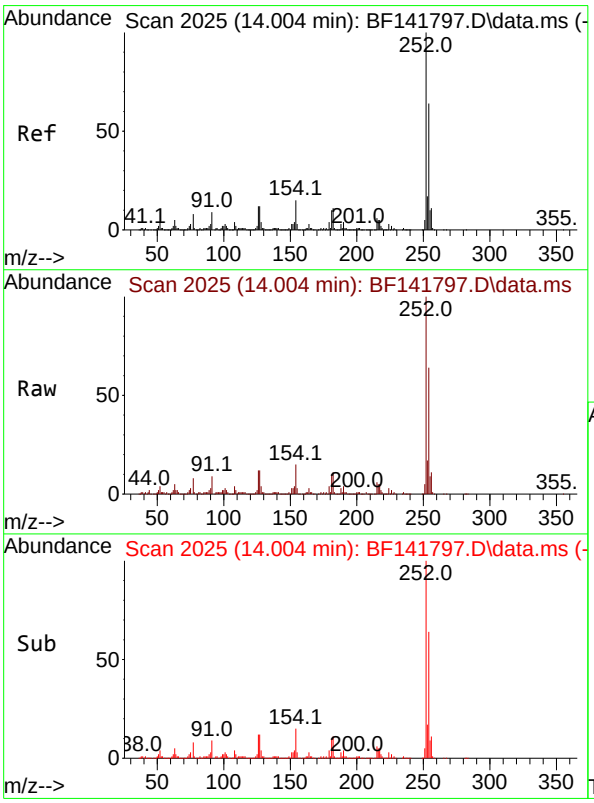
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.6 | 22.1 | 33.1 |
| 229 | 20.1 | 16.1 | 24.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

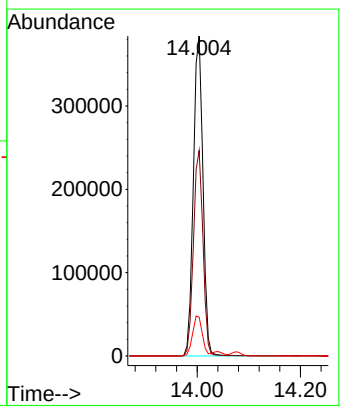
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

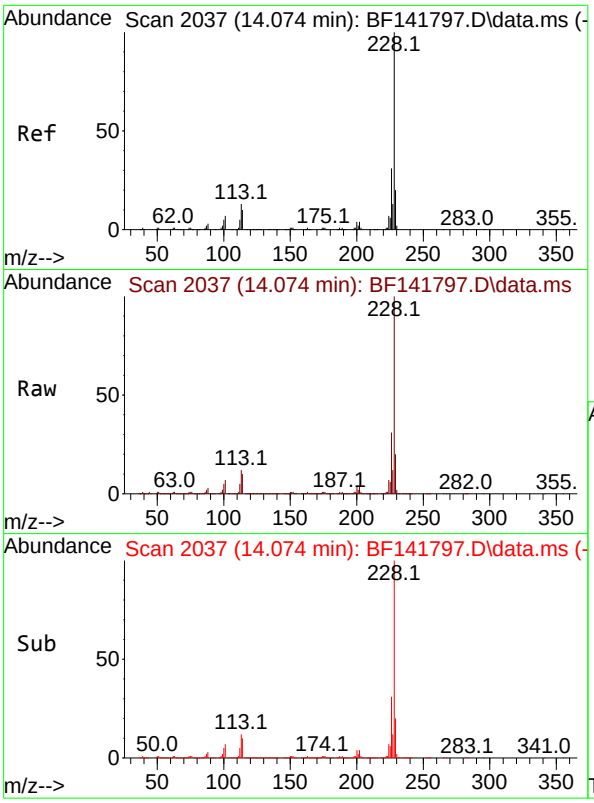



#82
3,3'-Dichlorobenzidine
Concen: 41.467 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:252 Resp: 494528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 64.2 | 51.4 | 77.0 |
| 126 | 12.2 | 9.8 | 14.6 |

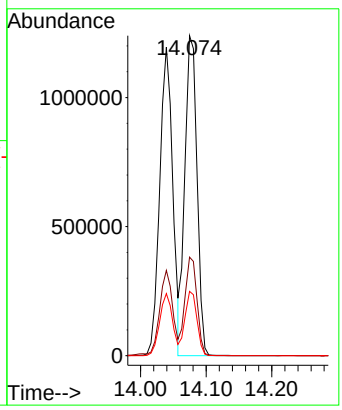





#83
Chrysene
Concen: 41.543 ng
RT: 14.074 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:228 Resp: 159181

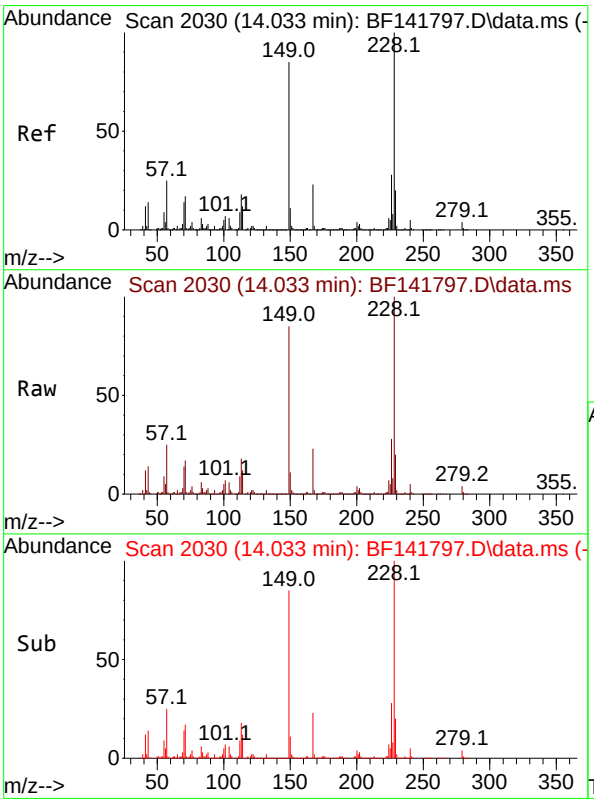
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.8 | 24.6 | 37.0 |
| 229 | 20.1 | 16.1 | 24.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

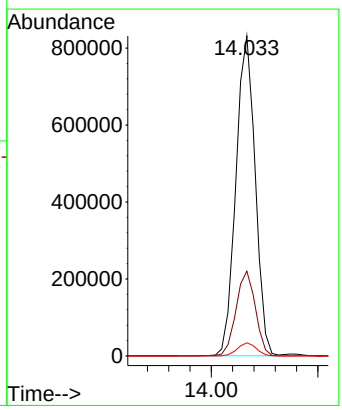
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

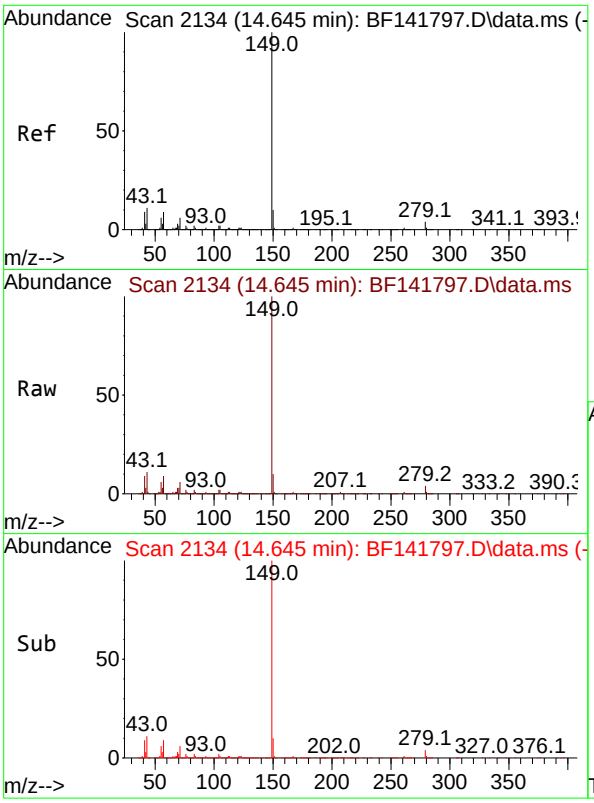



#84
Bis(2-ethylhexyl)phthalate
Concen: 42.458 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:149 Resp: 1046693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.5 | 21.2 | 31.8 |
| 279 | 4.1 | 3.3 | 4.9 |






#85
Di-n-octyl phthalate
Concen: 44.568 ng
RT: 14.645 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

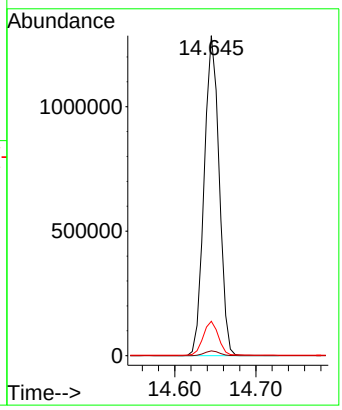
Tgt Ion:149 Resp: 164490

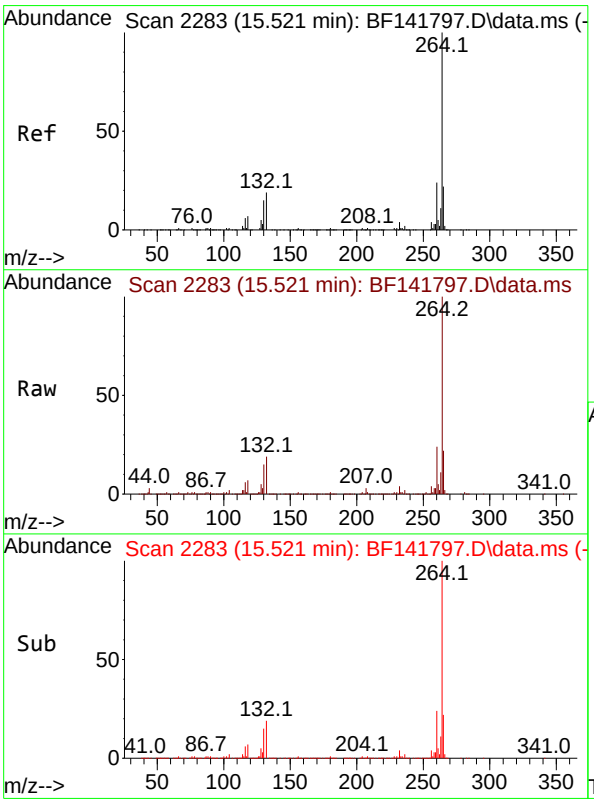
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.5 | 1.2 | 1.8 |
| 43 | 10.7 | 8.6 | 12.8 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

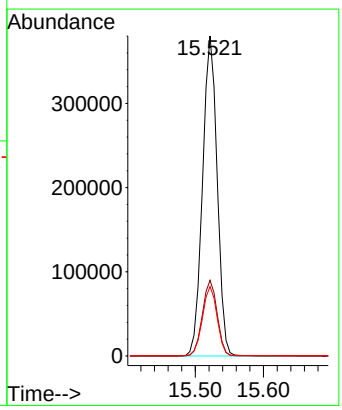


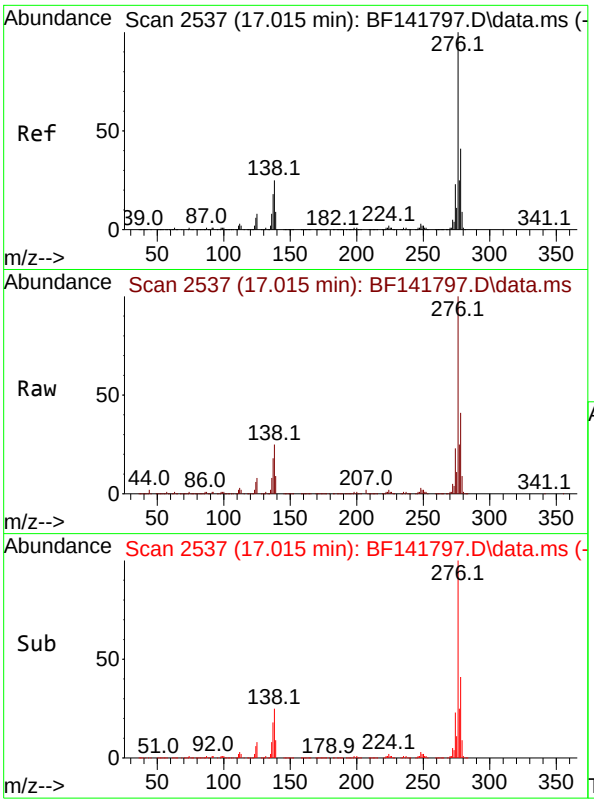




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:264 Resp: 567240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.6 | 18.9 | 28.3 |
| 265 | 21.7 | 17.4 | 26.0 |

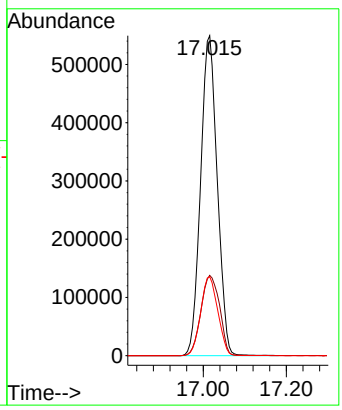





#87
Indeno(1,2,3-cd)pyrene
Concen: 42.264 ng
RT: 17.015 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:276 Resp: 152657

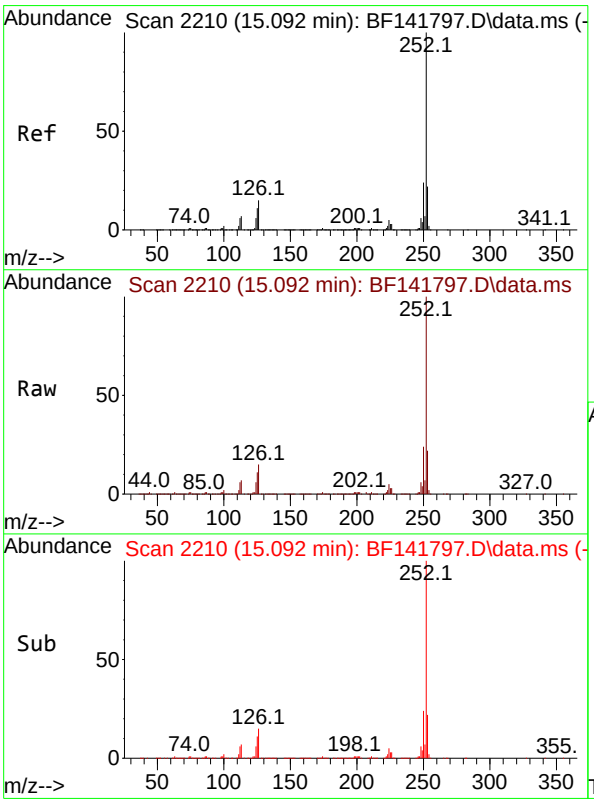
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.1 | 22.5 | 33.7 |
| 277 | 25.4 | 20.3 | 30.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

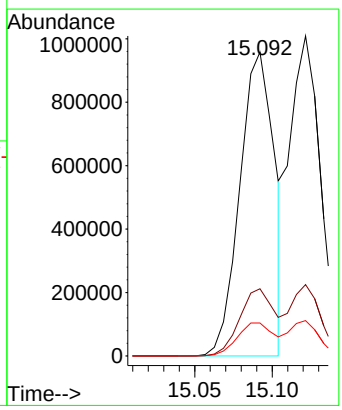
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

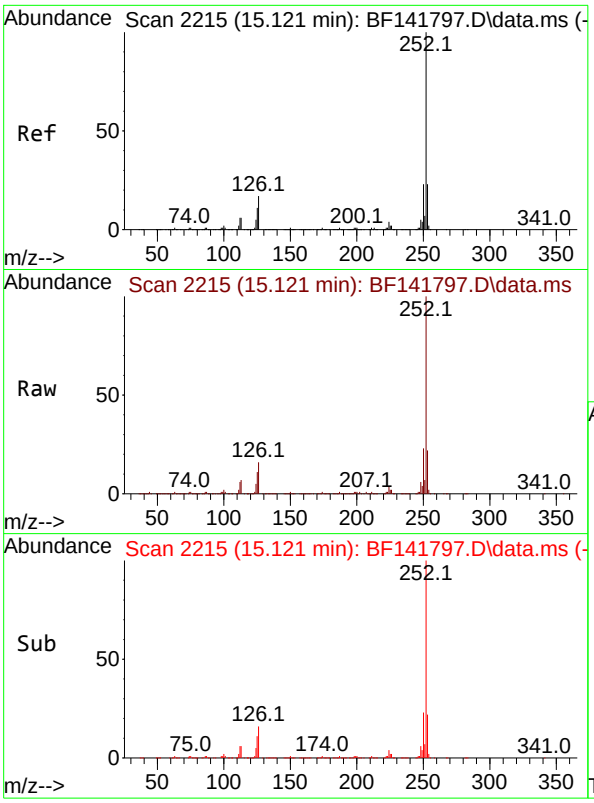



#88
Benzo(b)fluoranthene
Concen: 38.353 ng
RT: 15.092 min Scan# 2210
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:252 Resp: 1481931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 17.7 | 26.5 |
| 125 | 10.8 | 8.6 | 13.0 |

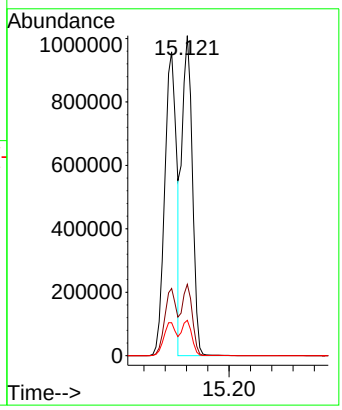





#89
Benzo(k)fluoranthene
Concen: 41.943 ng
RT: 15.121 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:252 Resp: 137747

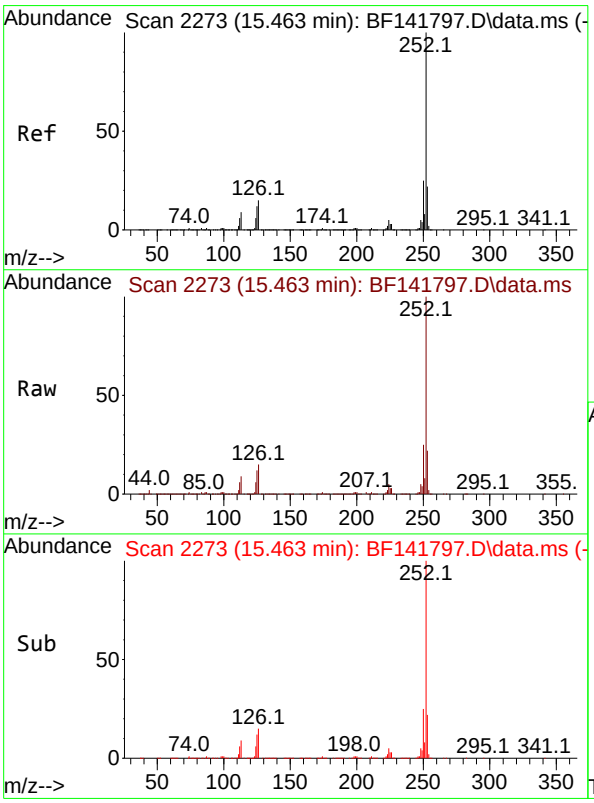
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.3 | 17.8 | 26.8 |
| 125 | 11.0 | 8.8 | 13.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations**
**APPROVED**

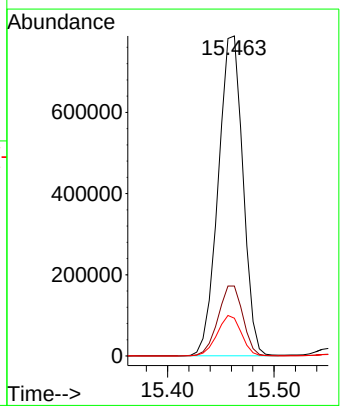
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

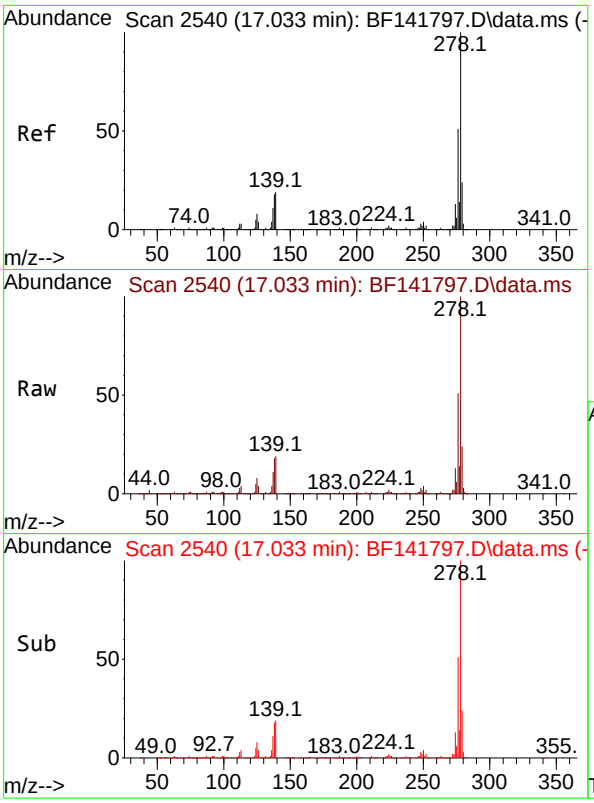



#90
Benzo(a)pyrene
Concen: 40.981 ng
RT: 15.463 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:252 Resp: 1269914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 17.5 | 26.3 |
| 125 | 11.8 | 9.4 | 14.2 |

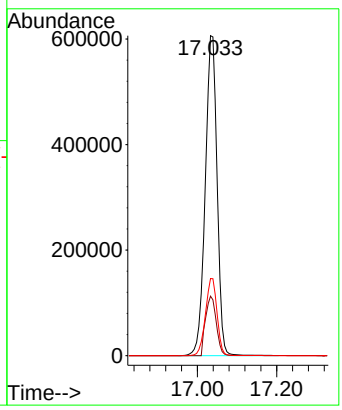





#91
Dibenzo(a,h)anthracene
Concen: 42.664 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:278 Resp: 125786

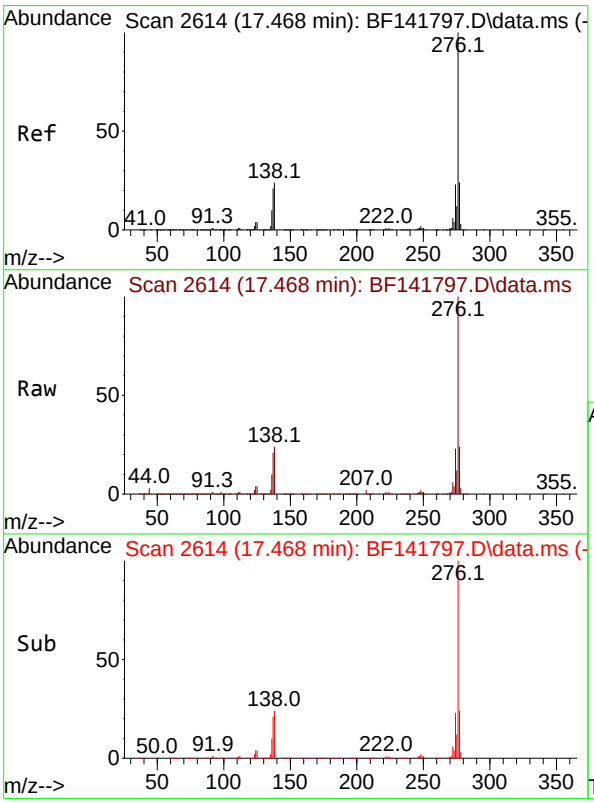
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.6 | 14.9 | 22.3 |
| 279 | 24.1 | 19.3 | 28.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICCC040

**Manual Integrations APPROVED**

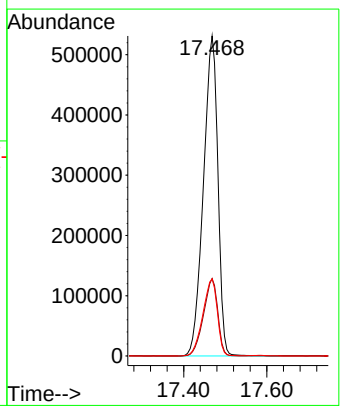
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025




#92
Benzo(g,h,i)perylene
Concen: 42.430 ng
RT: 17.468 min Scan# 2614
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:276 Resp: 1281590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.2 | 19.4 | 29.0 |
| 138 | 24.1 | 19.3 | 28.9 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141798.D
Acq On : 27 Feb 2025 17:46
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Quant Time: Feb 28 01:26:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 294968 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 1175652 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.928 | 164 | 632437 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.410 | 188 | 1007266 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.051 | 240 | 571903 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.521 | 264 | 520644 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.504 | 112 | 1747157 | 94.593 | ng | | 0.00 |
| 7) Phenol-d6 | 6.510 | 99 | 2273216 | 94.557 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.457 | 82 | 1953916 | 106.234 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.716 | 330 | 580093 | 97.701 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.251 | 172 | 3566962 | 90.435 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.998 | 244 | 3516535 | 99.483 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.681 | 88 | 401754 | 47.937 | ng | | 99 |
| 3) Pyridine | 3.451 | 79 | 1017692 | 48.805 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.404 | 42 | 497063 | 49.541 | ng | | 99 |
| 6) Aniline | 6.557 | 93 | 1210646 | 48.702 | ng | | 100 |
| 8) 2-Chlorophenol | 6.675 | 128 | 957860 | 47.940 | ng | | 99 |
| 9) Benzaldehyde | 6.440 | 77 | 644844 | 46.113 | ng | | 99 |
| 10) Phenol | 6.528 | 94 | 1210418 | 47.257 | ng | | 99 |
| 11) bis(2-Chloroethyl)ether | 6.628 | 93 | 943249 | 48.169 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 1016156 | 47.489 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 1024761 | 47.531 | ng | | 100 |
| 14) 1,2-Dichlorobenzene | 7.063 | 146 | 948038 | 47.090 | ng | | 99 |
| 15) Benzyl Alcohol | 7.028 | 79 | 927459 | 48.272 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 1423138 | 47.854 | ng | | 100 |
| 17) 2-Methylphenol | 7.134 | 107 | 795600 | 48.240 | ng | | 99 |
| 18) Hexachloroethane | 7.404 | 117 | 393322 | 48.741 | ng | | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.310 | 70 | 744192 | 47.090 | ng | | 99 |
| 20) 3+4-Methylphenols | 7.292 | 107 | 961623 | 46.825 | ng | # | 87 |
| 22) Acetophenone | 7.298 | 105 | 1339971 | 46.798 | ng | | 97 |
| 24) Nitrobenzene | 7.475 | 77 | 1025625 | 52.073 | ng | | 99 |
| 25) Isophorone | 7.716 | 82 | 1886546 | 47.744 | ng | | 99 |
| 26) 2-Nitrophenol | 7.786 | 139 | 425765 | 48.354 | ng | | 99 |
| 27) 2,4-Dimethylphenol | 7.816 | 122 | 698393 | 48.082 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.922 | 93 | 1186179 | 47.060 | ng | | 100 |
| 29) 2,4-Dichlorophenol | 8.022 | 162 | 813150 | 48.527 | ng | | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 875703 | 47.693 | ng | | 99 |
| 31) Naphthalene | 8.192 | 128 | 2820879 | 46.685 | ng | | 100 |
| 32) Benzoic acid | 7.945 | 122 | 587574 | 48.392 | ng | | 99 |
| 33) 4-Chloroaniline | 8.239 | 127 | 1028715 | 46.432 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 551683 | 48.351 | ng | | 99 |
| 35) Caprolactam | 8.622 | 113 | 248725 | 48.241 | ng | | 98 |
| 36) 4-Chloro-3-methylphenol | 8.716 | 107 | 880725 | 47.314 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.886 | 142 | 1825639 | 46.064 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.986 | 142 | 1745465 | 45.899 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.051 | 216 | 868619 | 47.555 | ng | | 100 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 388222 | 50.930 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.157 | 196 | 578263 | 49.010 | ng | | 100 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141798.D
Acq On : 27 Feb 2025 17:46
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Quant Time: Feb 28 01:26:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

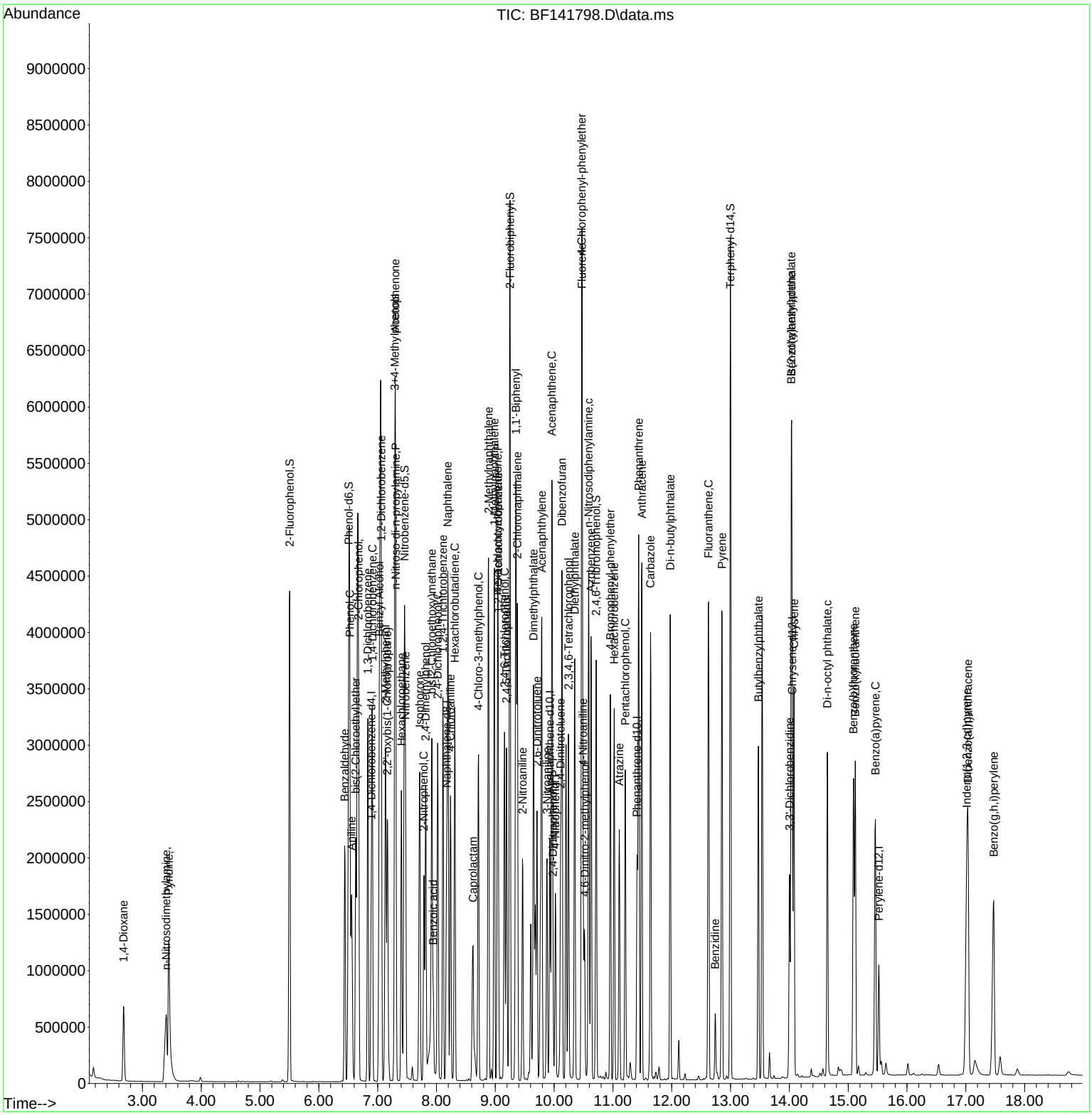
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.192 | 196 | 574978 | 49.213 | ng | | 100 |
| 46) 1,1'-Biphenyl | 9.351 | 154 | 2234592 | 46.420 | ng | | 100 |
| 47) 2-Chloronaphthalene | 9.375 | 162 | 1672555 | 47.075 | ng | | 99 |
| 48) 2-Nitroaniline | 9.463 | 65 | 469075 | 48.211 | ng | | 98 |
| 49) Acenaphthylene | 9.792 | 152 | 2466104 | 46.294 | ng | | 99 |
| 50) Dimethylphthalate | 9.651 | 163 | 1994958 | 47.103 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.710 | 165 | 396873 | 48.926 | ng | | 99 |
| 52) Acenaphthene | 9.963 | 154 | 1689163 | 46.994 | ng | | 100 |
| 53) 3-Nitroaniline | 9.880 | 138 | 417015 | 48.300 | ng | | 97 |
| 54) 2,4-Dinitrophenol | 9.980 | 184 | 151706 | 48.388 | ng | # | 8 |
| 55) Dibenzofuran | 10.133 | 168 | 2422882 | 46.312 | ng | | 100 |
| 56) 4-Nitrophenol | 10.022 | 139 | 340020 | 54.357 | ng | | 98 |
| 57) 2,4-Dinitrotoluene | 10.110 | 165 | 490028 | 49.405 | ng | | 100 |
| 58) Fluorene | 10.475 | 166 | 1783757 | 45.518 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232 | 489160 | 48.140 | ng | | 97 |
| 60) Diethylphthalate | 10.351 | 149 | 1991111 | 46.896 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 904835 | 46.084 | ng | | 99 |
| 62) 4-Nitroaniline | 10.492 | 138 | 391399 | 54.114 | ng | | 98 |
| 63) Azobenzene | 10.627 | 77 | 2087153 | 46.687 | ng | | 100 |
| 65) 4,6-Dinitro-2-methylph... | 10.522 | 198 | 227493 | 47.968 | ng | | 95 |
| 66) n-Nitrosodiphenylamine | 10.586 | 169 | 1588976 | 48.041 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248 | 572161 | 48.631 | ng | | 100 |
| 68) Hexachlorobenzene | 11.022 | 284 | 605103 | 48.705 | ng | | 99 |
| 69) Atrazine | 11.110 | 200 | 374540 | 41.179 | ng | | 99 |
| 70) Pentachlorophenol | 11.210 | 266 | 400352 | 50.809 | ng | | 100 |
| 71) Phenanthrene | 11.439 | 178 | 2521849 | 46.806 | ng | | 99 |
| 72) Anthracene | 11.492 | 178 | 2522132 | 46.707 | ng | | 100 |
| 73) Carbazole | 11.639 | 167 | 2220778 | 46.572 | ng | | 100 |
| 74) Di-n-butylphthalate | 11.974 | 149 | 2839813 | 46.982 | ng | | 100 |
| 75) Fluoranthene | 12.627 | 202 | 2499217 | 45.269 | ng | | 99 |
| 77) Benzidine | 12.739 | 184 | 305582 | 42.453 | ng | | 99 |
| 78) Pyrene | 12.857 | 202 | 2484995 | 50.178 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 929464 | 51.657 | ng | | 99 |
| 81) Benzo(a)anthracene | 14.039 | 228 | 1777948 | 47.067 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 520451 | 48.021 | ng | | 99 |
| 83) Chrysene | 14.080 | 228 | 1694396 | 48.659 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 1159761 | 51.766 | ng | | 100 |
| 85) Di-n-octyl phthalate | 14.645 | 149 | 1865081 | 55.606 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 17.015 | 276 | 1740850 | 52.510 | ng | | 100 |
| 88) Benzo(b)fluoranthene | 15.092 | 252 | 1603729 | 45.220 | ng | | 100 |
| 89) Benzo(k)fluoranthene | 15.121 | 252 | 1516995 | 50.326 | ng | | 100 |
| 90) Benzo(a)pyrene | 15.462 | 252 | 1379319 | 48.495 | ng | | 100 |
| 91) Dibenzo(a,h)anthracene | 17.039 | 278 | 1423862 | 52.616 | ng | | 99 |
| 92) Benzo(g,h,i)perylene | 17.474 | 276 | 1469480 | 53.005 | ng | | 99 |

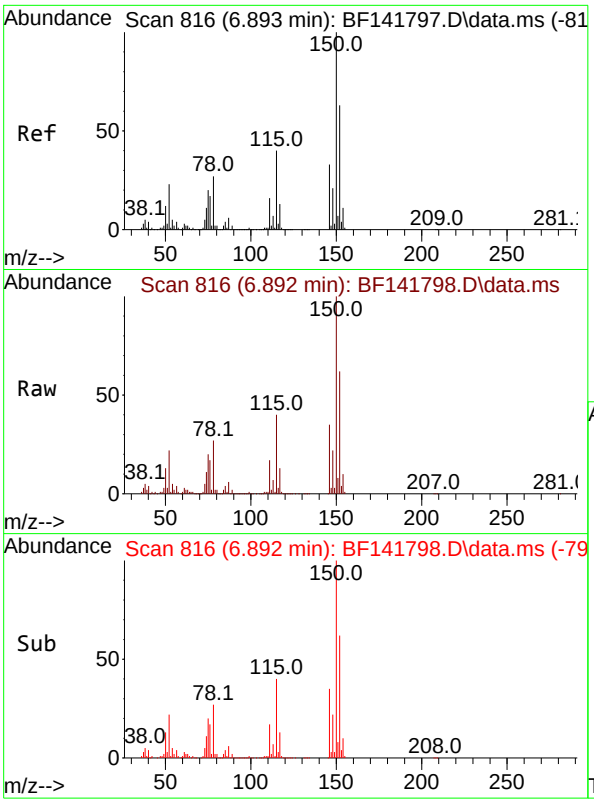
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141798.D
Acq On : 27 Feb 2025 17:46
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Quant Time: Feb 28 01:26:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration



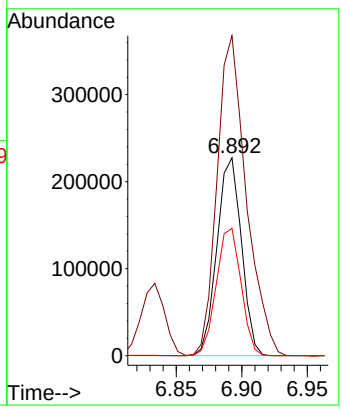


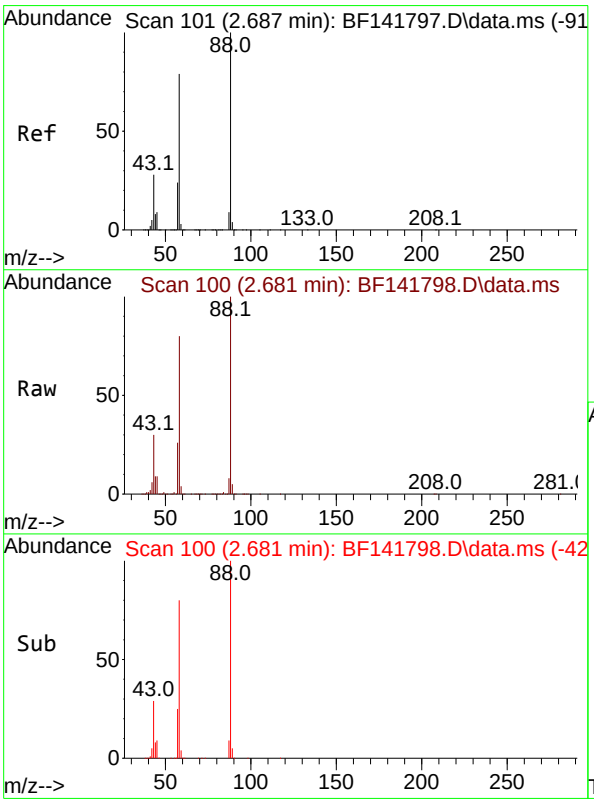

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. -0.001 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:152 Resp: 294968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 161.7 | 127.5 | 191.3 |
| 115 | 64.3 | 51.4 | 77.2 |

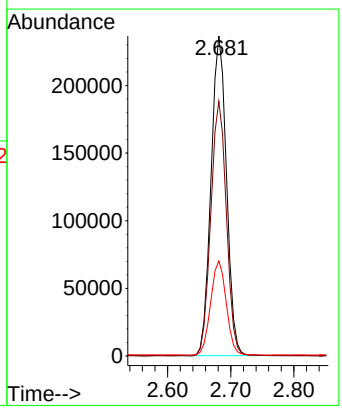


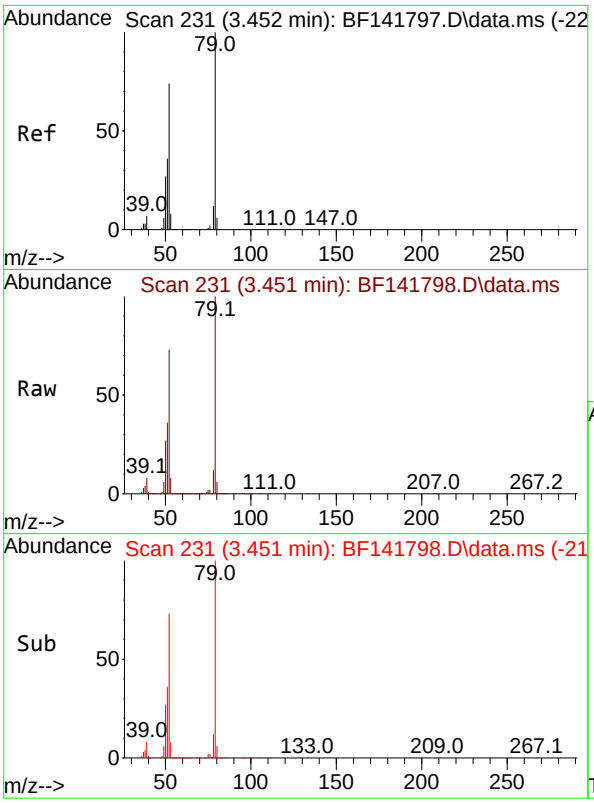




#2
1,4-Dioxane
Concen: 47.937 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 88 Resp: 401754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 80.2 | 63.9 | 95.9 |
| 43 | 29.6 | 23.0 | 34.6 |



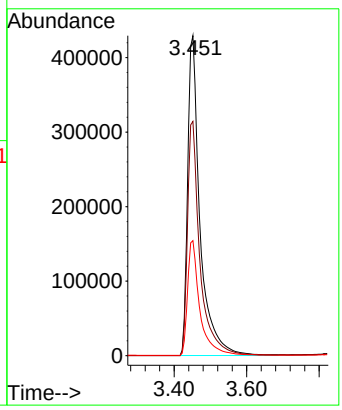


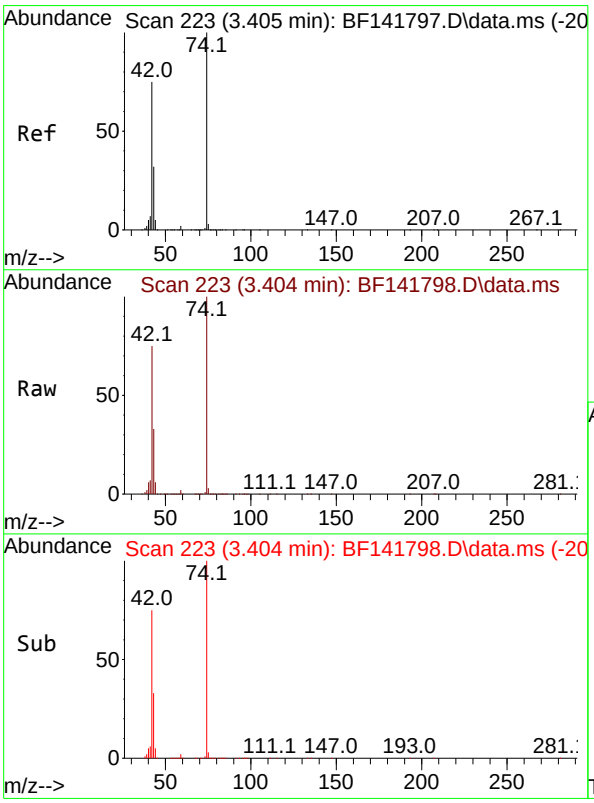

#3
Pyridine
Concen: 48.805 ng
RT: 3.451 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 79 Resp: 1017692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 73.2 | 59.0 | 88.4 |
| 51 | 35.9 | 29.0 | 43.4 |

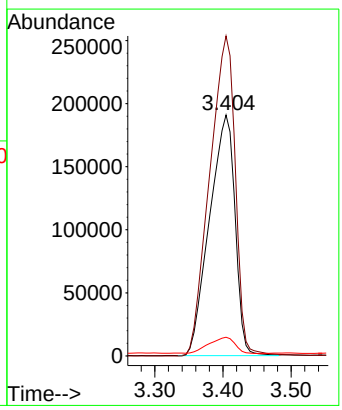


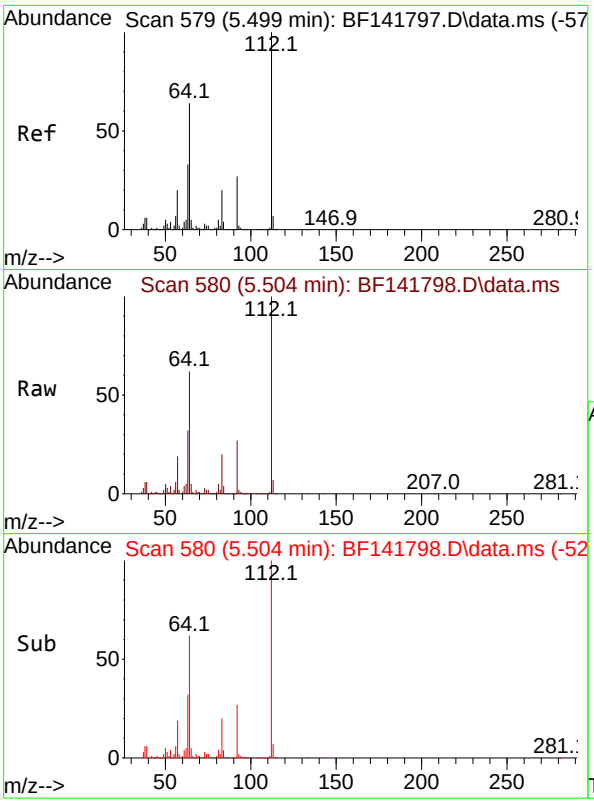




#4
n-Nitrosodimethylamine
Concen: 49.541 ng
RT: 3.404 min Scan# 223
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 42 Resp: 497063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 132.8 | 107.1 | 160.7 |
| 44 | 7.7 | 6.6 | 9.8 |



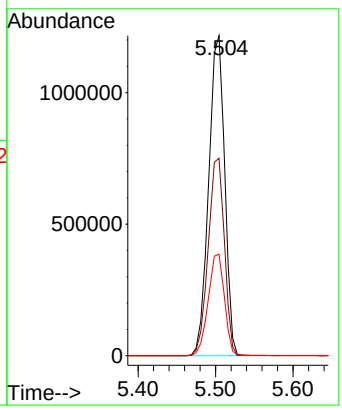


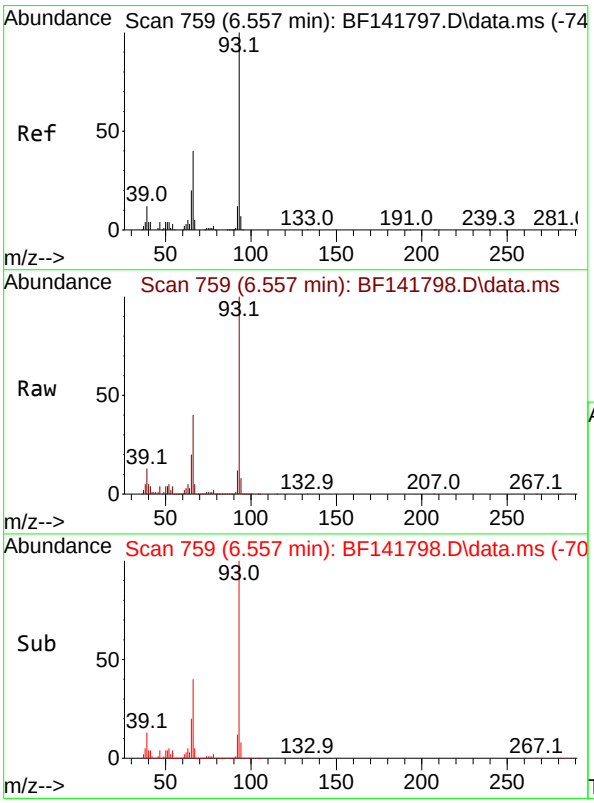

#5
2-Fluorophenol
Concen: 94.593 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:112 Resp: 1747157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 61.7 | 51.3 | 76.9 |
| 63 | 31.7 | 26.2 | 39.4 |

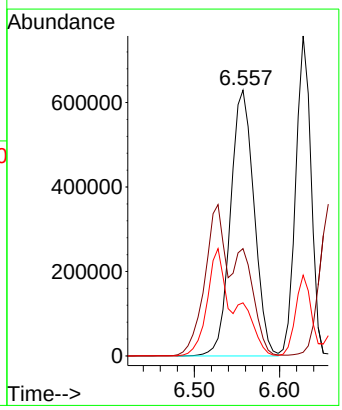


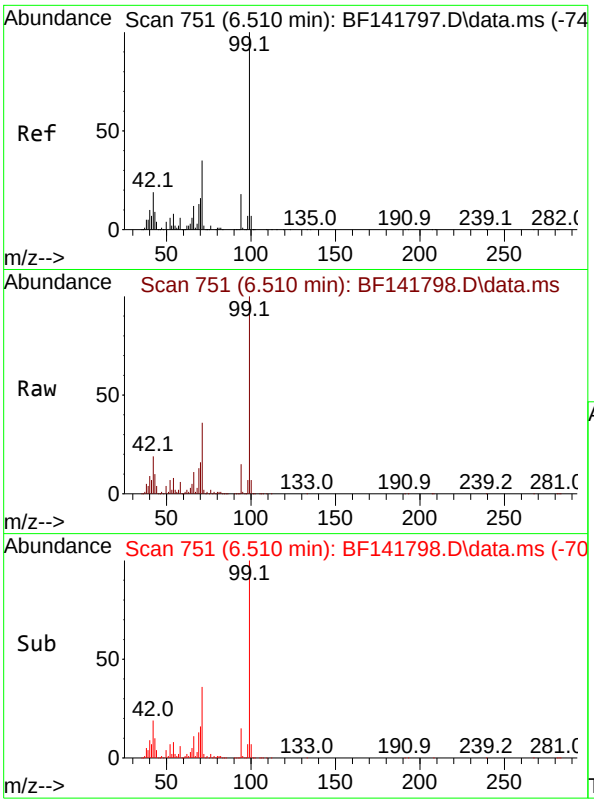




#6
Aniline
Concen: 48.702 ng
RT: 6.557 min Scan# 759
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 93 Resp: 1210646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 40.4 | 32.3 | 48.5 |
| 65 | 20.0 | 15.9 | 23.9 |



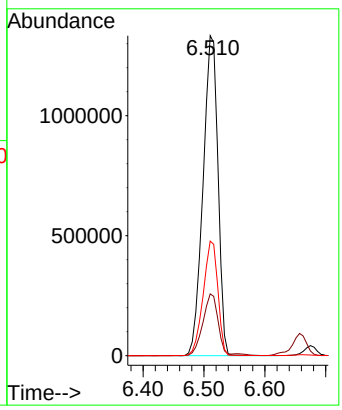


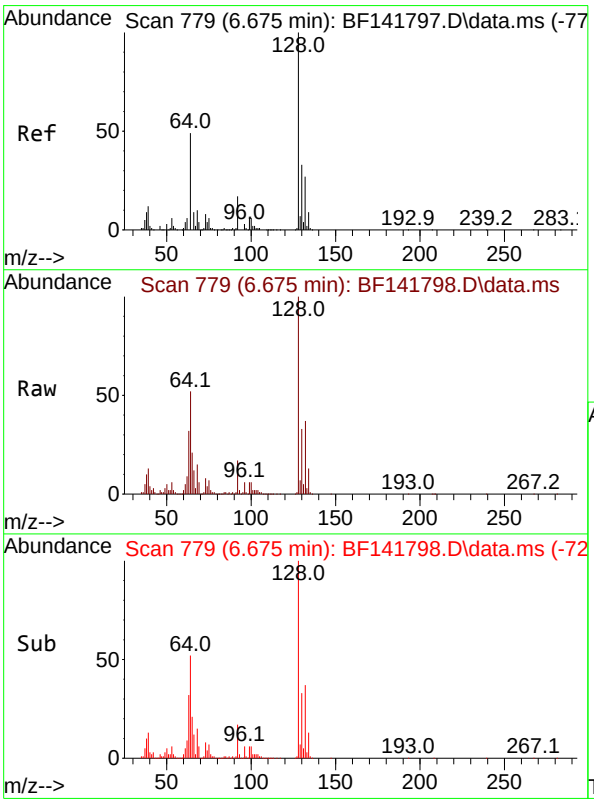

#7
Phenol-d6
Concen: 94.557 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 99 Resp: 2273216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.3 | 15.2 | 22.8 |
| 71 | 35.8 | 28.2 | 42.2 |

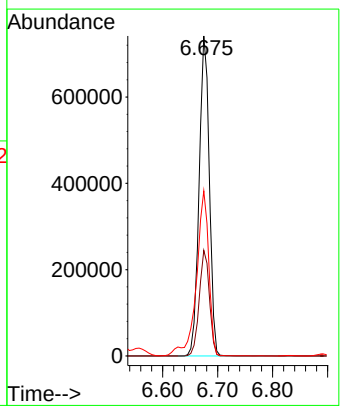


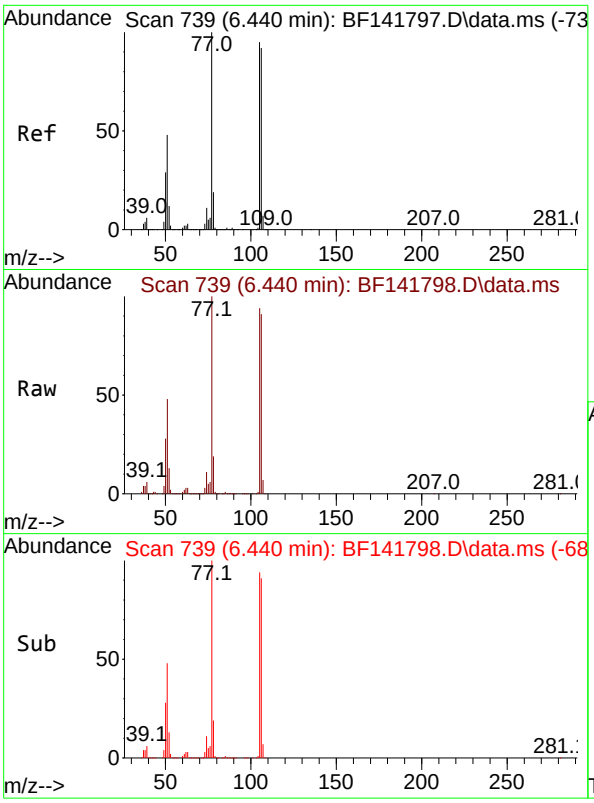




#8
2-Chlorophenol
Concen: 47.940 ng
RT: 6.675 min Scan# 779
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:128 Resp: 957860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 33.0 | 12.6 | 52.6 |
| 64 | 51.6 | 31.1 | 71.1 |



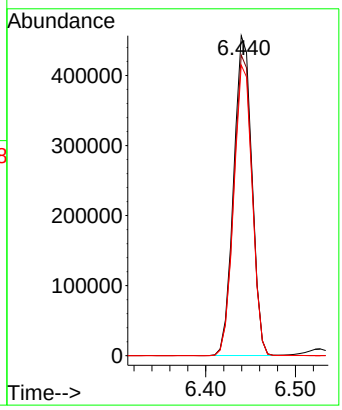


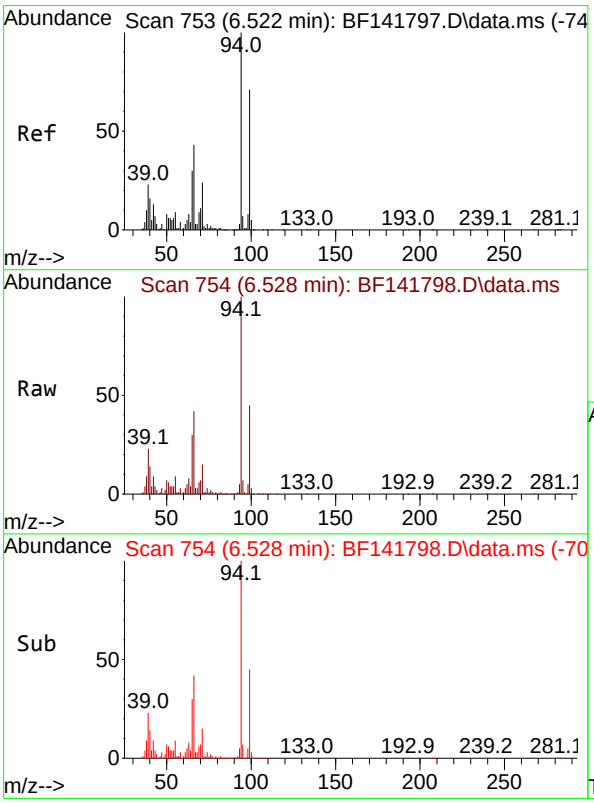

#9
Benzaldehyde
Concen: 46.113 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 77 Resp: 644844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 93.9 | 75.3 | 115.3 |
| 106 | 90.8 | 72.3 | 112.3 |

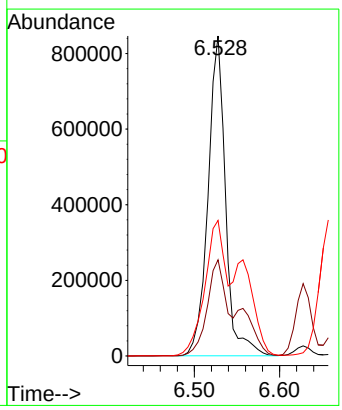


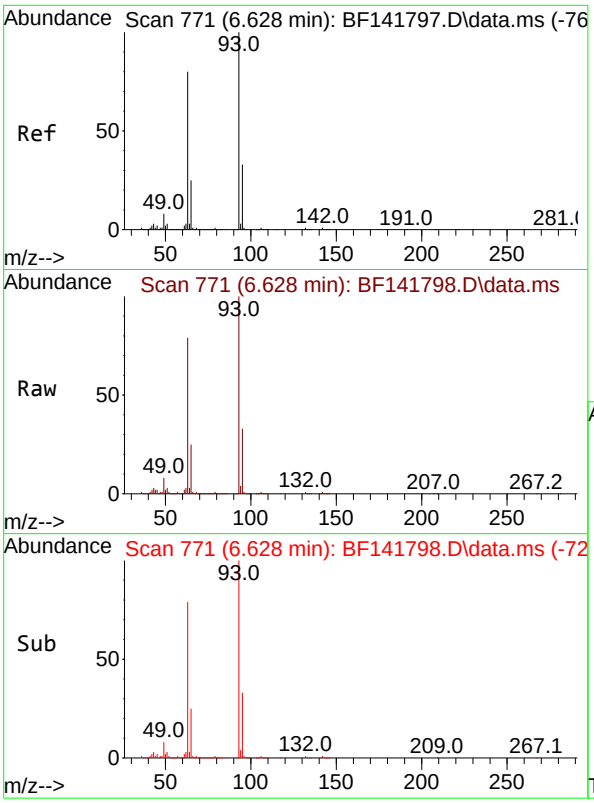




#10
Phenol
Concen: 47.257 ng
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 94 Resp: 1210418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 30.0 | 10.2 | 50.2 |
| 66 | 42.3 | 23.2 | 63.2 |



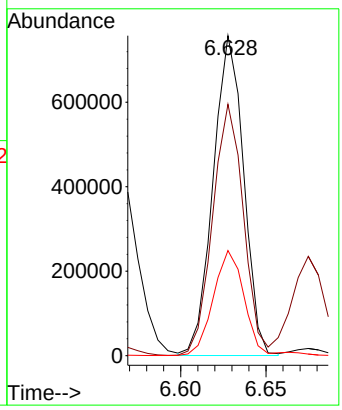


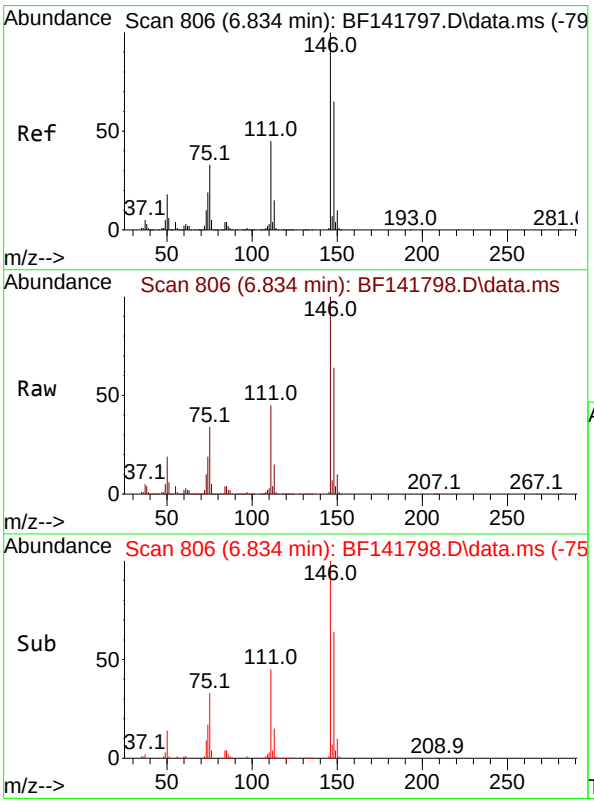

#11
bis(2-Chloroethyl)ether
Concen: 48.169 ng
RT: 6.628 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 93 Resp: 943249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 78.6 | 59.3 | 99.3 |
| 95 | 32.9 | 13.2 | 53.2 |

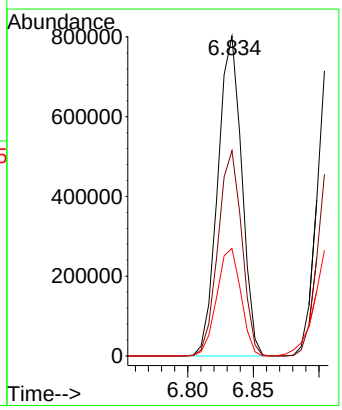


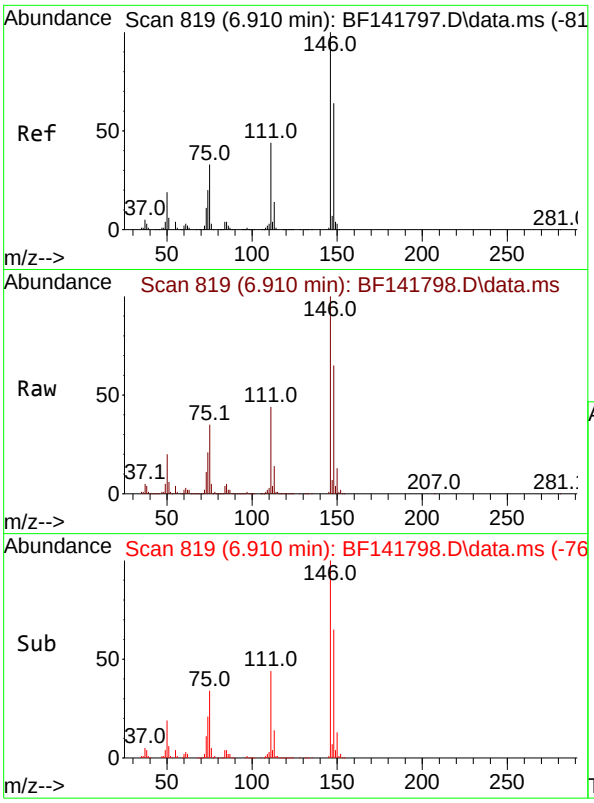




#12
1,3-Dichlorobenzene
Concen: 47.489 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:146 Resp: 1016156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.1 | 51.8 | 77.6 |
| 75 | 33.6 | 26.2 | 39.4 |



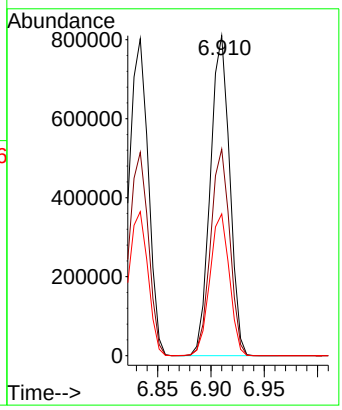


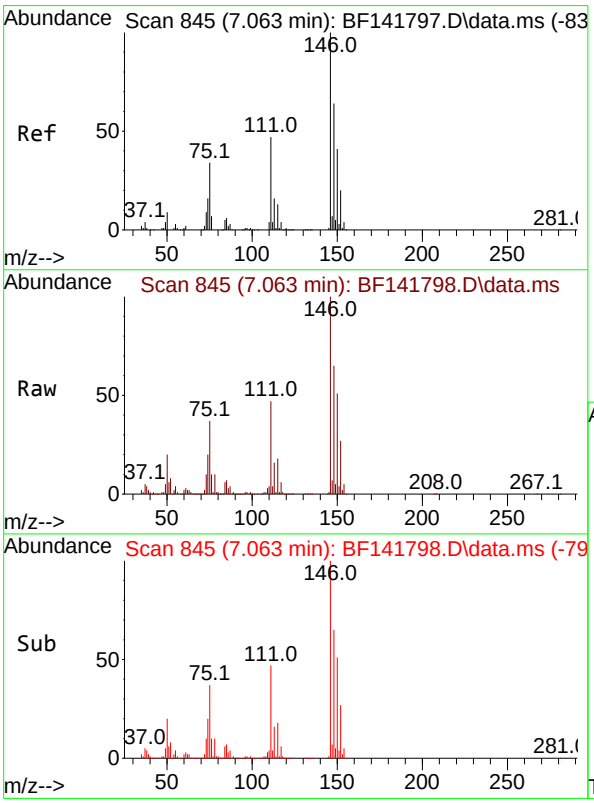

#13
1,4-Dichlorobenzene
Concen: 47.531 ng
RT: 6.910 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:146 Resp: 1024761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.5 | 51.4 | 77.2 |
| 111 | 44.3 | 35.5 | 53.3 |

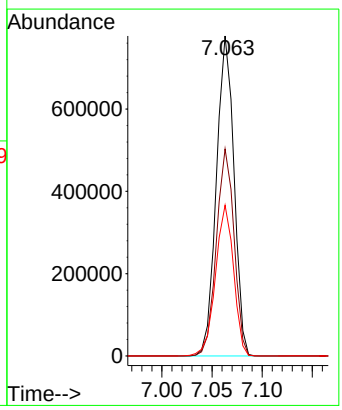


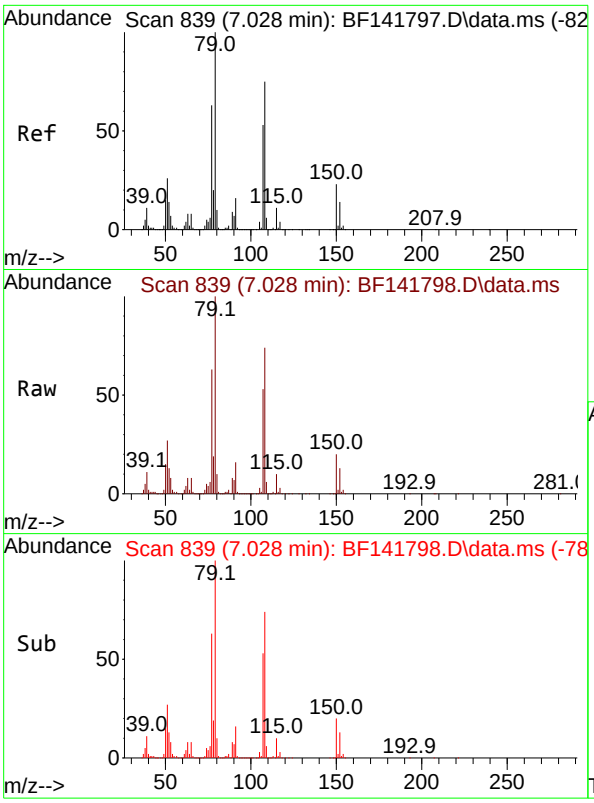




#14
1,2-Dichlorobenzene
Concen: 47.090 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:146 Resp: 948038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.7 | 51.2 | 76.8 |
| 111 | 47.1 | 37.8 | 56.6 |



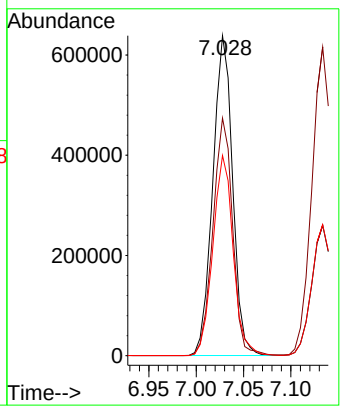


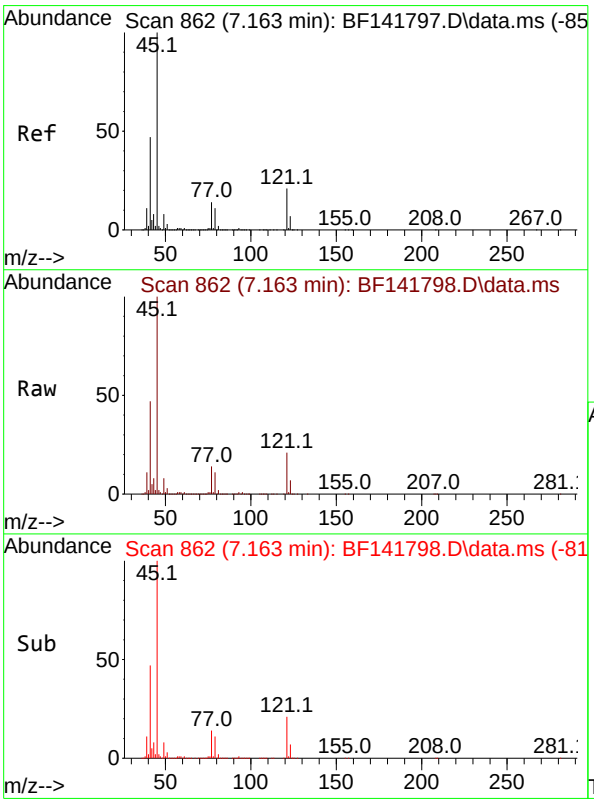

#15
Benzyl Alcohol
Concen: 48.272 ng
RT: 7.028 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 79 Resp: 927459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 74.2 | 60.2 | 90.2 |
| 77 | 62.6 | 50.2 | 75.2 |

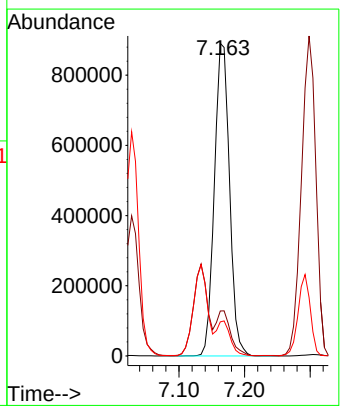


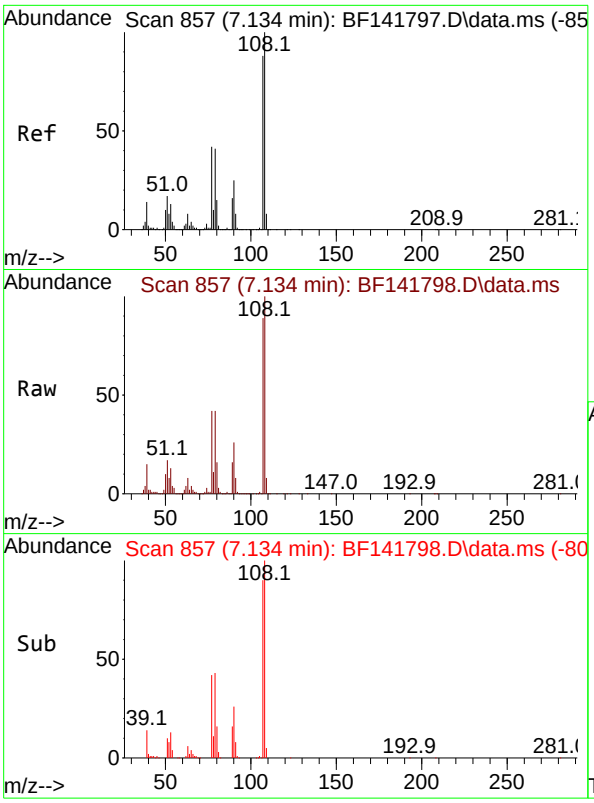




#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.854 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 45 Resp: 1423138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 14.4 | 0.0 | 34.4 |
| 79 | 10.9 | 0.0 | 30.9 |



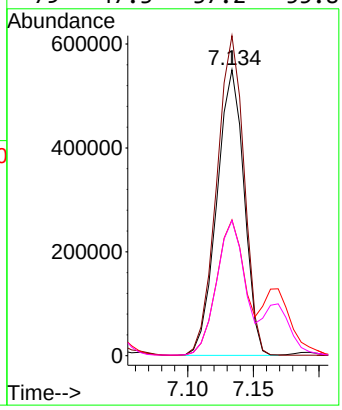


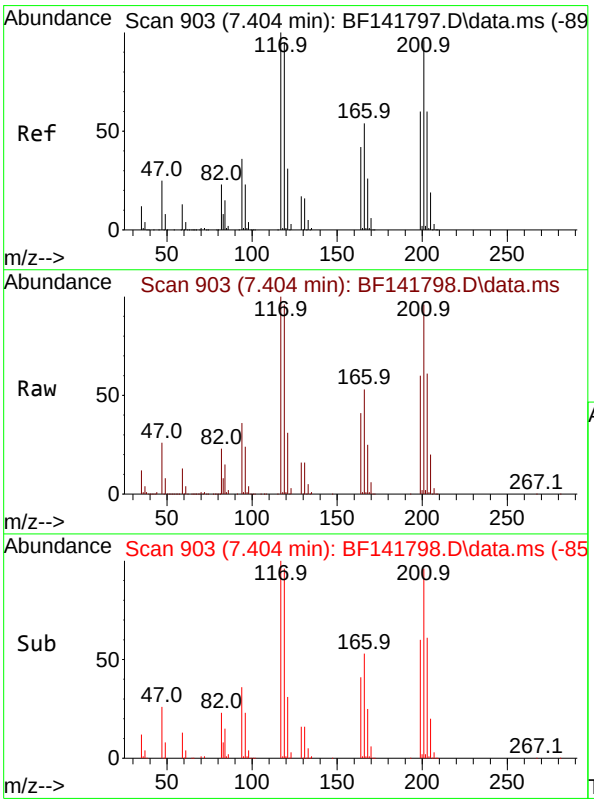

#17
2-Methylphenol
Concen: 48.240 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:107 Resp: 795600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 111.9 | 90.6 | 135.8 |
| 77 | 47.5 | 37.7 | 56.5 |
| 79 | 47.3 | 37.2 | 55.8 |

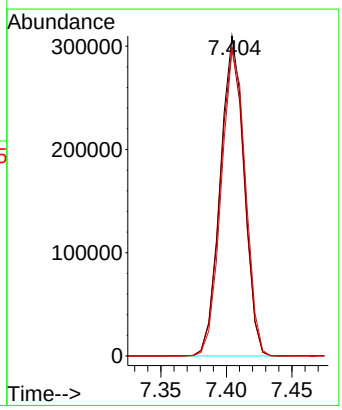


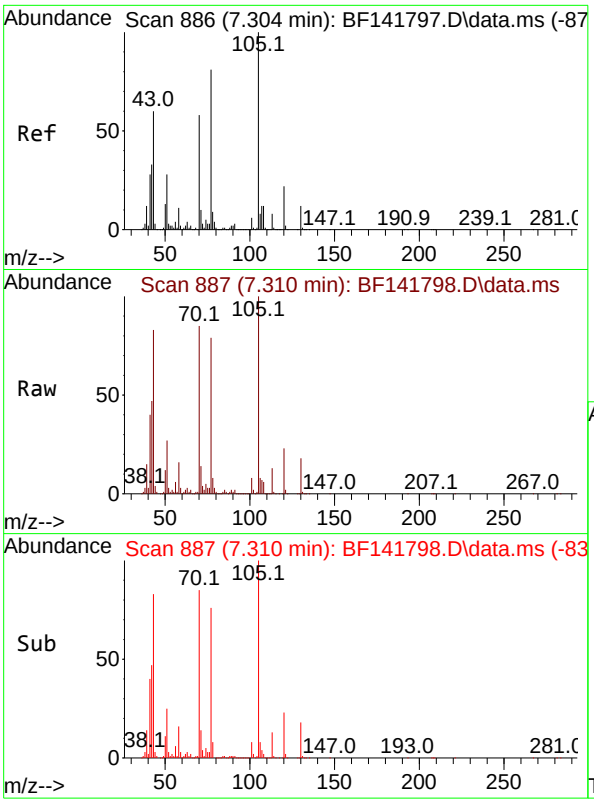




#18
Hexachloroethane
Concen: 48.741 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:117 Resp: 393322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.4 | 75.8 | 113.8 |
| 201 | 95.6 | 76.7 | 115.1 |



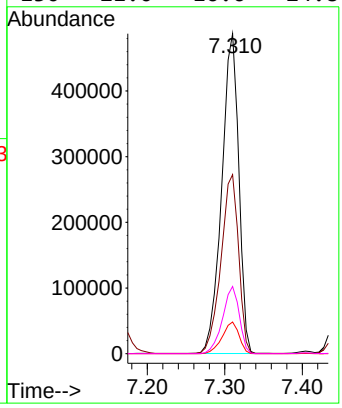


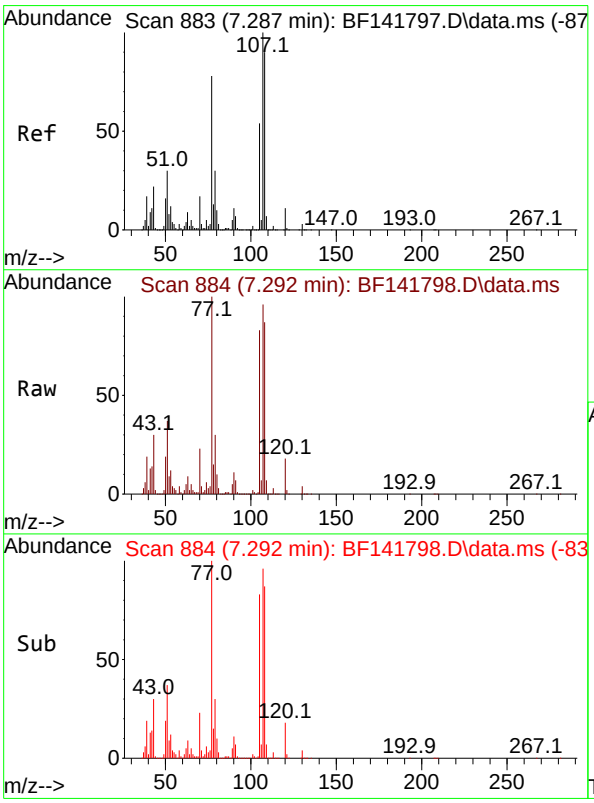

#19
n-Nitroso-di-n-propylamine
Concen: 47.090 ng
RT: 7.310 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 70 Resp: 744192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 55.9 | 45.4 | 68.0 |
| 101 | 9.9 | 7.8 | 11.8 |
| 130 | 21.0 | 16.6 | 24.8 |

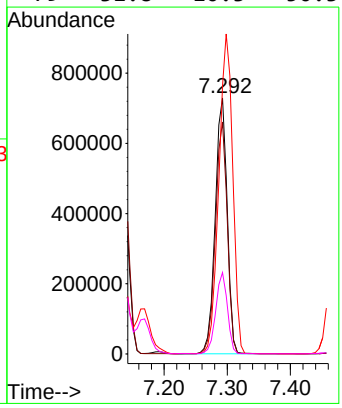


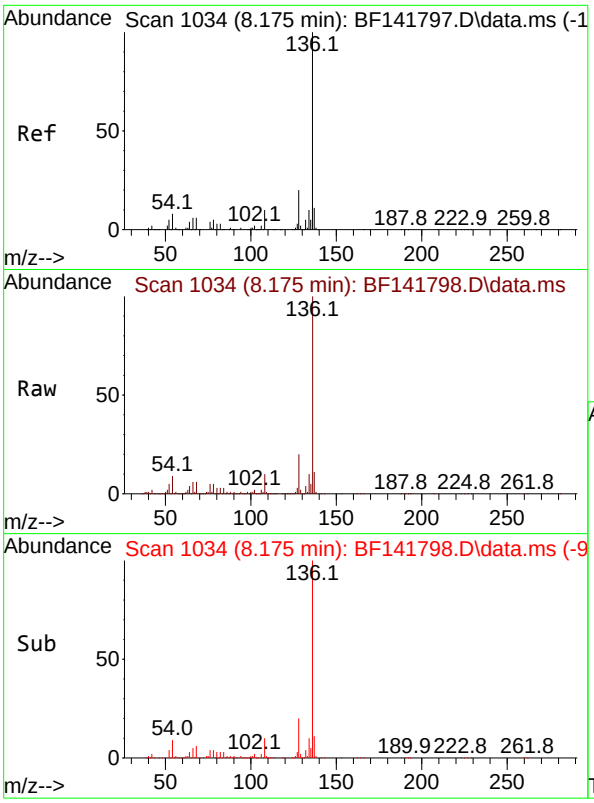




#20
3+4-Methylphenols
Concen: 46.825 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:107 Resp: 961623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 90.6 | 69.7 | 109.7 |
| 77 | 104.7 | 58.3 | 98.3# |
| 79 | 31.8 | 10.3 | 50.3 |



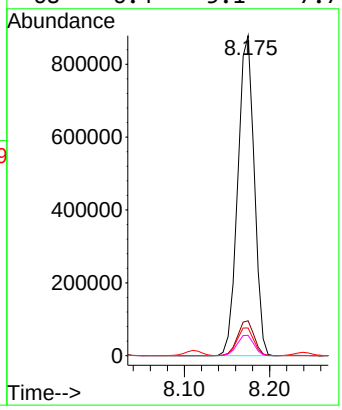


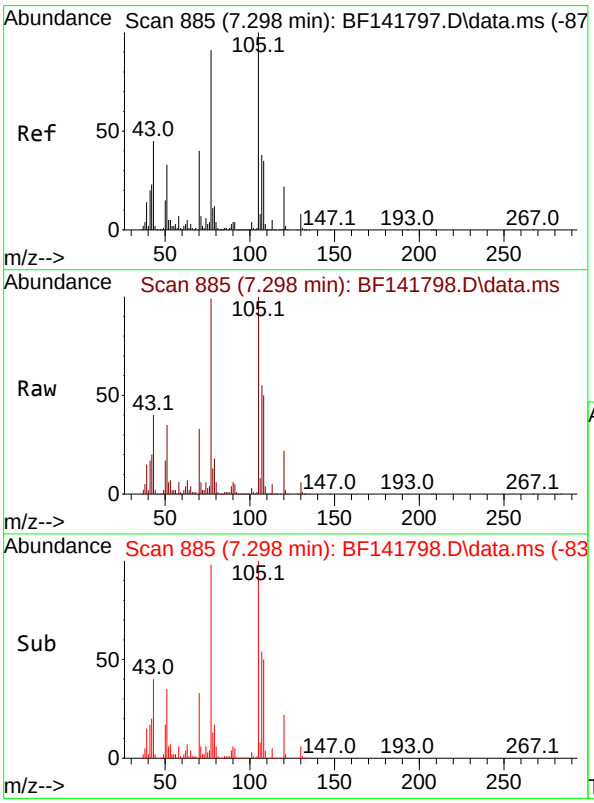

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:136 Resp: 1175652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.9 | 8.9 | 13.3 |
| 54 | 8.7 | 6.9 | 10.3 |
| 68 | 6.4 | 5.1 | 7.7 |

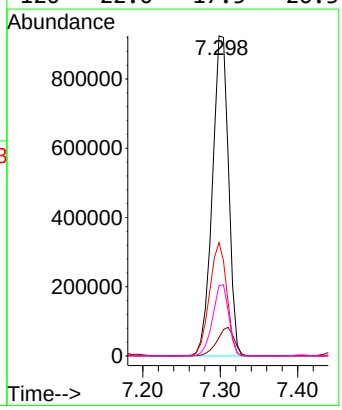


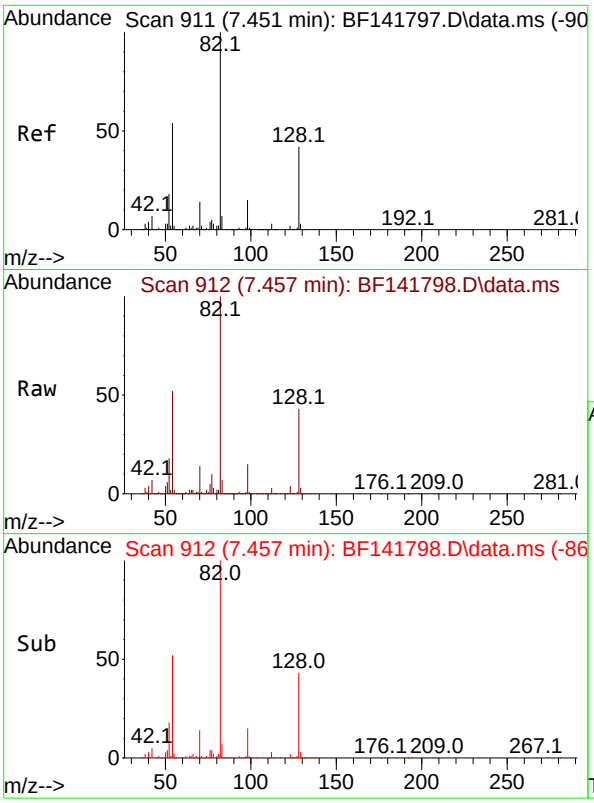




#22
Acetophenone
Concen: 46.798 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:105 Resp: 1339971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 5.7 | 5.4 | 8.0 |
| 51 | 35.4 | 26.1 | 39.1 |
| 120 | 22.0 | 17.5 | 26.3 |



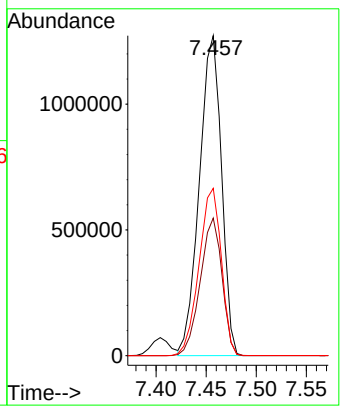


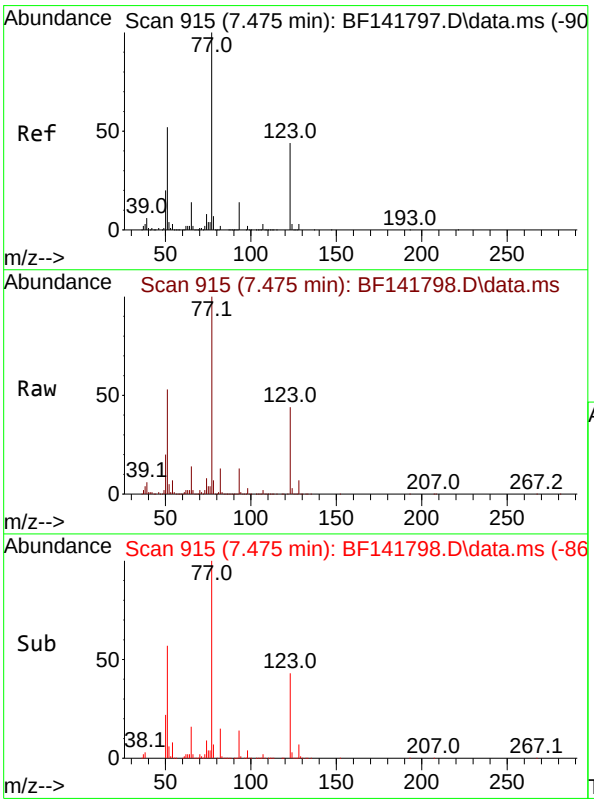

#23
Nitrobenzene-d5
Concen: 106.234 ng
RT: 7.457 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 82 Resp: 1953916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.0 | 33.5 | 50.3 |
| 54 | 52.3 | 42.7 | 64.1 |

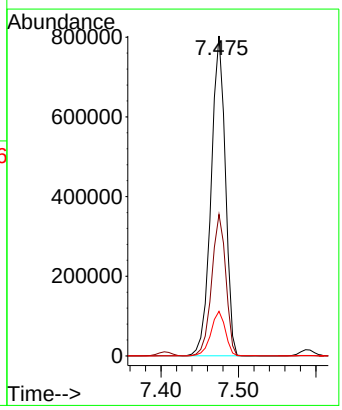


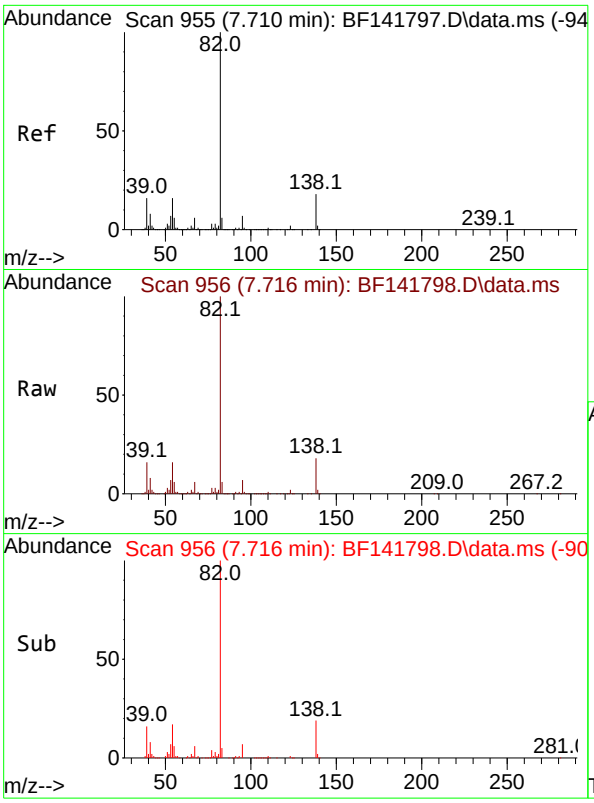




#24
Nitrobenzene
Concen: 52.073 ng
RT: 7.475 min Scan# 915
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 77 Resp: 1025625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 44.2 | 35.8 | 53.8 |
| 65 | 14.0 | 11.2 | 16.8 |



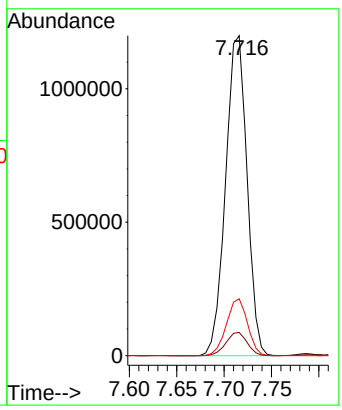


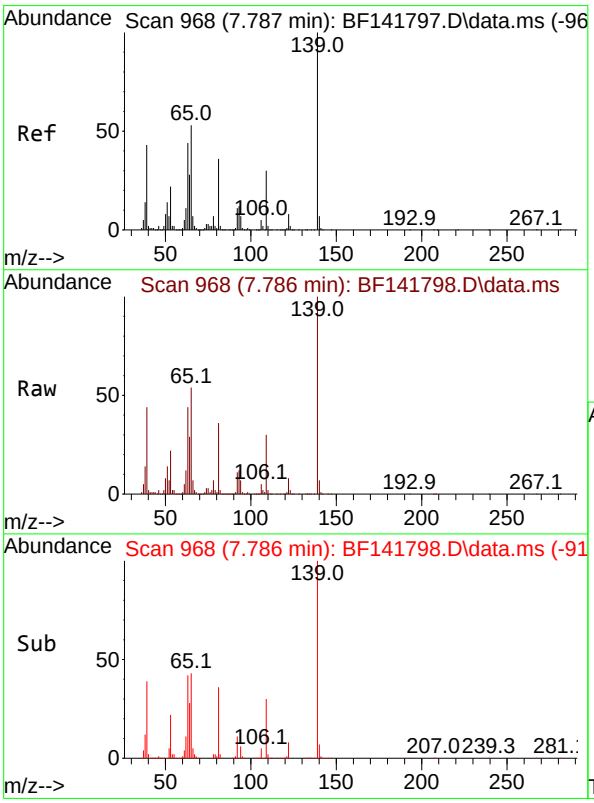

#25
Isophorone
Concen: 47.744 ng
RT: 7.716 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 82 Resp: 1886546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.3 | 5.8 | 8.8 |
| 138 | 17.8 | 14.0 | 21.0 |

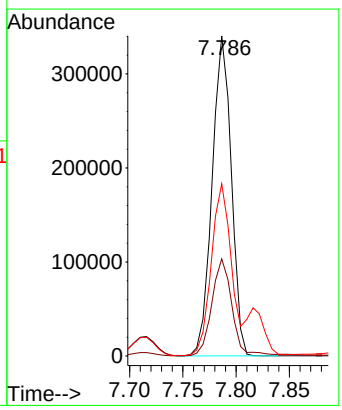


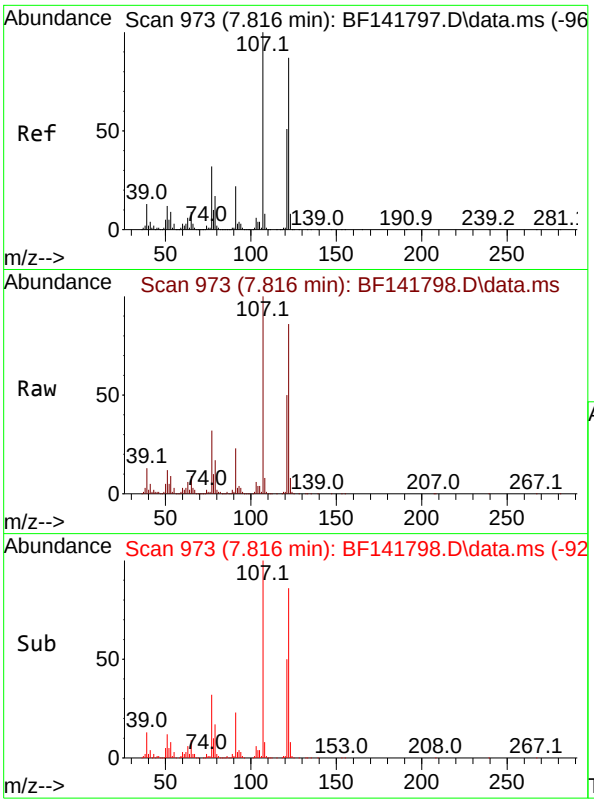




#26
2-Nitrophenol
Concen: 48.354 ng
RT: 7.786 min Scan# 968
Delta R.T. -0.001 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:139 Resp: 425765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 30.4 | 24.1 | 36.1 |
| 65 | 53.8 | 42.3 | 63.5 |



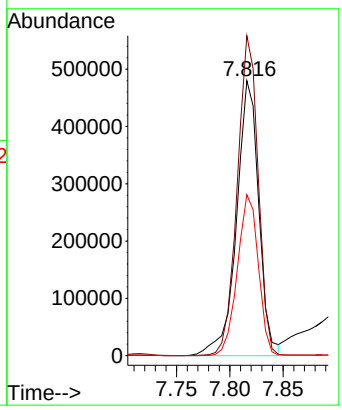


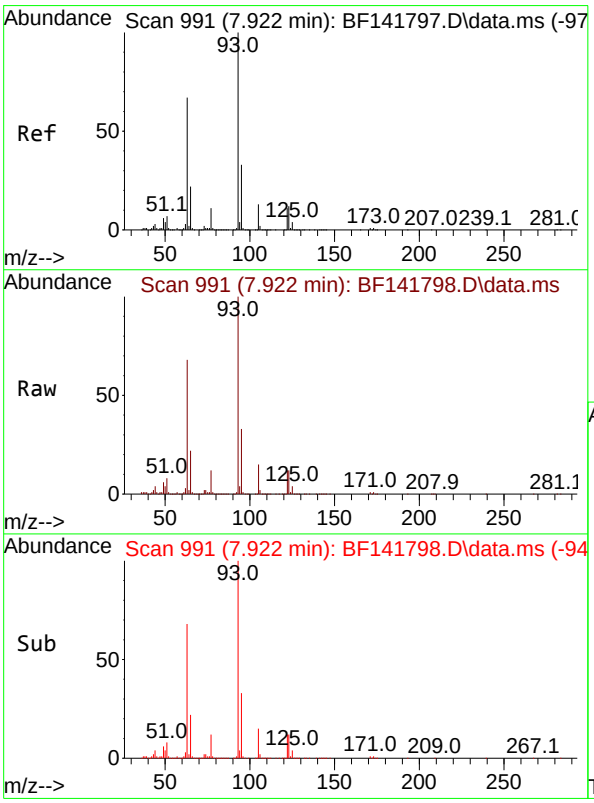

#27
2,4-Dimethylphenol
Concen: 48.082 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:122 Resp: 698393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 116.4 | 92.5 | 138.7 |
| 121 | 58.6 | 47.1 | 70.7 |

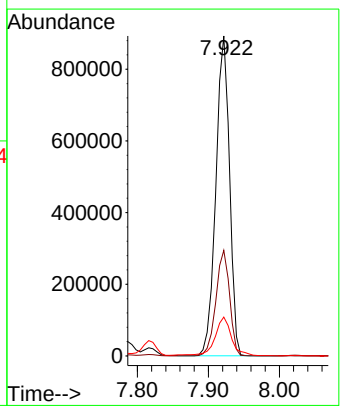


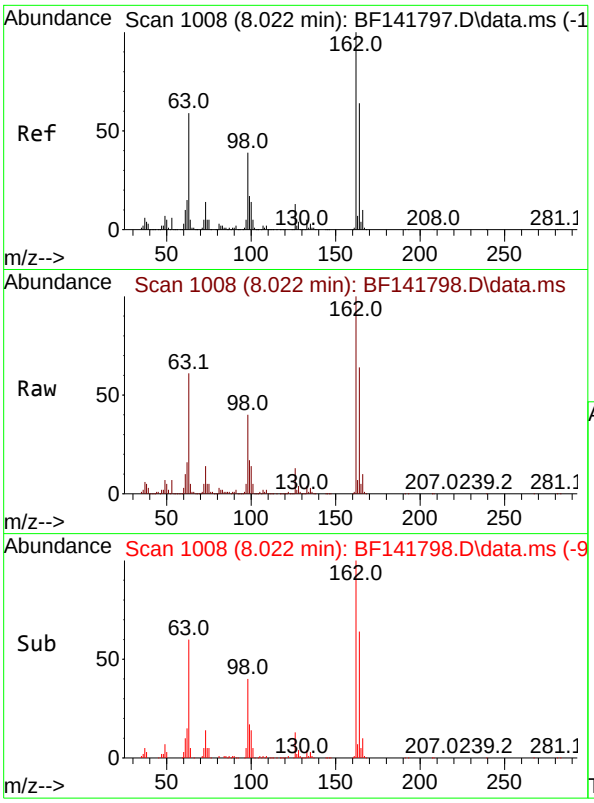




#28
bis(2-Chloroethoxy)methane
Concen: 47.060 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 93 Resp: 1186179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 33.0 | 26.5 | 39.7 |
| 123 | 12.2 | 10.0 | 15.0 |



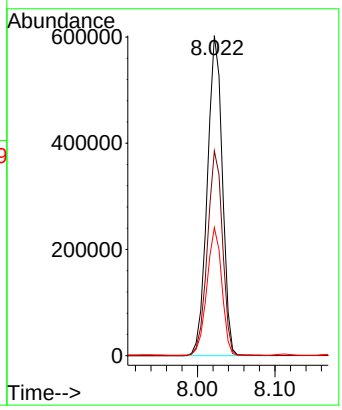


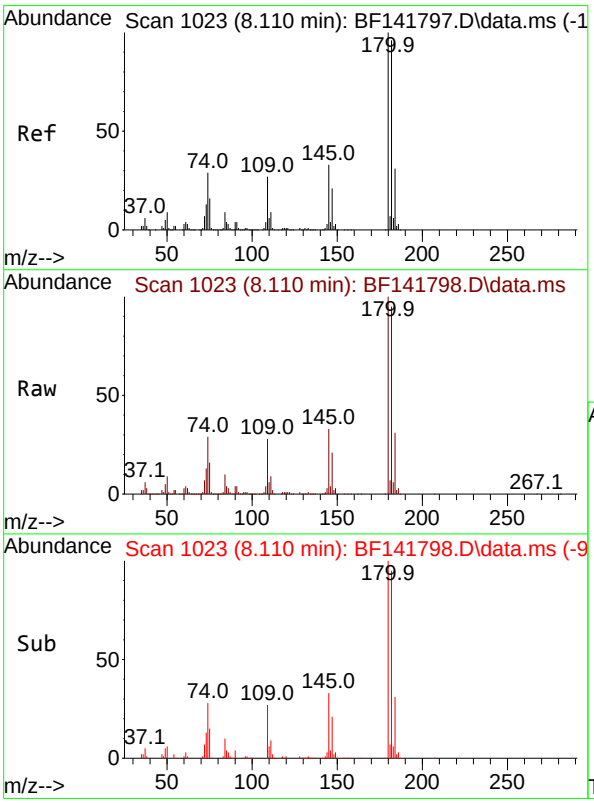

#29
2,4-Dichlorophenol
Concen: 48.527 ng
RT: 8.022 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:162 Resp: 813150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.0 | 44.3 | 84.3 |
| 98 | 40.0 | 19.6 | 59.6 |

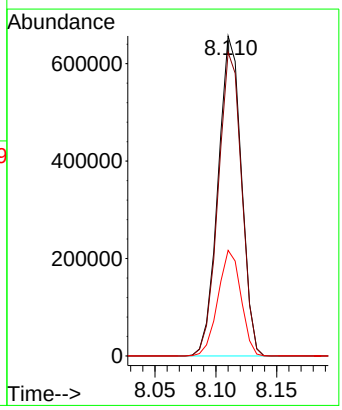


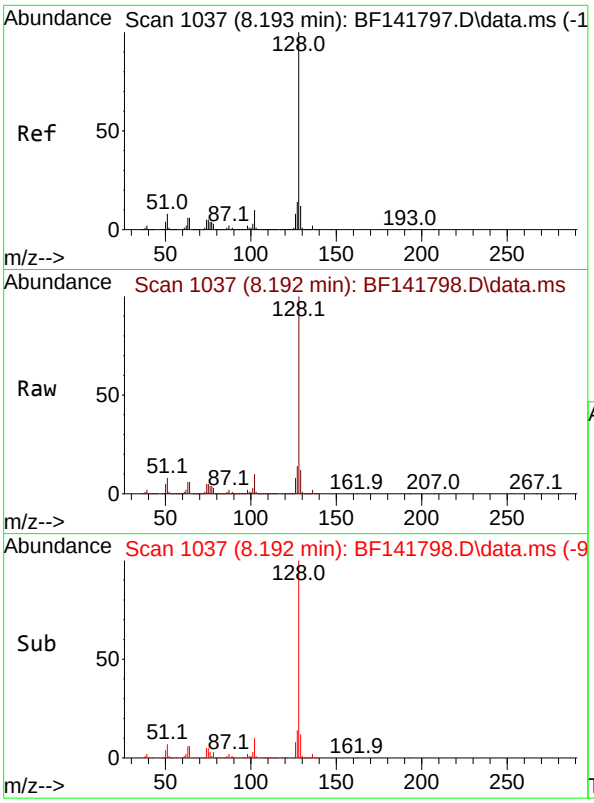




#30
1,2,4-Trichlorobenzene
Concen: 47.693 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:180 Resp: 875703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.9 | 76.8 | 115.2 |
| 145 | 33.0 | 26.4 | 39.6 |



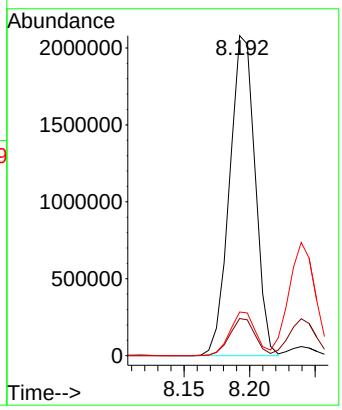


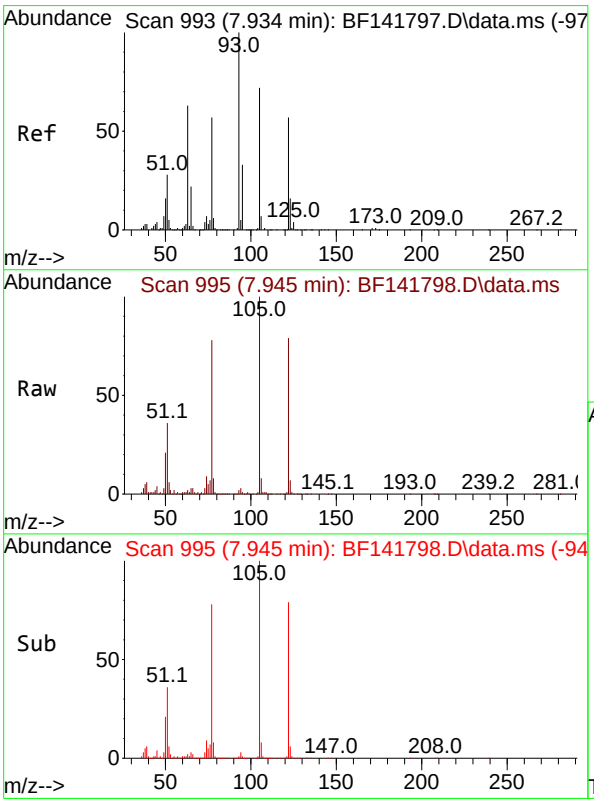

#31
Naphthalene
Concen: 46.685 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:128 Resp: 2820879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.6 | 9.2 | 13.8 |
| 127 | 13.7 | 11.0 | 16.4 |

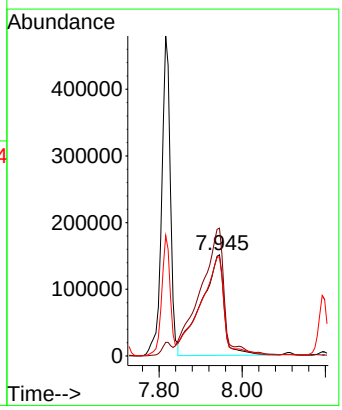


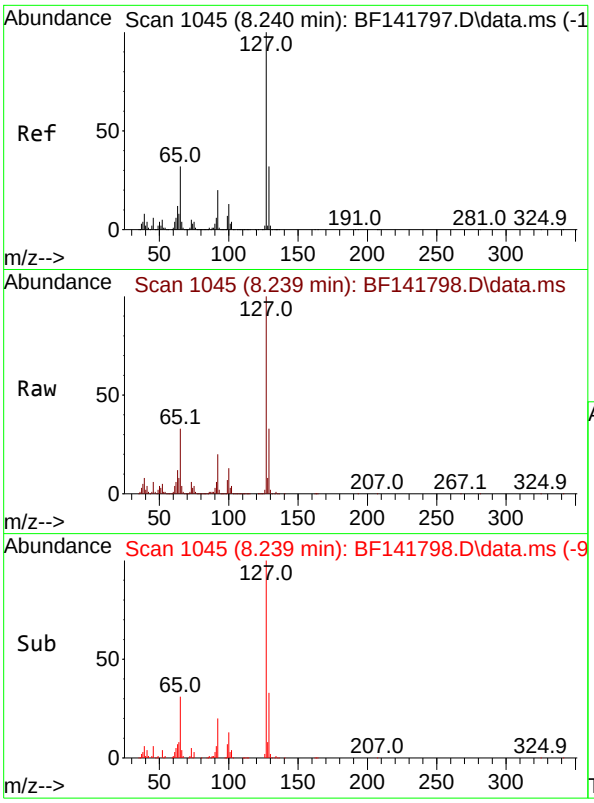




#32
Benzoic acid
Concen: 48.392 ng
RT: 7.945 min Scan# 995
Delta R.T. 0.011 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:122 Resp: 587574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 126.4 | 105.8 | 145.8 |
| 77 | 98.1 | 79.9 | 119.9 |



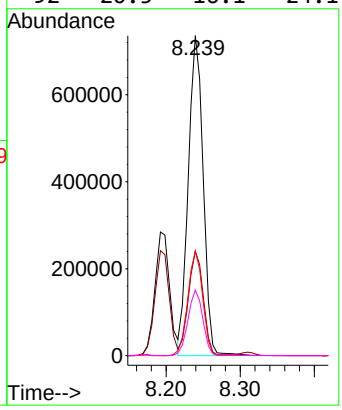


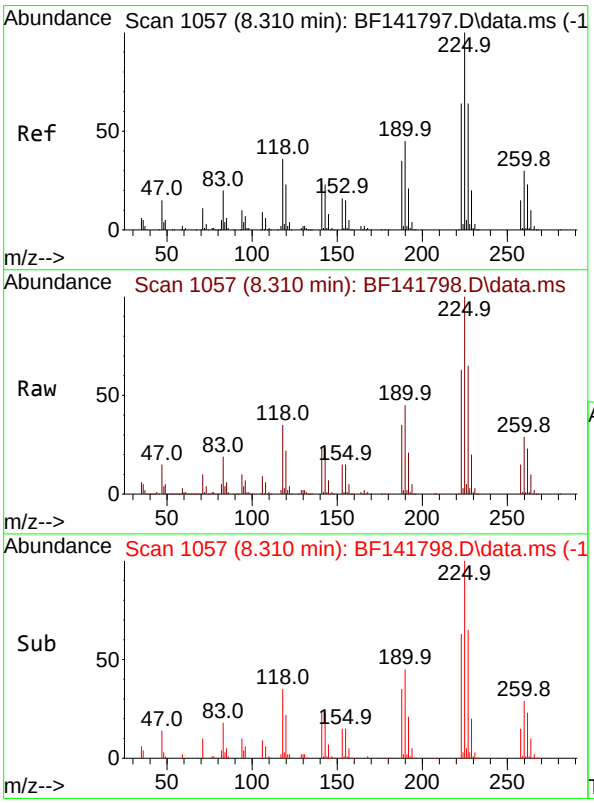

#33
4-Chloroaniline
Concen: 46.432 ng
RT: 8.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:127 Resp: 1028715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.7 | 26.1 | 39.1 |
| 65 | 32.7 | 25.7 | 38.5 |
| 92 | 20.5 | 16.1 | 24.1 |

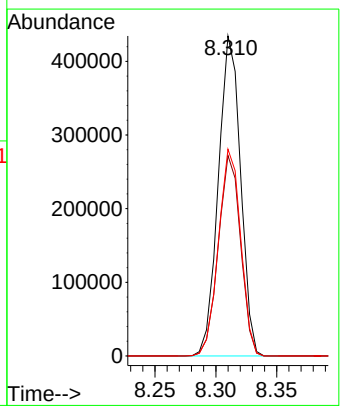


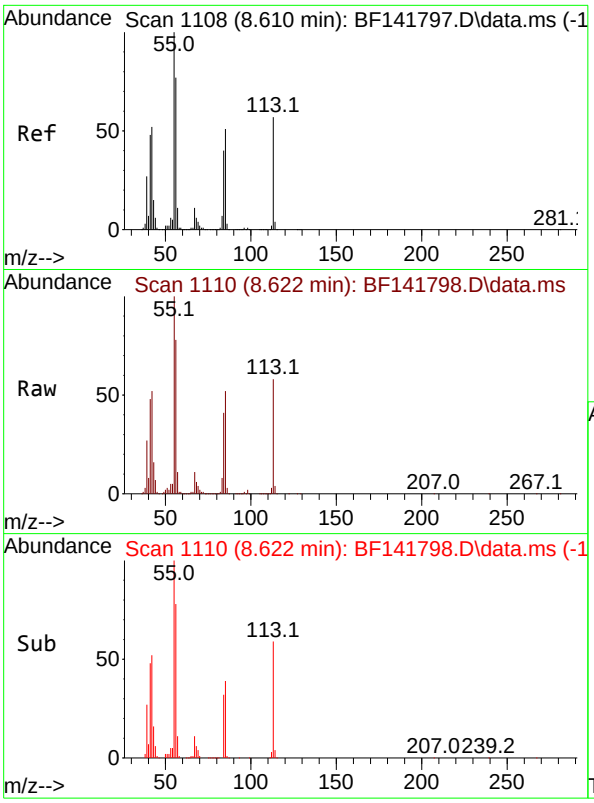




#34
Hexachlorobutadiene
Concen: 48.351 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:225 Resp: 551683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.7 | 51.4 | 77.2 |
| 227 | 64.6 | 51.6 | 77.4 |



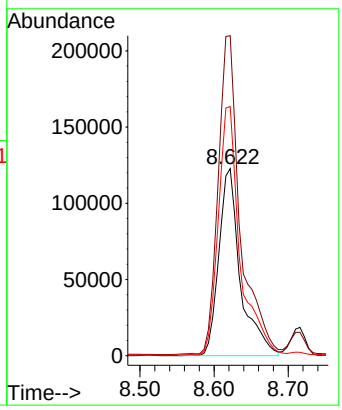


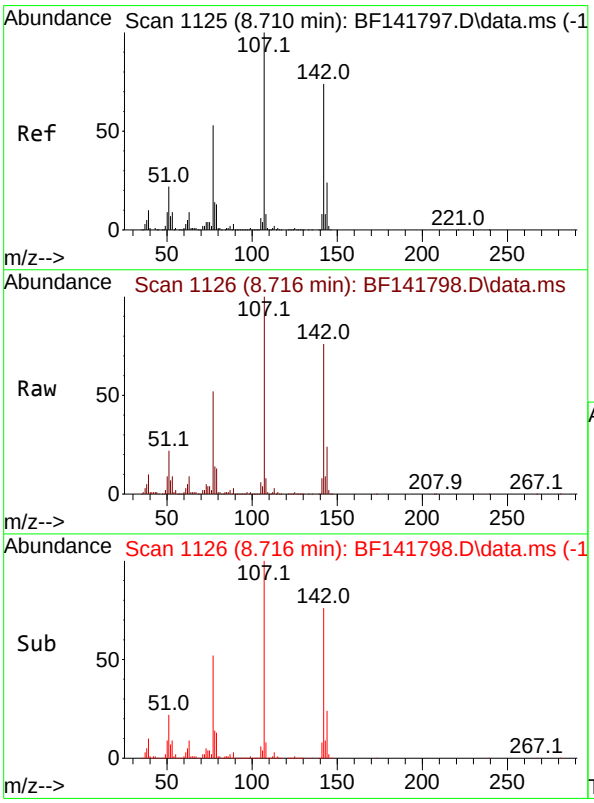

#35
Caprolactam
Concen: 48.241 ng
RT: 8.622 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:113 Resp: 248725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 171.1 | 155.6 | 195.6 |
| 56 | 133.2 | 114.6 | 154.6 |

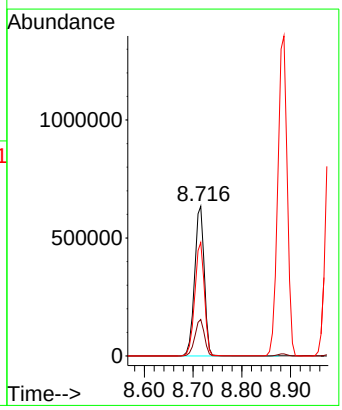


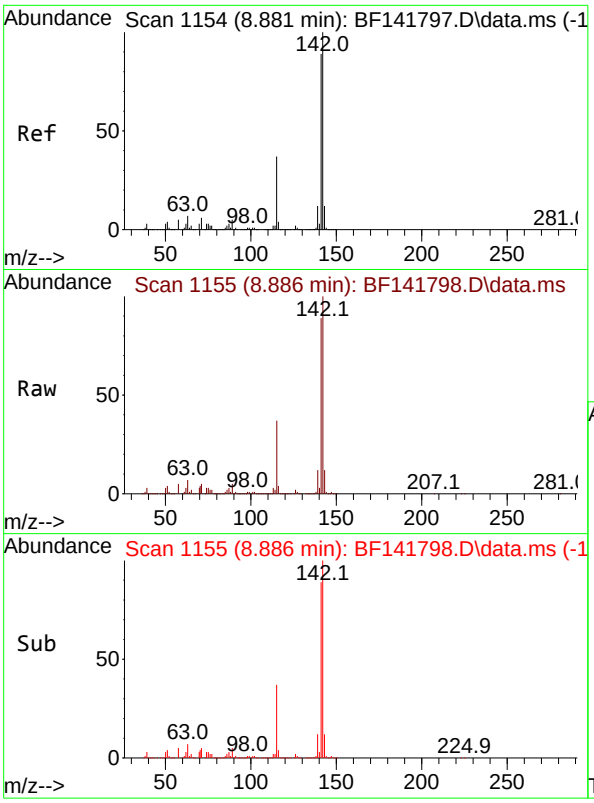




#36
4-Chloro-3-methylphenol
Concen: 47.314 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:107 Resp: 880725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 24.4 | 19.4 | 29.0 |
| 142 | 75.8 | 59.4 | 89.0 |



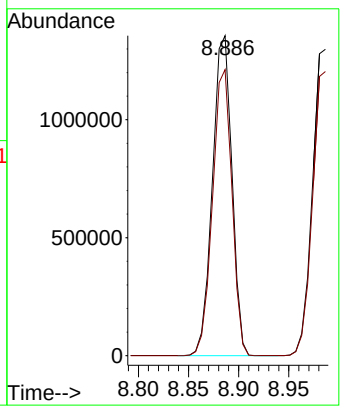


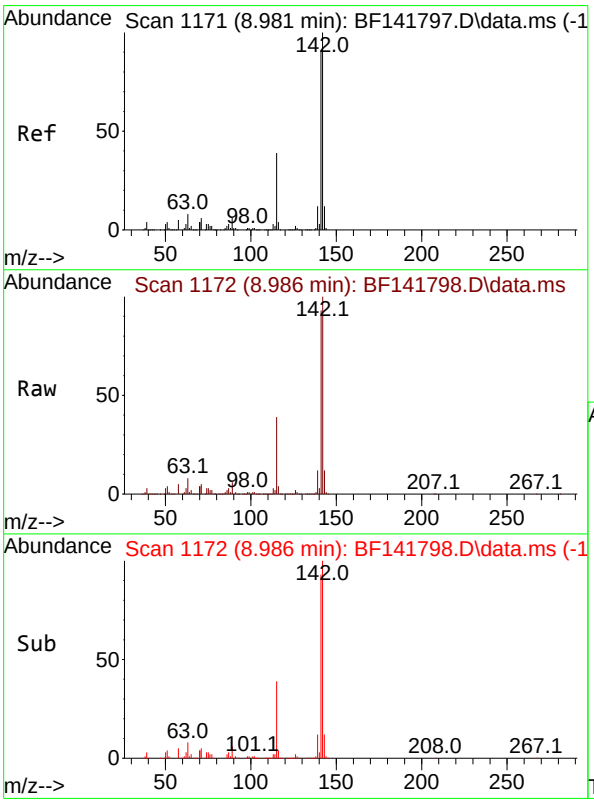

#37
2-Methylnaphthalene
Concen: 46.064 ng
RT: 8.886 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:142 Resp: 1825639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.4 | 71.1 | 106.7 |

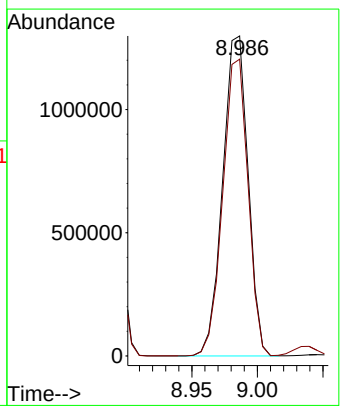


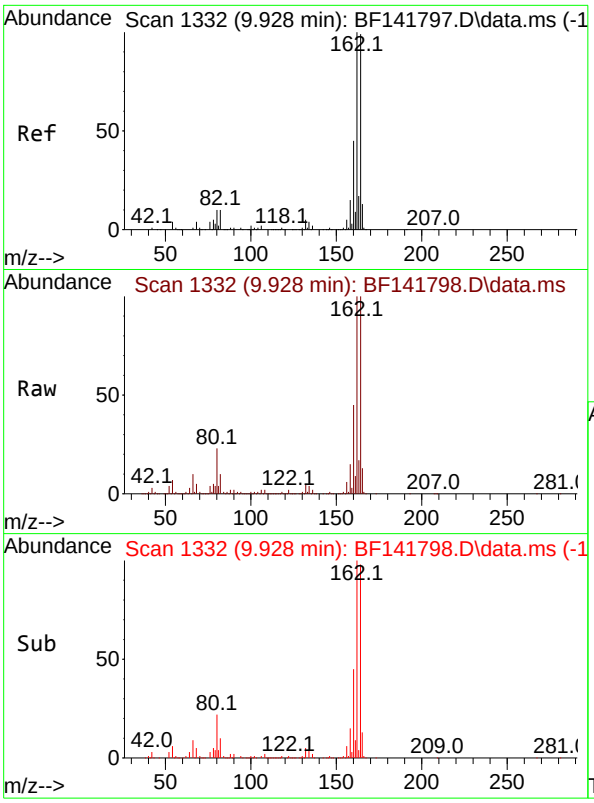




#38
1-Methylnaphthalene
Concen: 45.899 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:142 Resp: 1745465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.7 | 73.1 | 109.7 |



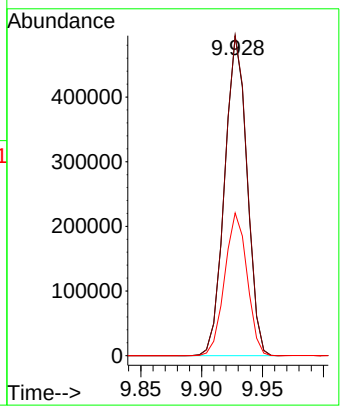


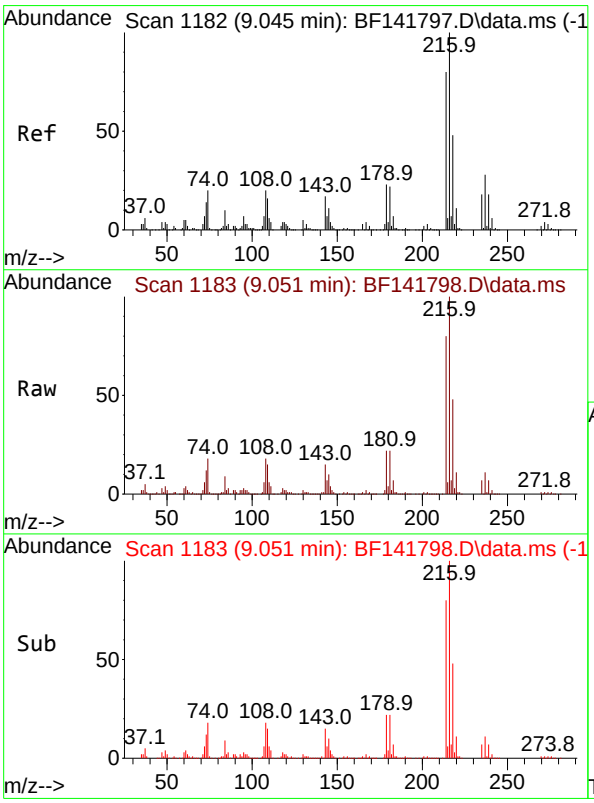

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:164 Resp: 632437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.1 | 80.6 | 120.8 |
| 160 | 44.7 | 36.3 | 54.5 |

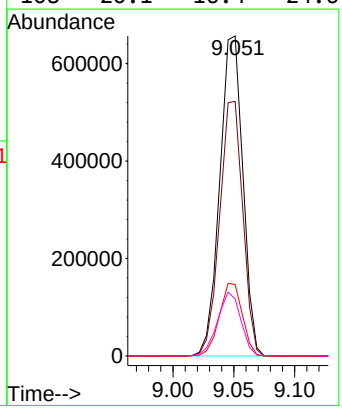


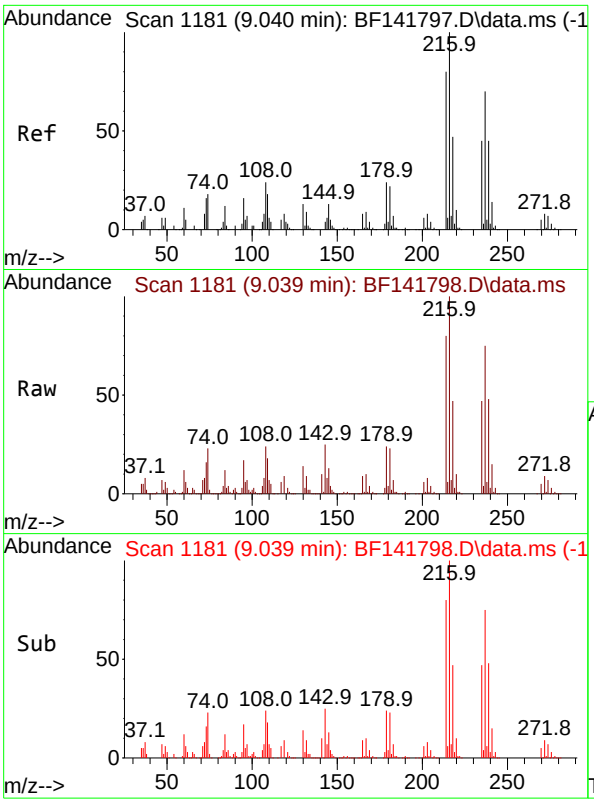




#40
1,2,4,5-Tetrachlorobenzene
Concen: 47.555 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:216 Resp: 868619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 79.7 | 63.5 | 95.3 |
| 179 | 22.6 | 18.1 | 27.1 |
| 108 | 20.1 | 16.4 | 24.6 |



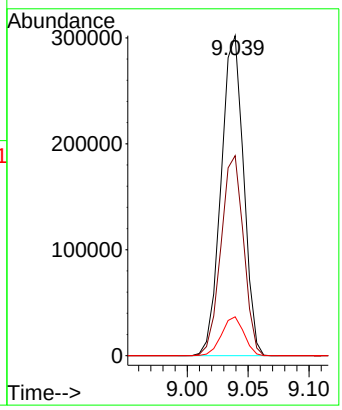


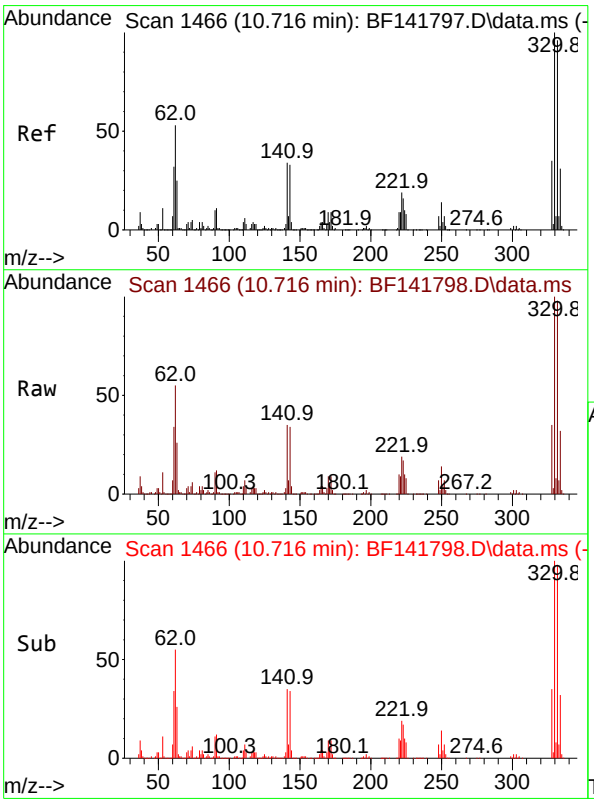

#41
Hexachlorocyclopentadiene
Concen: 50.930 ng
RT: 9.039 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:237 Resp: 388222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 62.5 | 43.3 | 83.3 |
| 272 | 12.2 | 0.0 | 31.9 |

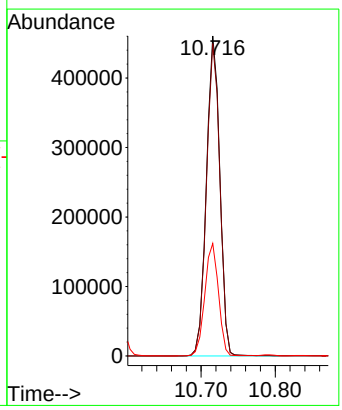


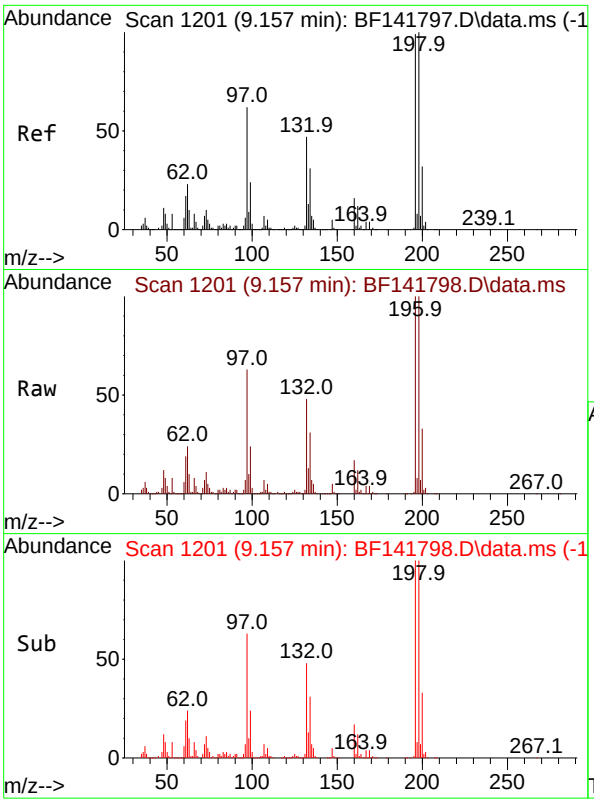




#42
2,4,6-Tribromophenol
Concen: 97.701 ng
RT: 10.716 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:330 Resp: 580093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.8 | 76.6 | 115.0 |
| 141 | 35.8 | 29.0 | 43.4 |



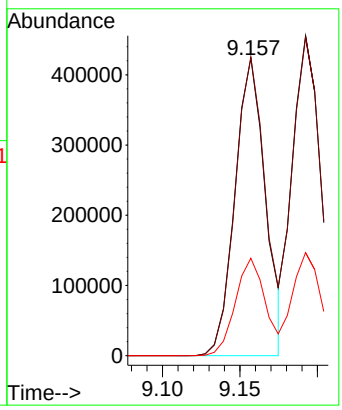


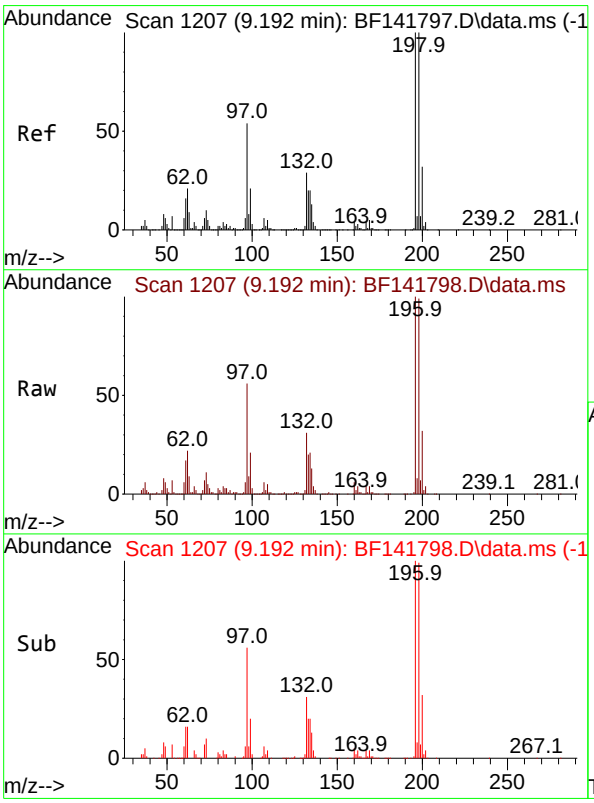

#43
2,4,6-Trichlorophenol
Concen: 49.010 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:196 Resp: 578263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.5 | 80.4 | 120.6 |
| 200 | 32.7 | 25.7 | 38.5 |

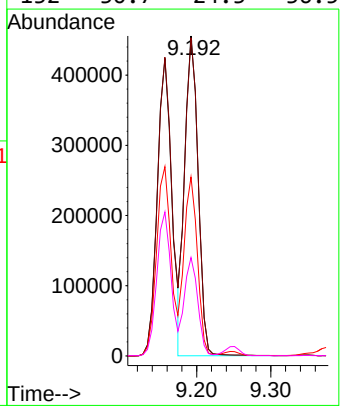


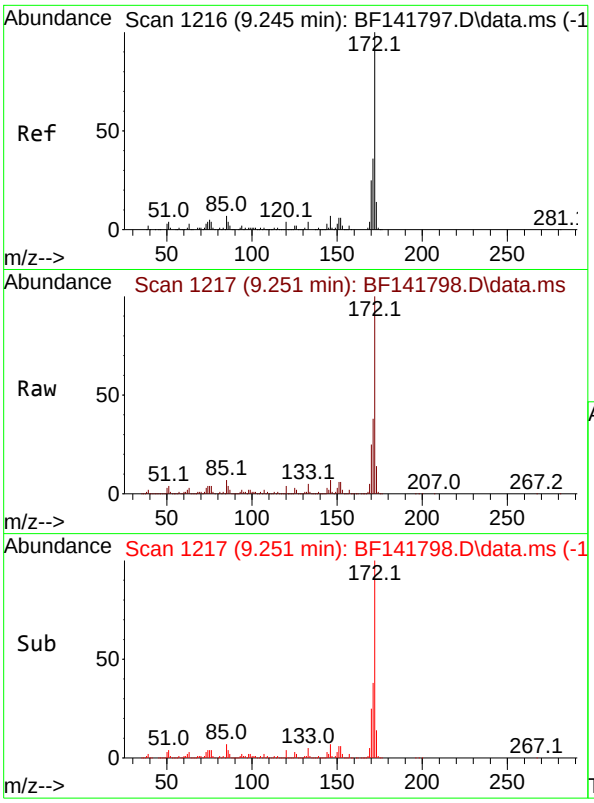




#44
2,4,5-Trichlorophenol
Concen: 49.213 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:196 Resp: 574978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 99.5 | 79.7 | 119.5 |
| 97 | 55.9 | 44.2 | 66.2 |
| 132 | 30.7 | 24.3 | 36.5 |



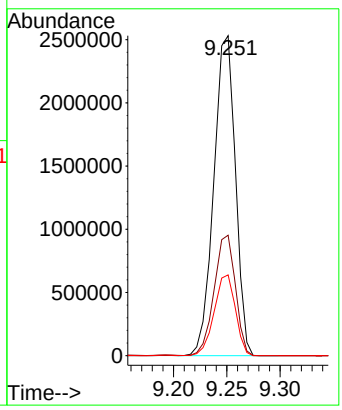


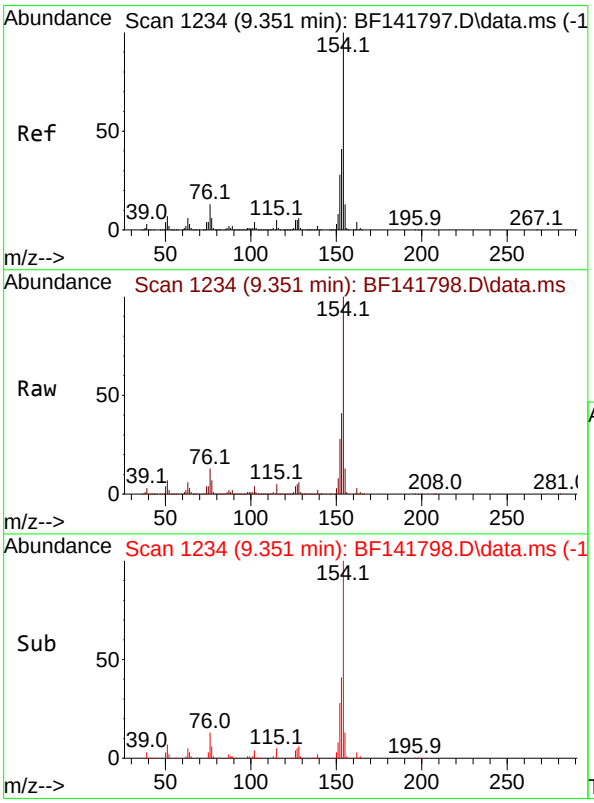

#45
2-Fluorobiphenyl
Concen: 90.435 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:172 Resp: 3566962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.6 | 29.2 | 43.8 |
| 170 | 25.2 | 19.7 | 29.5 |

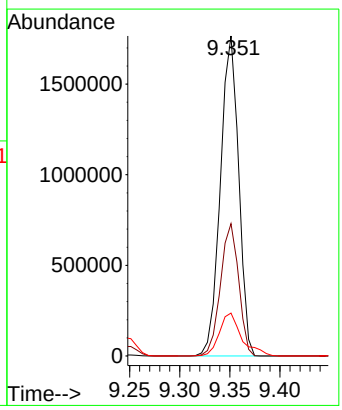


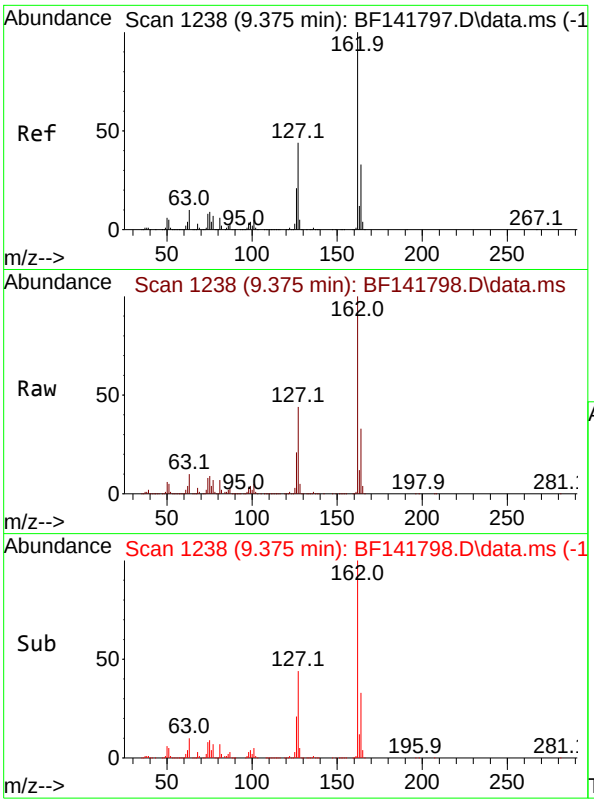




#46
1,1'-Biphenyl
Concen: 46.420 ng
RT: 9.351 min Scan# 1234
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:154 Resp: 2234592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.4 | 21.4 | 61.4 |
| 76 | 13.4 | 0.0 | 33.4 |



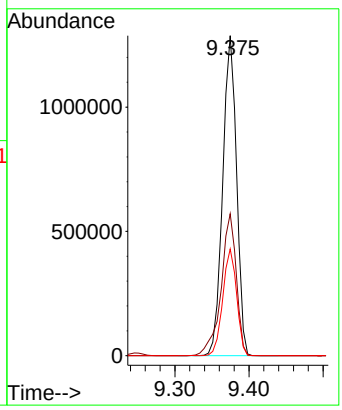


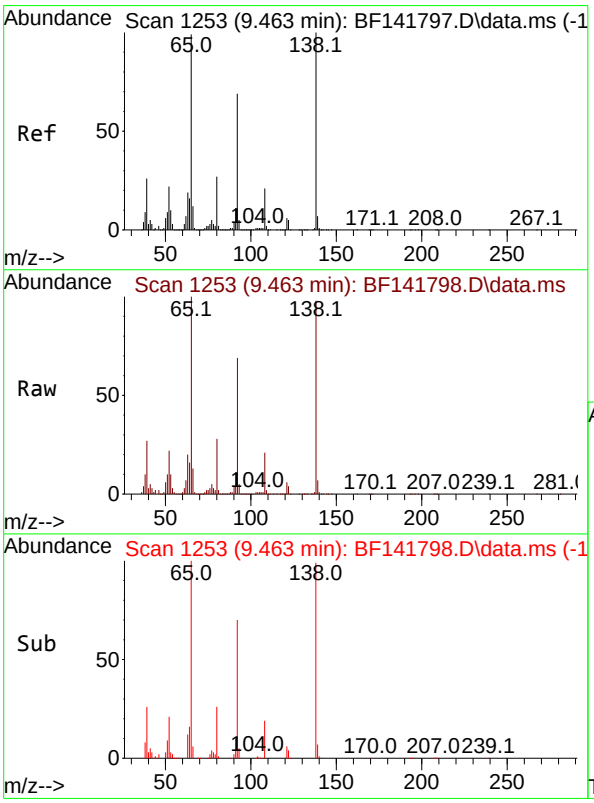

#47
2-Chloronaphthalene
Concen: 47.075 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:162 Resp: 1672555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 44.4 | 35.0 | 52.6 |
| 164 | 33.4 | 26.6 | 40.0 |

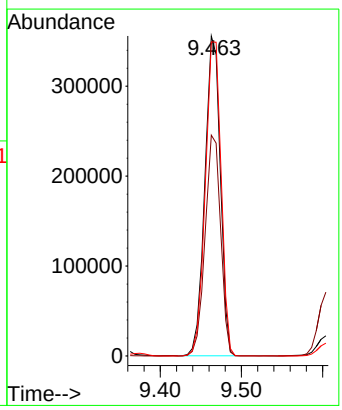


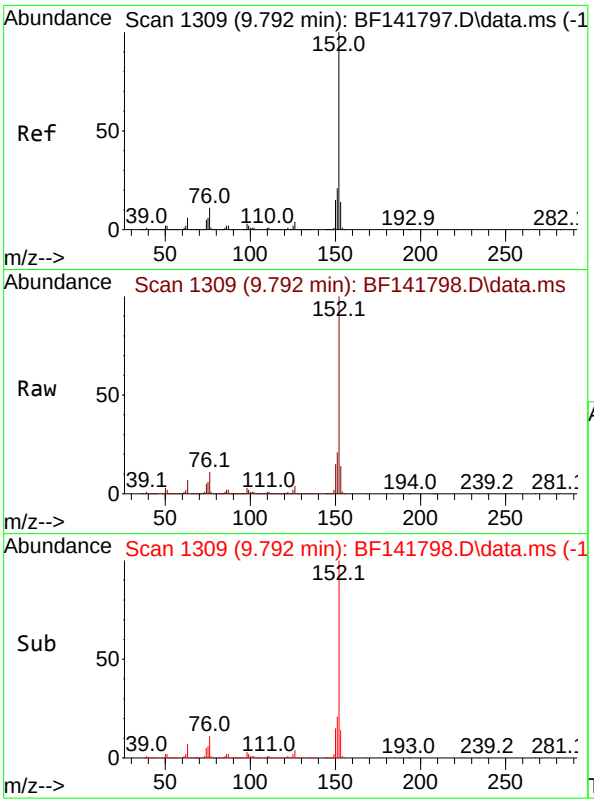




#48
2-Nitroaniline
Concen: 48.211 ng
RT: 9.463 min Scan# 1253
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 65 Resp: 469075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 69.0 | 55.7 | 83.5 |
| 138 | 98.1 | 80.6 | 121.0 |



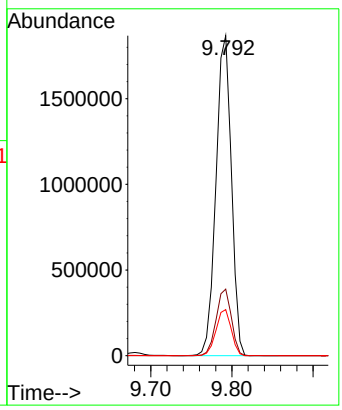


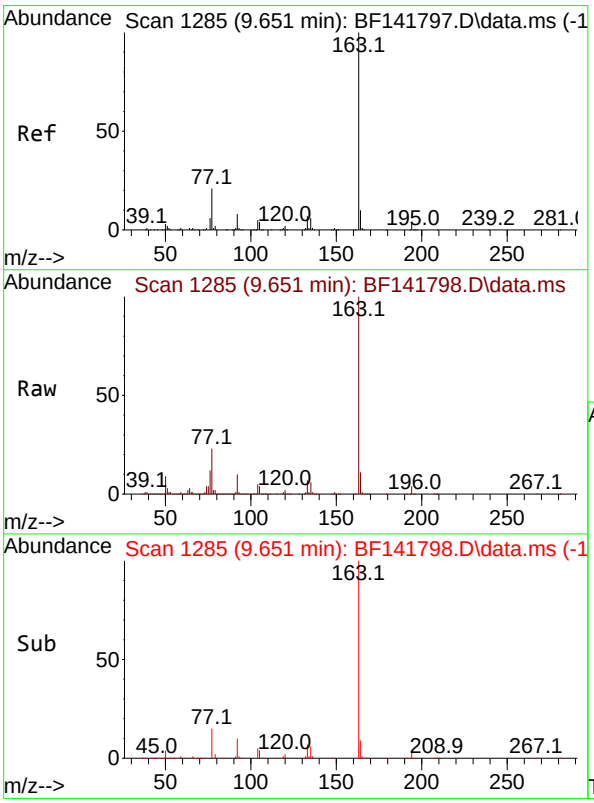

#49
Acenaphthylene
Concen: 46.294 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:152 Resp: 2466104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 16.6 | 24.8 |
| 153 | 14.4 | 11.2 | 16.8 |

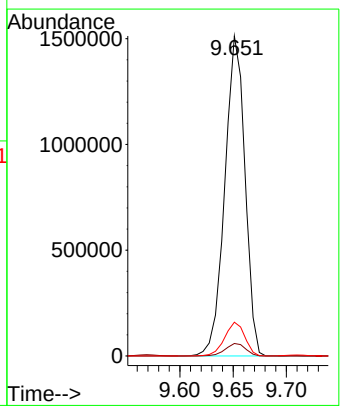


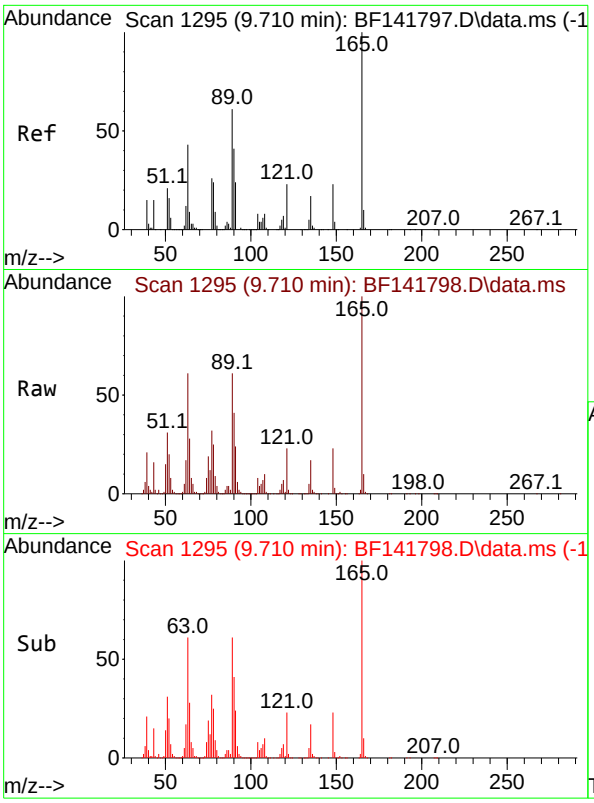




#50
Dimethylphthalate
Concen: 47.103 ng
RT: 9.651 min Scan# 1285
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:163 Resp: 1994958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.9 | 3.1 | 4.7 |
| 164 | 10.5 | 8.4 | 12.6 |



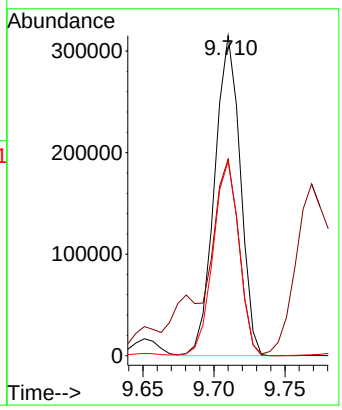


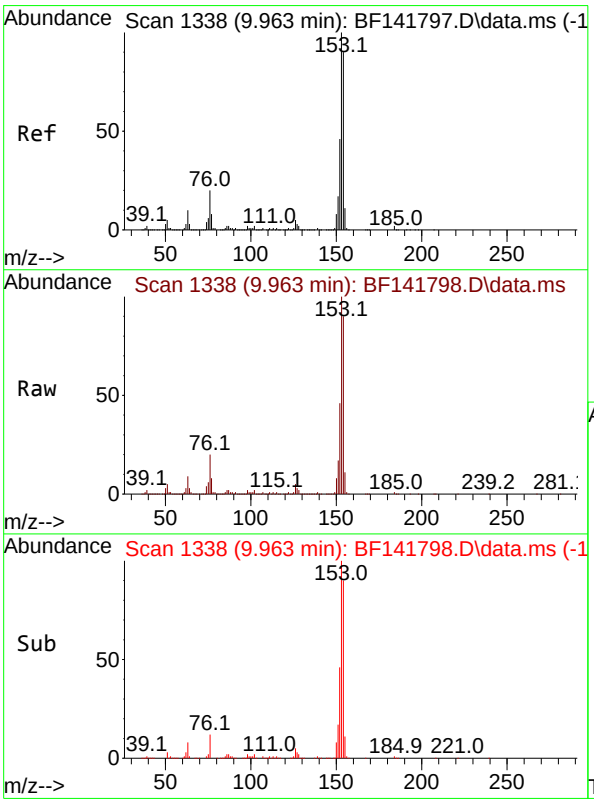

#51
2,6-Dinitrotoluene
Concen: 48.926 ng
RT: 9.710 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:165 Resp: 396873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 61.4 | 49.5 | 74.3 |
| 89 | 60.8 | 49.0 | 73.4 |

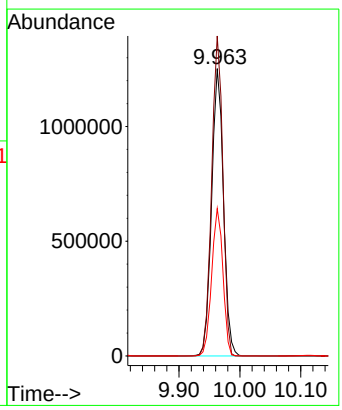


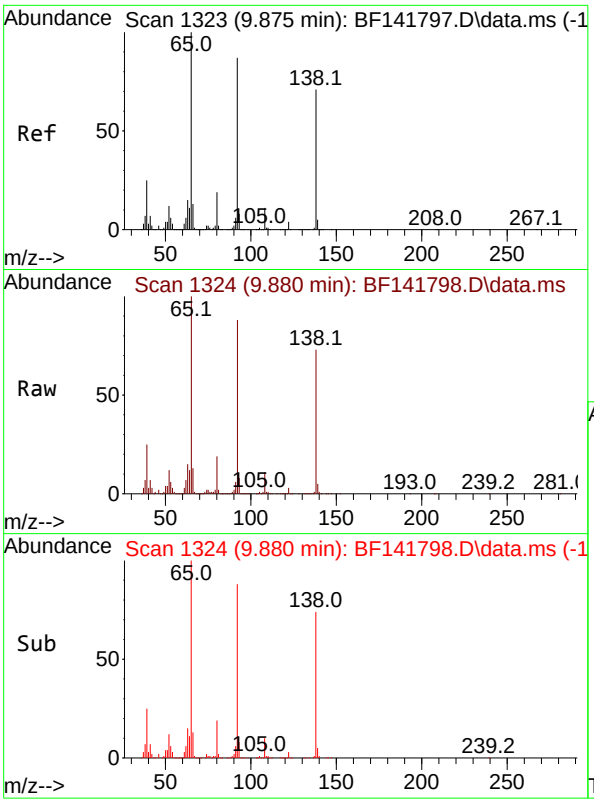




#52
Acenaphthene
Concen: 46.994 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:154 Resp: 1689163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 111.4 | 88.7 | 133.1 |
| 152 | 51.3 | 40.9 | 61.3 |



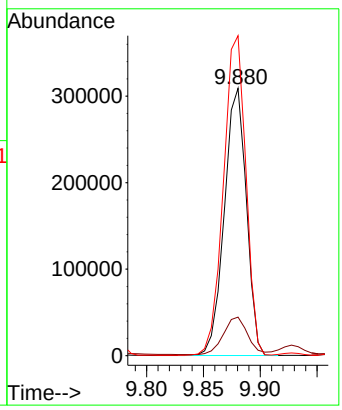


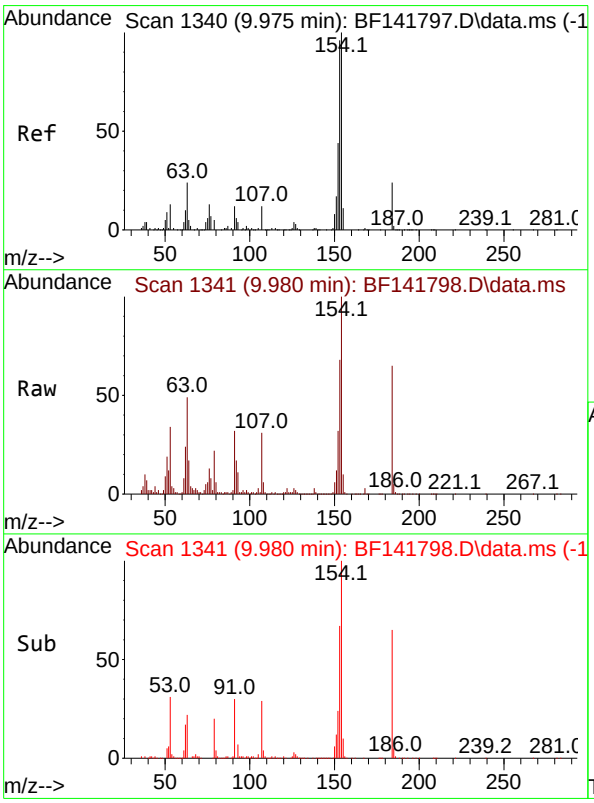

#53
3-Nitroaniline
Concen: 48.300 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:138 Resp: 417015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 14.5 | 12.7 | 19.1 |
| 92 | 119.7 | 97.9 | 146.9 |

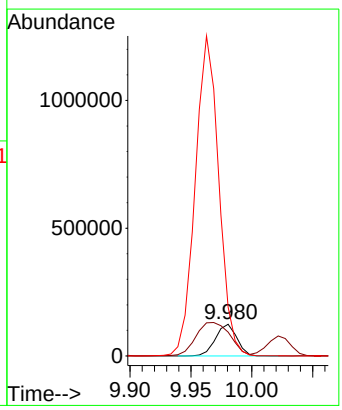


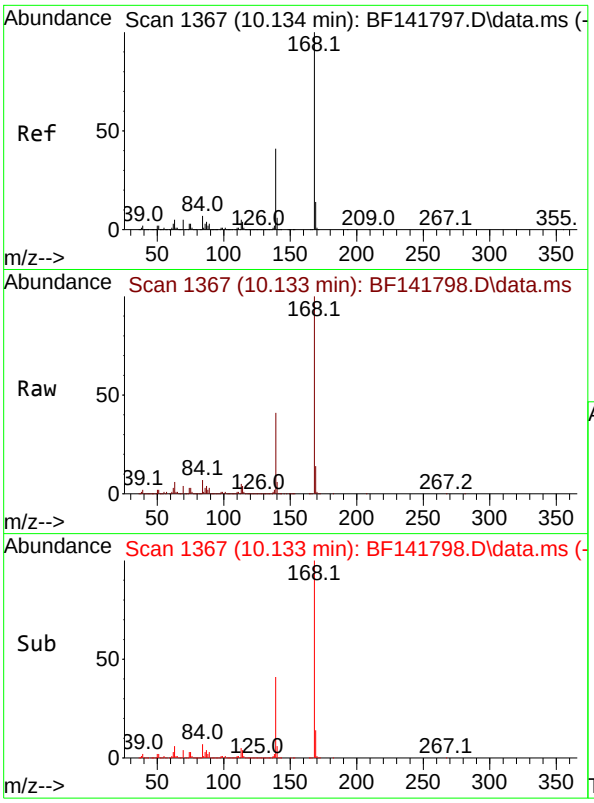




#54
2,4-Dinitrophenol
Concen: 48.388 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.005 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:184 Resp: 151706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 75.3 | 79.0 | 118.6# |
| 154 | 154.1 | 335.8 | 503.8# |



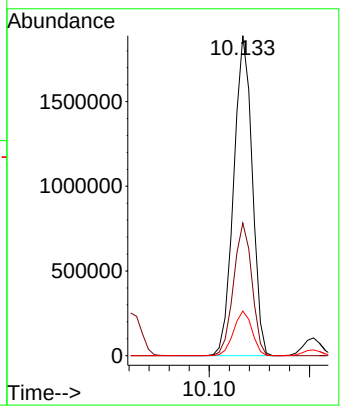


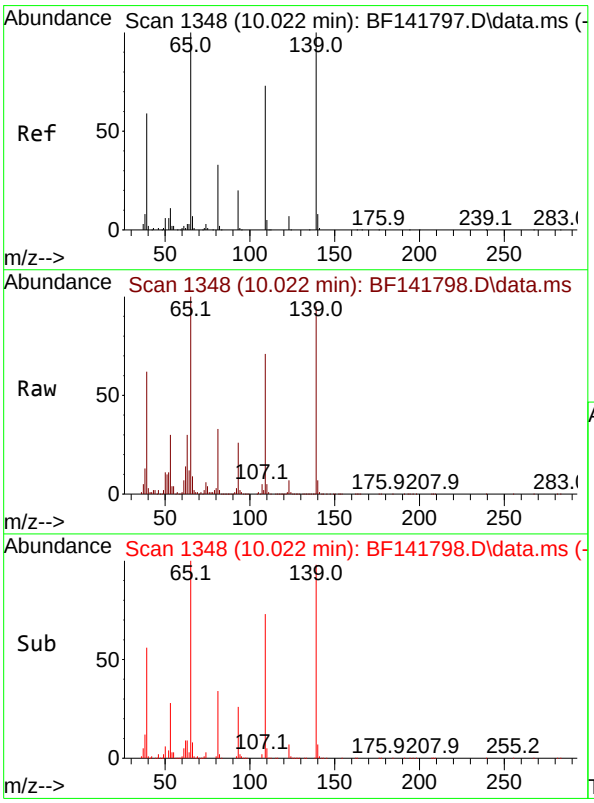

#55
Dibenzofuran
Concen: 46.312 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:168 Resp: 2422882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 41.4 | 32.9 | 49.3 |
| 169 | 14.0 | 11.1 | 16.7 |

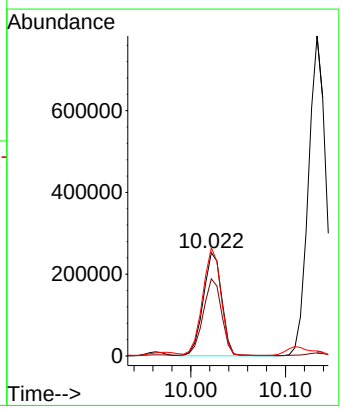


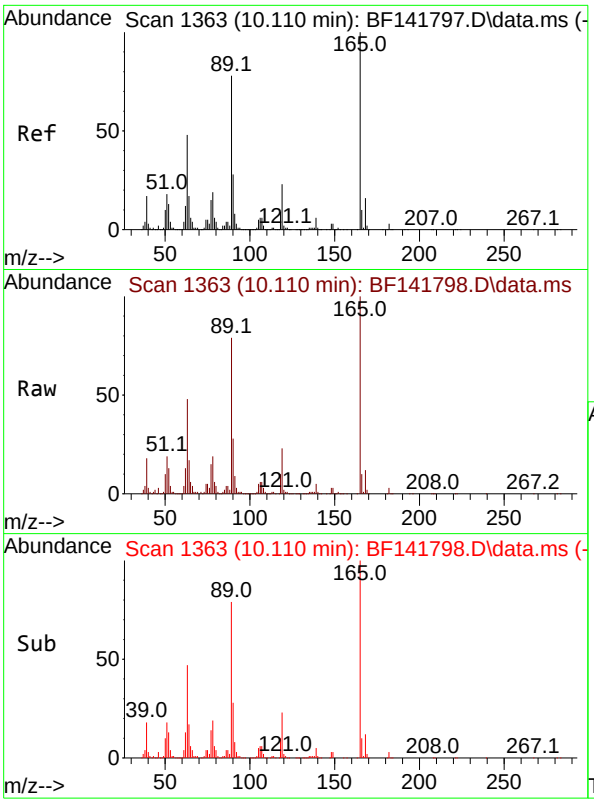




#56
4-Nitrophenol
Concen: 54.357 ng
RT: 10.022 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:139 Resp: 340020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 74.7 | 53.4 | 93.4 |
| 65 | 104.9 | 82.1 | 122.1 |



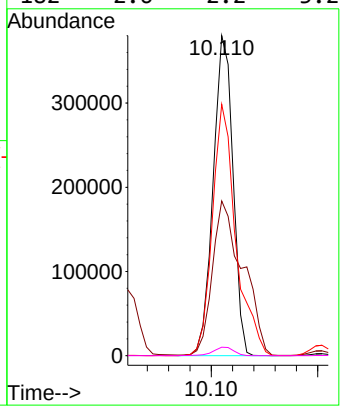


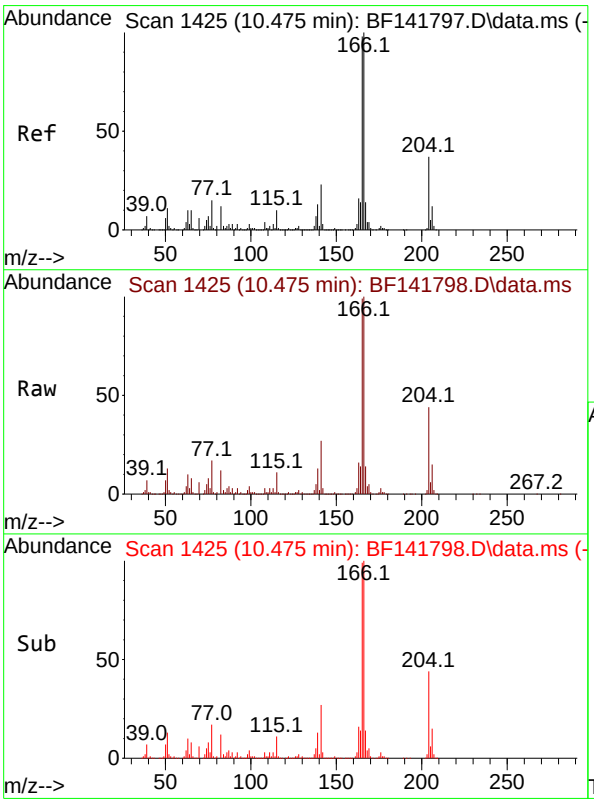

#57
2,4-Dinitrotoluene
Concen: 49.405 ng
RT: 10.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:165 Resp: 490028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 48.4 | 38.8 | 58.2 |
| 89 | 78.6 | 62.6 | 94.0 |
| 182 | 2.6 | 2.2 | 3.2 |

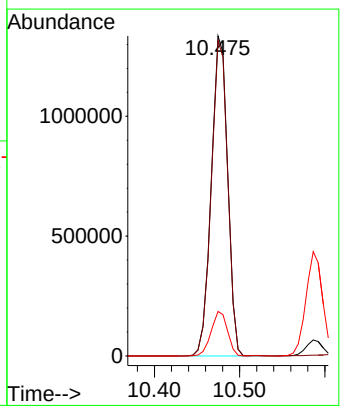


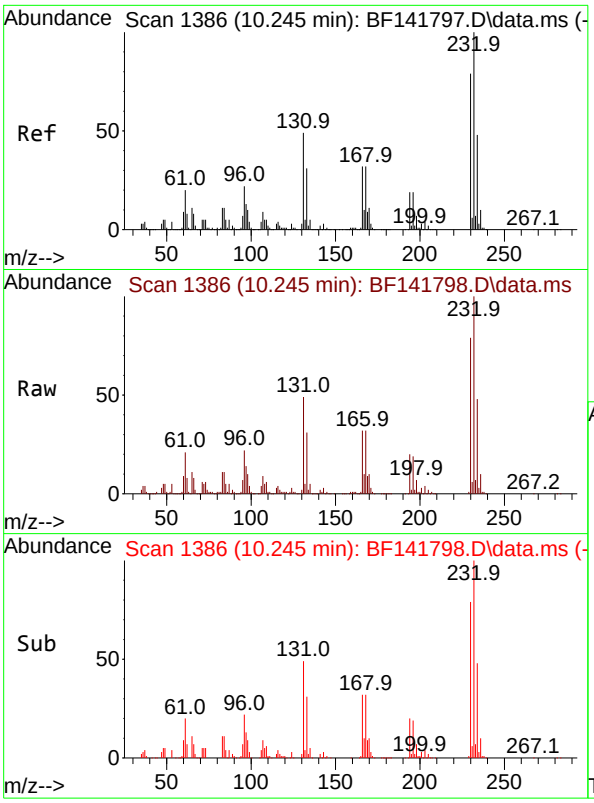




#58
Fluorene
Concen: 45.518 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:166 Resp: 1783757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.5 | 78.6 | 117.8 |
| 167 | 13.9 | 11.0 | 16.4 |



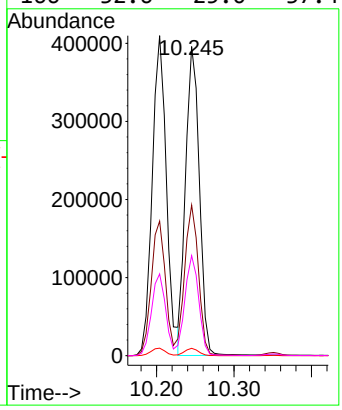


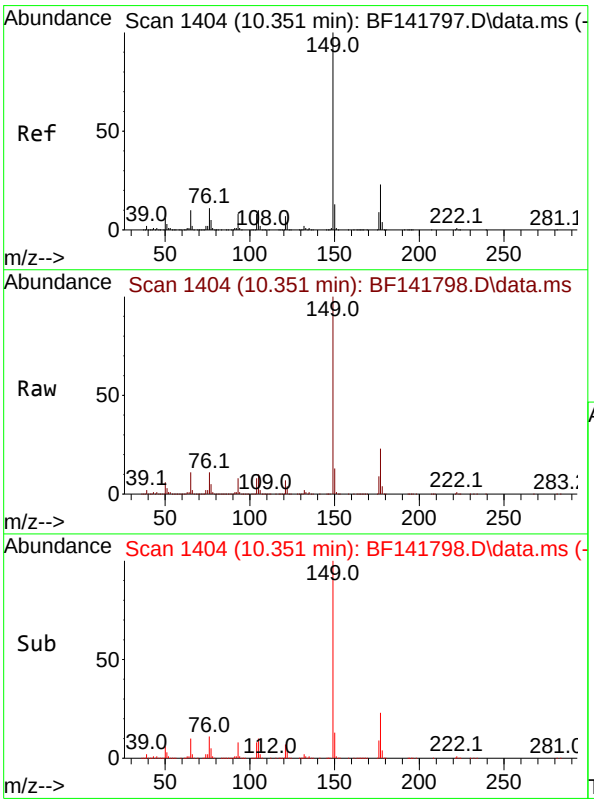

#59
2,3,4,6-Tetrachlorophenol
Concen: 48.140 ng
RT: 10.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:232 Resp: 489160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 49.4 | 37.8 | 56.8 |
| 130 | 2.4 | 2.0 | 3.0 |
| 166 | 32.6 | 25.0 | 37.4 |

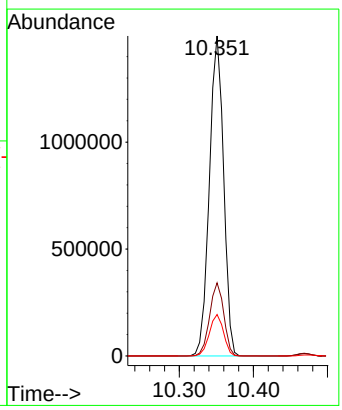


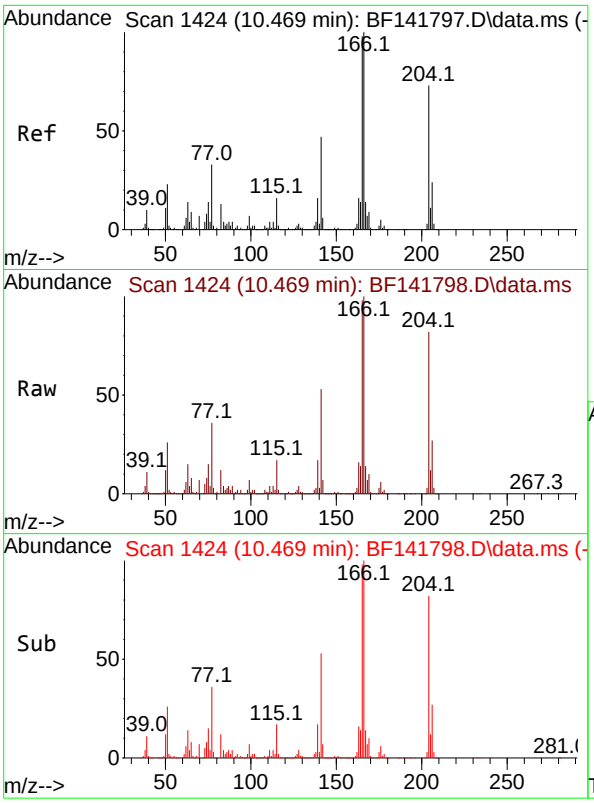




#60
Diethylphthalate
Concen: 46.896 ng
RT: 10.351 min Scan# 1404
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:149 Resp: 1991111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.9 | 18.3 | 27.5 |
| 150 | 12.9 | 10.3 | 15.5 |



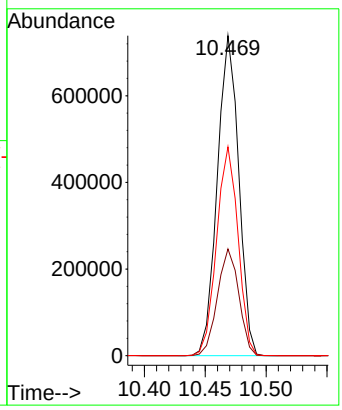


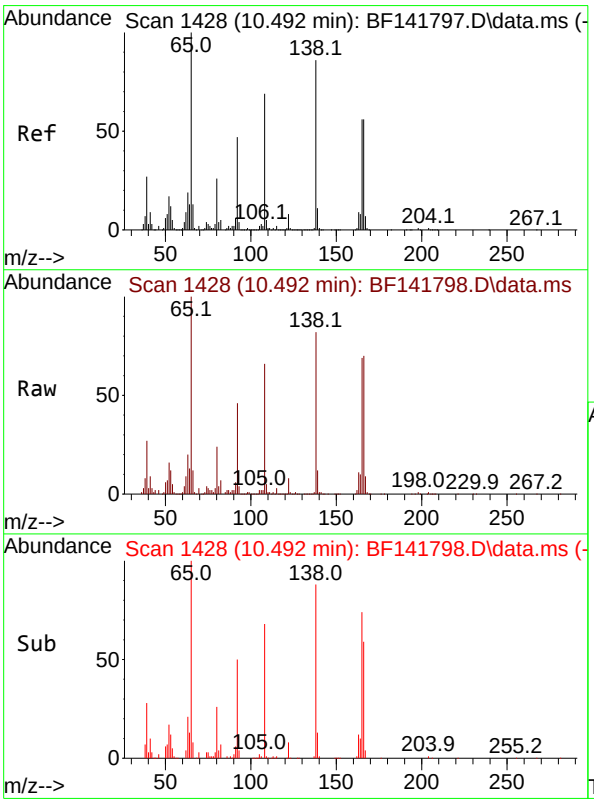

#61
4-Chlorophenyl-phenylether
Concen: 46.084 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:204 Resp: 904835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 33.4 | 26.2 | 39.4 |
| 141 | 65.3 | 51.7 | 77.5 |

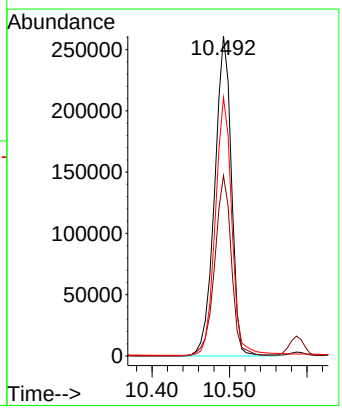


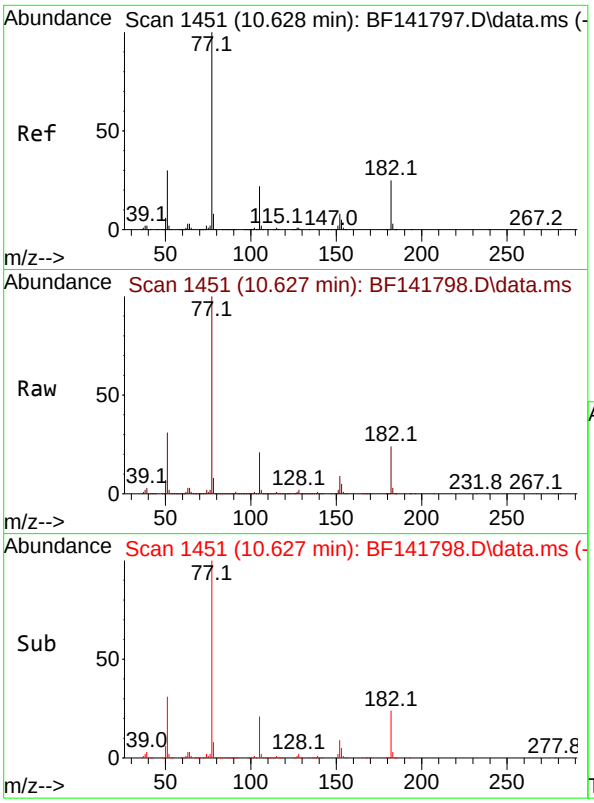




#62
4-Nitroaniline
Concen: 54.114 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:138 Resp: 391399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 56.4 | 34.9 | 74.9 |
| 108 | 80.7 | 59.6 | 99.6 |



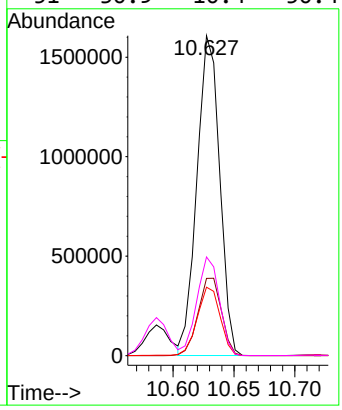


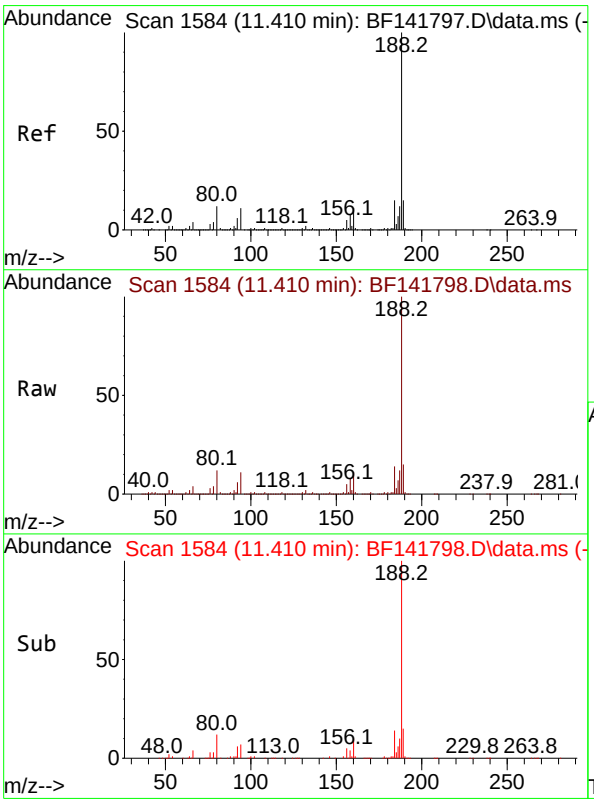

#63
Azobenzene
Concen: 46.687 ng
RT: 10.627 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion: 77 Resp: 2087153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 24.2 | 4.2 | 44.2 |
| 105 | 21.4 | 1.5 | 41.5 |
| 51 | 30.9 | 10.4 | 50.4 |

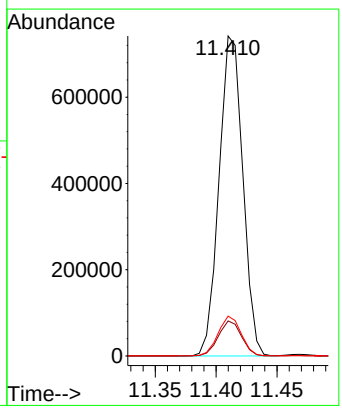


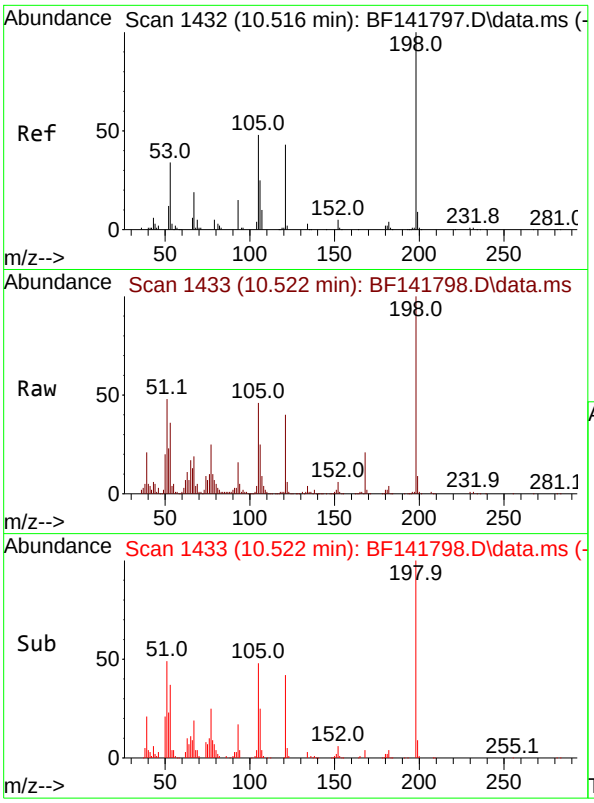




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:188 Resp: 1007266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.9 | 8.9 | 13.3 |
| 80 | 12.5 | 9.7 | 14.5 |



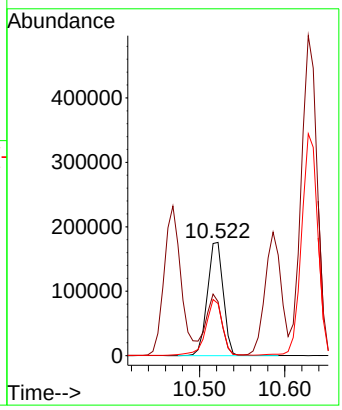


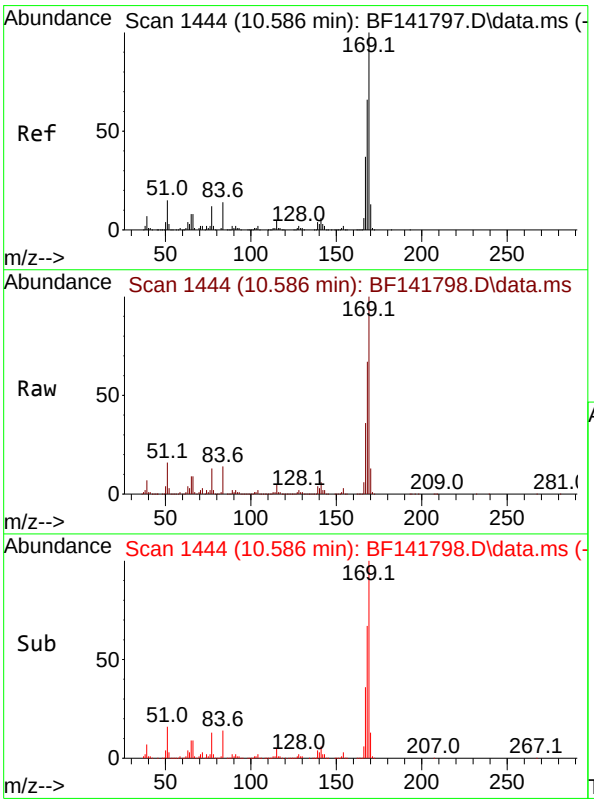

#65
4,6-Dinitro-2-methylphenol
Concen: 47.968 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:198 Resp: 227493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 47.7 | 32.1 | 72.1 |
| 105 | 46.1 | 28.5 | 68.5 |

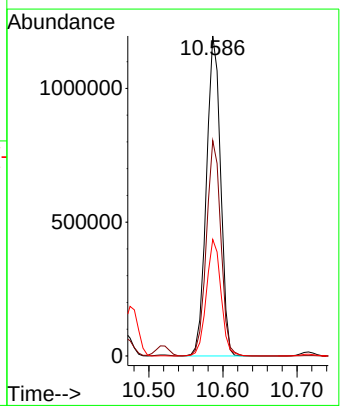


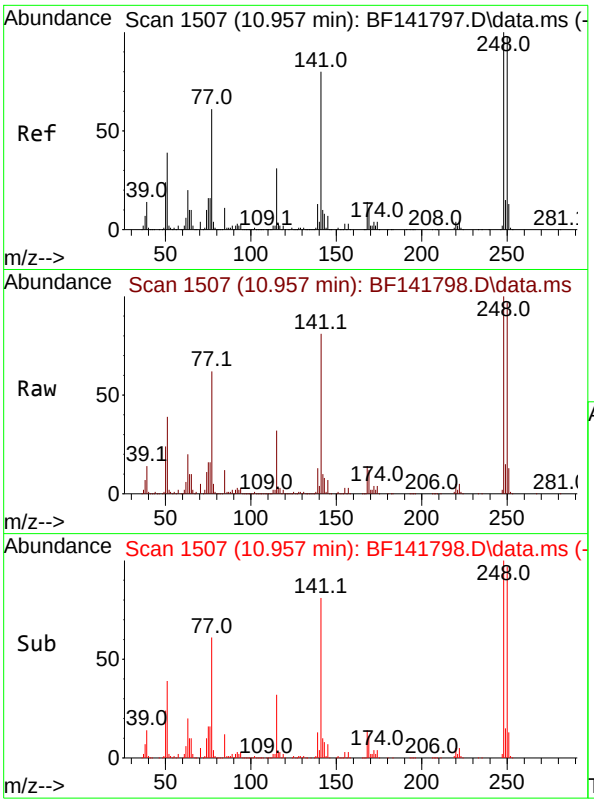




#66
n-Nitrosodiphenylamine
Concen: 48.041 ng
RT: 10.586 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:169 Resp: 1588976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 67.3 | 53.0 | 79.6 |
| 167 | 36.4 | 29.3 | 43.9 |



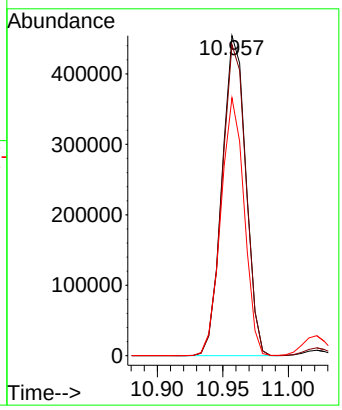


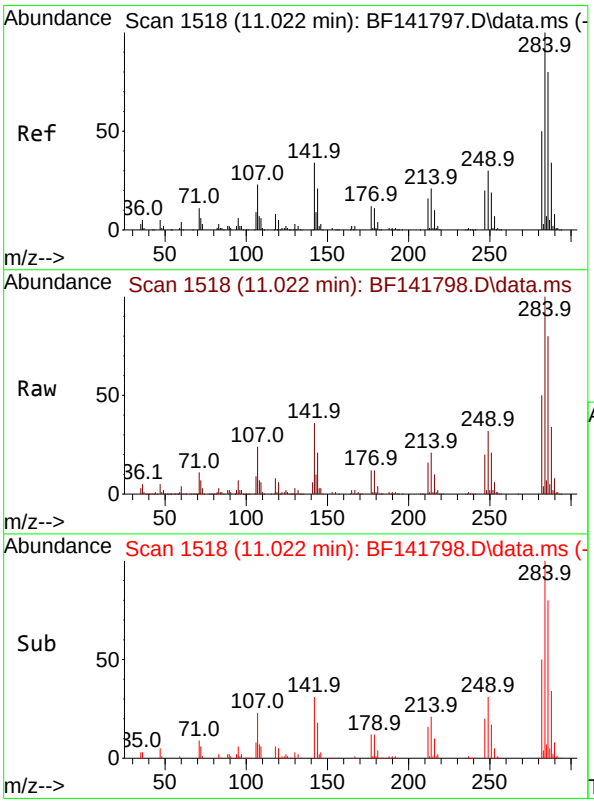

#67
4-Bromophenyl-phenylether
Concen: 48.631 ng
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:248 Resp: 572161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.2 | 78.1 | 117.1 |
| 141 | 80.6 | 64.3 | 96.5 |

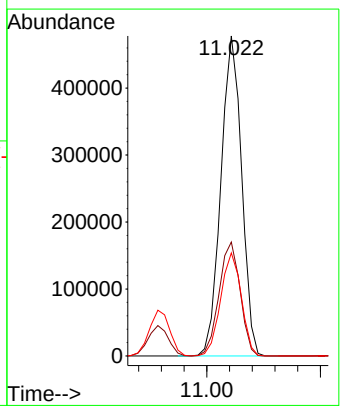


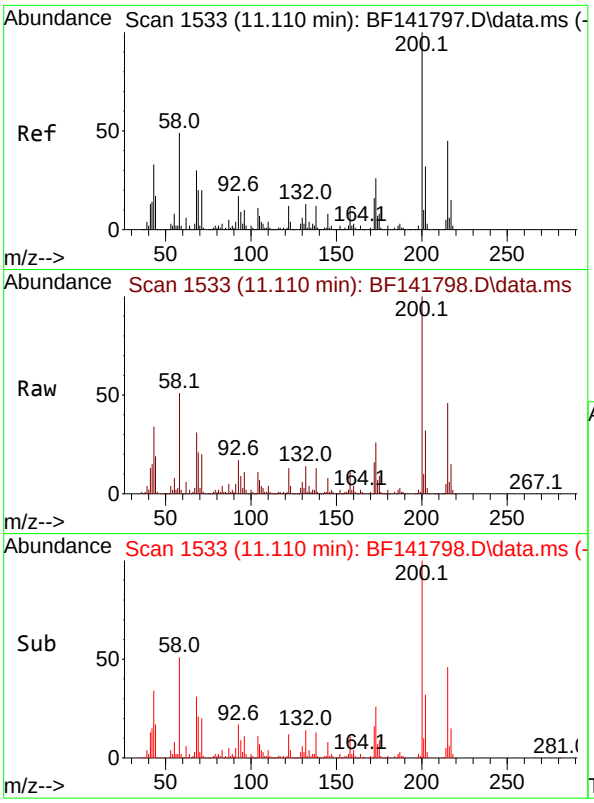




#68
Hexachlorobenzene
Concen: 48.705 ng
RT: 11.022 min Scan# 1518
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:284 Resp: 605103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 35.6 | 28.2 | 42.2 |
| 249 | 32.2 | 25.5 | 38.3 |



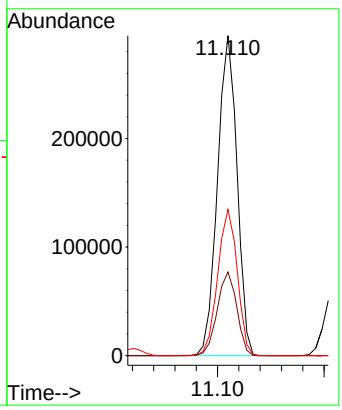


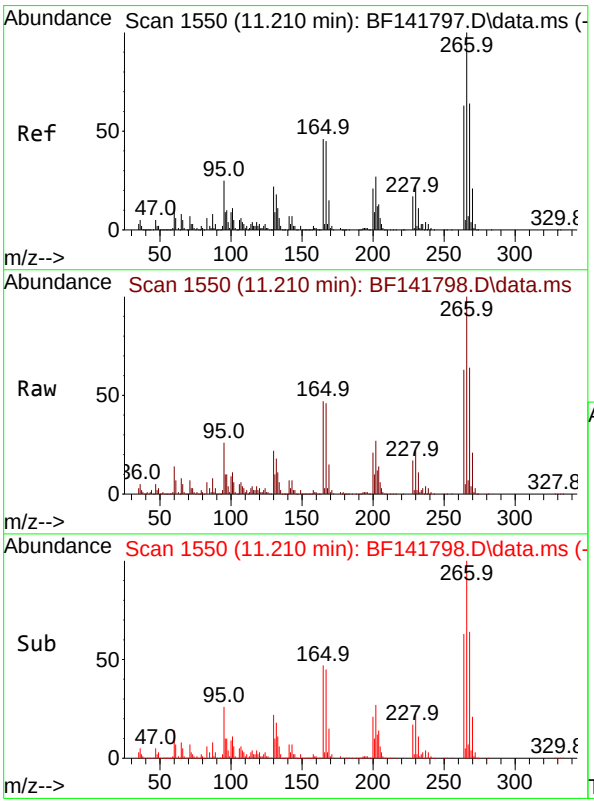

#69
Atrazine
Concen: 41.179 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:200 Resp: 374540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.2 | 5.6 | 45.6 |
| 215 | 45.7 | 25.3 | 65.3 |

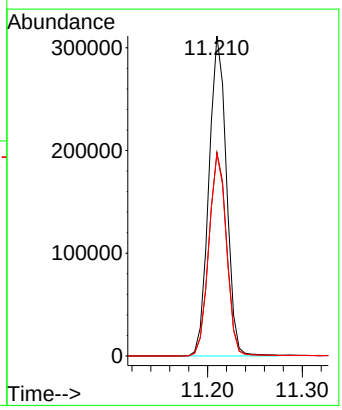


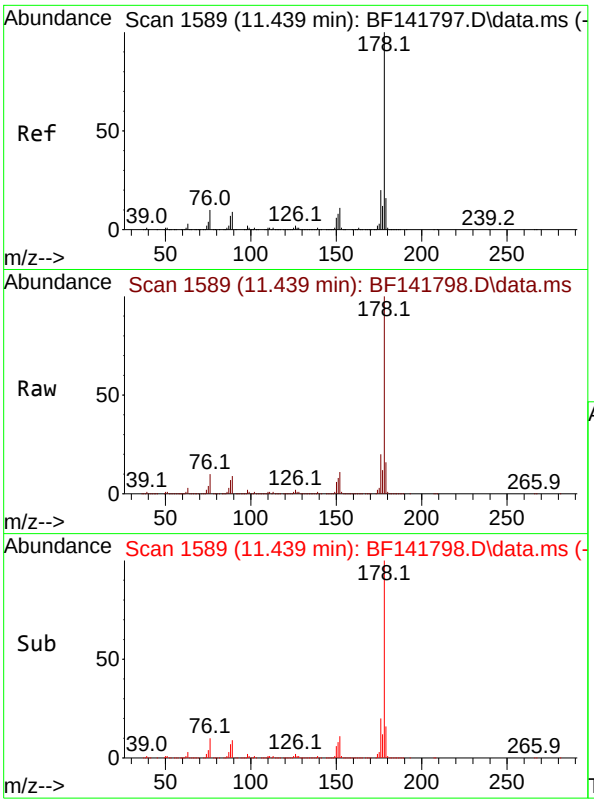




#70
Pentachlorophenol
Concen: 50.809 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:266 Resp: 400352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.6 | 50.9 | 76.3 |
| 264 | 63.2 | 50.2 | 75.4 |



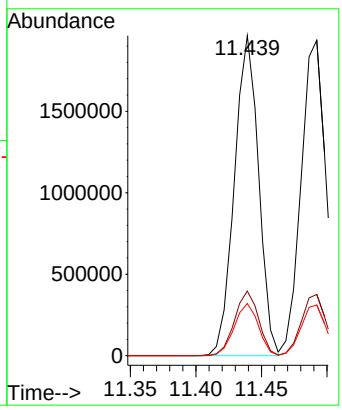


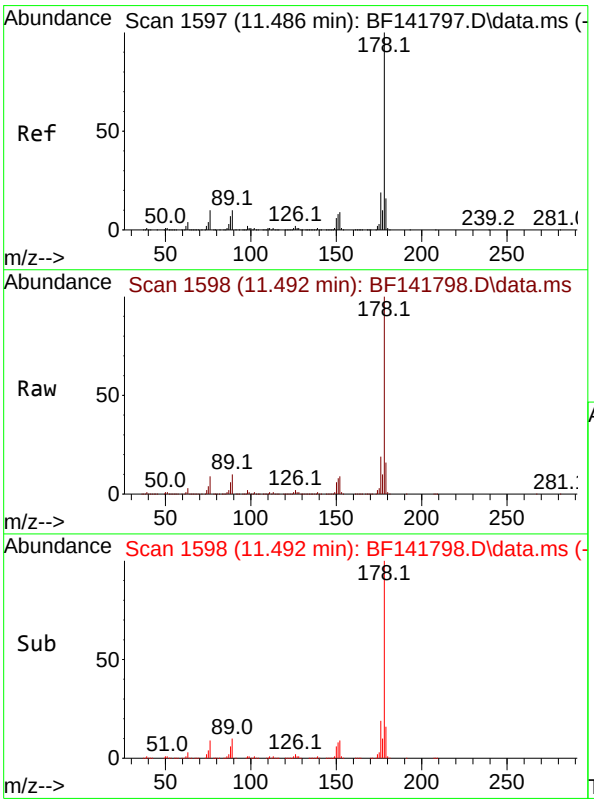

#71
Phenanthrene
Concen: 46.806 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:178 Resp: 2521849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.2 | 16.0 | 24.0 |
| 179 | 16.3 | 12.6 | 19.0 |

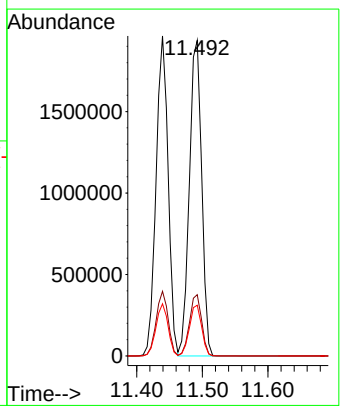


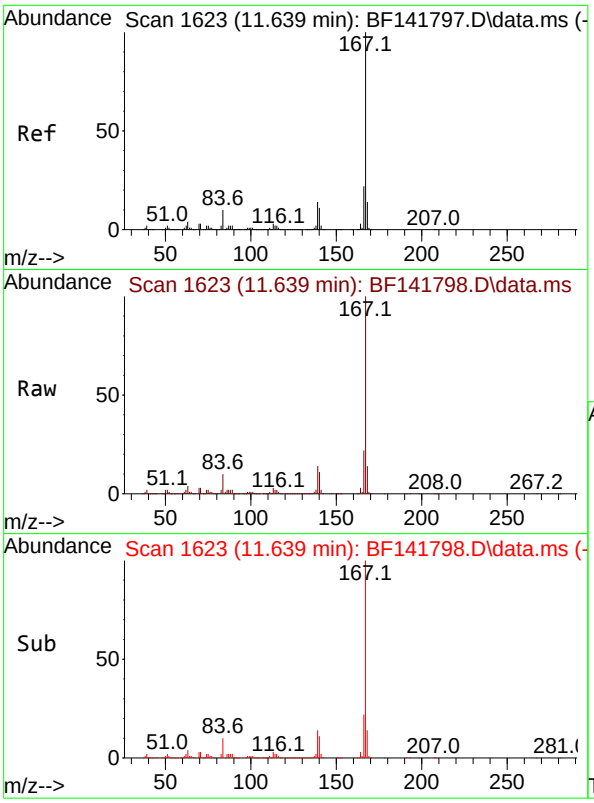




#72
Anthracene
Concen: 46.707 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:178 Resp: 2522132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.4 | 23.0 |
| 179 | 16.1 | 12.8 | 19.2 |



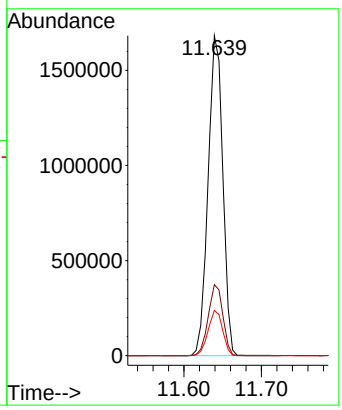


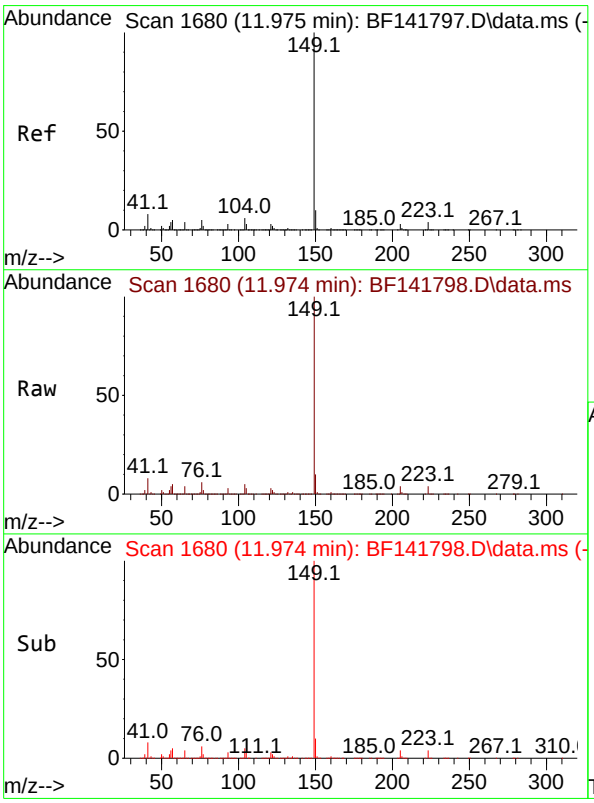

#73
Carbazole
Concen: 46.572 ng
RT: 11.639 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:167 Resp: 2220778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.2 | 17.5 | 26.3 |
| 139 | 14.2 | 11.3 | 16.9 |

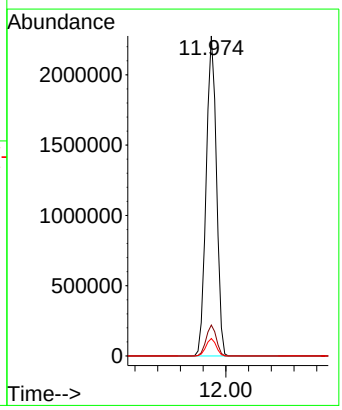


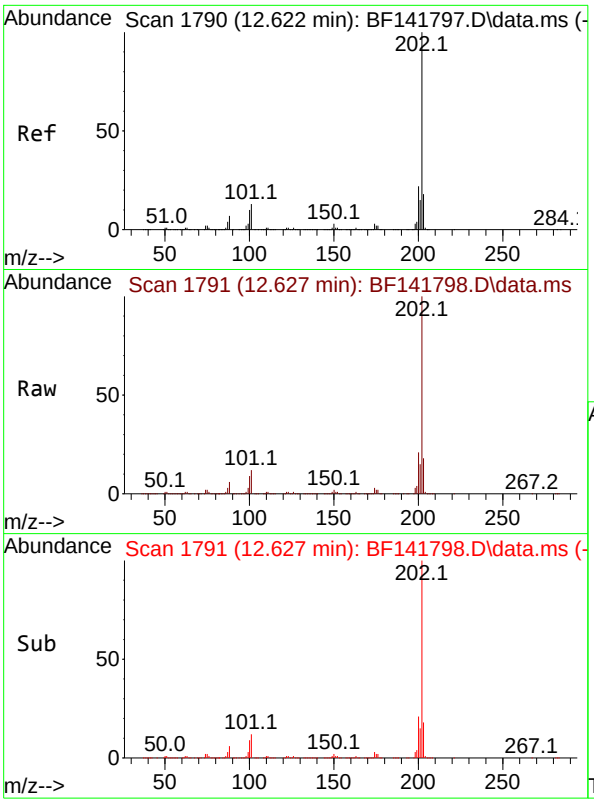




#74
Di-n-butylphthalate
Concen: 46.982 ng
RT: 11.974 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:149 Resp: 2839813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.6 | 7.7 | 11.5 |
| 104 | 5.5 | 4.4 | 6.6 |



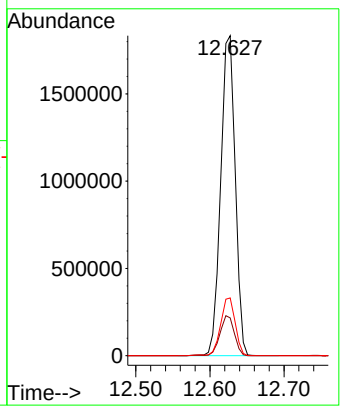


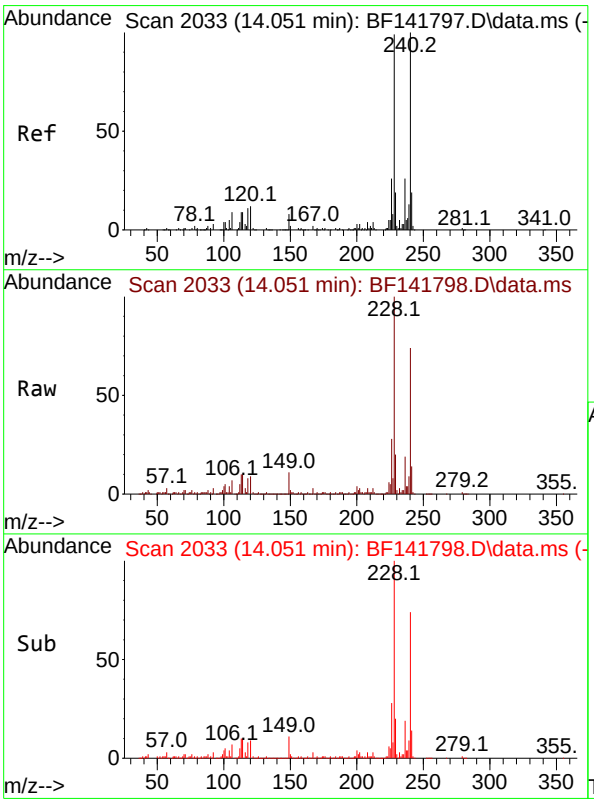

#75
Fluoranthene
Concen: 45.269 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:202 Resp: 2499217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.8 | 0.0 | 32.8 |
| 203 | 18.0 | 0.0 | 38.0 |

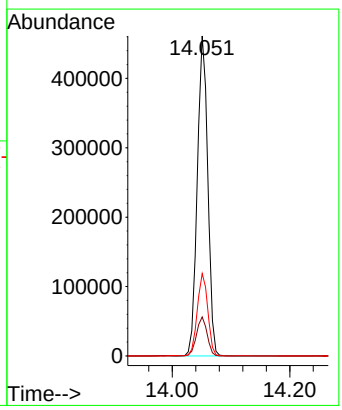


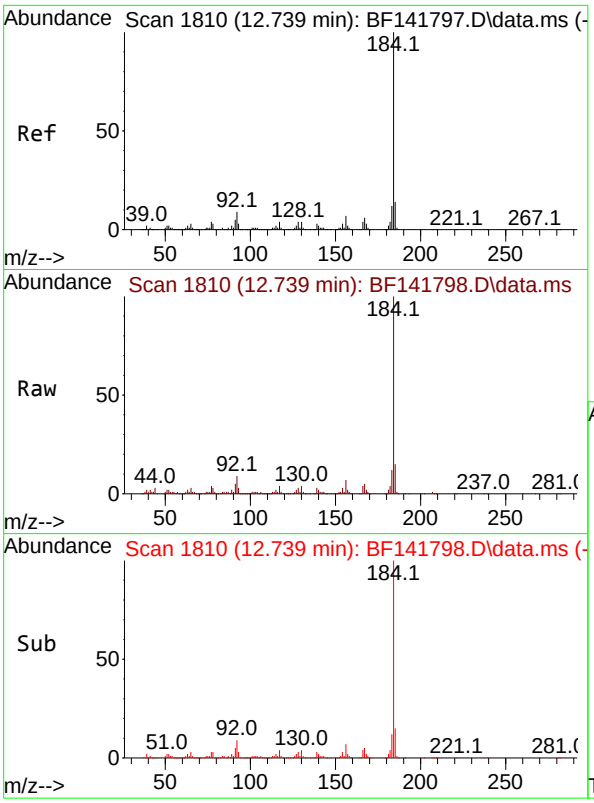




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:240 Resp: 571903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.2 | 9.7 | 14.5 |
| 236 | 25.8 | 21.0 | 31.4 |



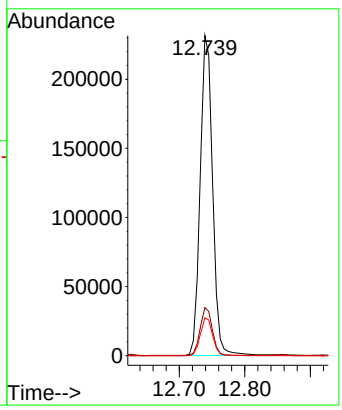


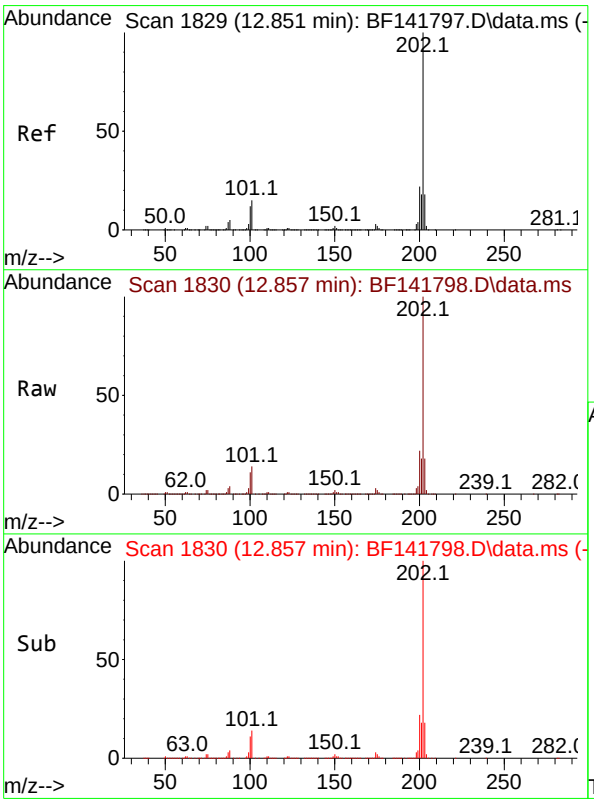

#77
Benzidine
Concen: 42.453 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:184 Resp: 305582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 15.0 | 11.6 | 17.4 |
| 183 | 11.8 | 9.4 | 14.0 |

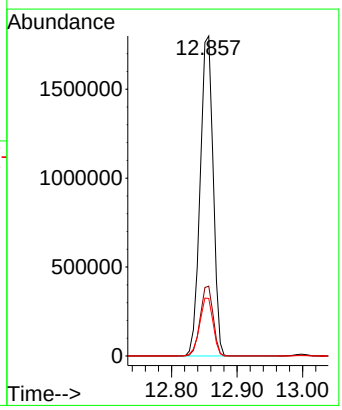


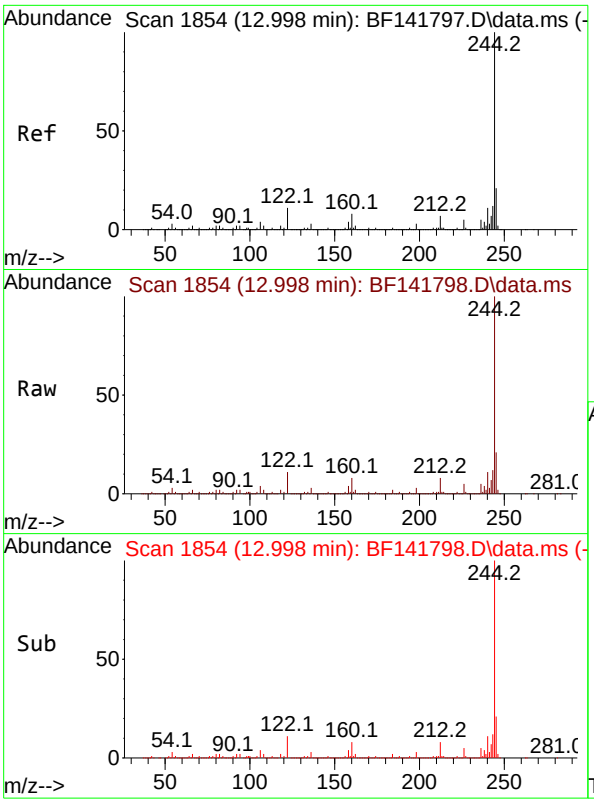




#78
Pyrene
Concen: 50.178 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:202 Resp: 2484995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.8 | 17.4 | 26.0 |
| 203 | 18.0 | 14.6 | 22.0 |



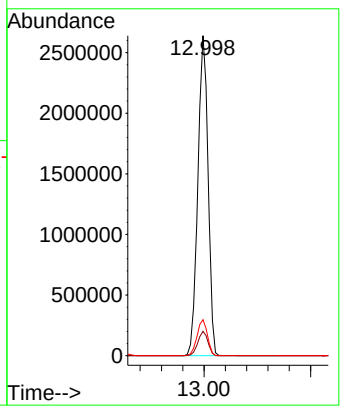


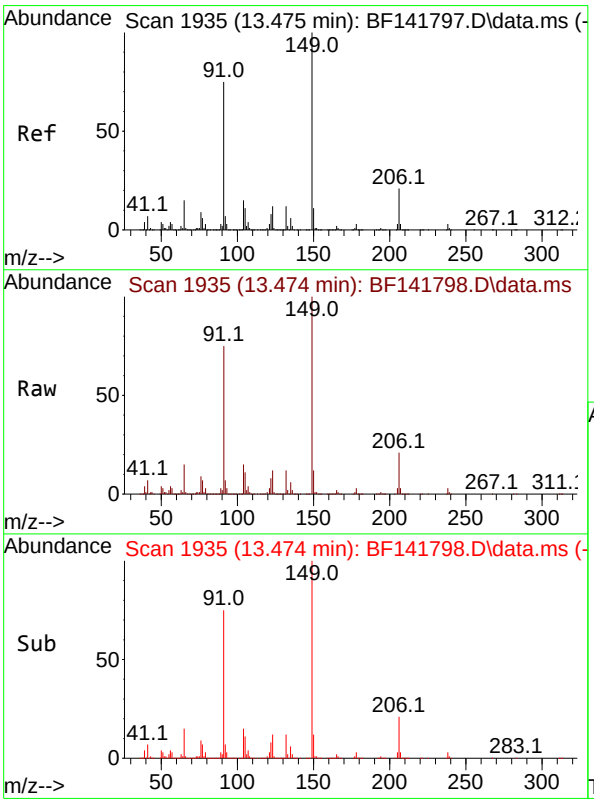

#79
Terphenyl-d14
Concen: 99.483 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:244 Resp: 3516535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.6 | 6.0 | 9.0 |
| 122 | 11.3 | 9.0 | 13.6 |

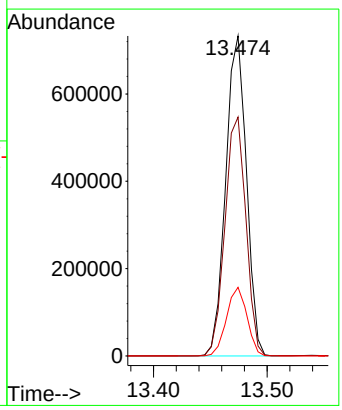


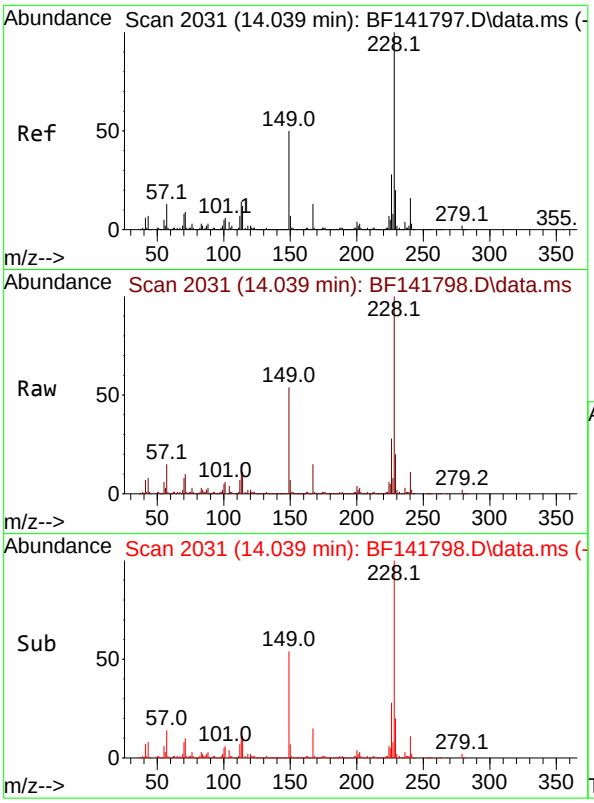




#80
Butylbenzylphthalate
Concen: 51.657 ng
RT: 13.474 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:149 Resp: 929464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 74.7 | 60.1 | 90.1 |
| 206 | 21.4 | 16.8 | 25.2 |



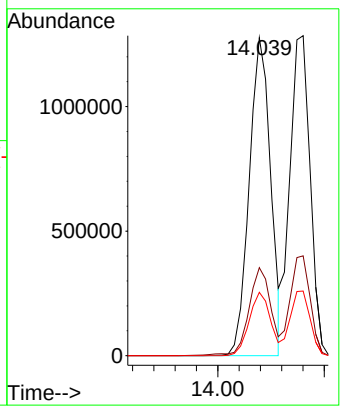


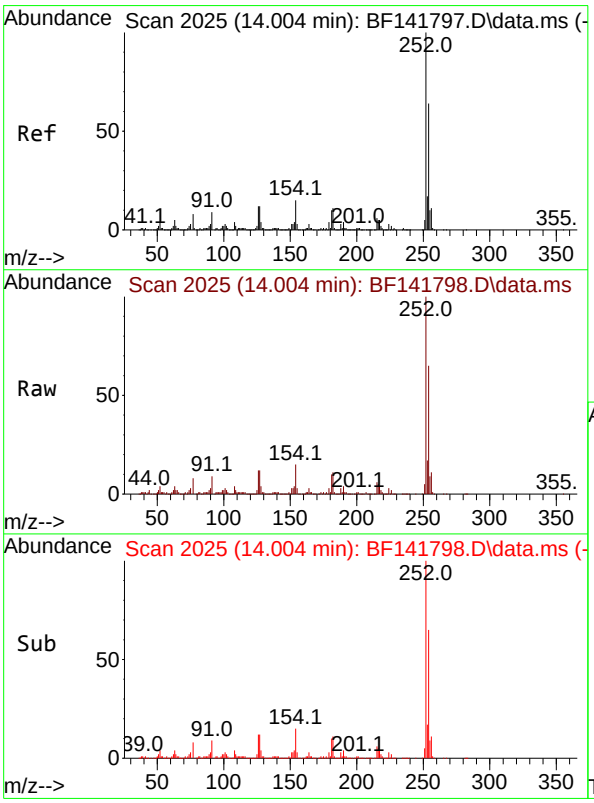

#81
Benzo(a)anthracene
Concen: 47.067 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:228 Resp: 1777948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.7 | 22.1 | 33.1 |
| 229 | 19.9 | 16.1 | 24.1 |

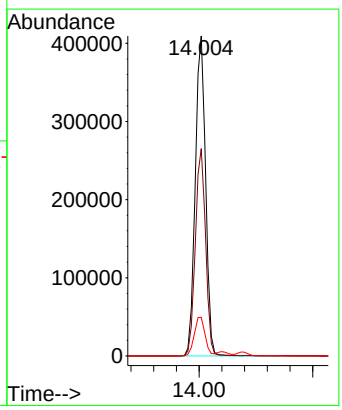


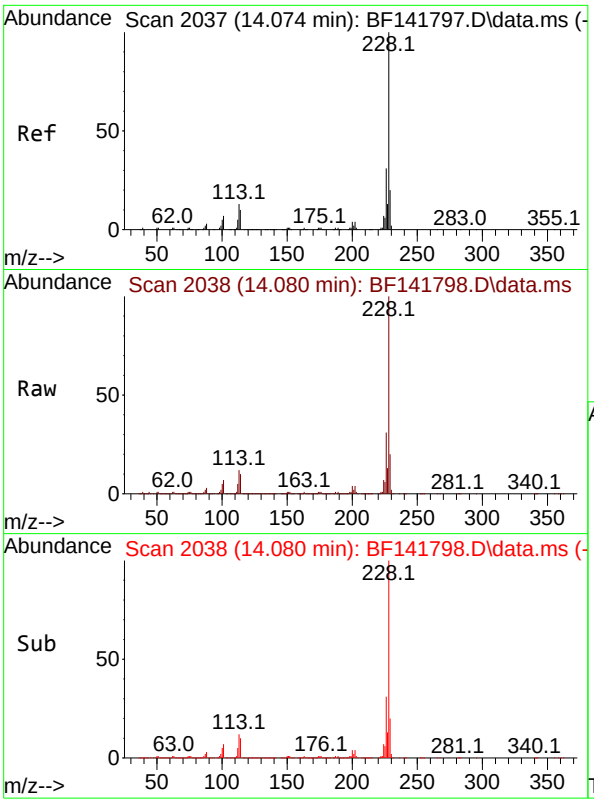




#82
3,3'-Dichlorobenzidine
Concen: 48.021 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:252 Resp: 520451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 64.8 | 51.4 | 77.0 |
| 126 | 12.1 | 9.8 | 14.6 |



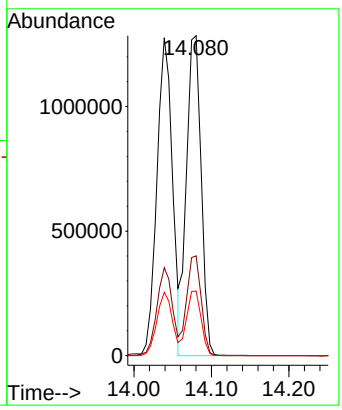


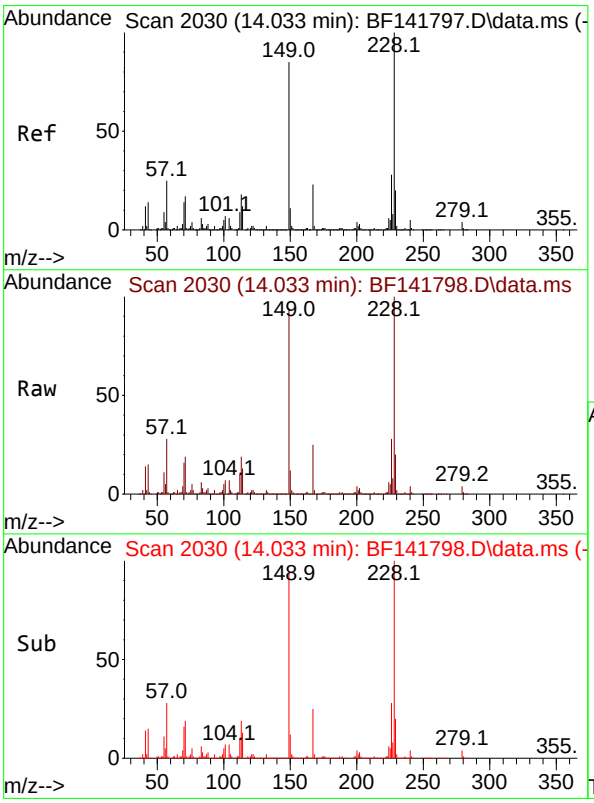

#83
Chrysene
Concen: 48.659 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:228 Resp: 1694396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.2 | 24.6 | 37.0 |
| 229 | 20.2 | 16.1 | 24.1 |

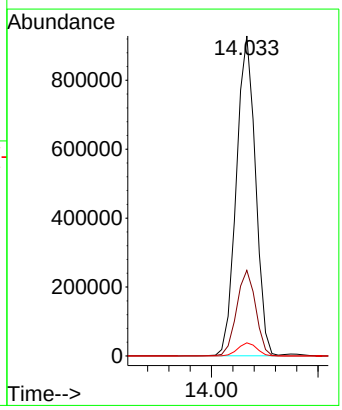


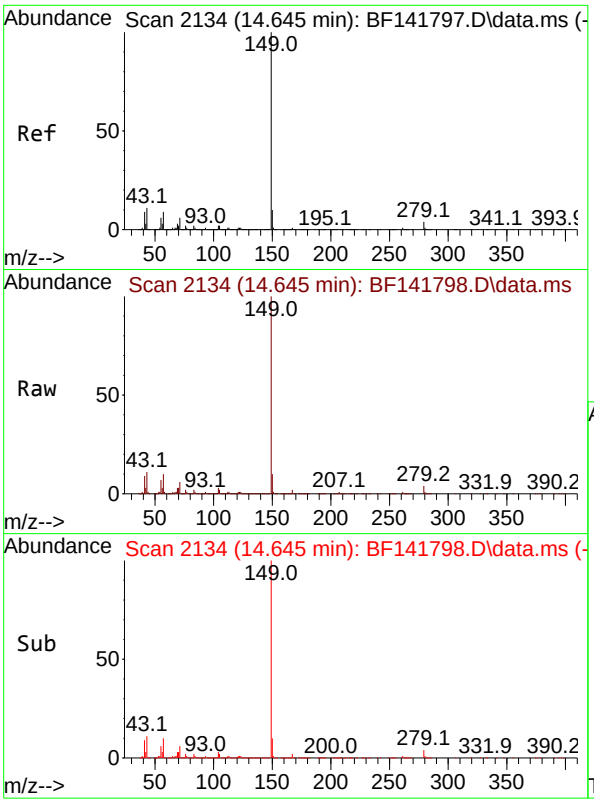




#84
Bis(2-ethylhexyl)phthalate
Concen: 51.766 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:149 Resp: 1159761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.8 | 21.2 | 31.8 |
| 279 | 4.1 | 3.3 | 4.9 |



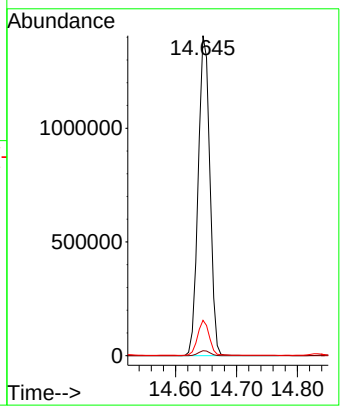


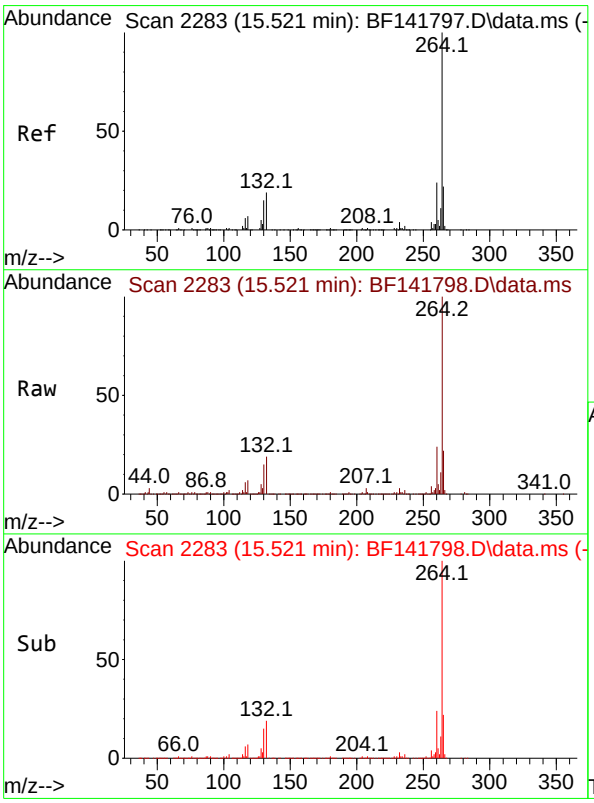

#85
Di-n-octyl phthalate
Concen: 55.606 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:149 Resp: 1865081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.2 | 1.8 |
| 43 | 10.8 | 8.6 | 12.8 |

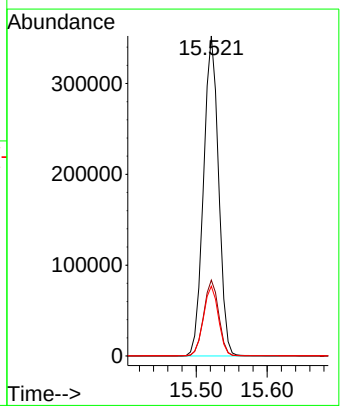


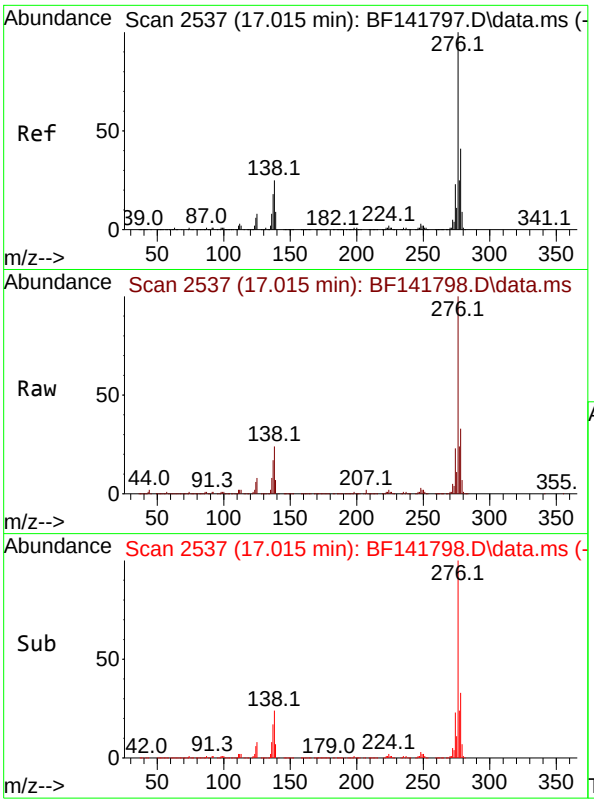




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:264 Resp: 520644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.7 | 18.9 | 28.3 |
| 265 | 21.8 | 17.4 | 26.0 |



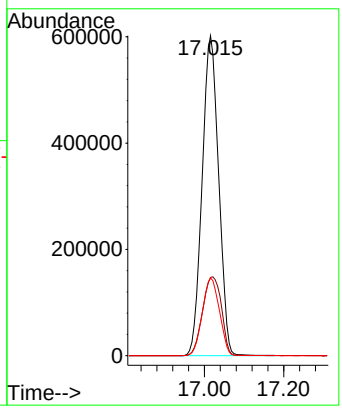


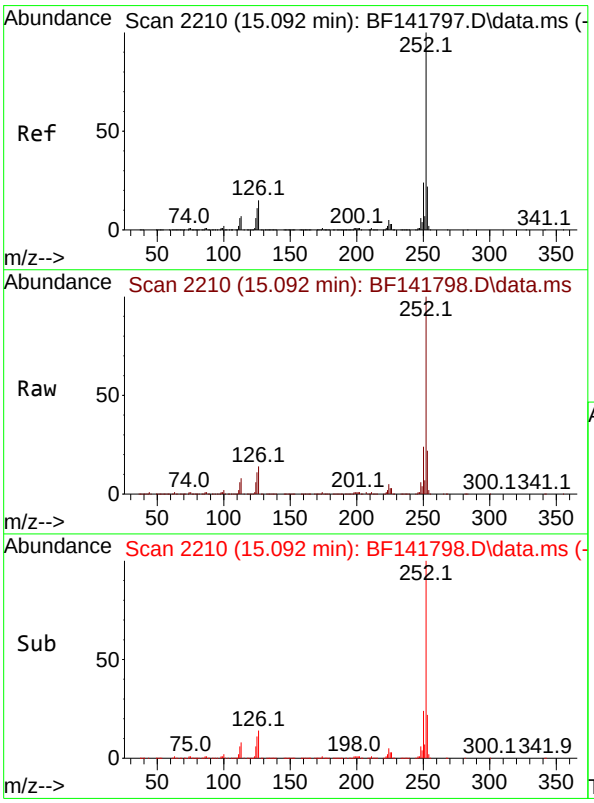

#87
Indeno(1,2,3-cd)pyrene
Concen: 52.510 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:276 Resp: 1740850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.1 | 22.5 | 33.7 |
| 277 | 25.1 | 20.3 | 30.5 |

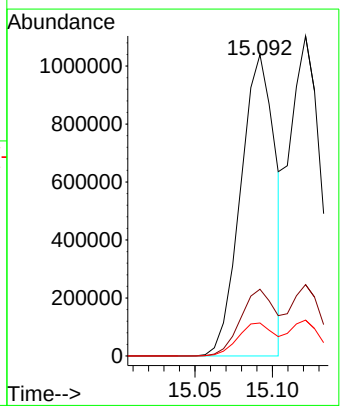


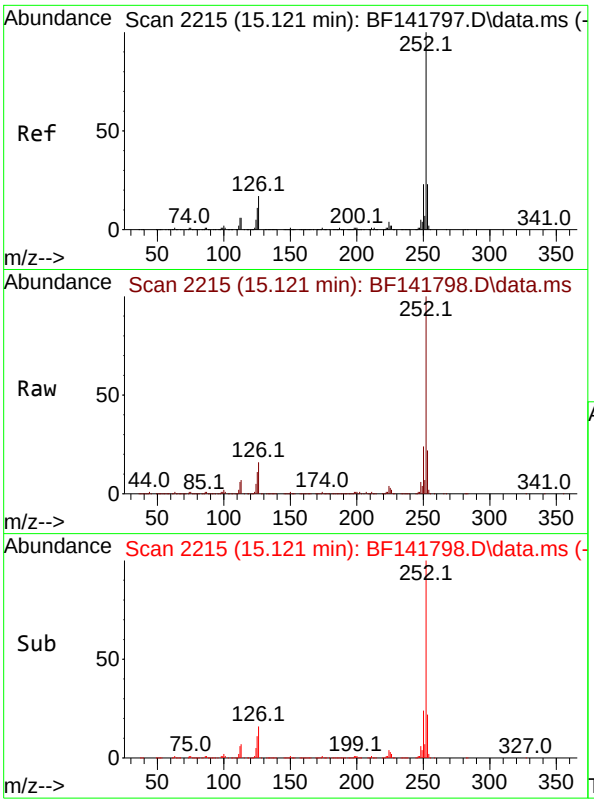




#88
Benzo(b)fluoranthene
Concen: 45.220 ng
RT: 15.092 min Scan# 2210
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:252 Resp: 1603729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 17.7 | 26.5 |
| 125 | 11.0 | 8.6 | 13.0 |



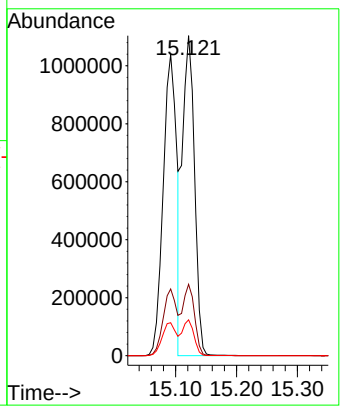


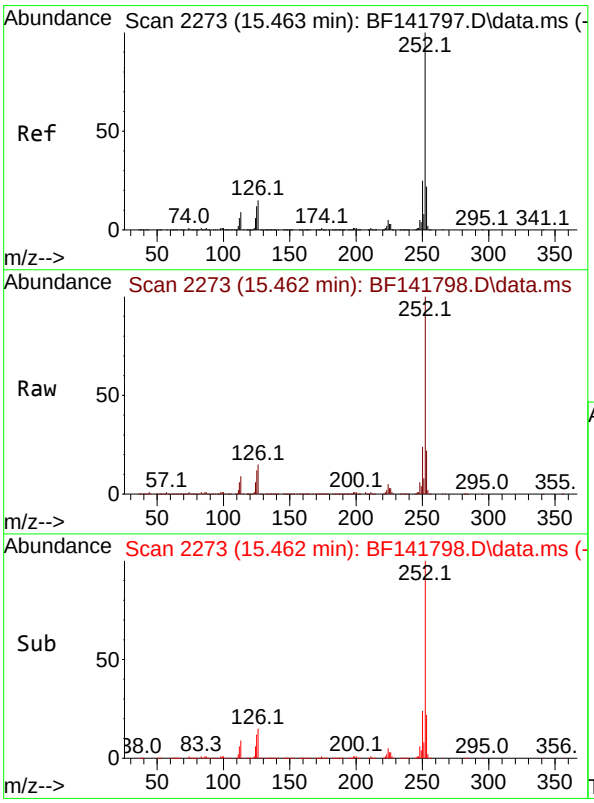

#89
Benzo(k)fluoranthene
Concen: 50.326 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:252 Resp: 1516995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.3 | 17.8 | 26.8 |
| 125 | 11.2 | 8.8 | 13.2 |

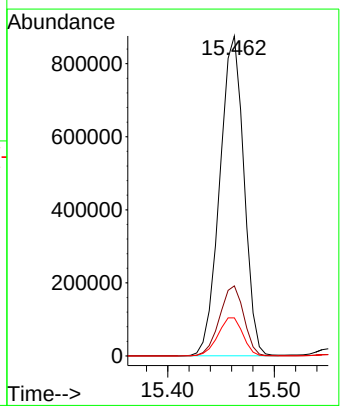


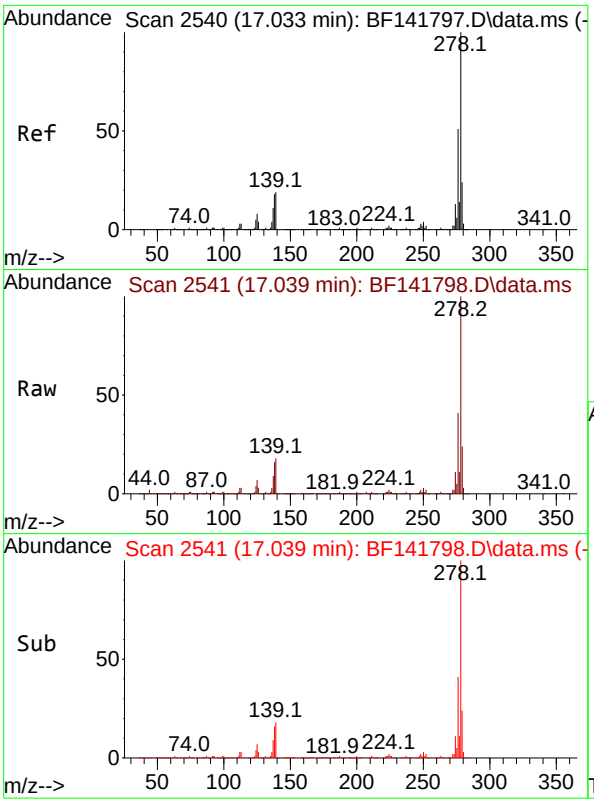




#90
Benzo(a)pyrene
Concen: 48.495 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:252 Resp: 1379319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.9 | 17.5 | 26.3 |
| 125 | 11.9 | 9.4 | 14.2 |



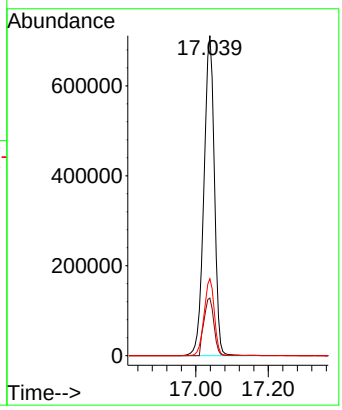


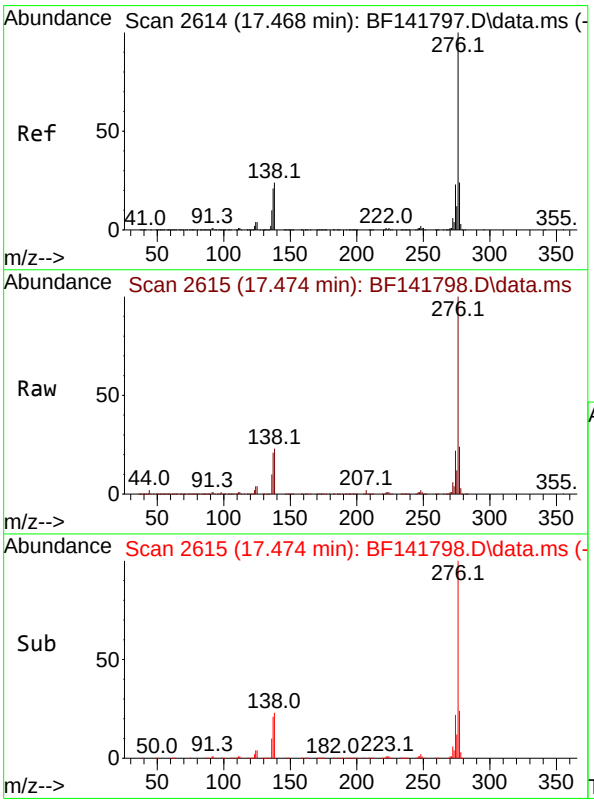

#91
Dibenzo(a,h)anthracene
Concen: 52.616 ng
RT: 17.039 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC050

Tgt Ion:278 Resp: 1423862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.0 | 14.9 | 22.3 |
| 279 | 24.1 | 19.3 | 28.9 |

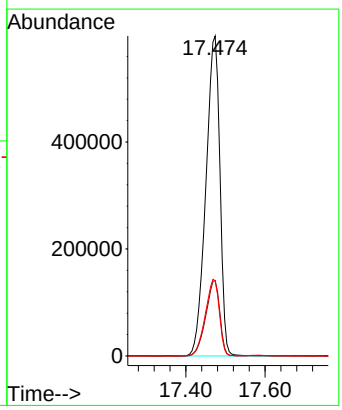



#92
Benzo(g,h,i)perylene
Concen: 53.005 ng
RT: 17.474 min Scan# 2615
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:276 Resp: 1469480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.6 | 19.4 | 29.0 |
| 138 | 23.5 | 19.3 | 28.9 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141799.D
Acq On : 27 Feb 2025 18:15
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Quant Time: Feb 28 01:27:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 297770 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 1163023 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.928 | 164 | 617087 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.416 | 188 | 999271 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.051 | 240 | 562939 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.521 | 264 | 517191 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.504 | 112 | 2100577 | 112.657 | ng | 0.00 |
| 7) Phenol-d6 | 6.516 | 99 | 2720970 | 112.117 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.457 | 82 | 2374498 | 130.503 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.716 | 330 | 725271 | 125.191 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.251 | 172 | 4223426 | 109.742 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.998 | 244 | 4143891 | 119.098 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.681 | 88 | 494559 | 58.455 | ng | 99 |
| 3) Pyridine | 3.451 | 79 | 1241030 | 58.955 | ng | 99 |
| 4) n-Nitrosodimethylamine | 3.410 | 42 | 612676 | 60.489 | ng | 98 |
| 6) Aniline | 6.557 | 93 | 1451456 | 57.840 | ng | 99 |
| 8) 2-Chlorophenol | 6.681 | 128 | 1130771 | 56.061 | ng | 99 |
| 9) Benzaldehyde | 6.445 | 77 | 736273 | 52.156 | ng | 99 |
| 10) Phenol | 6.534 | 94 | 1451317 | 56.130 | ng | 97 |
| 11) bis(2-Chloroethyl)ether | 6.634 | 93 | 1130421 | 57.184 | ng | 98 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 1215544 | 56.273 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 1230489 | 56.536 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.063 | 146 | 1134751 | 55.834 | ng | 100 |
| 15) Benzyl Alcohol | 7.034 | 79 | 1108848 | 57.170 | ng | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.169 | 45 | 1706347 | 56.838 | ng | 99 |
| 17) 2-Methylphenol | 7.134 | 107 | 968603 | 58.177 | ng | 99 |
| 18) Hexachloroethane | 7.404 | 117 | 473809 | 58.163 | ng | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.316 | 70 | 899573 | 56.387 | ng | 99 |
| 20) 3+4-Methylphenols | 7.292 | 107 | 1144144 | 55.188 | ng | 95 |
| 22) Acetophenone | 7.304 | 105 | 1588210 | 56.070 | ng | 99 |
| 24) Nitrobenzene | 7.475 | 77 | 1244392 | 63.867 | ng | 98 |
| 25) Isophorone | 7.716 | 82 | 2297900 | 58.786 | ng | 100 |
| 26) 2-Nitrophenol | 7.786 | 139 | 540018 | 60.712 | ng | 98 |
| 27) 2,4-Dimethylphenol | 7.822 | 122 | 832135 | 57.912 | ng | 100 |
| 28) bis(2-Chloroethoxy)met... | 7.922 | 93 | 1423641 | 57.094 | ng | 100 |
| 29) 2,4-Dichlorophenol | 8.028 | 162 | 981508 | 59.211 | ng | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.116 | 180 | 1051434 | 57.885 | ng | 100 |
| 31) Naphthalene | 8.198 | 128 | 3313144 | 55.427 | ng | 99 |
| 32) Benzoic acid | 7.957 | 122 | 749284 | 60.158 | ng | 99 |
| 33) 4-Chloroaniline | 8.245 | 127 | 1243216 | 56.723 | ng | 100 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 666891 | 59.082 | ng | 99 |
| 35) Caprolactam | 8.628 | 113 | 309453 | 60.671 | ng | 98 |
| 36) 4-Chloro-3-methylphenol | 8.716 | 107 | 1082457 | 58.783 | ng | 99 |
| 37) 2-Methylnaphthalene | 8.886 | 142 | 2160902 | 55.115 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.986 | 142 | 2071154 | 55.054 | ng | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.051 | 216 | 1024373 | 57.477 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 458054 | 61.586 | ng | 100 |
| 43) 2,4,6-Trichlorophenol | 9.157 | 196 | 681760 | 59.220 | ng | 99 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141799.D
Acq On : 27 Feb 2025 18:15
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Quant Time: Feb 28 01:27:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

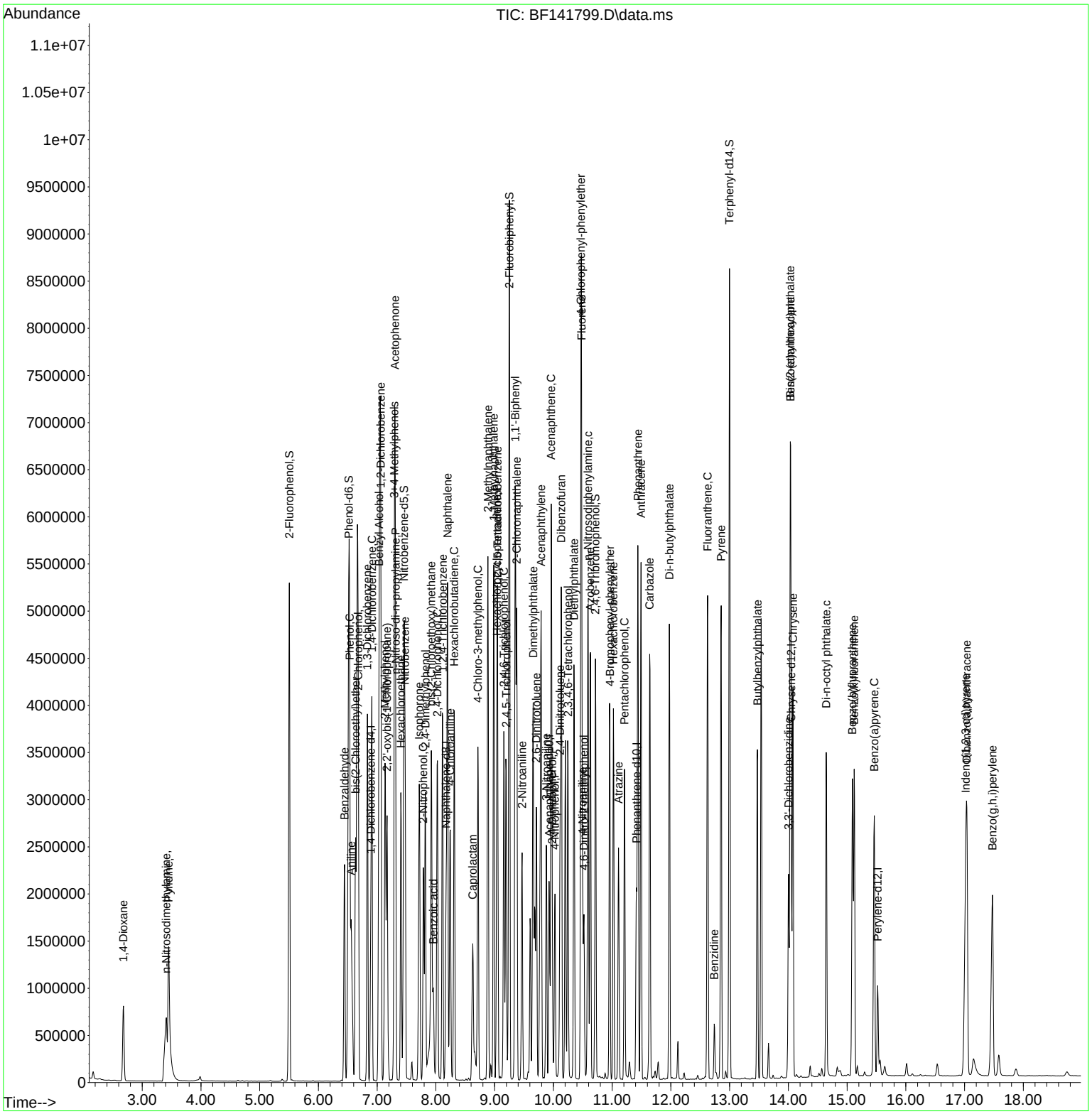
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.198 | 196 | 703662 | 61.725 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.351 | 154 | 2626139 | 55.911 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.375 | 162 | 1982513 | 57.187 | ng | | 99 |
| 48) 2-Nitroaniline | 9.469 | 65 | 590092 | 60.902 | ng | | 98 |
| 49) Acenaphthylene | 9.792 | 152 | 2954653 | 56.845 | ng | | 100 |
| 50) Dimethylphthalate | 9.657 | 163 | 2379542 | 57.581 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.710 | 165 | 491402 | 61.325 | ng | | 98 |
| 52) Acenaphthene | 9.963 | 154 | 2006502 | 57.211 | ng | | 99 |
| 53) 3-Nitroaniline | 9.880 | 138 | 521575 | 61.078 | ng | | 99 |
| 54) 2,4-Dinitrophenol | 9.980 | 184 | 207307 | 62.312 | ng | # | 13 |
| 55) Dibenzofuran | 10.133 | 168 | 2854091 | 55.911 | ng | | 99 |
| 56) 4-Nitrophenol | 10.028 | 139 | 424581 | 69.564 | ng | | 100 |
| 57) 2,4-Dinitrotoluene | 10.116 | 165 | 601539 | 61.246 | ng | | 99 |
| 58) Fluorene | 10.480 | 166 | 2099887 | 54.917 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.251 | 232 | 596455 | 60.159 | ng | | 99 |
| 60) Diethylphthalate | 10.351 | 149 | 2360216 | 56.972 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 1079059 | 56.324 | ng | | 98 |
| 62) 4-Nitroaniline | 10.498 | 138 | 490806 | 69.546 | ng | | 99 |
| 63) Azobenzene | 10.627 | 77 | 2453259 | 56.242 | ng | | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.522 | 198 | 300954 | 61.255 | ng | | 99 |
| 66) n-Nitrosodiphenylamine | 10.592 | 169 | 1867463 | 56.913 | ng | | 98 |
| 67) 4-Bromophenyl-phenylether | 10.963 | 248 | 688777 | 59.012 | ng | | 97 |
| 68) Hexachlorobenzene | 11.022 | 284 | 726507 | 58.945 | ng | | 98 |
| 69) Atrazine | 11.110 | 200 | 416878 | 46.200 | ng | | 100 |
| 70) Pentachlorophenol | 11.210 | 266 | 492228 | 62.968 | ng | | 99 |
| 71) Phenanthrene | 11.439 | 178 | 3002094 | 56.165 | ng | | 99 |
| 72) Anthracene | 11.492 | 178 | 2966353 | 55.373 | ng | | 99 |
| 73) Carbazole | 11.639 | 167 | 2612132 | 55.217 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.974 | 149 | 3338525 | 55.675 | ng | | 99 |
| 75) Fluoranthene | 12.627 | 202 | 2940034 | 53.680 | ng | | 99 |
| 77) Benzidine | 12.739 | 184 | 306135 | 43.207 | ng | | 99 |
| 78) Pyrene | 12.857 | 202 | 2927964 | 60.064 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 1126511 | 63.605 | ng | | 100 |
| 81) Benzo(a)anthracene | 14.039 | 228 | 2130928 | 57.309 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 614898 | 57.639 | ng | | 100 |
| 83) Chrysene | 14.080 | 228 | 2040957 | 59.545 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 1398602 | 63.421 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.645 | 149 | 2225625 | 67.411 | ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 17.021 | 276 | 2127125 | 64.589 | ng | | 100 |
| 88) Benzo(b)fluoranthene | 15.092 | 252 | 2126076 | 60.349 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.121 | 252 | 1614240 | 53.909 | ng | | 100 |
| 90) Benzo(a)pyrene | 15.462 | 252 | 1676196 | 59.327 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.039 | 278 | 1708189 | 63.544 | ng | | 100 |
| 92) Benzo(g,h,i)perylene | 17.474 | 276 | 1792957 | 65.105 | ng | | 99 |

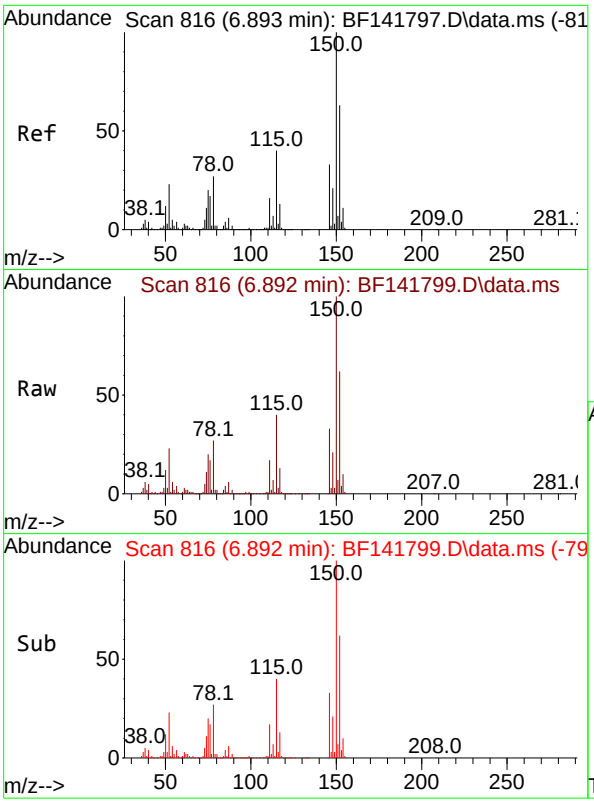
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141799.D
Acq On : 27 Feb 2025 18:15
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Quant Time: Feb 28 01:27:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration



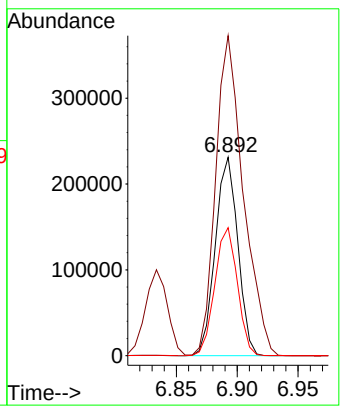


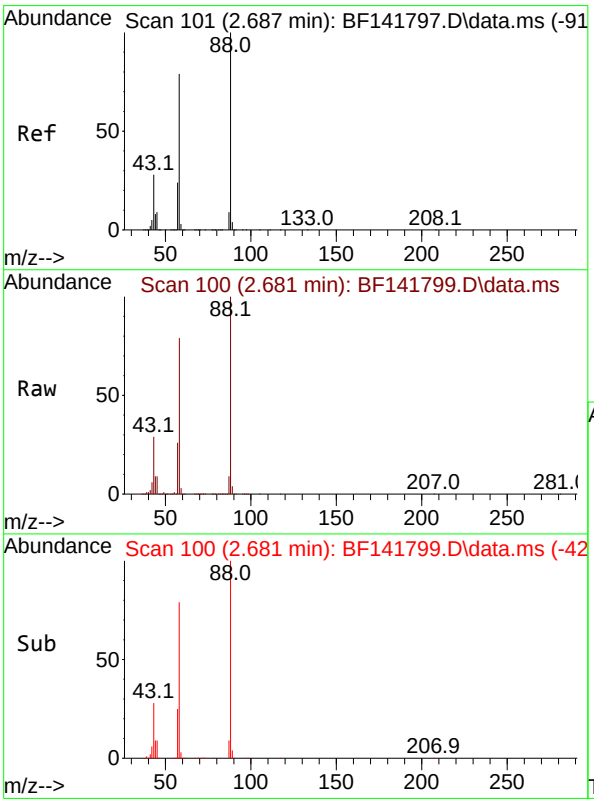

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. -0.001 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:152 Resp: 297770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 161.3 | 127.5 | 191.3 |
| 115 | 64.5 | 51.4 | 77.2 |

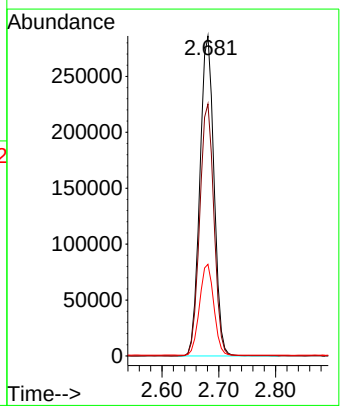


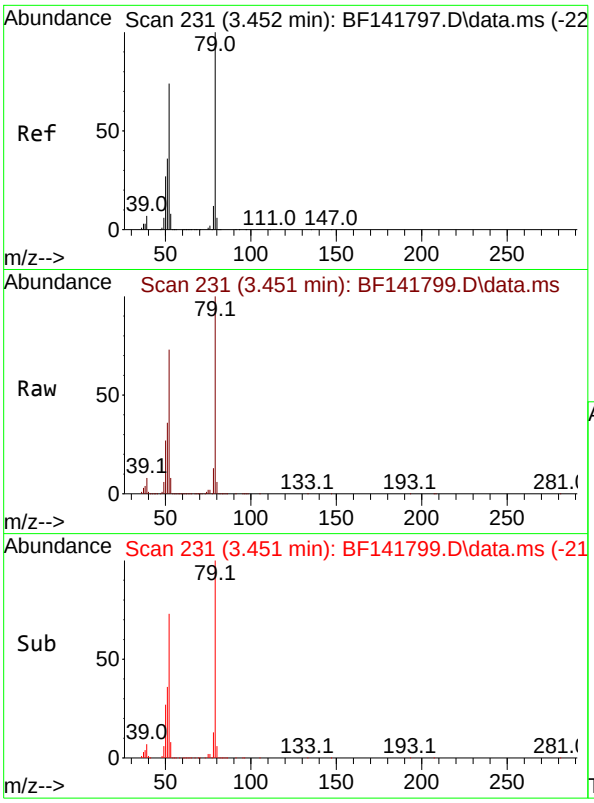




#2
1,4-Dioxane
Concen: 58.455 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 88 Resp: 494559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 79.2 | 63.9 | 95.9 |
| 43 | 28.6 | 23.0 | 34.6 |



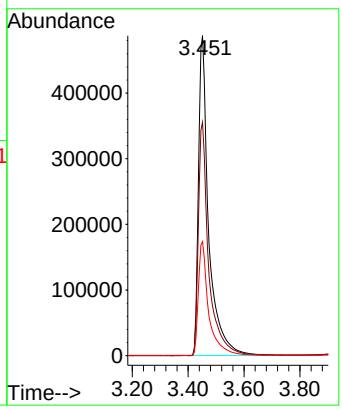


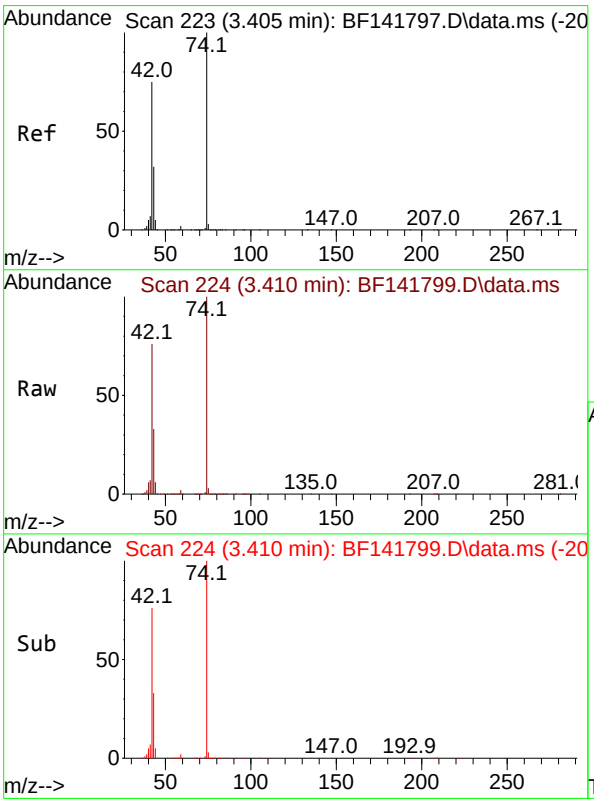

#3
Pyridine
Concen: 58.955 ng
RT: 3.451 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 79 Resp: 1241030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 73.0 | 59.0 | 88.4 |
| 51 | 35.6 | 29.0 | 43.4 |

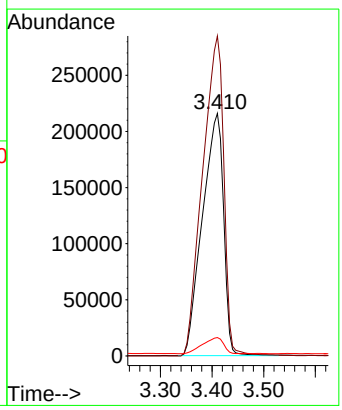


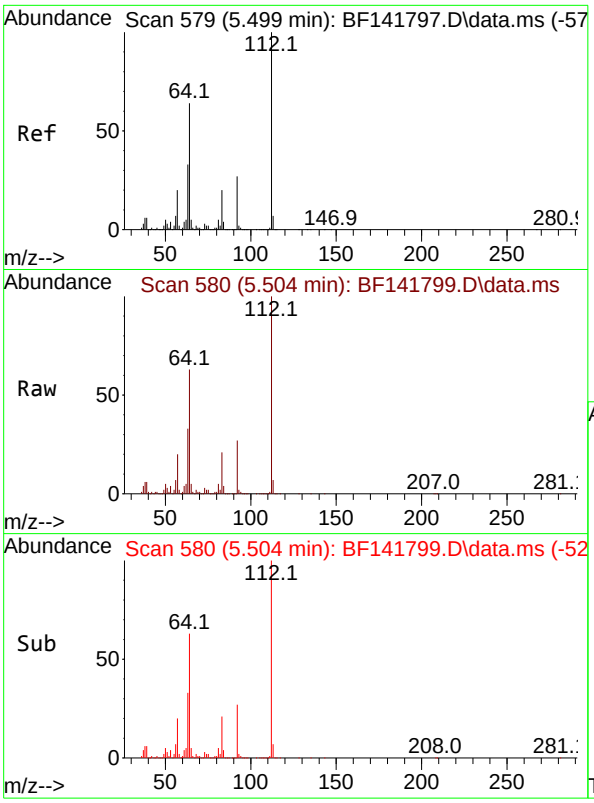




#4
n-Nitrosodimethylamine
Concen: 60.489 ng
RT: 3.410 min Scan# 224
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 42 Resp: 612676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 131.9 | 107.1 | 160.7 |
| 44 | 7.6 | 6.6 | 9.8 |



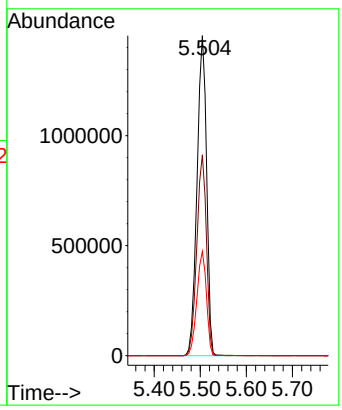


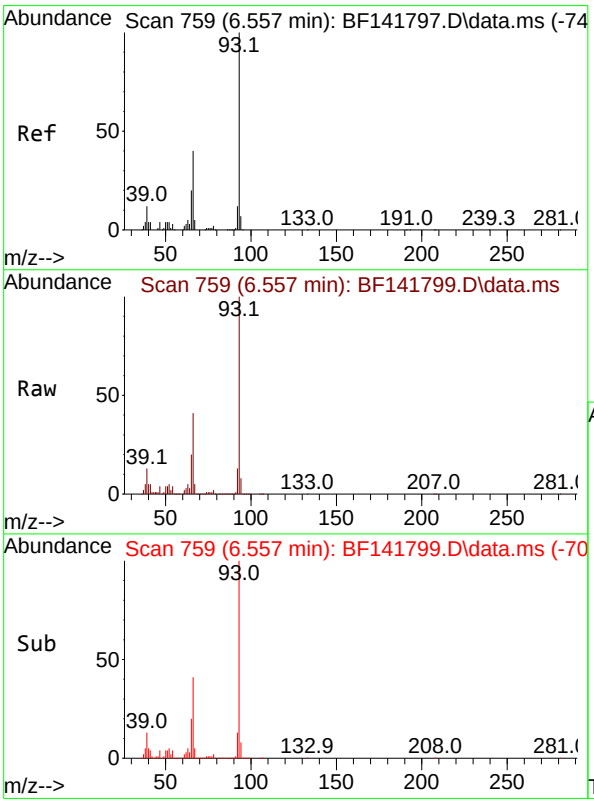

#5
2-Fluorophenol
Concen: 112.657 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:112 Resp: 2100577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 62.8 | 51.3 | 76.9 |
| 63 | 32.6 | 26.2 | 39.4 |

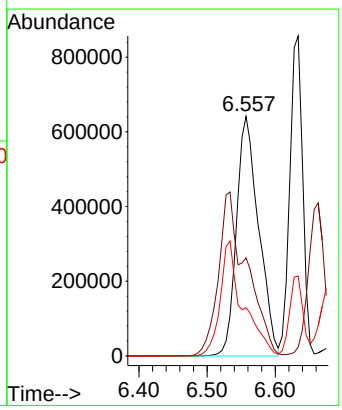


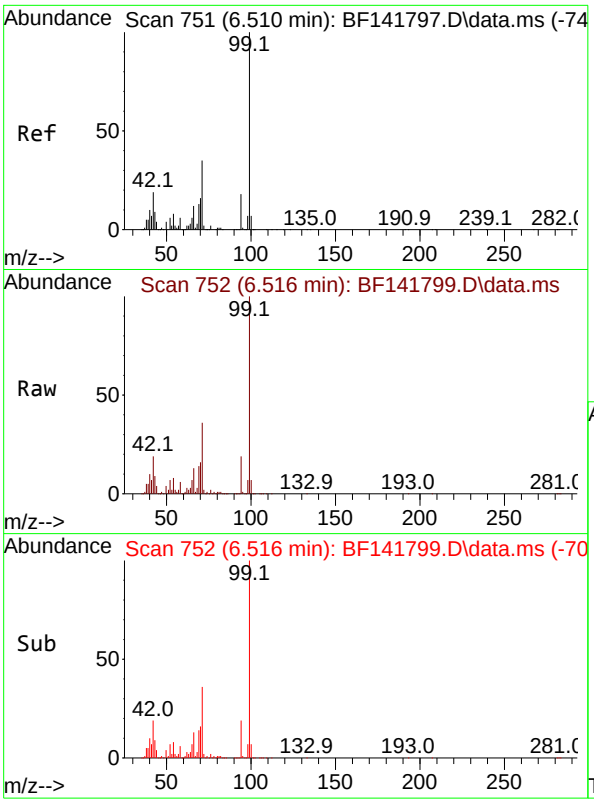




#6
Aniline
Concen: 57.840 ng
RT: 6.557 min Scan# 759
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 93 Resp: 1451456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 41.0 | 32.3 | 48.5 |
| 65 | 20.2 | 15.9 | 23.9 |



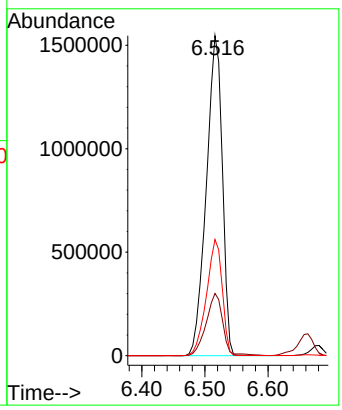


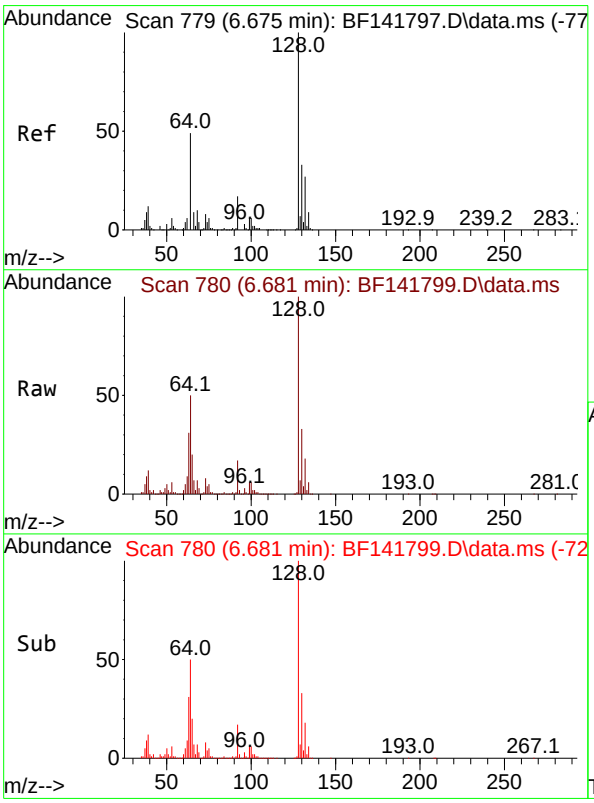

#7
Phenol-d6
Concen: 112.117 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 99 Resp: 2720970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.5 | 15.2 | 22.8 |
| 71 | 36.3 | 28.2 | 42.2 |

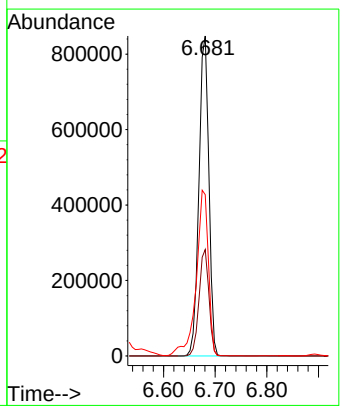


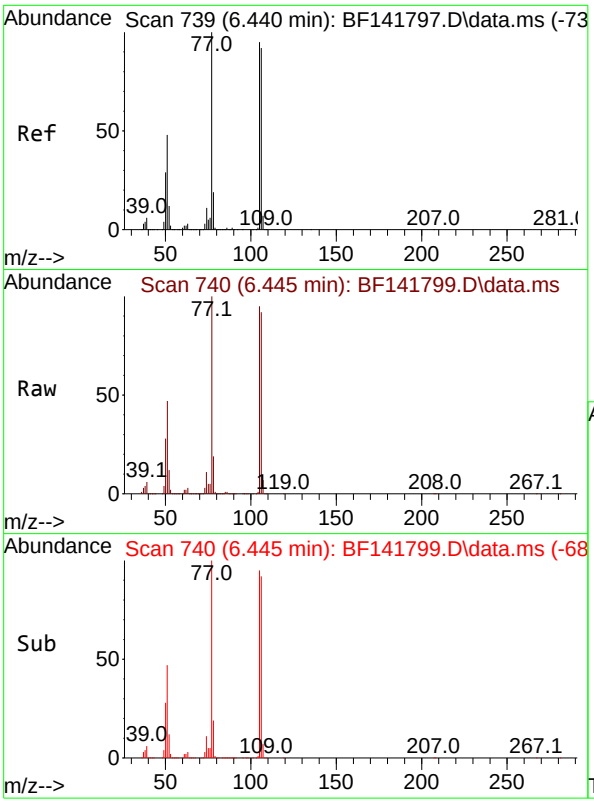




#8
2-Chlorophenol
Concen: 56.061 ng
RT: 6.681 min Scan# 780
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:128 Resp: 1130771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 33.3 | 12.6 | 52.6 |
| 64 | 50.4 | 31.1 | 71.1 |



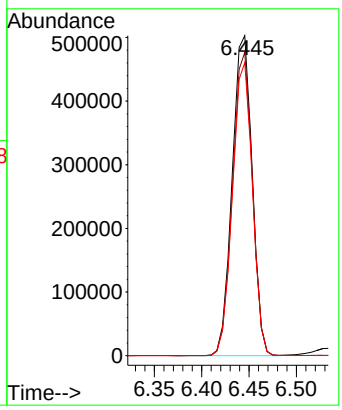


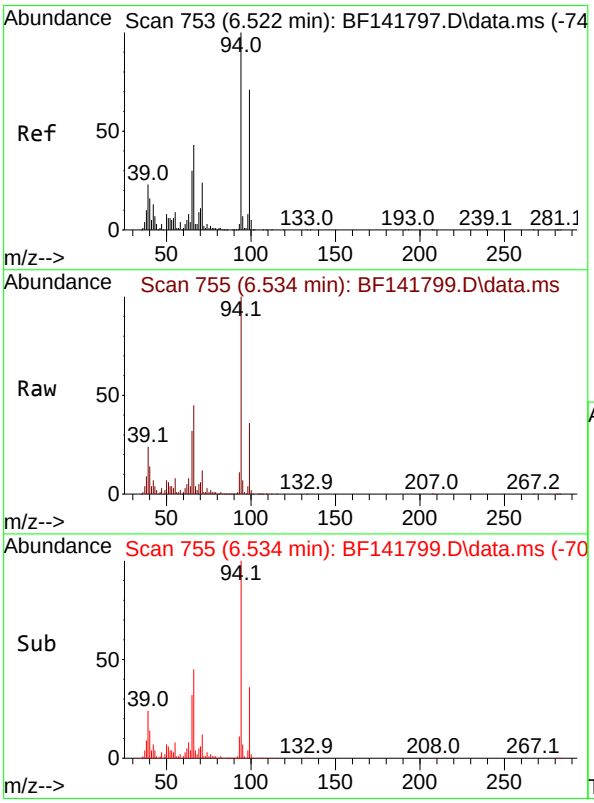

#9
Benzaldehyde
Concen: 52.156 ng
RT: 6.445 min Scan# 74
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 77 Resp: 736273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 94.7 | 75.3 | 115.3 |
| 106 | 91.6 | 72.3 | 112.3 |

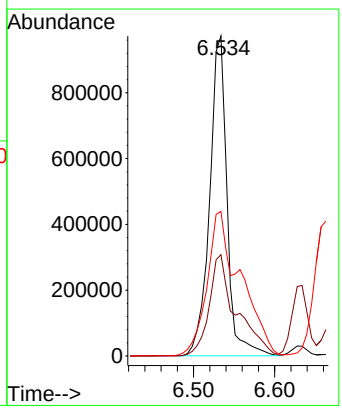


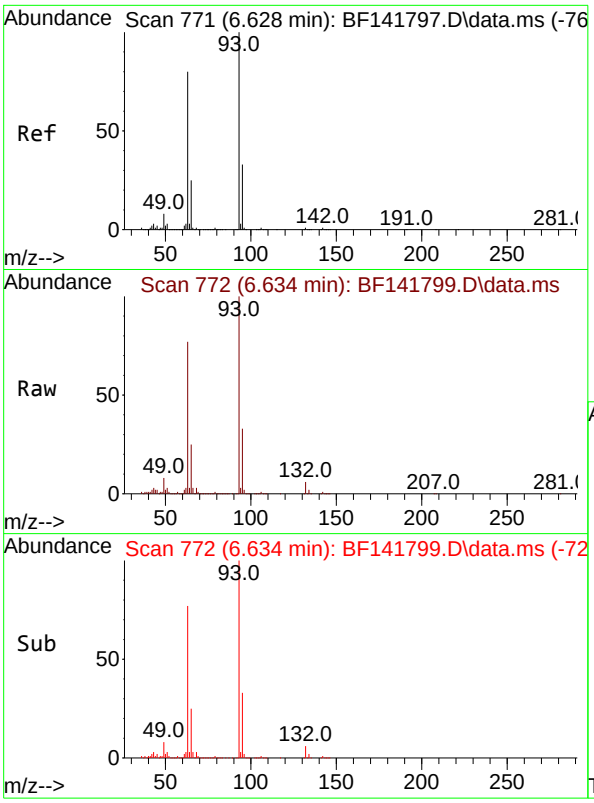




#10
Phenol
Concen: 56.130 ng
RT: 6.534 min Scan# 755
Delta R.T. 0.012 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 94 Resp: 1451317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 31.7 | 10.2 | 50.2 |
| 66 | 45.1 | 23.2 | 63.2 |



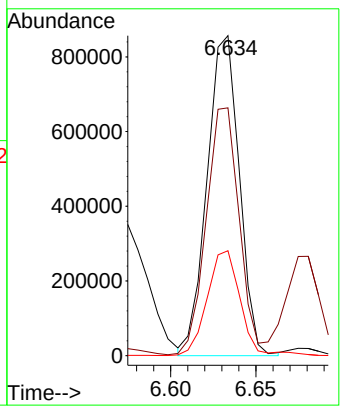


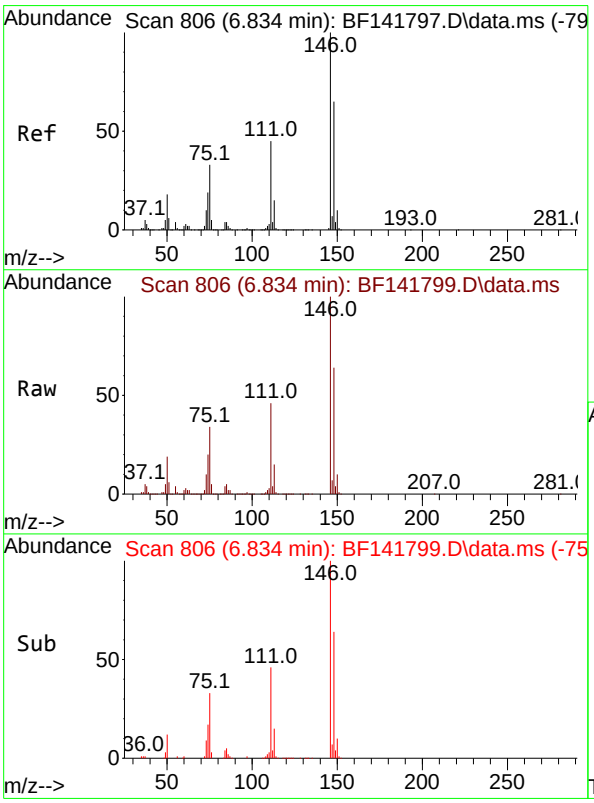

#11
bis(2-Chloroethyl)ether
Concen: 57.184 ng
RT: 6.634 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 93 Resp: 1130421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 77.4 | 59.3 | 99.3 |
| 95 | 32.8 | 13.2 | 53.2 |

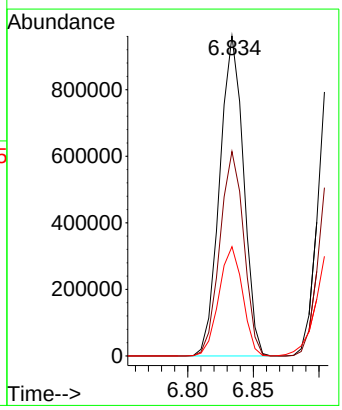


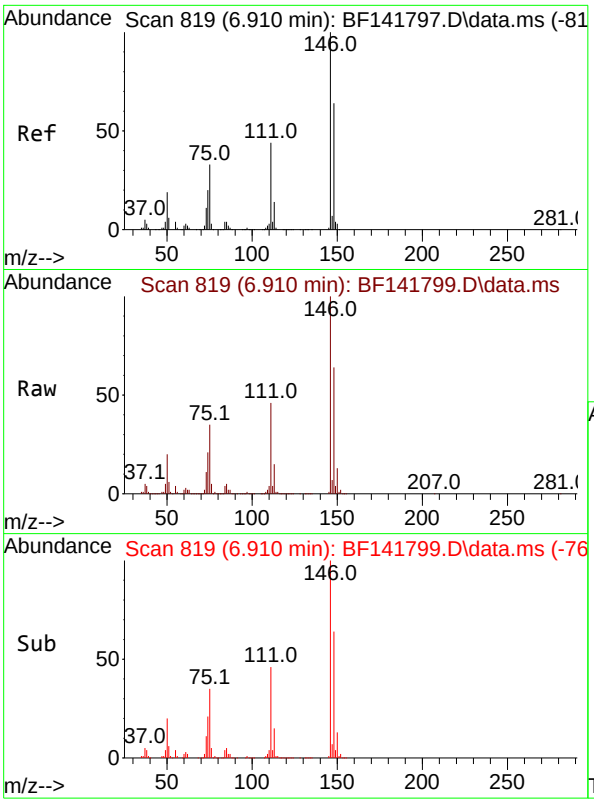




#12
1,3-Dichlorobenzene
Concen: 56.273 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:146 Resp: 1215544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.9 | 51.8 | 77.6 |
| 75 | 34.1 | 26.2 | 39.4 |



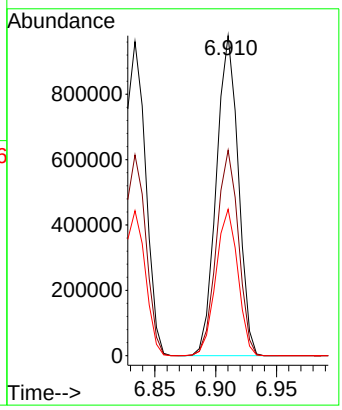


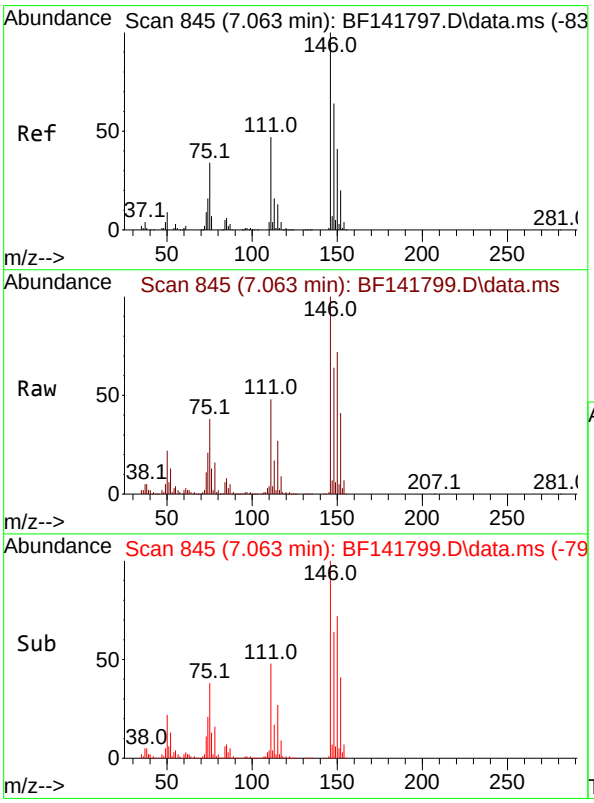

#13
1,4-Dichlorobenzene
Concen: 56.536 ng
RT: 6.910 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:146 Resp: 1230489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.2 | 51.4 | 77.2 |
| 111 | 45.8 | 35.5 | 53.3 |

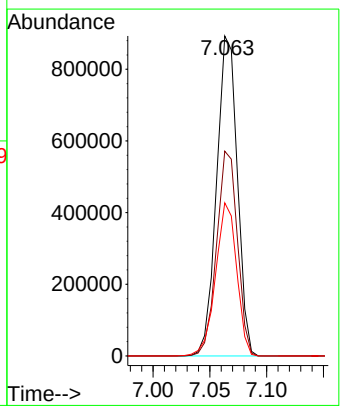


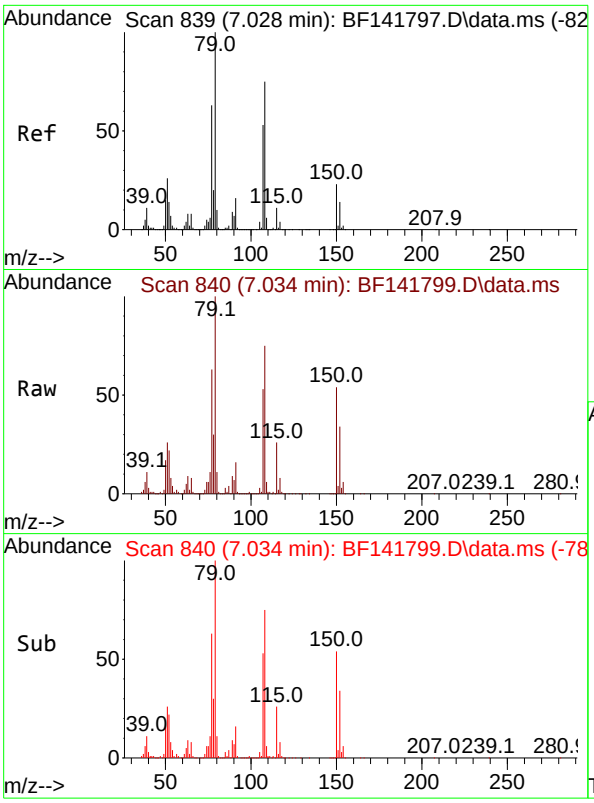




#14
1,2-Dichlorobenzene
Concen: 55.834 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:146 Resp: 1134751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.0 | 51.2 | 76.8 |
| 111 | 47.8 | 37.8 | 56.6 |



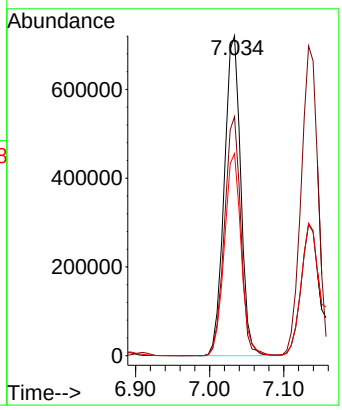


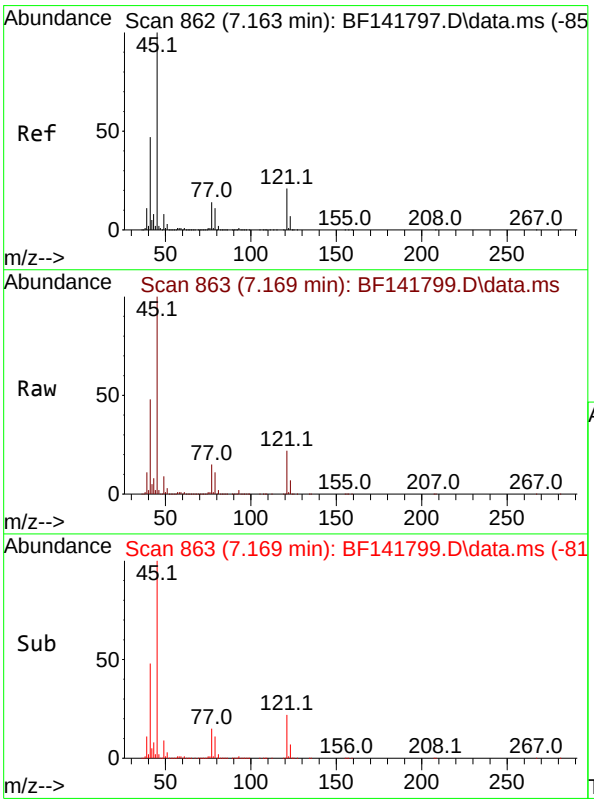

#15
Benzyl Alcohol
Concen: 57.170 ng
RT: 7.034 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 79 Resp: 1108848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 74.7 | 60.2 | 90.2 |
| 77 | 63.2 | 50.2 | 75.2 |

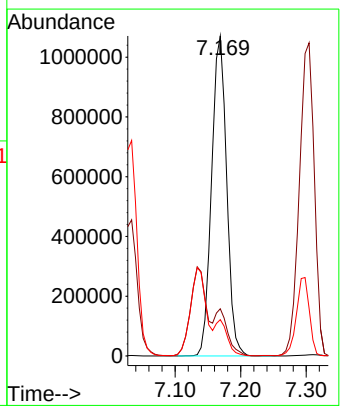


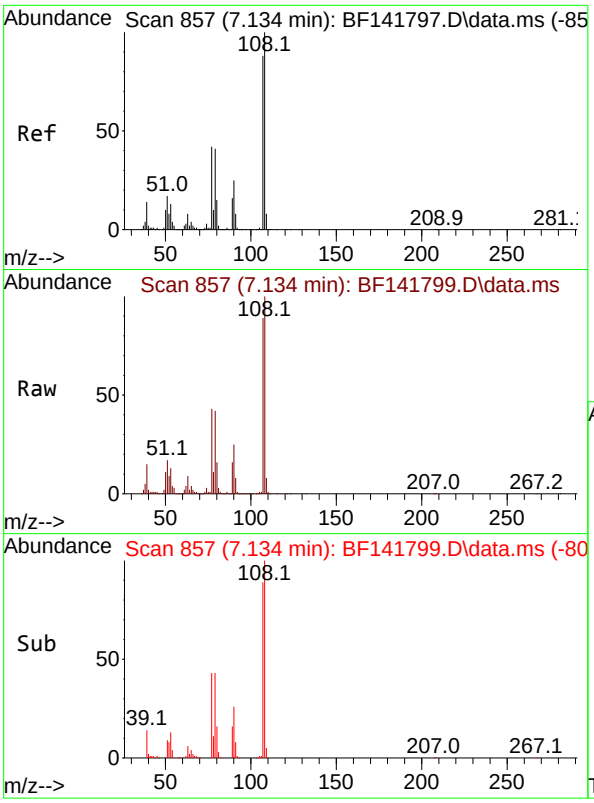




#16
2,2'-oxybis(1-Chloropropane)
Concen: 56.838 ng
RT: 7.169 min Scan# 863
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 45 Resp: 1706347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 14.7 | 0.0 | 34.4 |
| 79 | 11.4 | 0.0 | 30.9 |



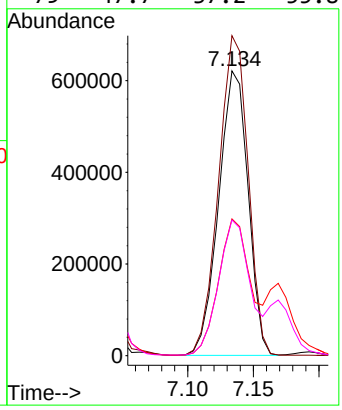


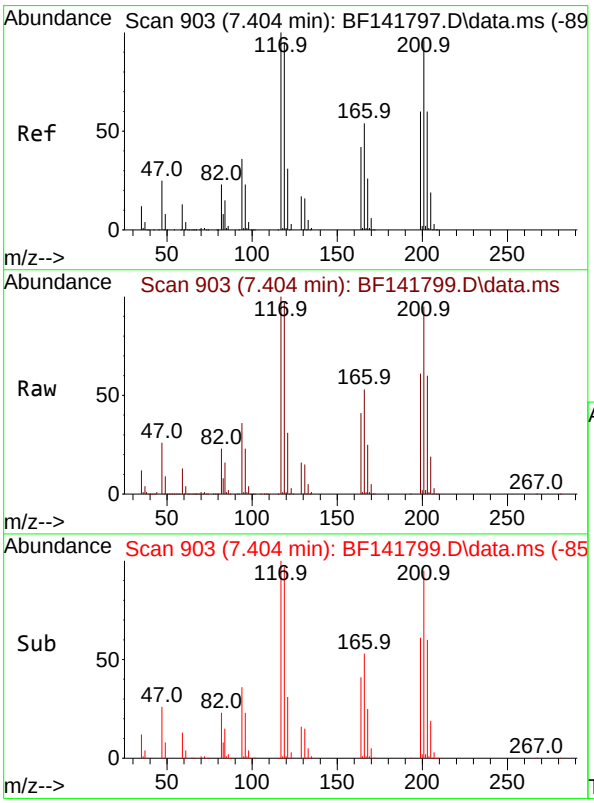

#17
2-Methylphenol
Concen: 58.177 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:107 Resp: 968603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 112.4 | 90.6 | 135.8 |
| 77 | 48.0 | 37.7 | 56.5 |
| 79 | 47.7 | 37.2 | 55.8 |

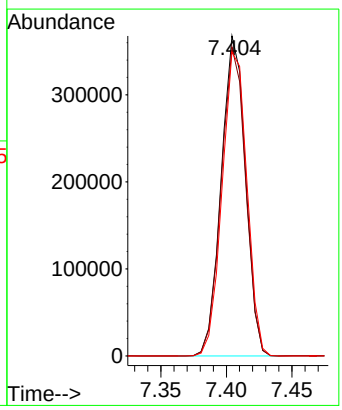


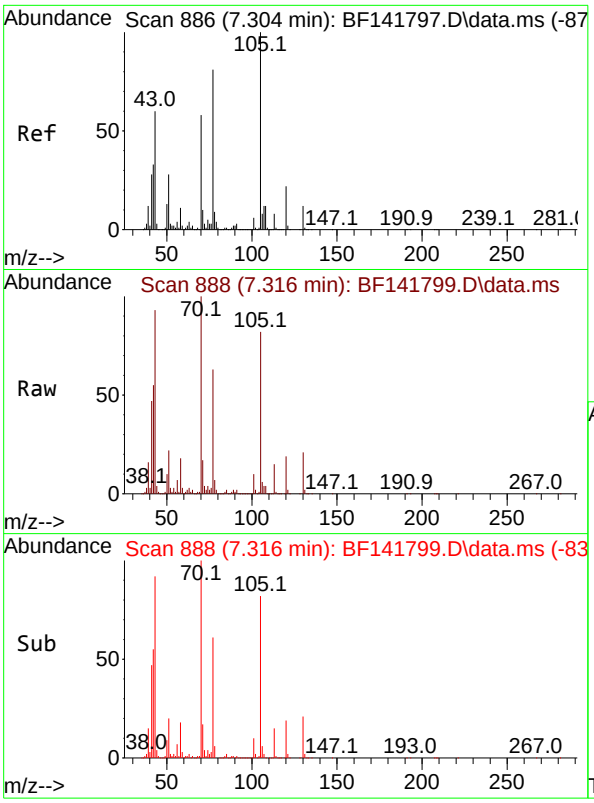




#18
Hexachloroethane
Concen: 58.163 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:117 Resp: 473809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.5 | 75.8 | 113.8 |
| 201 | 95.0 | 76.7 | 115.1 |



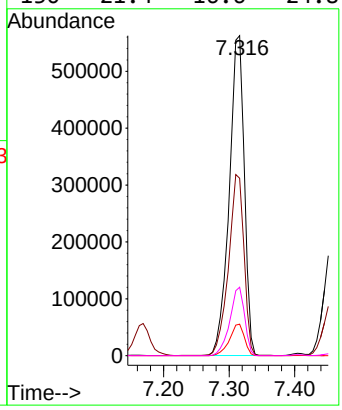


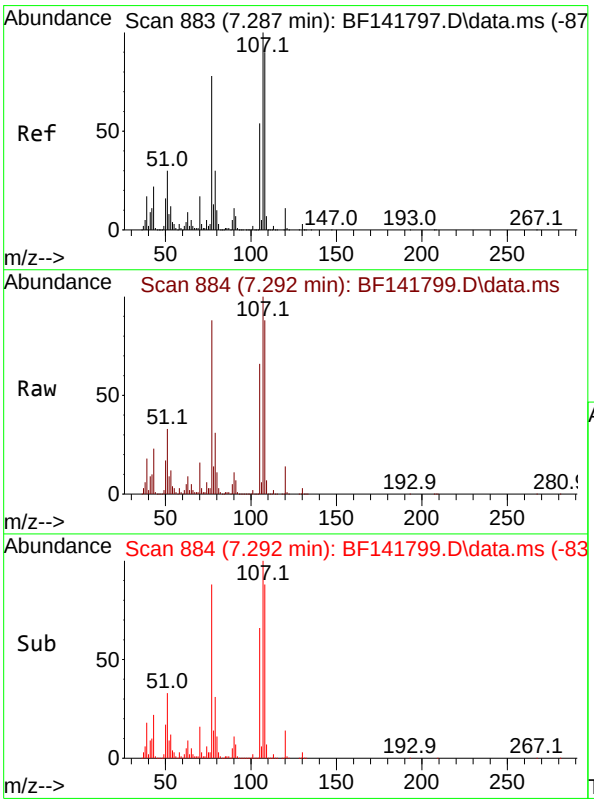

#19
n-Nitroso-di-n-propylamine
Concen: 56.387 ng
RT: 7.316 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 70 Resp: 899573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 55.5 | 45.4 | 68.0 |
| 101 | 9.9 | 7.8 | 11.8 |
| 130 | 21.4 | 16.6 | 24.8 |

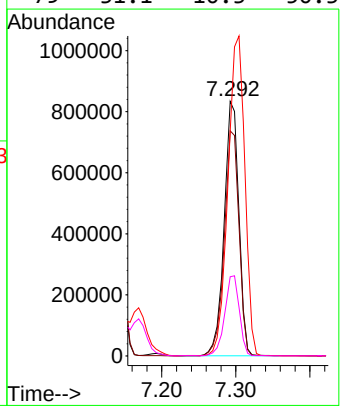


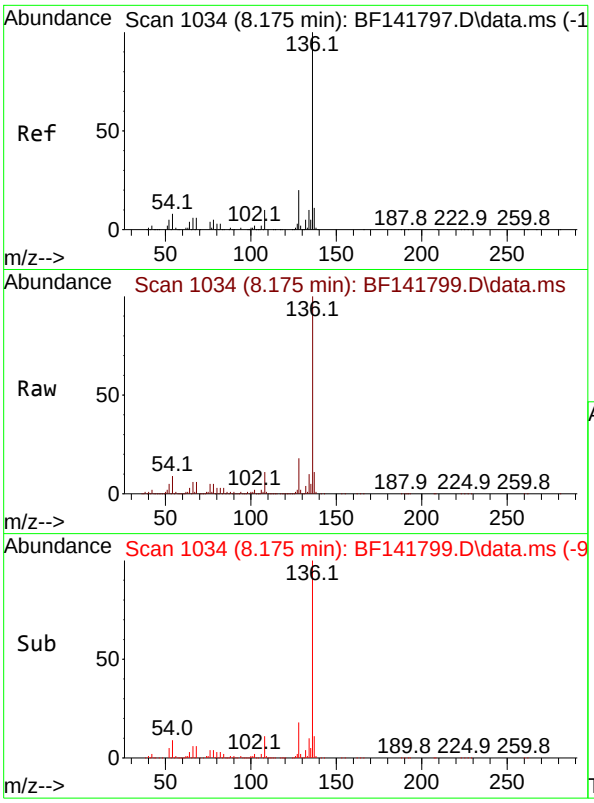




#20
3+4-Methylphenols
Concen: 55.188 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:107 Resp: 1144144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 88.4 | 69.7 | 109.7 |
| 77 | 88.3 | 58.3 | 98.3 |
| 79 | 31.1 | 10.3 | 50.3 |



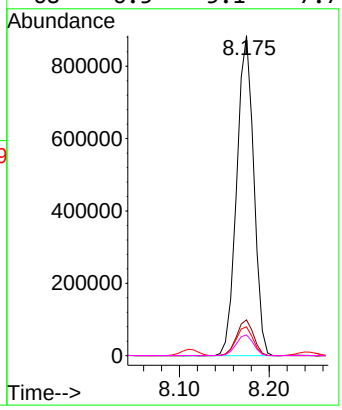


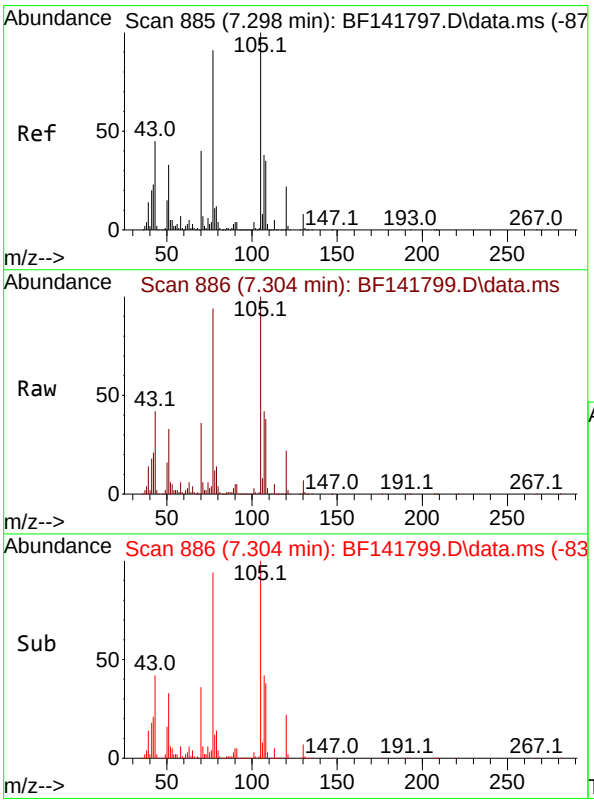

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:136 Resp: 1163023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 8.9 | 13.3 |
| 54 | 9.0 | 6.9 | 10.3 |
| 68 | 6.5 | 5.1 | 7.7 |

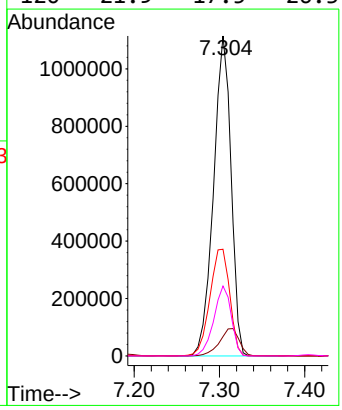


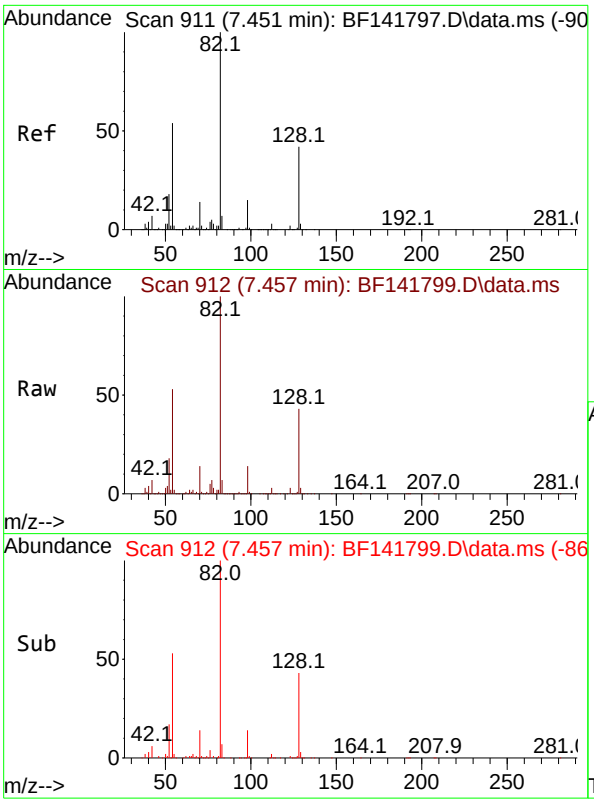




#22
Acetophenone
Concen: 56.070 ng
RT: 7.304 min Scan# 886
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:105 Resp: 1588210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 6.1 | 5.4 | 8.0 |
| 51 | 33.4 | 26.1 | 39.1 |
| 120 | 21.9 | 17.5 | 26.3 |



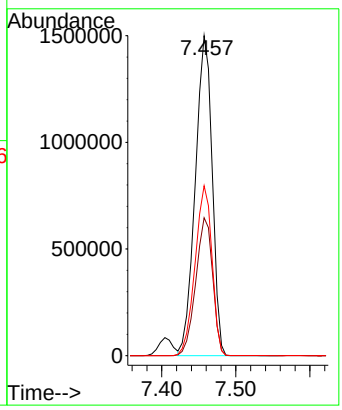


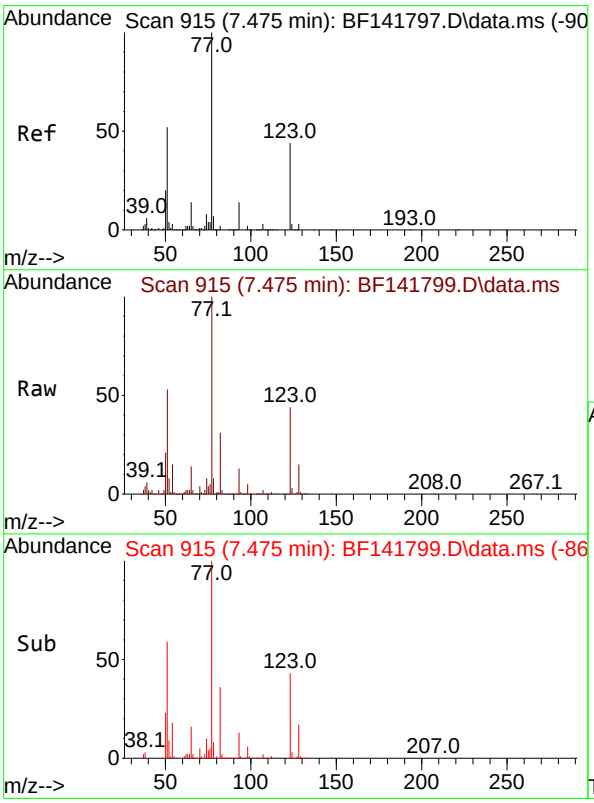

#23
Nitrobenzene-d5
Concen: 130.503 ng
RT: 7.457 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 82 Resp: 2374498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.1 | 33.5 | 50.3 |
| 54 | 53.1 | 42.7 | 64.1 |

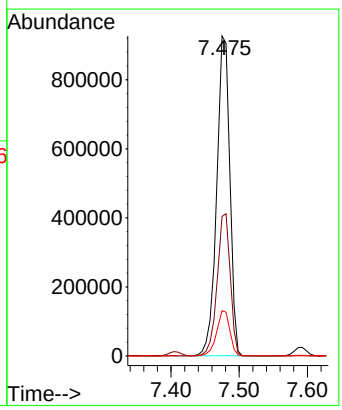


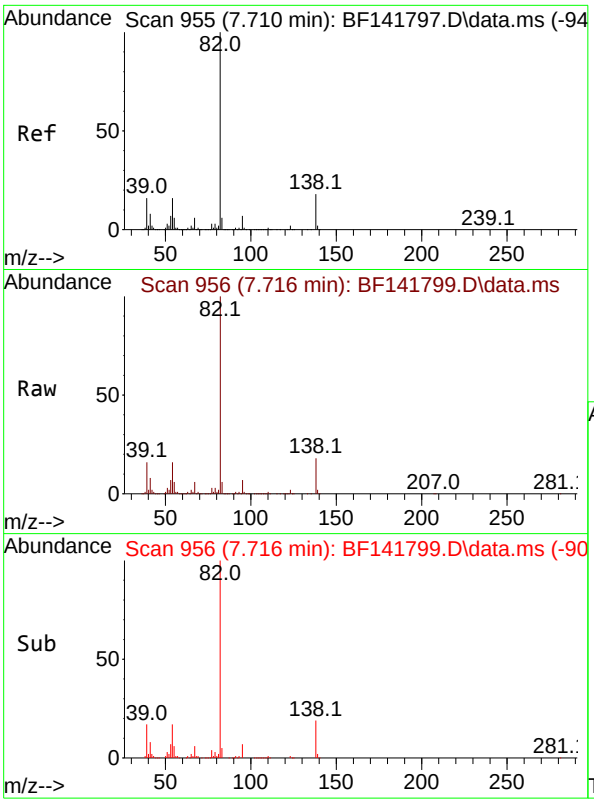




#24
Nitrobenzene
Concen: 63.867 ng
RT: 7.475 min Scan# 915
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 77 Resp: 1244392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 43.6 | 35.8 | 53.8 |
| 65 | 14.2 | 11.2 | 16.8 |



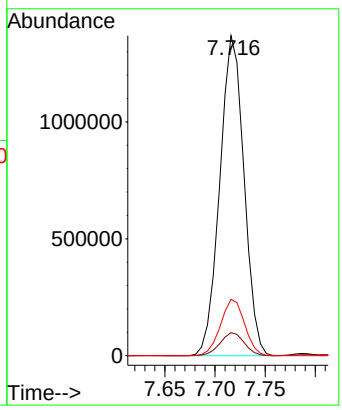


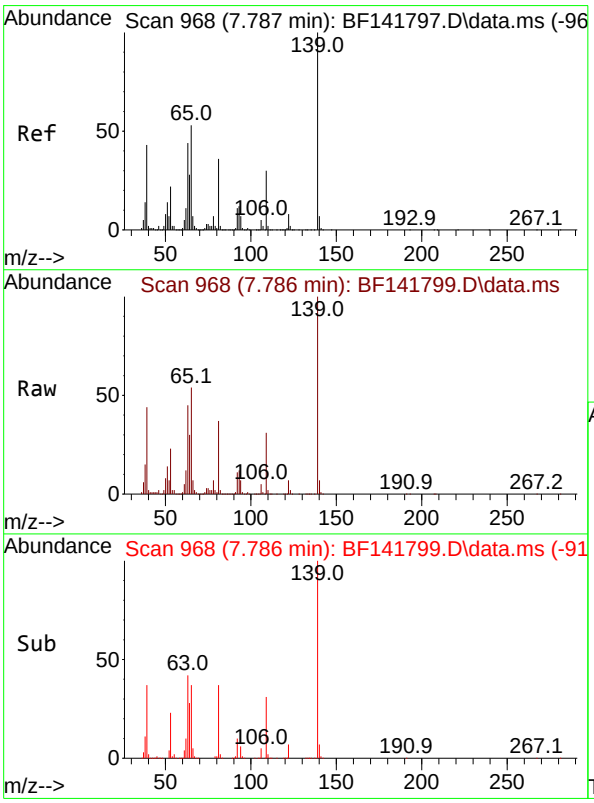

#25
Isophorone
Concen: 58.786 ng
RT: 7.716 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 82 Resp: 2297900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.2 | 5.8 | 8.8 |
| 138 | 17.6 | 14.0 | 21.0 |

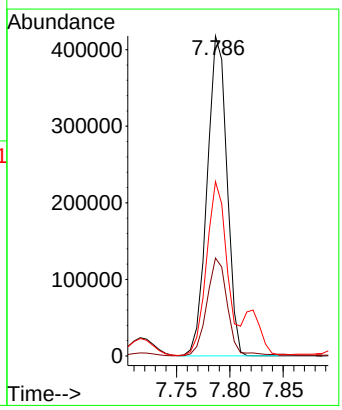


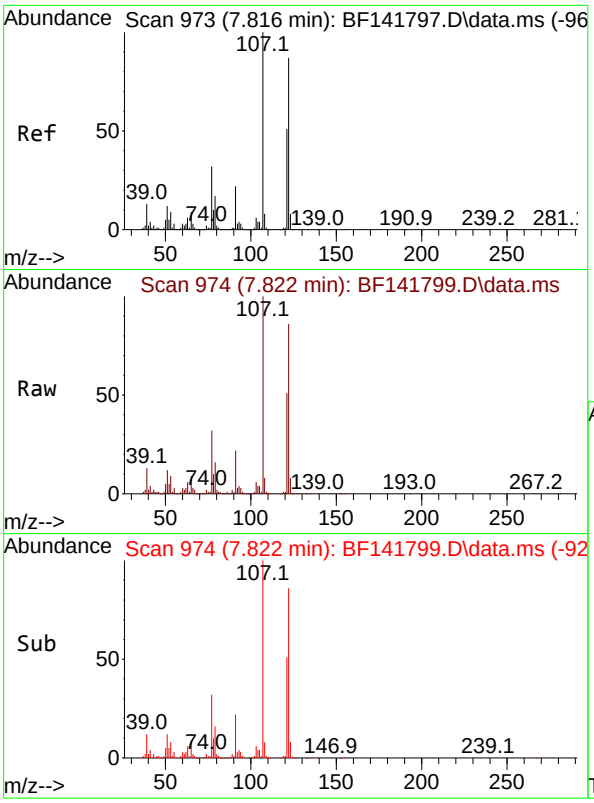




#26
2-Nitrophenol
Concen: 60.712 ng
RT: 7.786 min Scan# 968
Delta R.T. -0.001 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:139 Resp: 540018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 30.6 | 24.1 | 36.1 |
| 65 | 54.5 | 42.3 | 63.5 |



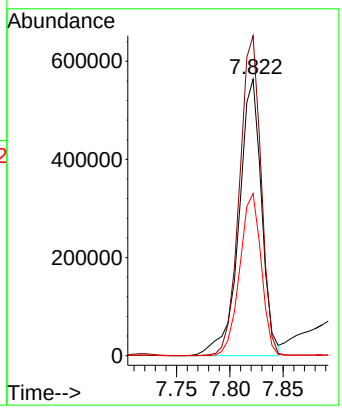


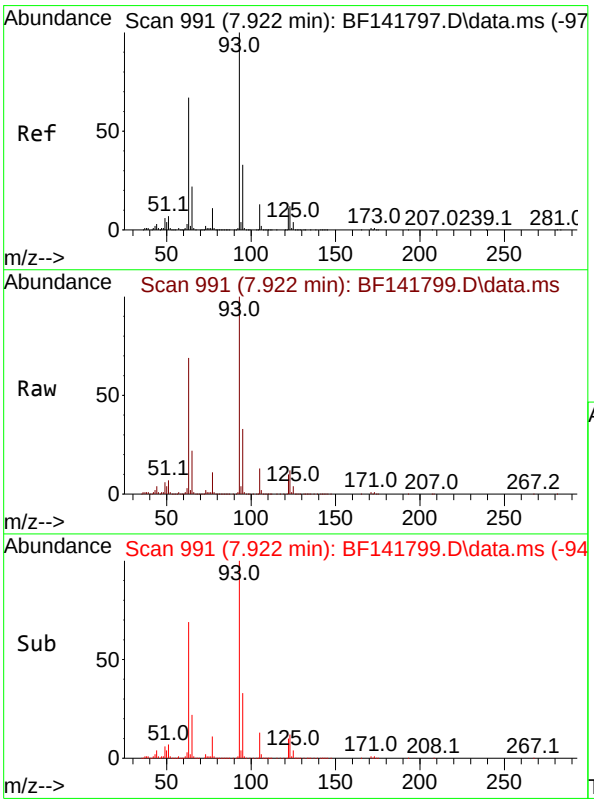

#27
2,4-Dimethylphenol
Concen: 57.912 ng
RT: 7.822 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:122 Resp: 832135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 115.7 | 92.5 | 138.7 |
| 121 | 58.7 | 47.1 | 70.7 |

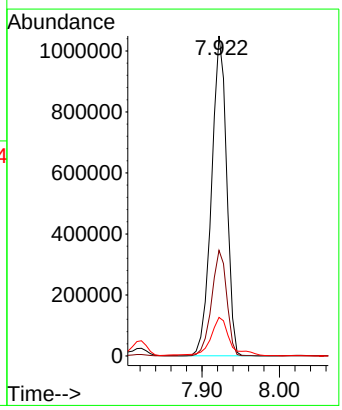


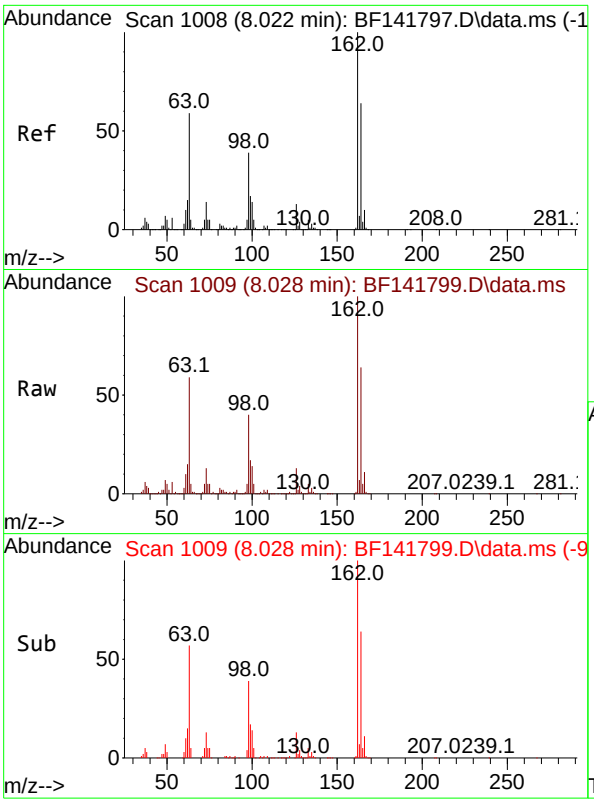




#28
bis(2-Chloroethoxy)methane
Concen: 57.094 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 93 Resp: 1423641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 33.0 | 26.5 | 39.7 |
| 123 | 12.1 | 10.0 | 15.0 |



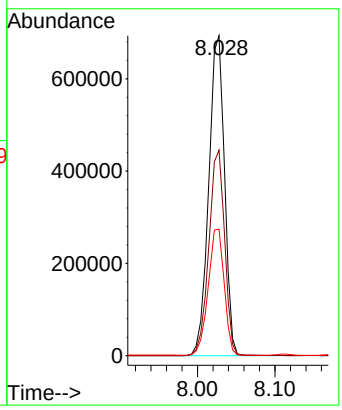


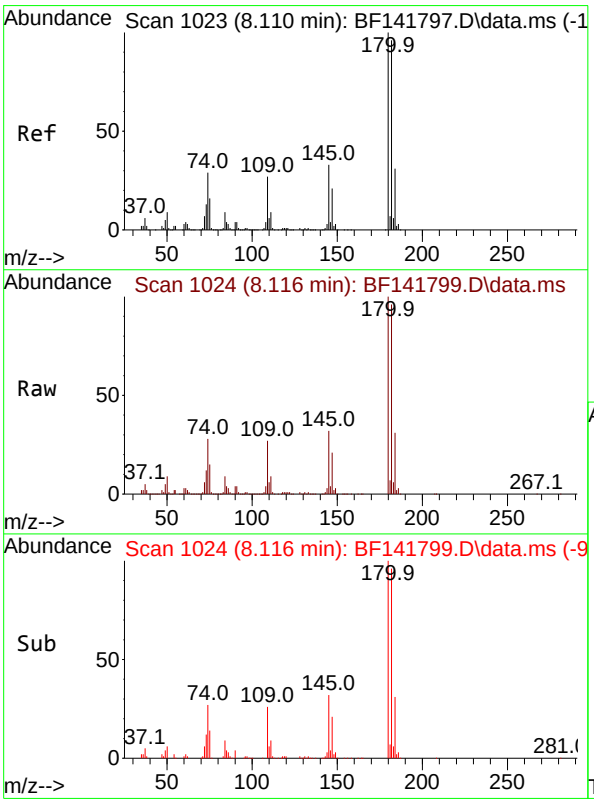

#29
2,4-Dichlorophenol
Concen: 59.211 ng
RT: 8.028 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:162 Resp: 981508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.2 | 44.3 | 84.3 |
| 98 | 39.5 | 19.6 | 59.6 |

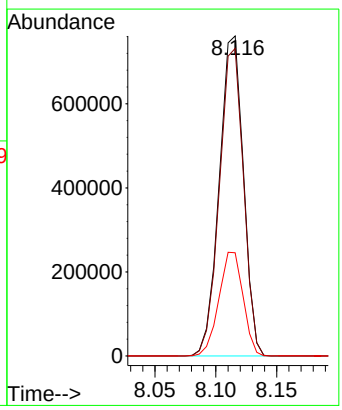


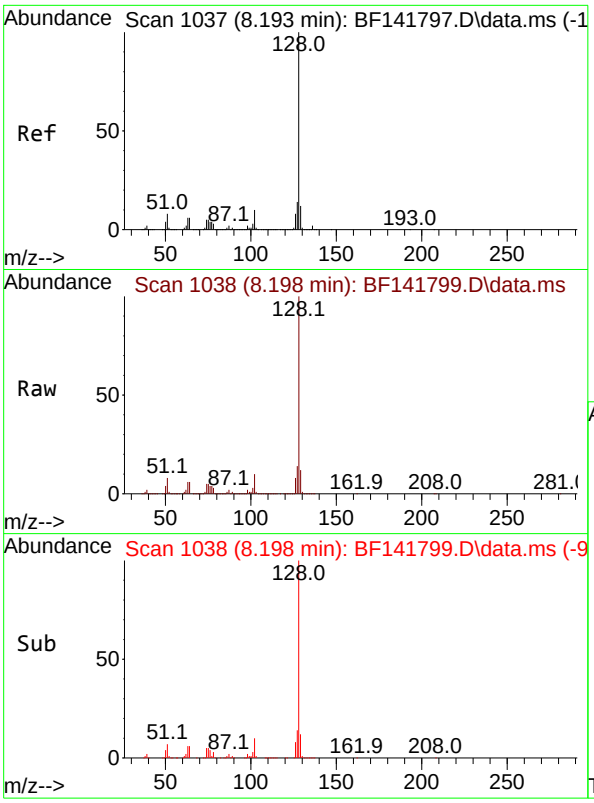




#30
1,2,4-Trichlorobenzene
Concen: 57.885 ng
RT: 8.116 min Scan# 1024
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:180 Resp: 1051434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.1 | 76.8 | 115.2 |
| 145 | 32.2 | 26.4 | 39.6 |



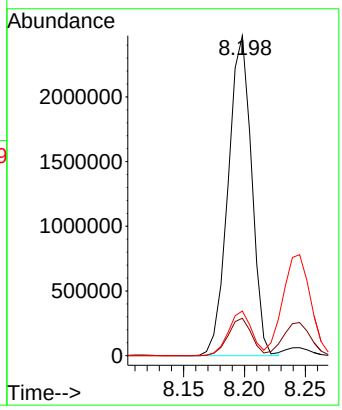


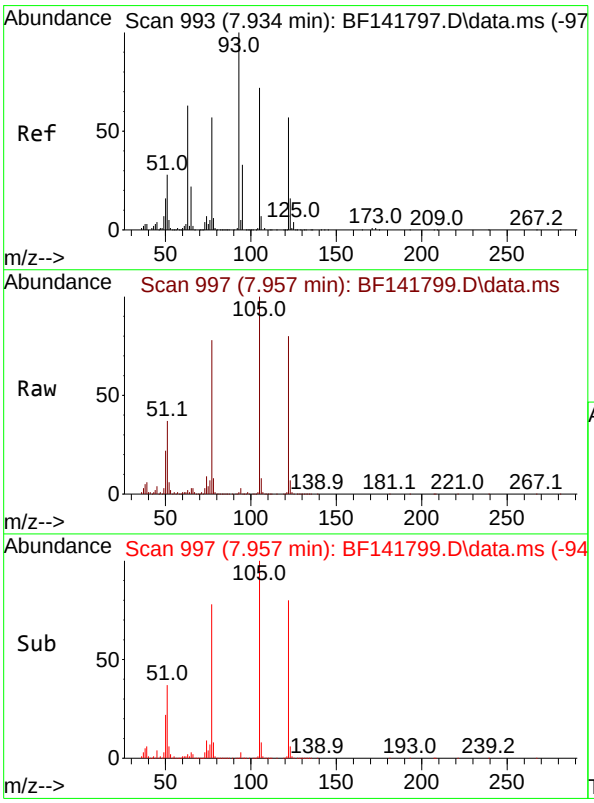

#31
Naphthalene
Concen: 55.427 ng
RT: 8.198 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:128 Resp: 3313144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.7 | 9.2 | 13.8 |
| 127 | 13.9 | 11.0 | 16.4 |

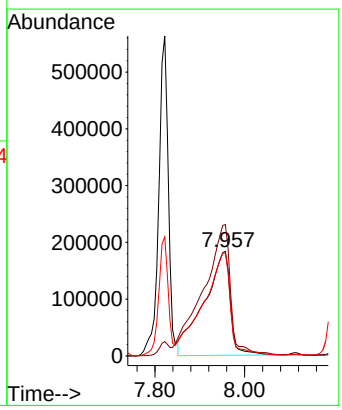


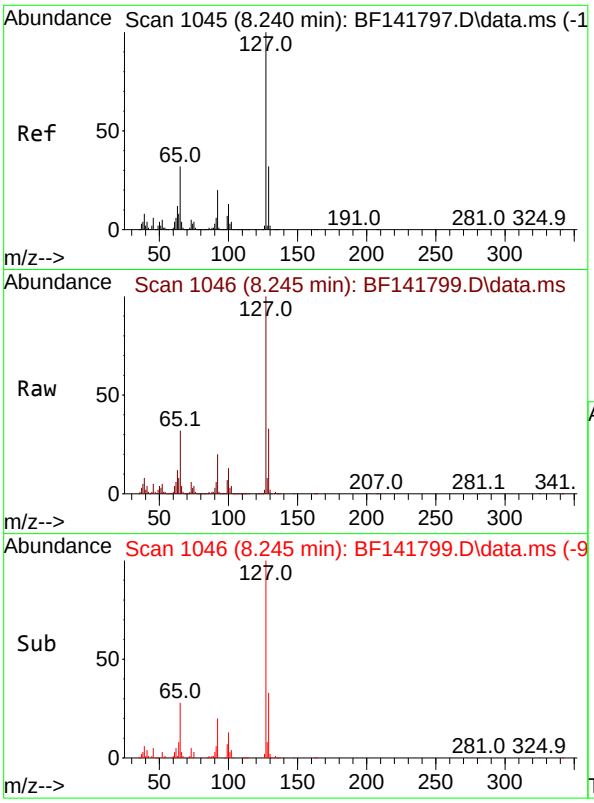




#32
Benzoic acid
Concen: 60.158 ng
RT: 7.957 min Scan# 997
Delta R.T. 0.023 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:122 Resp: 749284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 125.7 | 105.8 | 145.8 |
| 77 | 98.5 | 79.9 | 119.9 |



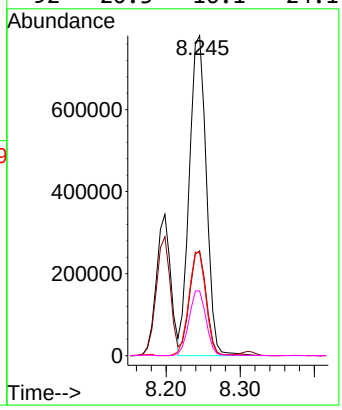


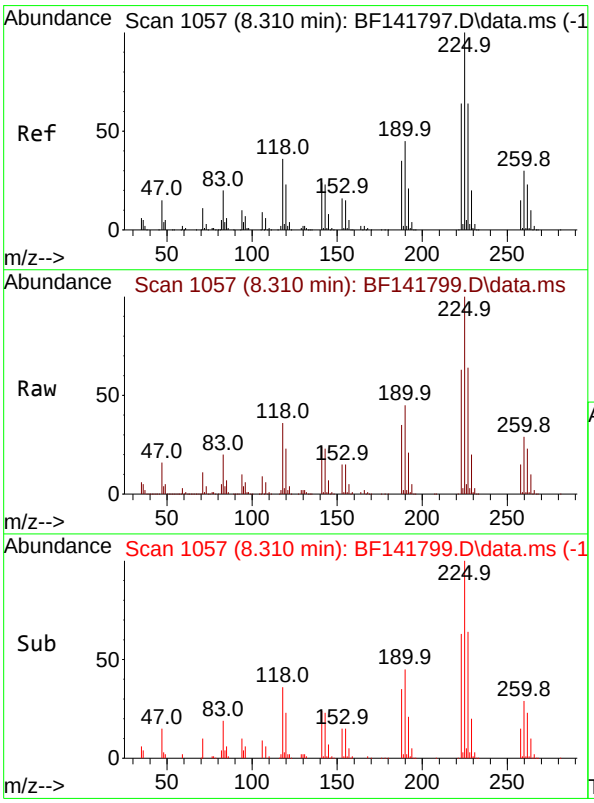

#33
4-Chloroaniline
Concen: 56.723 ng
RT: 8.245 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:127 Resp: 1243216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.8 | 26.1 | 39.1 |
| 65 | 32.2 | 25.7 | 38.5 |
| 92 | 20.3 | 16.1 | 24.1 |

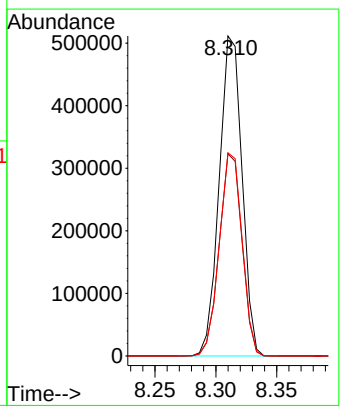


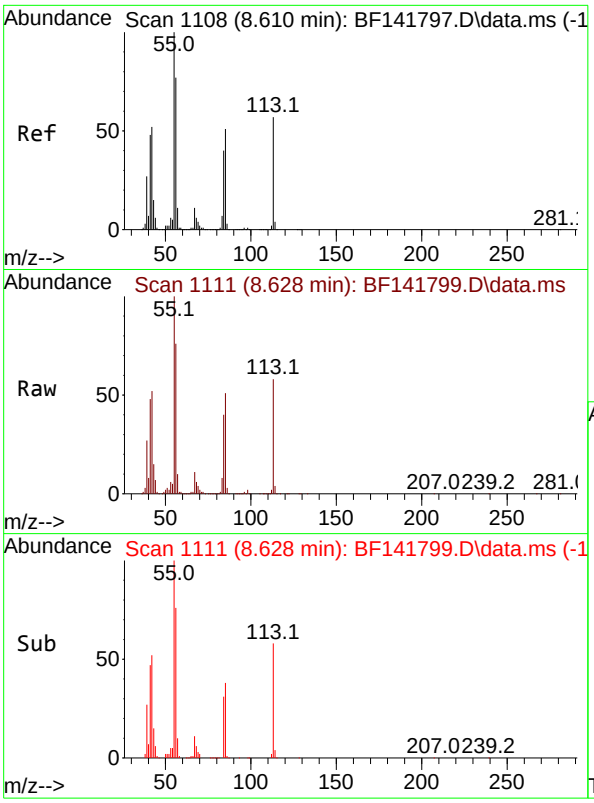




#34
Hexachlorobutadiene
Concen: 59.082 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:225 Resp: 666891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.2 | 51.4 | 77.2 |
| 227 | 63.5 | 51.6 | 77.4 |



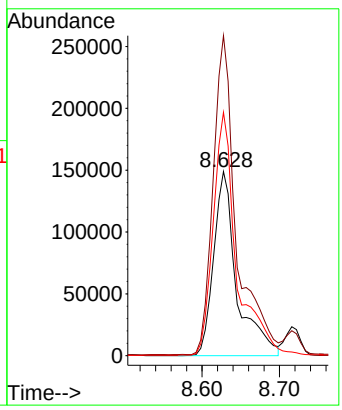


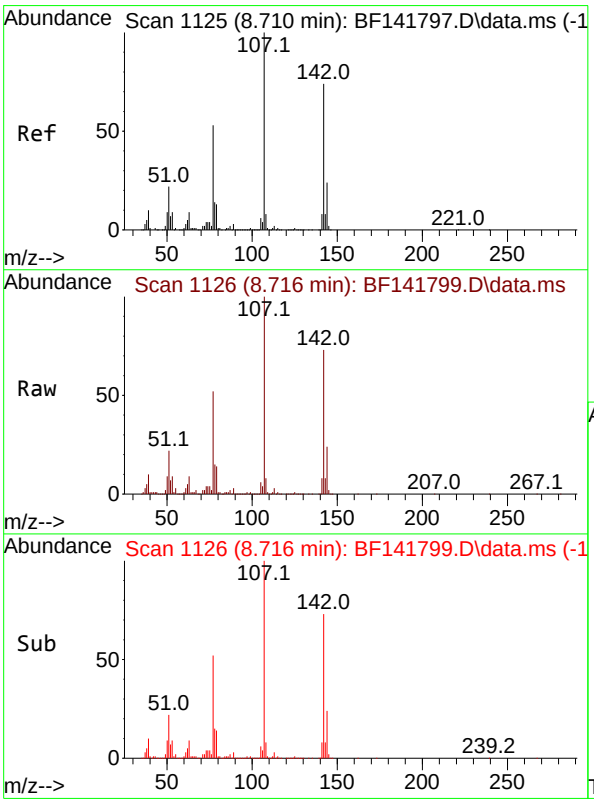

#35
Caprolactam
Concen: 60.671 ng
RT: 8.628 min Scan# 11
Delta R.T. 0.018 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:113 Resp: 309453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 173.8 | 155.6 | 195.6 |
| 56 | 132.2 | 114.6 | 154.6 |

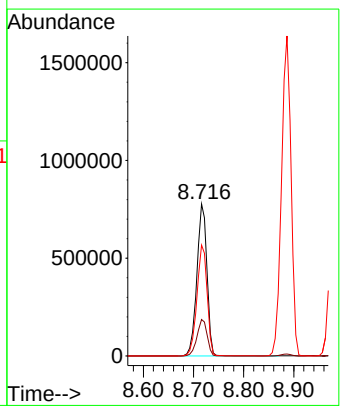


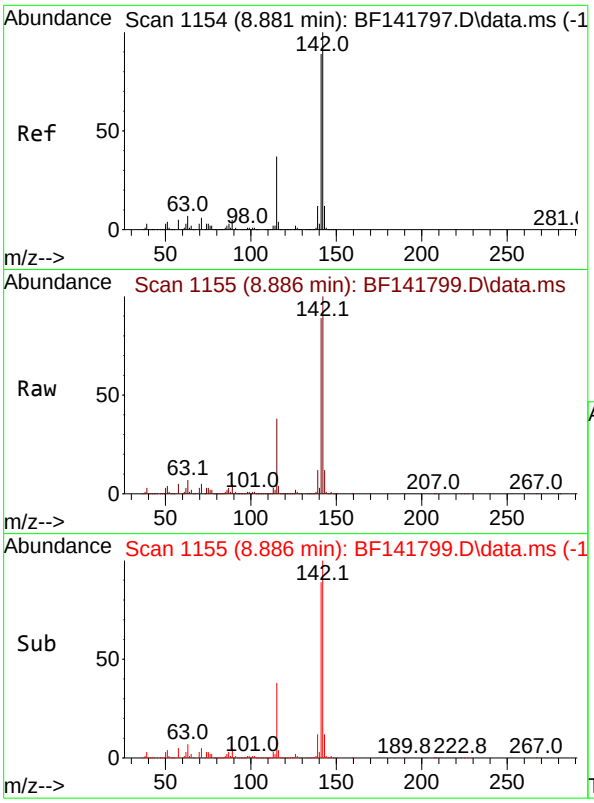




#36
4-Chloro-3-methylphenol
Concen: 58.783 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:107 Resp: 1082457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 24.0 | 19.4 | 29.0 |
| 142 | 73.0 | 59.4 | 89.0 |



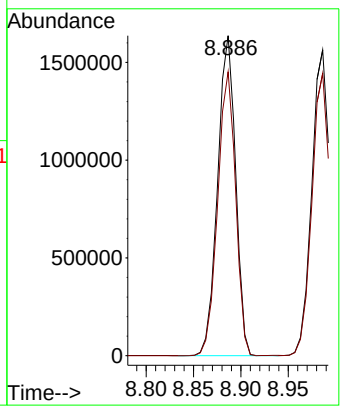


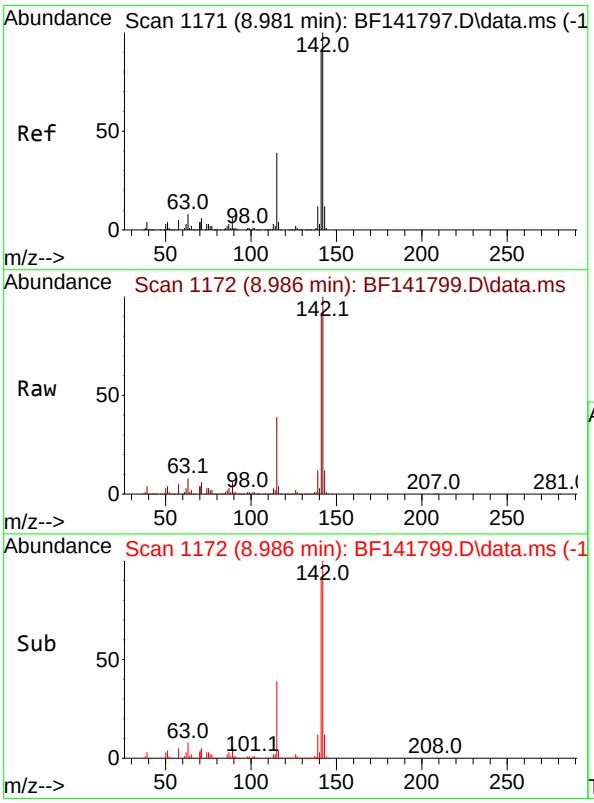

#37
2-Methylnaphthalene
Concen: 55.115 ng
RT: 8.886 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:142 Resp: 2160902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.7 | 71.1 | 106.7 |

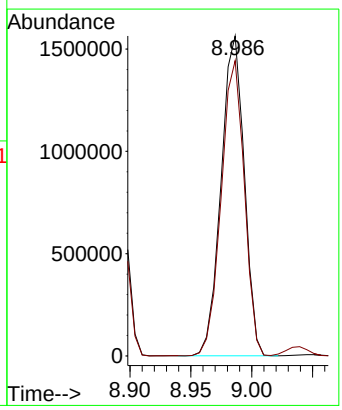


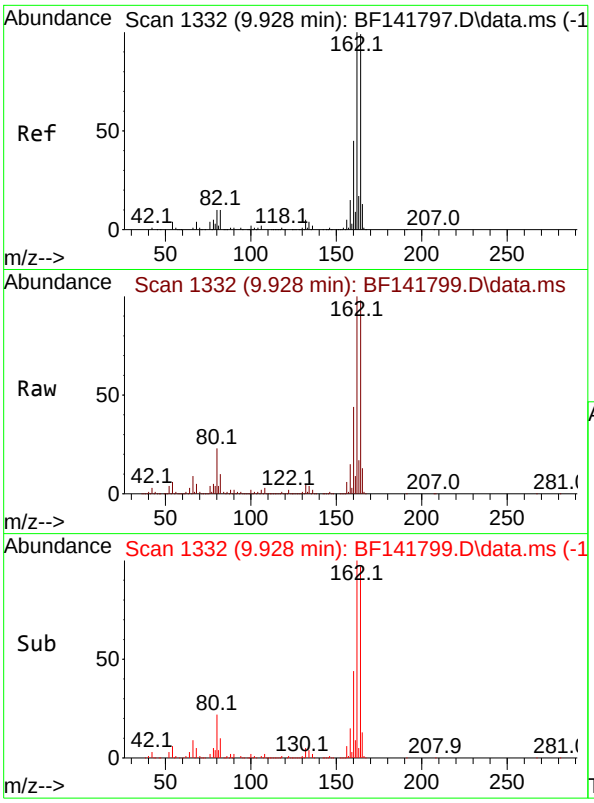




#38
1-Methylnaphthalene
Concen: 55.054 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:142 Resp: 2071154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.3 | 73.1 | 109.7 |



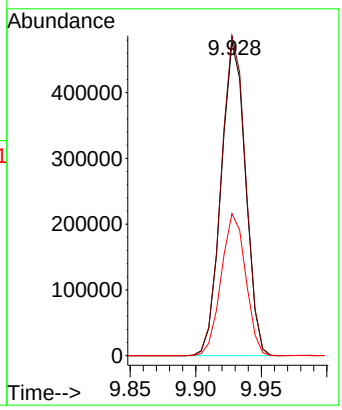


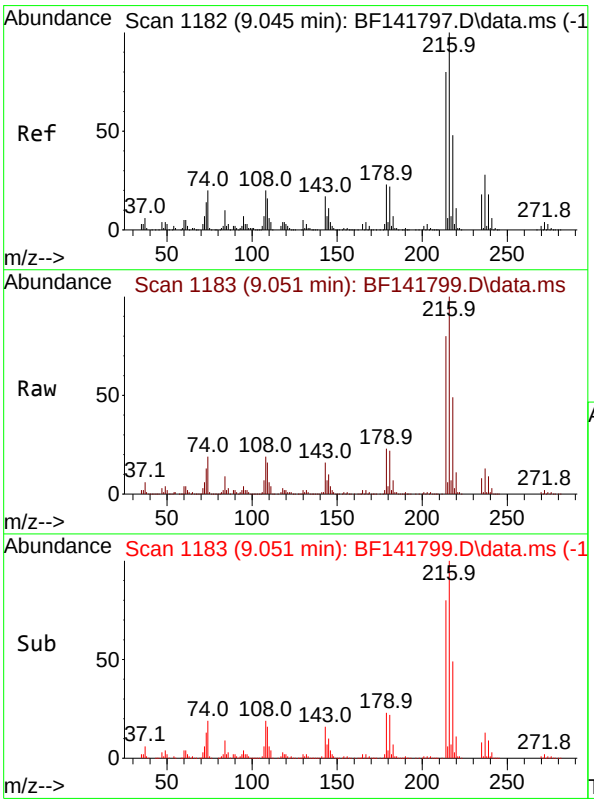

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:164 Resp: 617087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.0 | 80.6 | 120.8 |
| 160 | 45.3 | 36.3 | 54.5 |

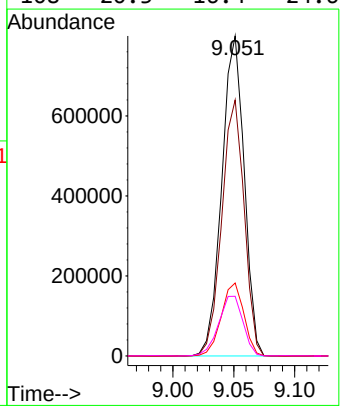


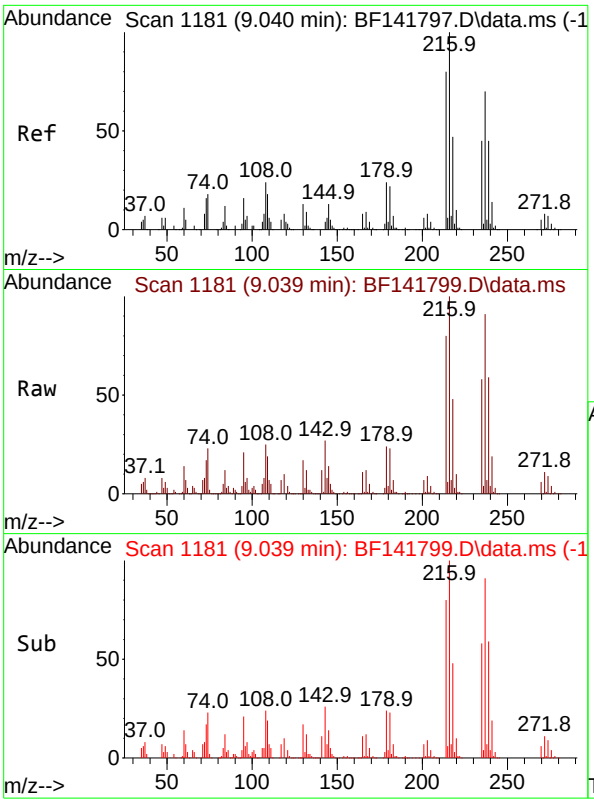




#40
1,2,4,5-Tetrachlorobenzene
Concen: 57.477 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:216 Resp: 1024373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 79.8 | 63.5 | 95.3 |
| 179 | 23.0 | 18.1 | 27.1 |
| 108 | 20.3 | 16.4 | 24.6 |



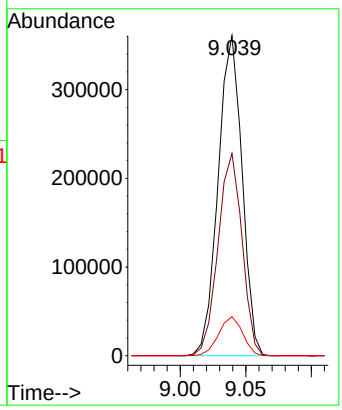


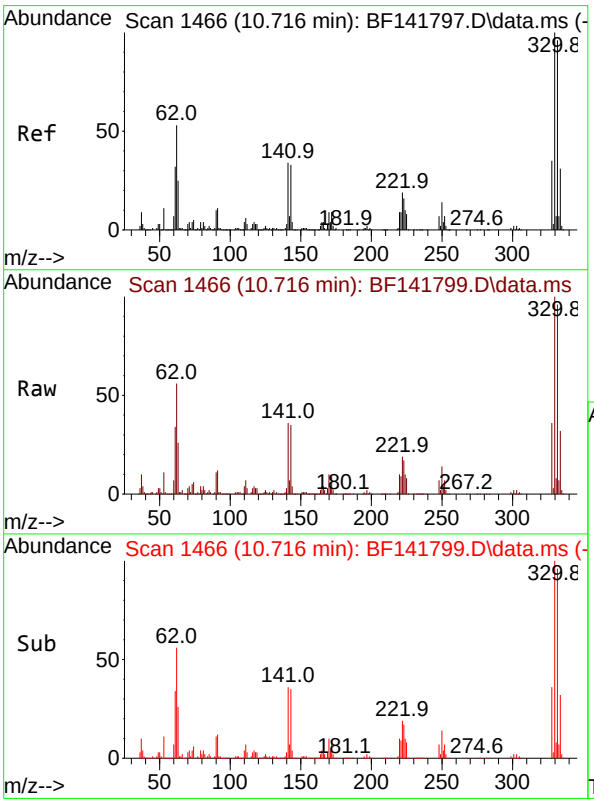

#41
Hexachlorocyclopentadiene
Concen: 61.586 ng
RT: 9.039 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:237 Resp: 458054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 63.2 | 43.3 | 83.3 |
| 272 | 12.2 | 0.0 | 31.9 |

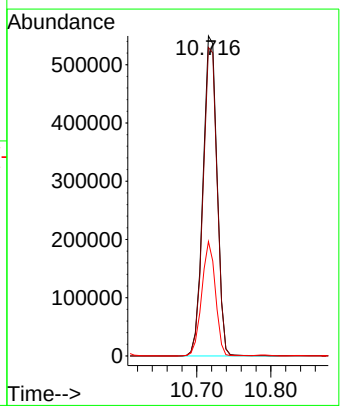


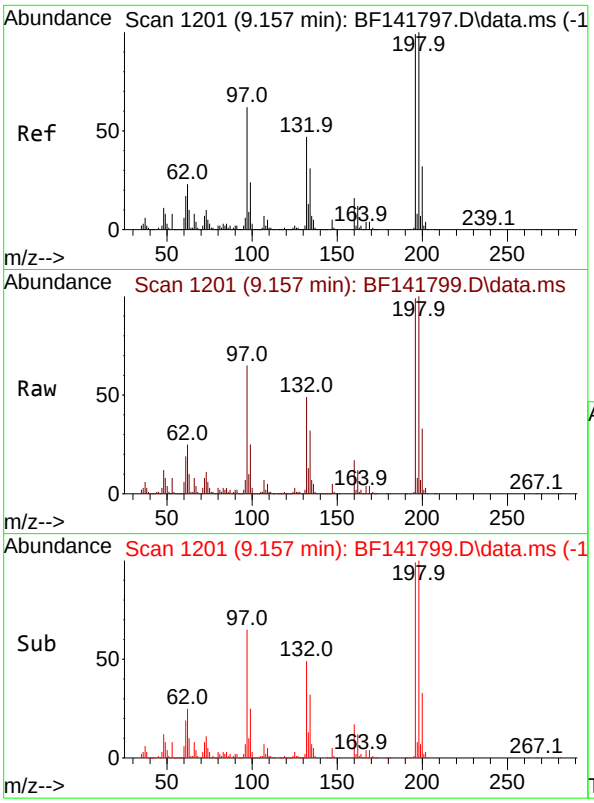




#42
2,4,6-Tribromophenol
Concen: 125.191 ng
RT: 10.716 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:330 Resp: 725271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.7 | 76.6 | 115.0 |
| 141 | 34.9 | 29.0 | 43.4 |



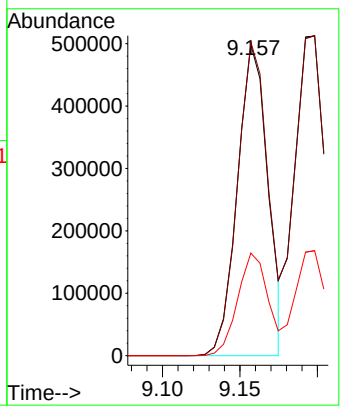


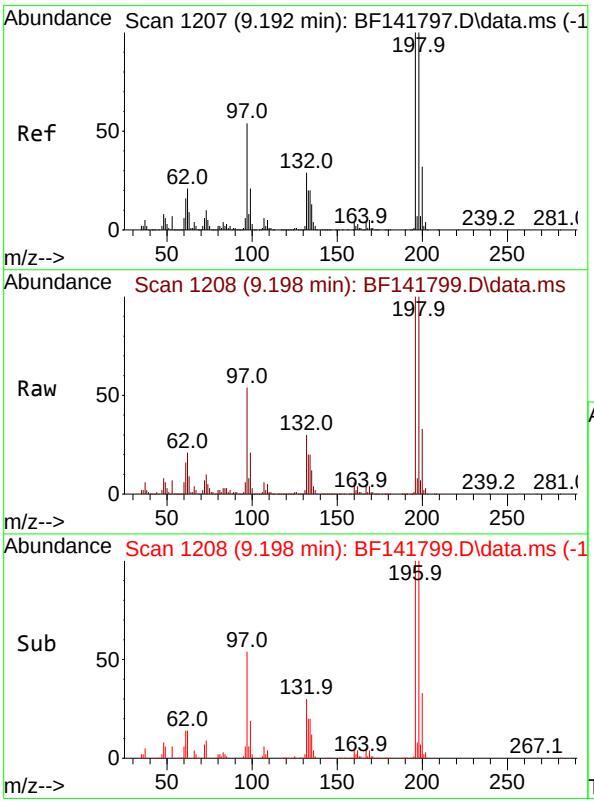

#43
2,4,6-Trichlorophenol
Concen: 59.220 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:196 Resp: 681760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.8 | 80.4 | 120.6 |
| 200 | 33.0 | 25.7 | 38.5 |

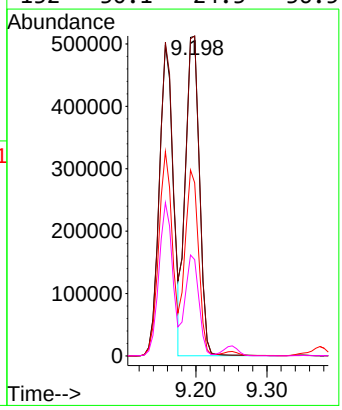


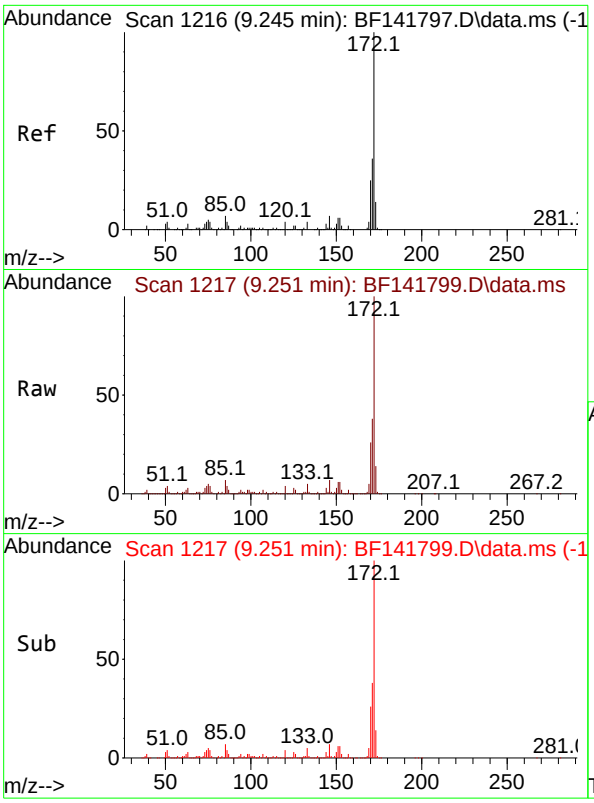




#44
2,4,5-Trichlorophenol
Concen: 61.725 ng
RT: 9.198 min Scan# 1208
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:196 Resp: 703662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.1 | 79.7 | 119.5 |
| 97 | 54.1 | 44.2 | 66.2 |
| 132 | 30.1 | 24.3 | 36.5 |



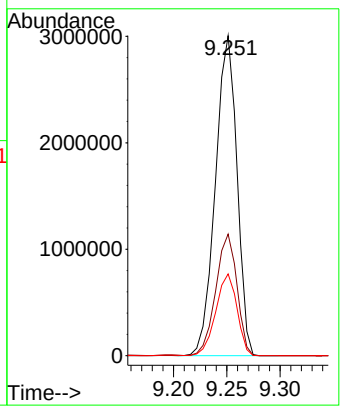


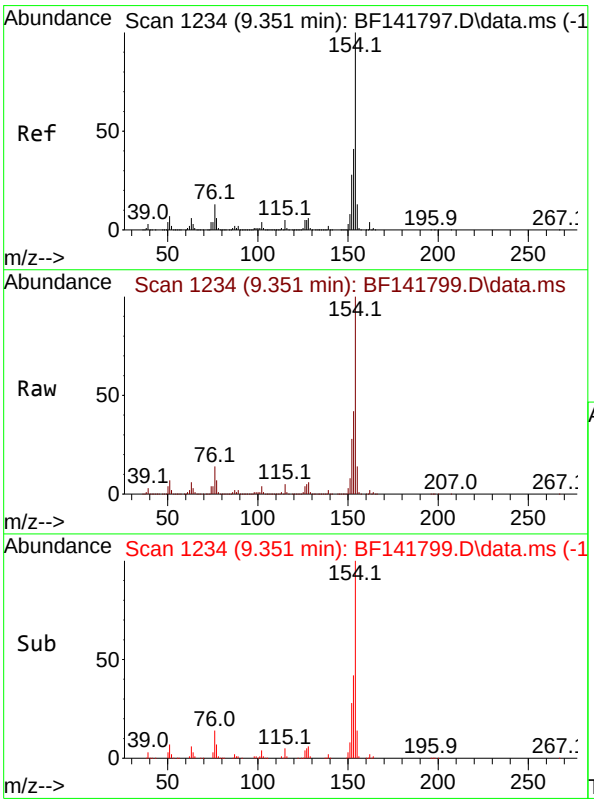

#45
2-Fluorobiphenyl
Concen: 109.742 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:172 Resp: 4223426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 38.0 | 29.2 | 43.8 |
| 170 | 25.5 | 19.7 | 29.5 |

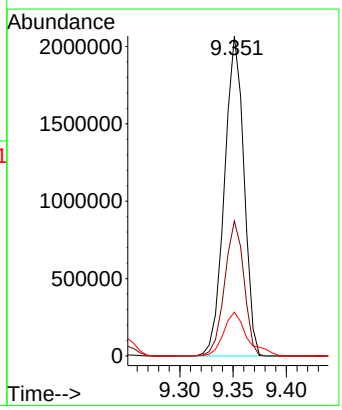


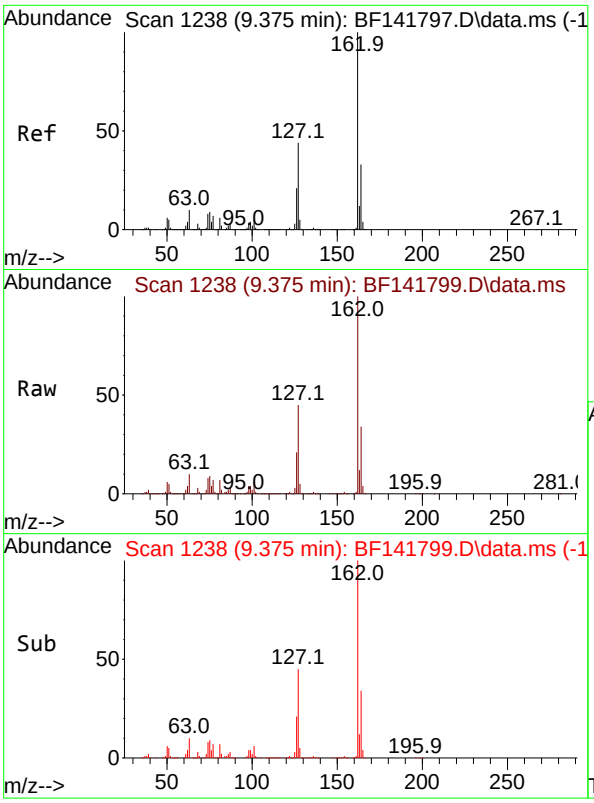




#46
1,1'-Biphenyl
Concen: 55.911 ng
RT: 9.351 min Scan# 1234
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:154 Resp: 2626139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 42.2 | 21.4 | 61.4 |
| 76 | 13.7 | 0.0 | 33.4 |



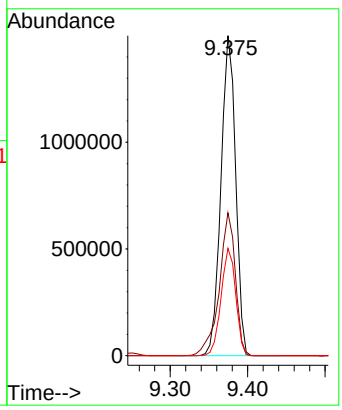


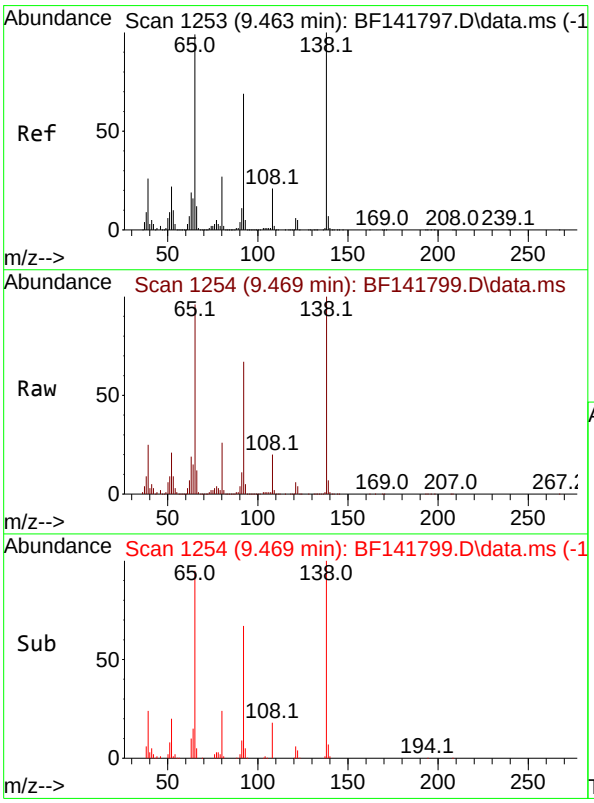

#47
2-Chloronaphthalene
Concen: 57.187 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:162 Resp: 1982513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 44.6 | 35.0 | 52.6 |
| 164 | 33.5 | 26.6 | 40.0 |

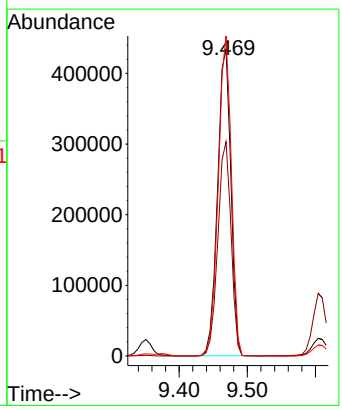


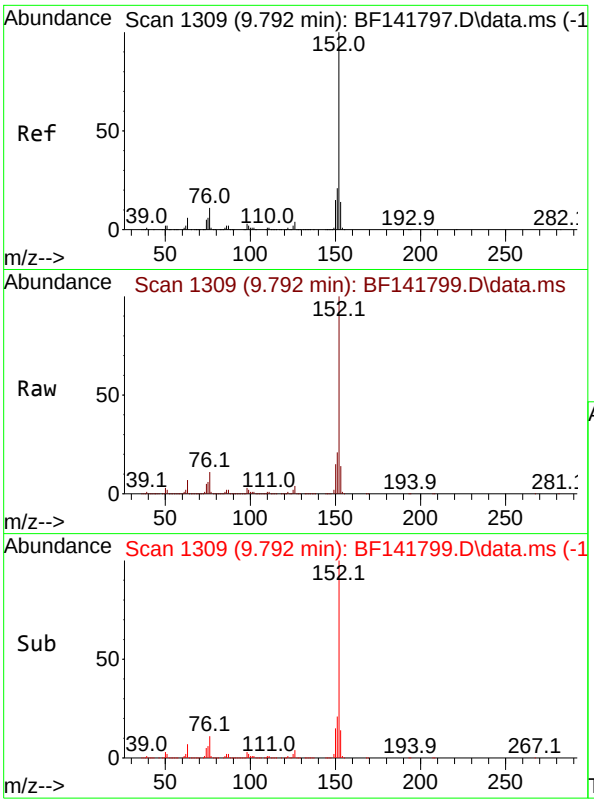




#48
2-Nitroaniline
Concen: 60.902 ng
RT: 9.469 min Scan# 1254
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 65 Resp: 590092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 69.8 | 55.7 | 83.5 |
| 138 | 104.2 | 80.6 | 121.0 |



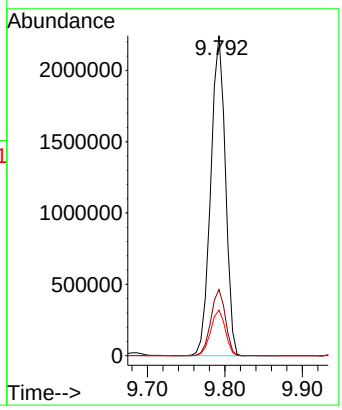


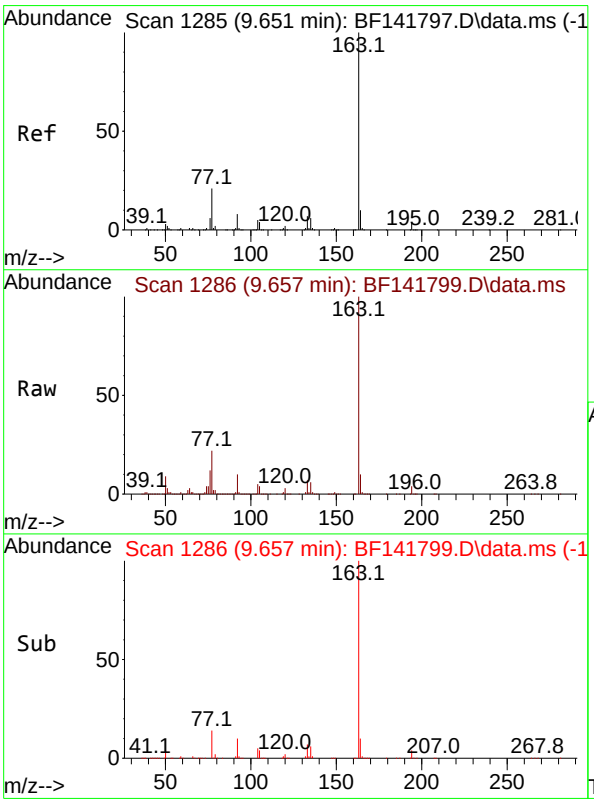

#49
Acenaphthylene
Concen: 56.845 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:152 Resp: 2954653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.7 | 16.6 | 24.8 |
| 153 | 14.3 | 11.2 | 16.8 |

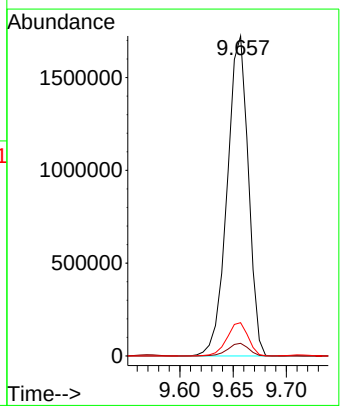


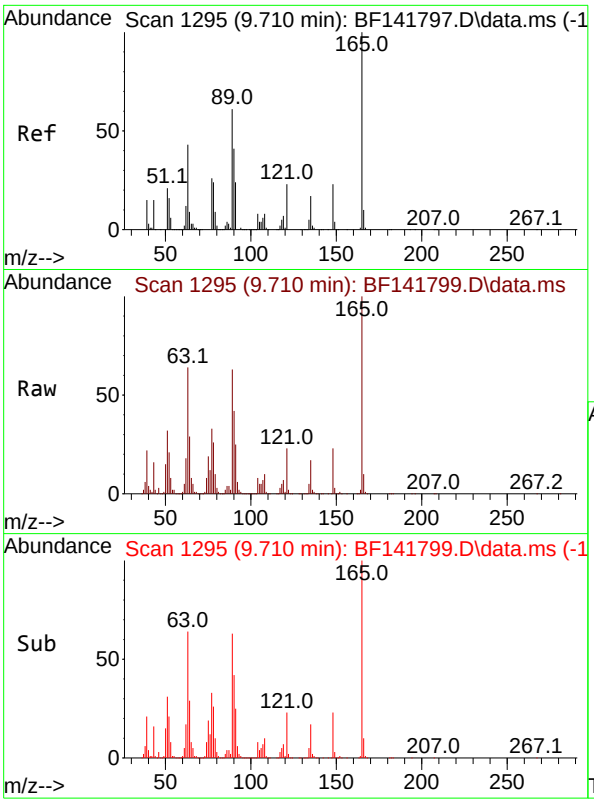




#50
Dimethylphthalate
Concen: 57.581 ng
RT: 9.657 min Scan# 1286
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:163 Resp: 2379542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.0 | 3.1 | 4.7 |
| 164 | 10.4 | 8.4 | 12.6 |



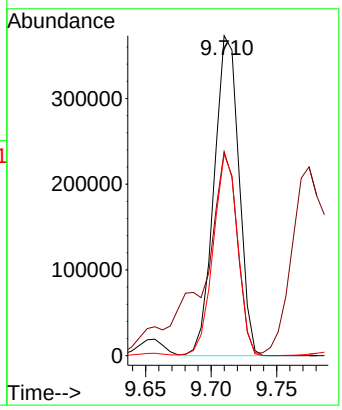


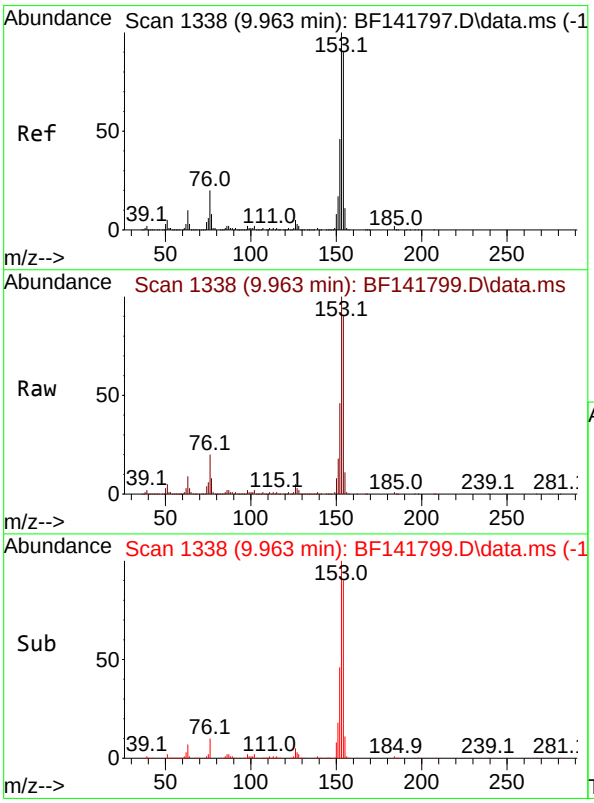

#51
2,6-Dinitrotoluene
Concen: 61.325 ng
RT: 9.710 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:165 Resp: 491402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 63.8 | 49.5 | 74.3 |
| 89 | 63.0 | 49.0 | 73.4 |

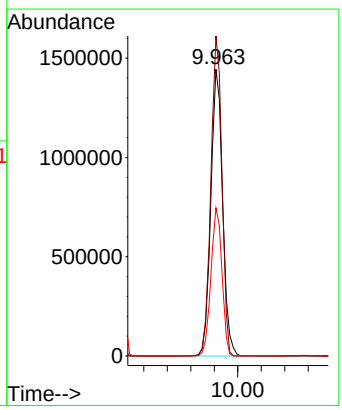


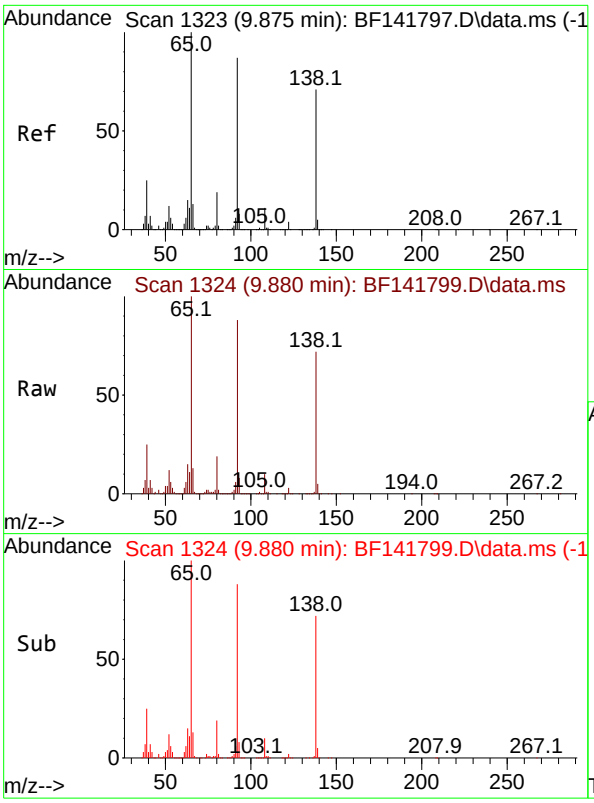




#52
Acenaphthene
Concen: 57.211 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:154 Resp: 2006502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 111.6 | 88.7 | 133.1 |
| 152 | 51.6 | 40.9 | 61.3 |



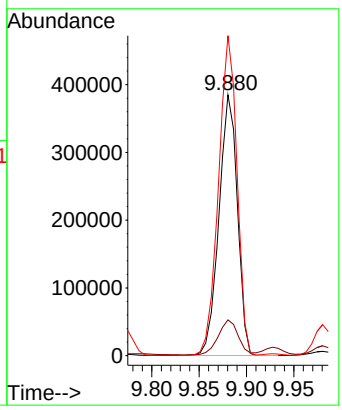


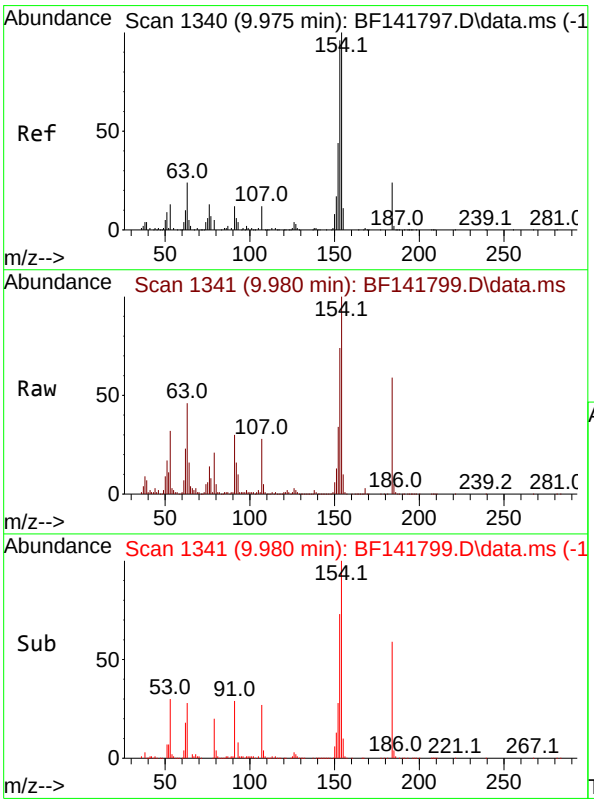

#53
3-Nitroaniline
Concen: 61.078 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:138 Resp: 521575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 13.7 | 12.7 | 19.1 |
| 92 | 122.7 | 97.9 | 146.9 |

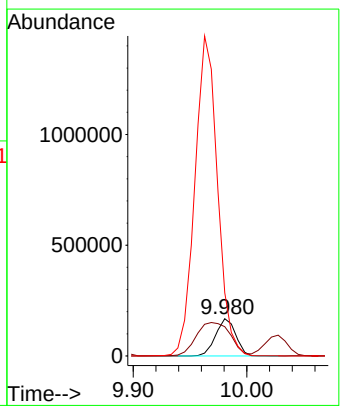


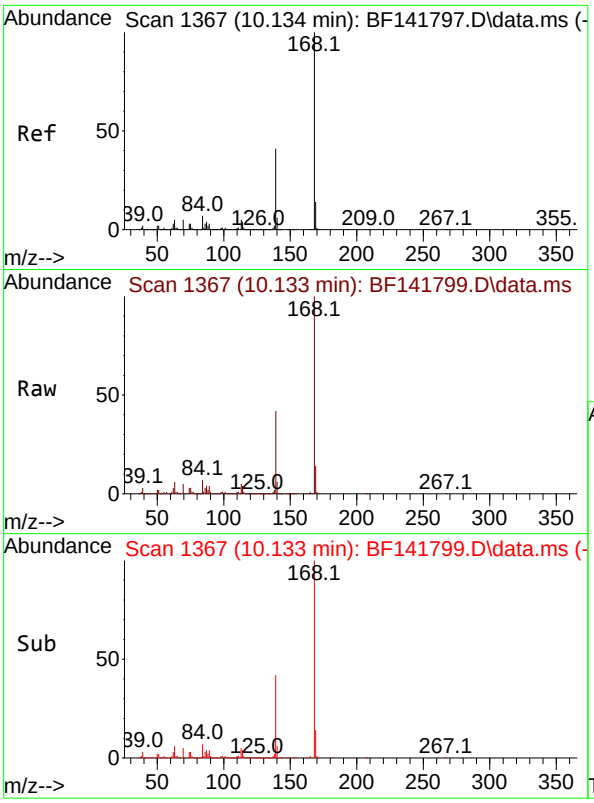




#54
2,4-Dinitrophenol
Concen: 62.312 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.005 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:184 Resp: 207307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 78.8 | 79.0 | 118.6# |
| 154 | 169.7 | 335.8 | 503.8# |



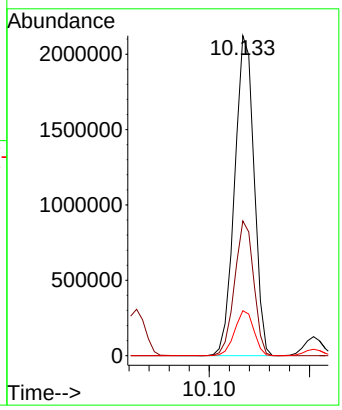


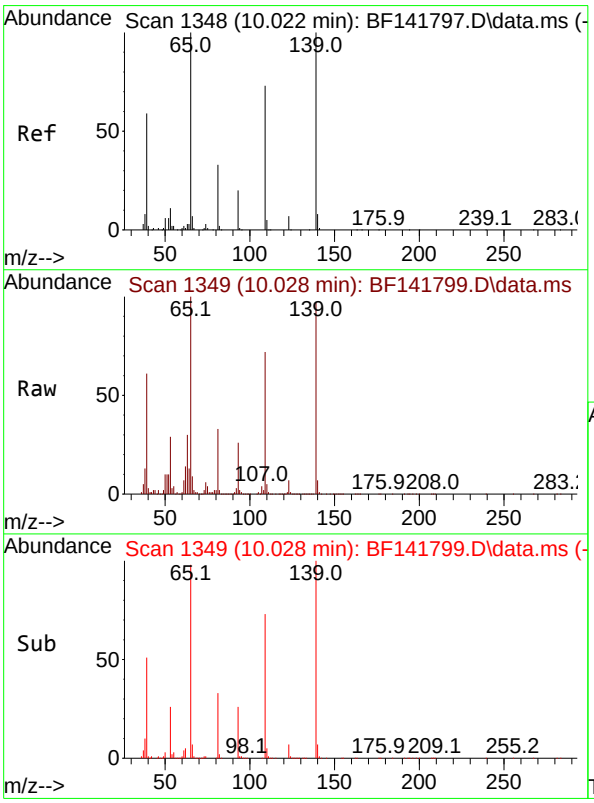

#55
Dibenzofuran
Concen: 55.911 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:168 Resp: 2854091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 42.1 | 32.9 | 49.3 |
| 169 | 14.1 | 11.1 | 16.7 |

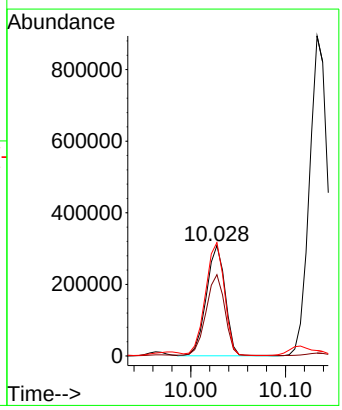


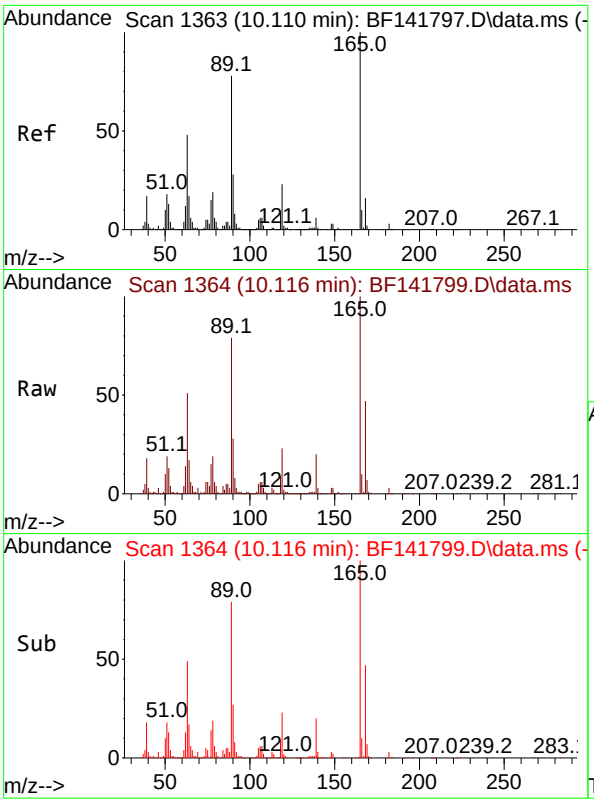




#56
4-Nitrophenol
Concen: 69.564 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:139 Resp: 424581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 73.6 | 53.4 | 93.4 |
| 65 | 102.7 | 82.1 | 122.1 |



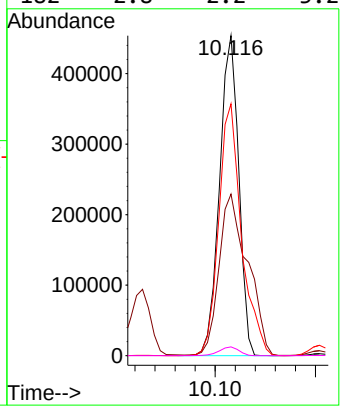


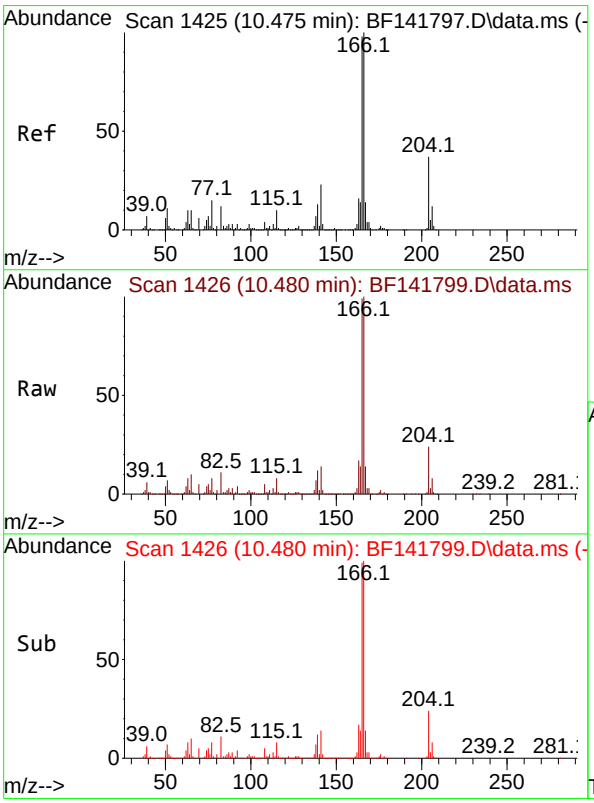

#57
2,4-Dinitrotoluene
Concen: 61.246 ng
RT: 10.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:165 Resp: 601539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 50.5 | 38.8 | 58.2 |
| 89 | 78.7 | 62.6 | 94.0 |
| 182 | 2.8 | 2.2 | 3.2 |

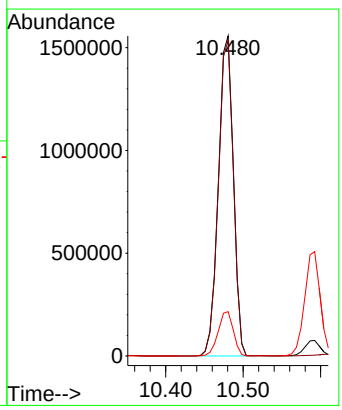


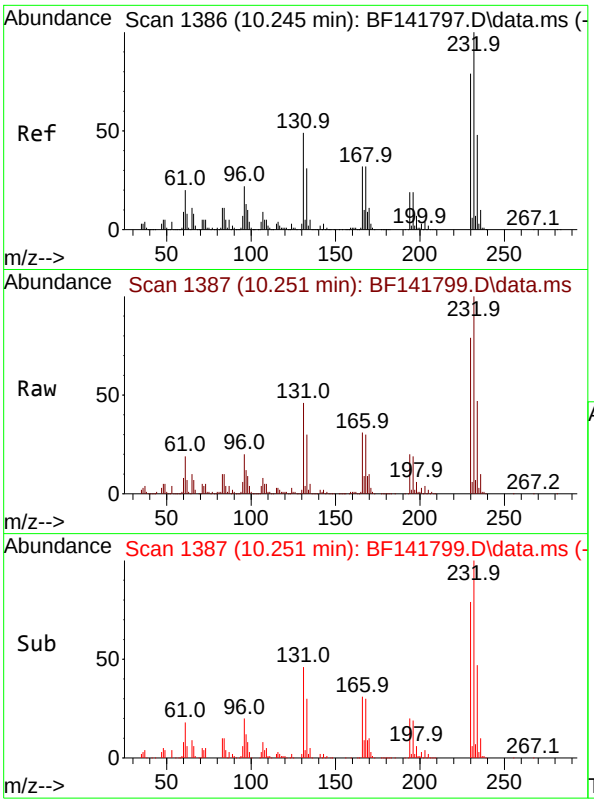




#58
Fluorene
Concen: 54.917 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:166 Resp: 2099887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.7 | 78.6 | 117.8 |
| 167 | 13.9 | 11.0 | 16.4 |



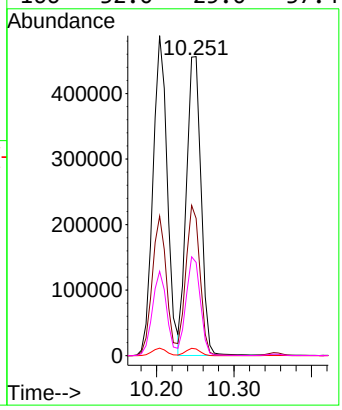


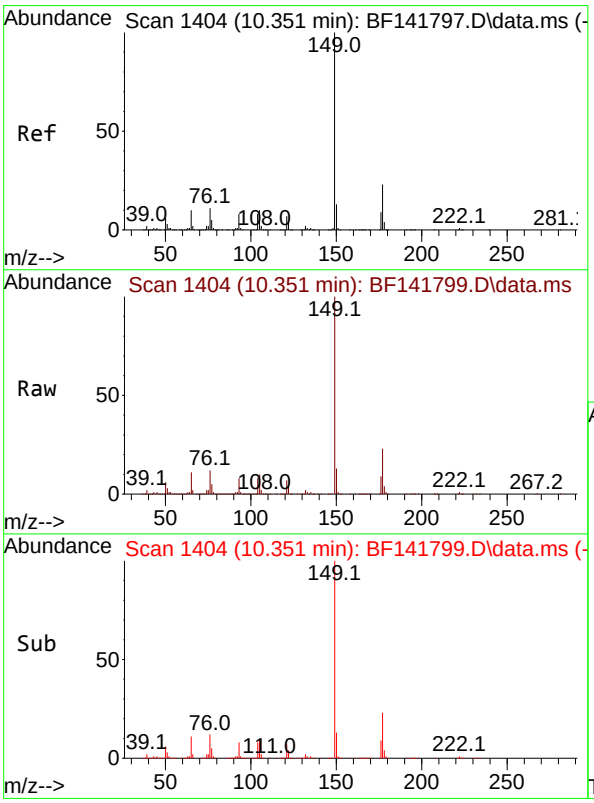

#59
2,3,4,6-Tetrachlorophenol
Concen: 60.159 ng
RT: 10.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:232 Resp: 596455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 47.9 | 37.8 | 56.8 |
| 130 | 2.4 | 2.0 | 3.0 |
| 166 | 32.0 | 25.0 | 37.4 |

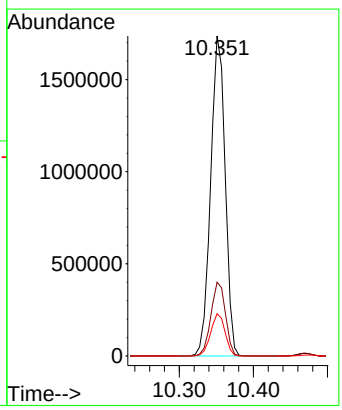


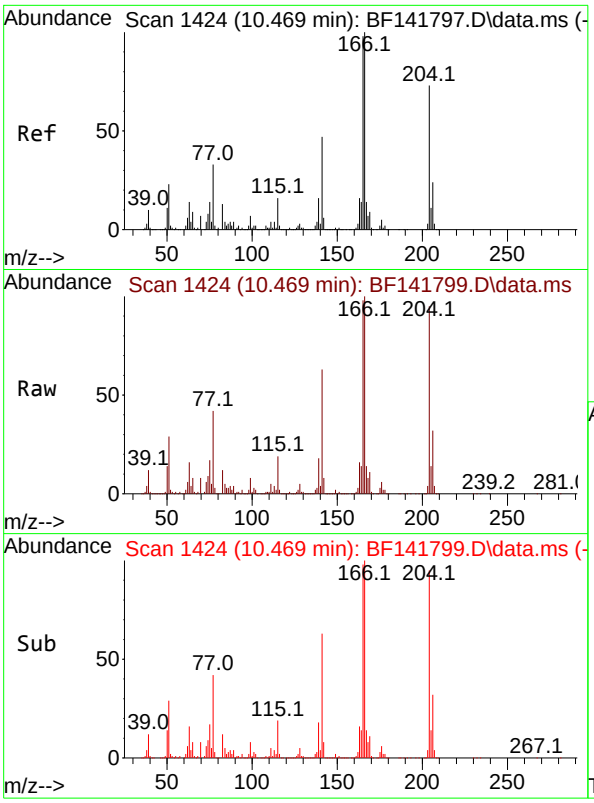




#60
Diethylphthalate
Concen: 56.972 ng
RT: 10.351 min Scan# 1404
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:149 Resp: 2360216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 23.1 | 18.3 | 27.5 |
| 150 | 13.2 | 10.3 | 15.5 |



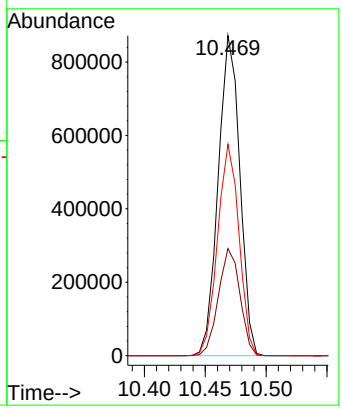


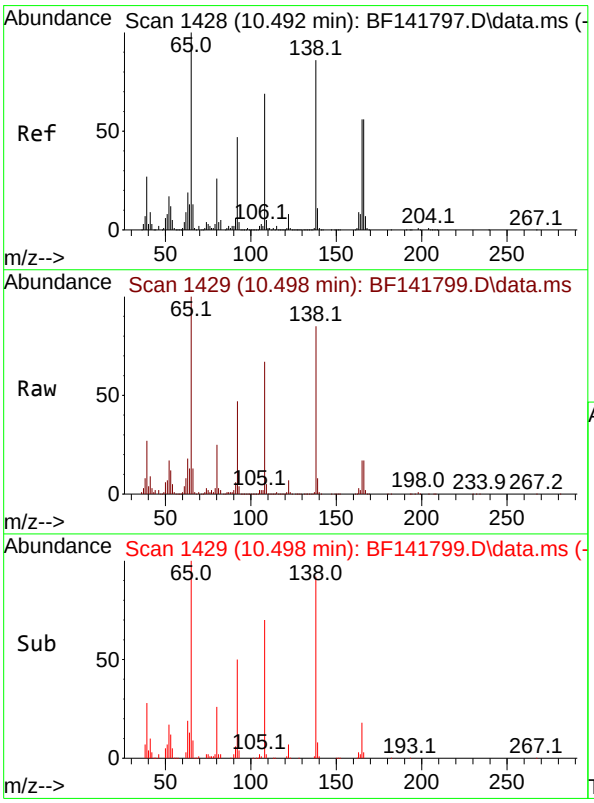

#61
4-Chlorophenyl-phenylether
Concen: 56.324 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:204 Resp: 1079059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 33.4 | 26.2 | 39.4 |
| 141 | 66.0 | 51.7 | 77.5 |

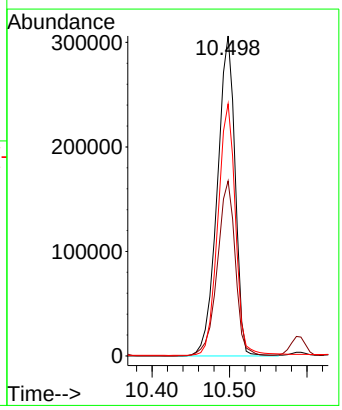


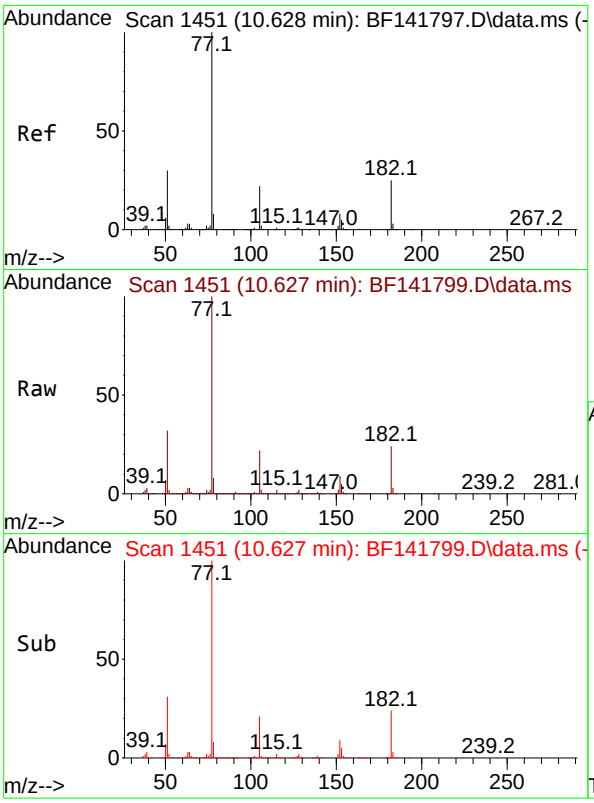




#62
4-Nitroaniline
Concen: 69.546 ng
RT: 10.498 min Scan# 1429
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:138 Resp: 490806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 54.7 | 34.9 | 74.9 |
| 108 | 78.8 | 59.6 | 99.6 |



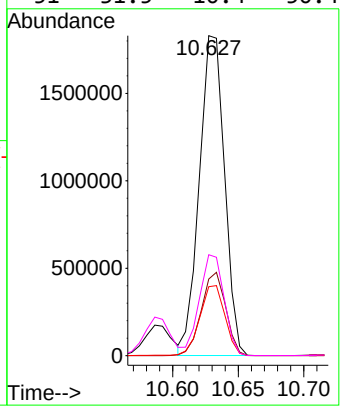


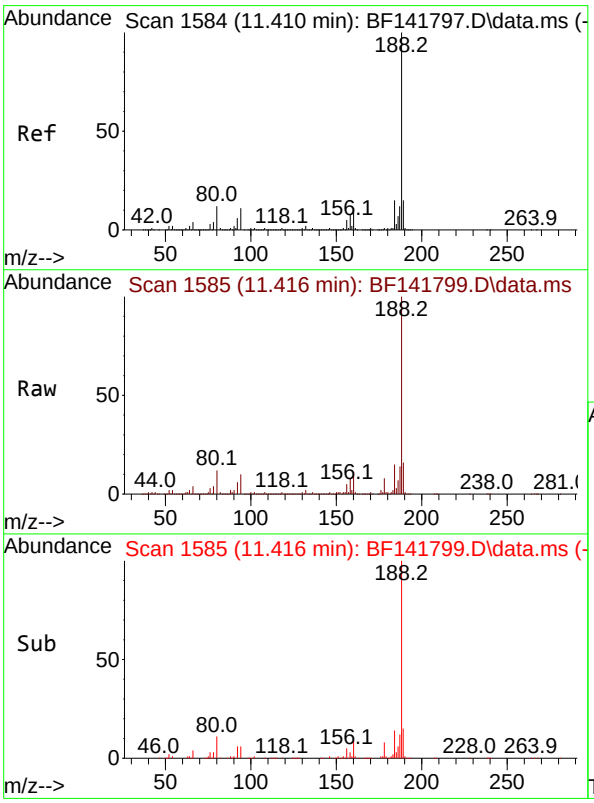

#63
Azobenzene
Concen: 56.242 ng
RT: 10.627 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion: 77 Resp: 2453259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 23.9 | 4.2 | 44.2 |
| 105 | 21.5 | 1.5 | 41.5 |
| 51 | 31.5 | 10.4 | 50.4 |

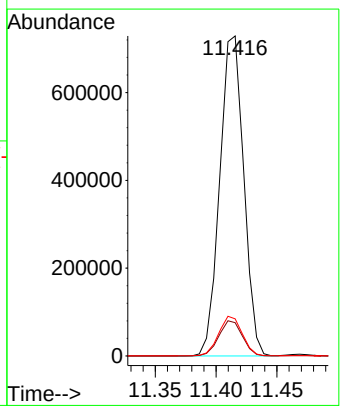


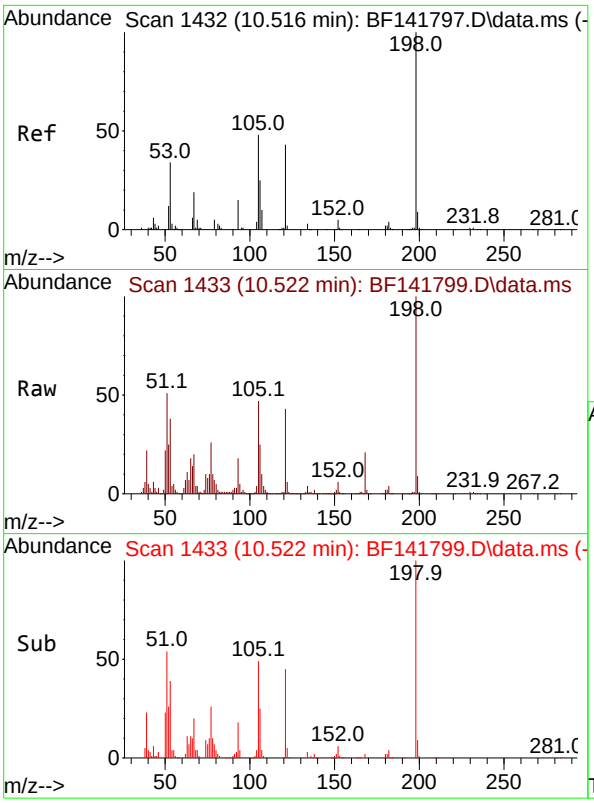




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:188 Resp: 999271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.4 | 8.9 | 13.3 |
| 80 | 11.6 | 9.7 | 14.5 |



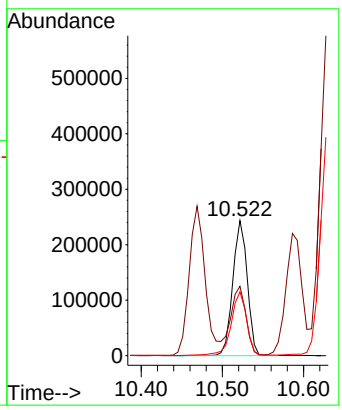


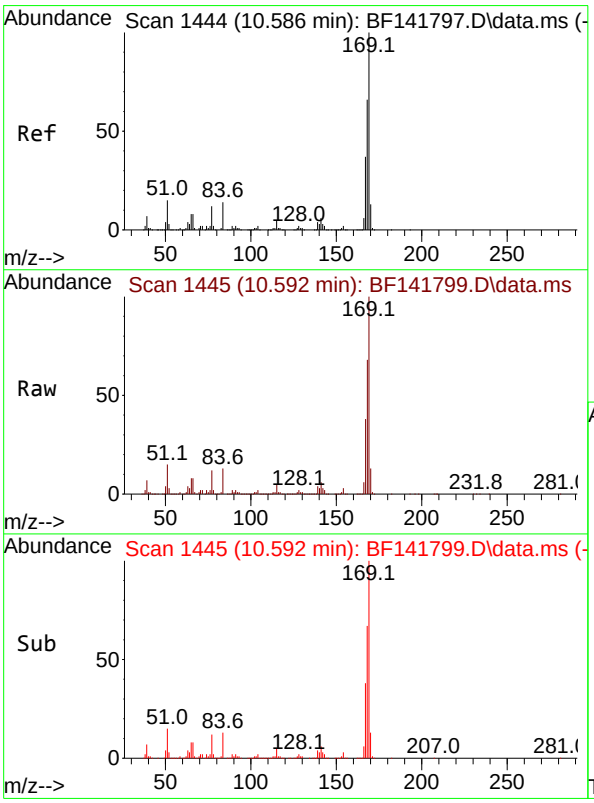

#65
4,6-Dinitro-2-methylphenol
Concen: 61.255 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:198 Resp: 300954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 51.4 | 32.1 | 72.1 |
| 105 | 47.2 | 28.5 | 68.5 |

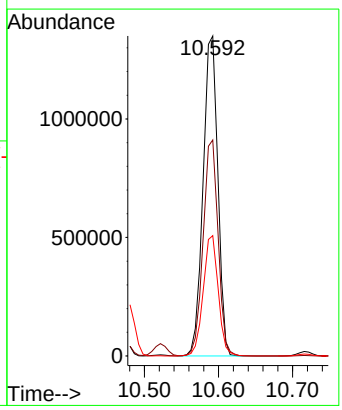


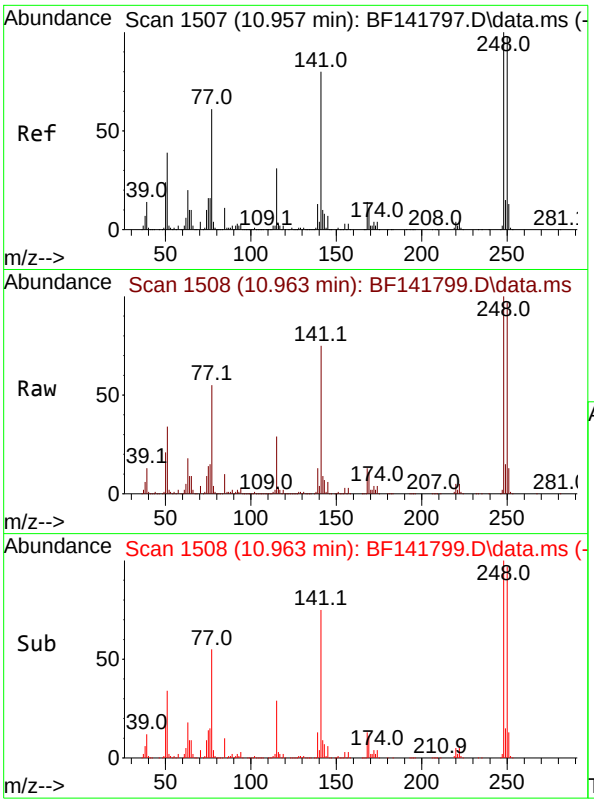




#66
n-Nitrosodiphenylamine
Concen: 56.913 ng
RT: 10.592 min Scan# 1445
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:169 Resp: 1867463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 67.5 | 53.0 | 79.6 |
| 167 | 37.6 | 29.3 | 43.9 |



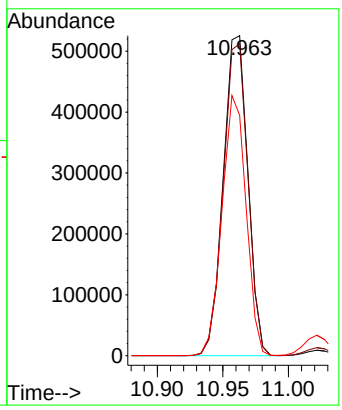


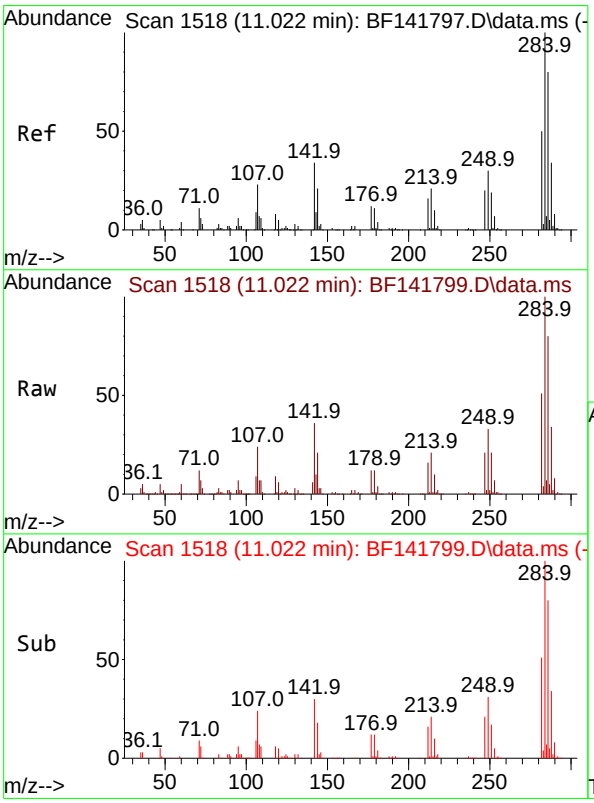

#67
4-Bromophenyl-phenylether
Concen: 59.012 ng
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:248 Resp: 688777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.5 | 78.1 | 117.1 |
| 141 | 75.2 | 64.3 | 96.5 |

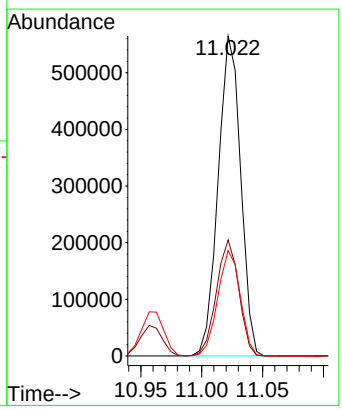


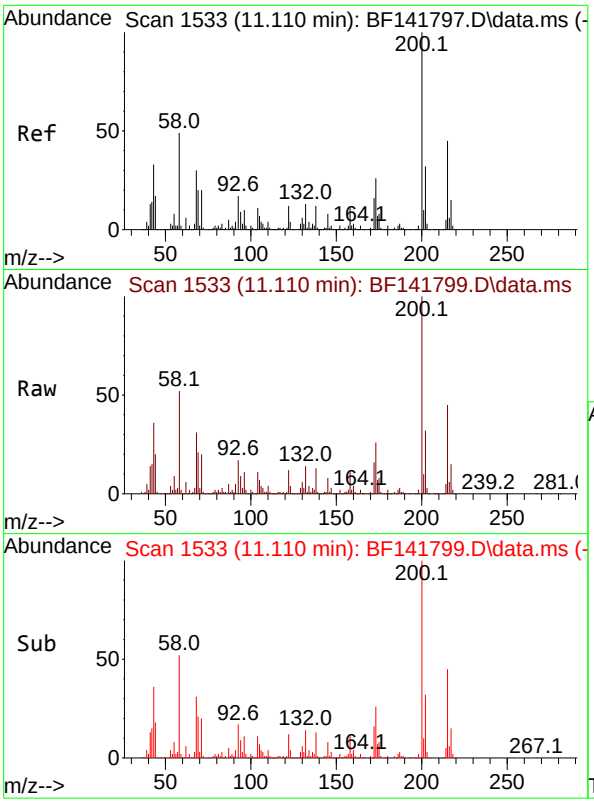




#68
Hexachlorobenzene
Concen: 58.945 ng
RT: 11.022 min Scan# 1518
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:284 Resp: 726507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 36.3 | 28.2 | 42.2 |
| 249 | 33.0 | 25.5 | 38.3 |



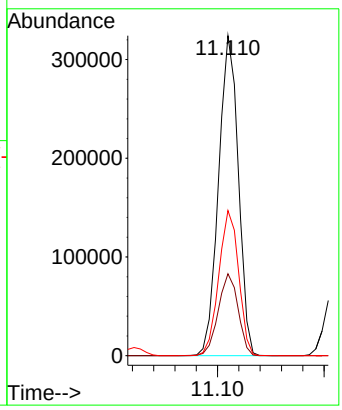


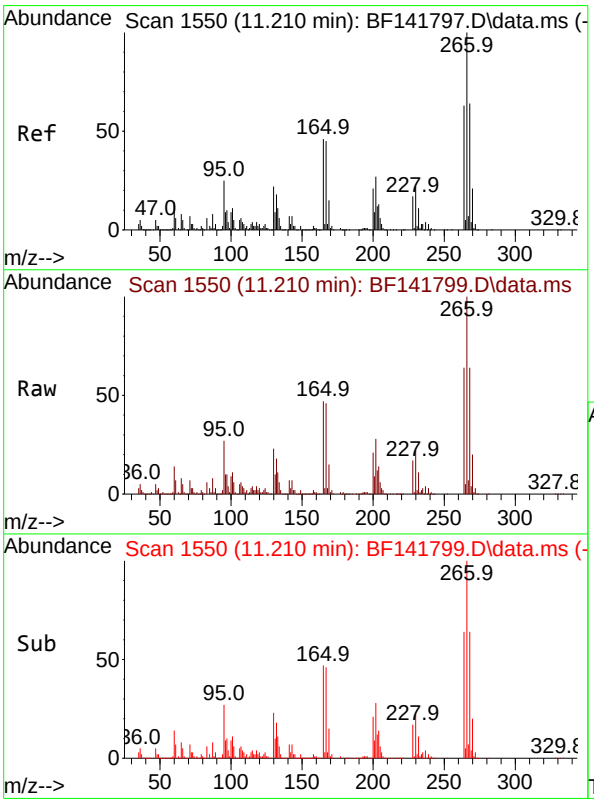

#69
Atrazine
Concen: 46.200 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:200 Resp: 416878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.6 | 5.6 | 45.6 |
| 215 | 45.3 | 25.3 | 65.3 |

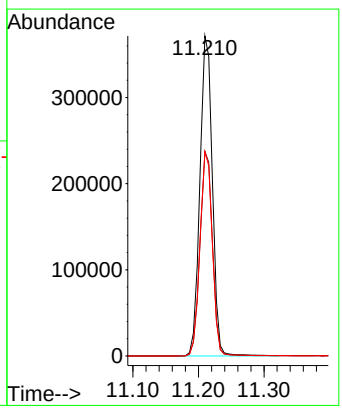


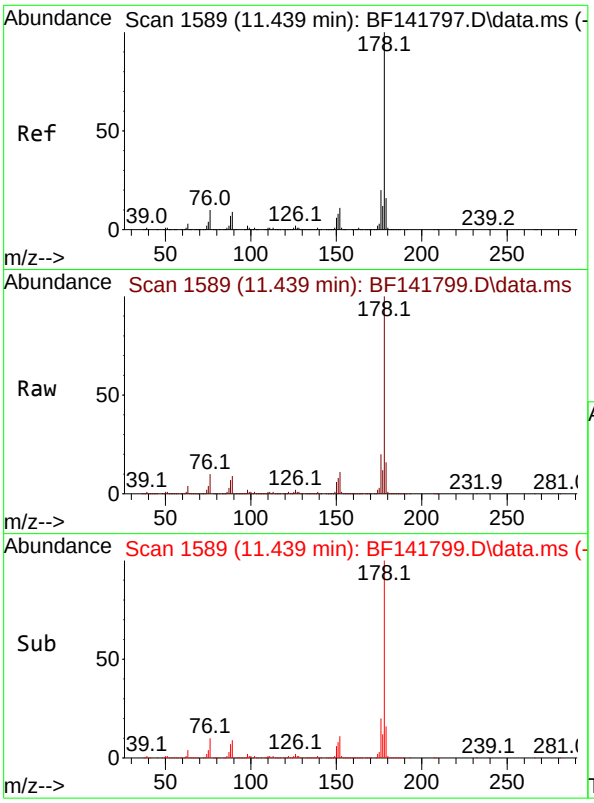




#70
Pentachlorophenol
Concen: 62.968 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:266 Resp: 492228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.9 | 50.9 | 76.3 |
| 264 | 63.8 | 50.2 | 75.4 |



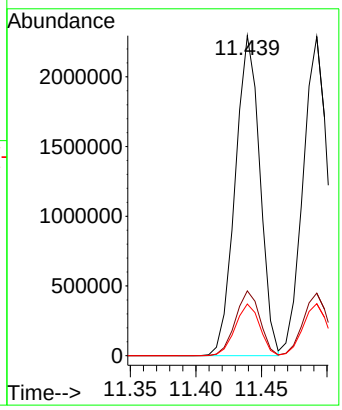


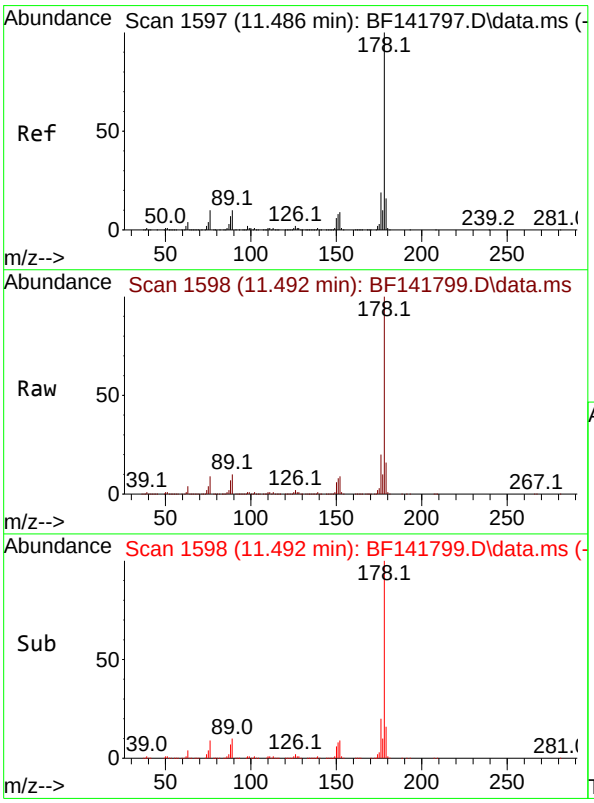

#71
Phenanthrene
Concen: 56.165 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:178 Resp: 3002094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.2 | 16.0 | 24.0 |
| 179 | 16.2 | 12.6 | 19.0 |

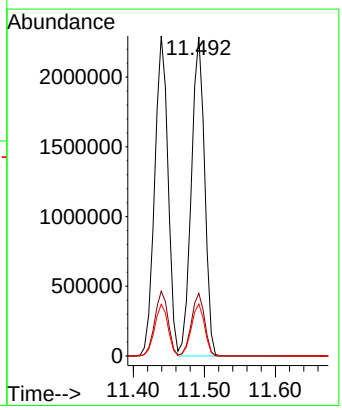


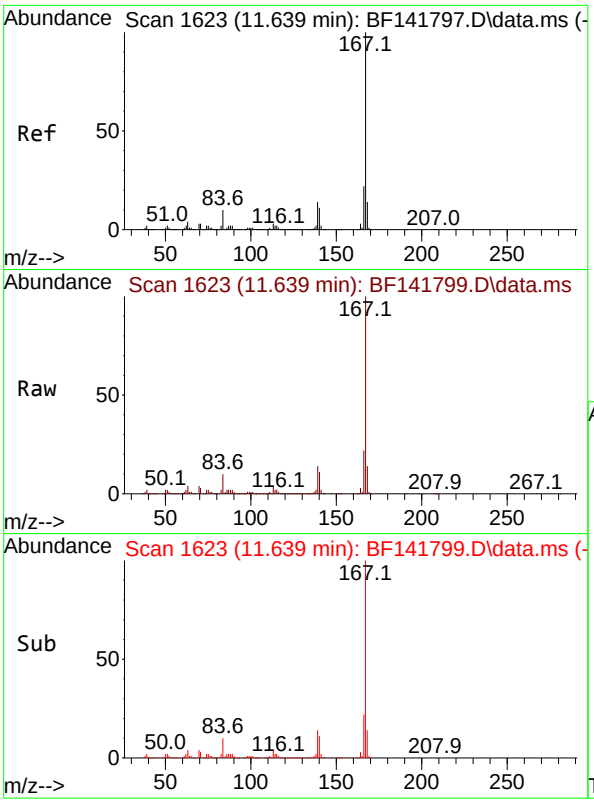




#72
Anthracene
Concen: 55.373 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:178 Resp: 2966353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 15.4 | 23.0 |
| 179 | 16.3 | 12.8 | 19.2 |



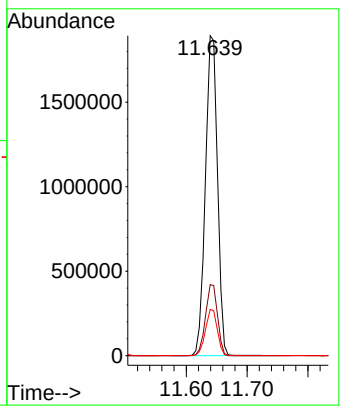


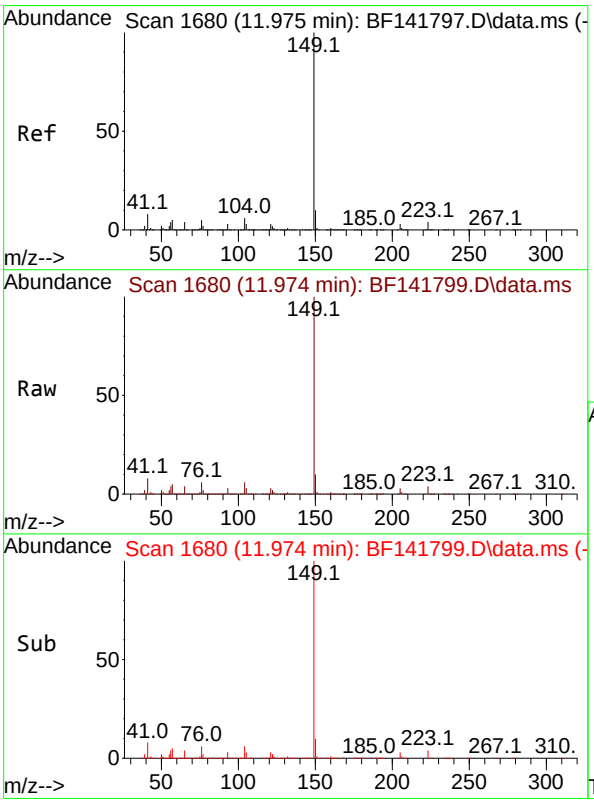

#73
Carbazole
Concen: 55.217 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:167 Resp: 2612132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.2 | 17.5 | 26.3 |
| 139 | 14.5 | 11.3 | 16.9 |

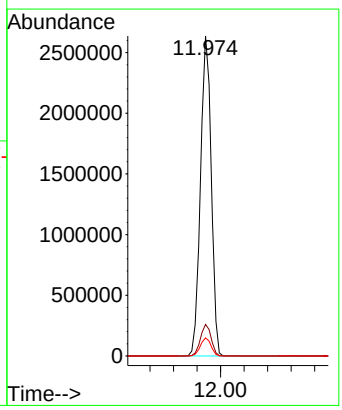


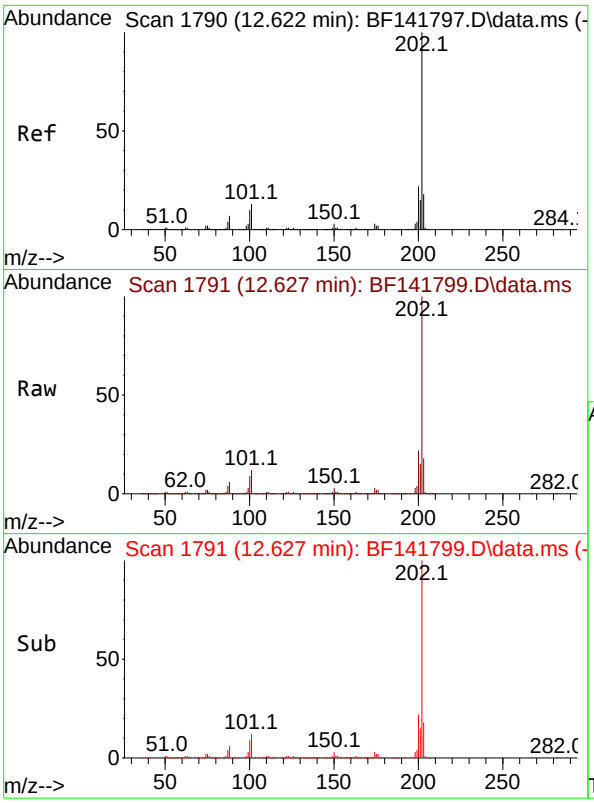




#74
Di-n-butylphthalate
Concen: 55.675 ng
RT: 11.974 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:149 Resp: 3338525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.9 | 7.7 | 11.5 |
| 104 | 5.7 | 4.4 | 6.6 |



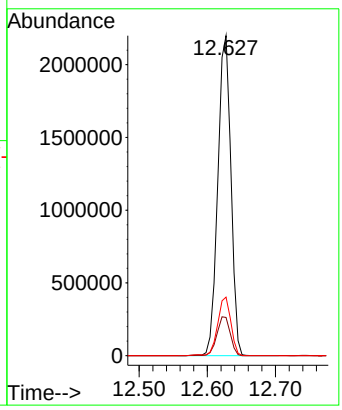


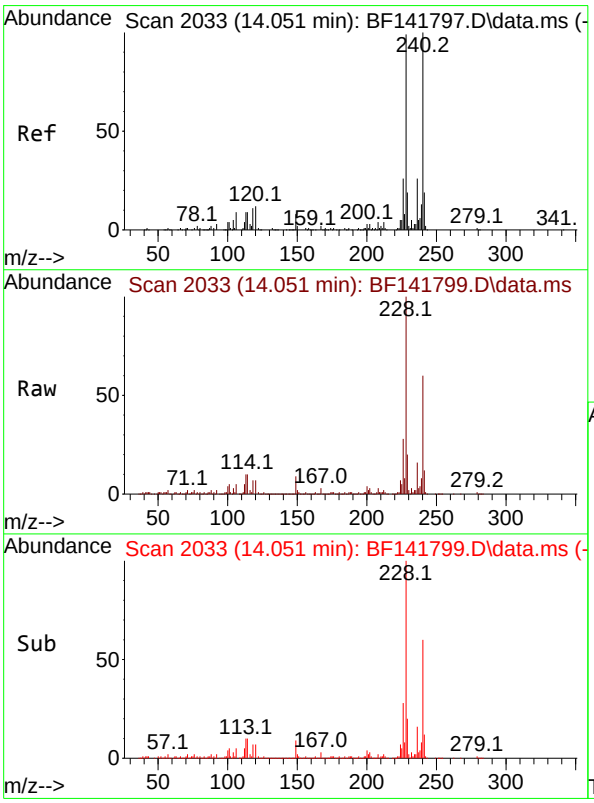

#75
Fluoranthene
Concen: 53.680 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:202 Resp: 2940034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.0 | 0.0 | 32.8 |
| 203 | 18.3 | 0.0 | 38.0 |

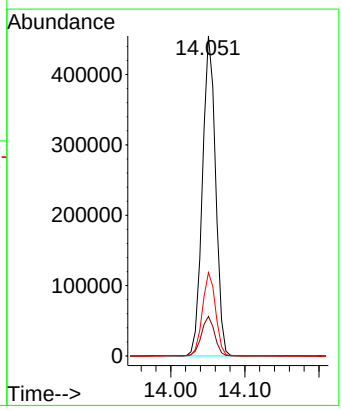


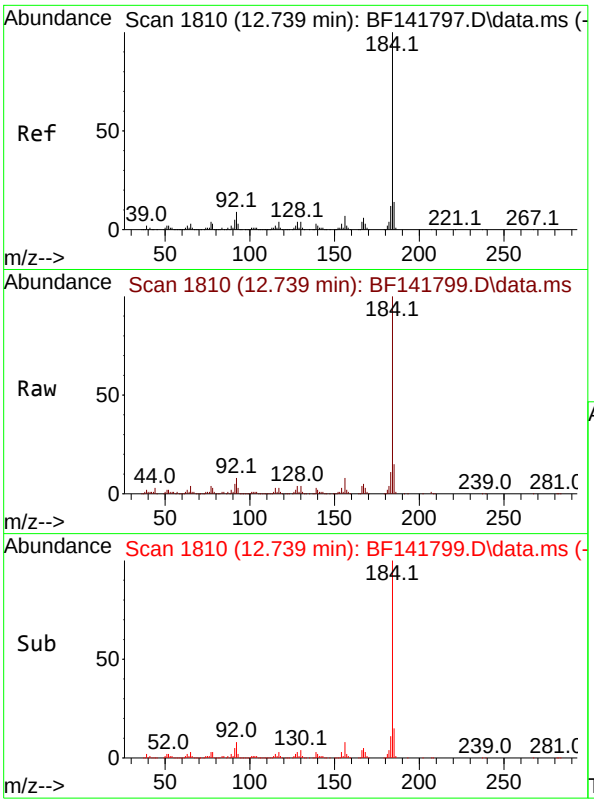




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:240 Resp: 562939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.4 | 9.7 | 14.5 |
| 236 | 26.0 | 21.0 | 31.4 |



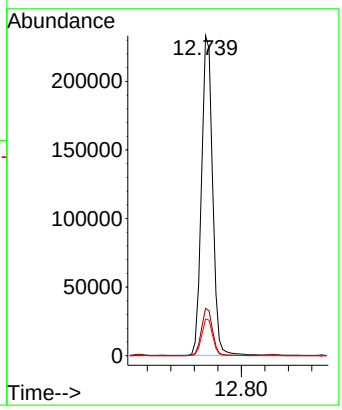


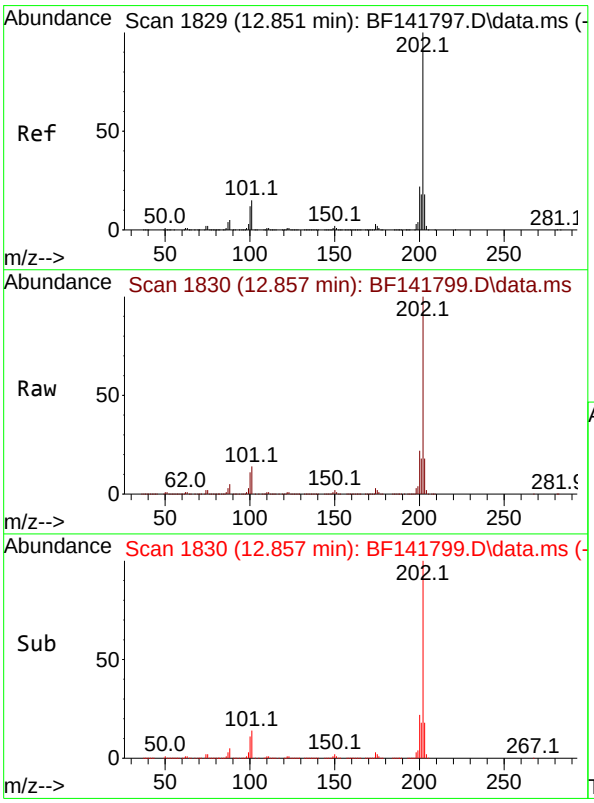

#77
Benzidine
Concen: 43.207 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:184 Resp: 306135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.8 | 11.6 | 17.4 |
| 183 | 11.4 | 9.4 | 14.0 |

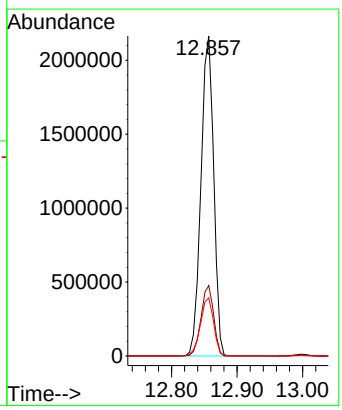


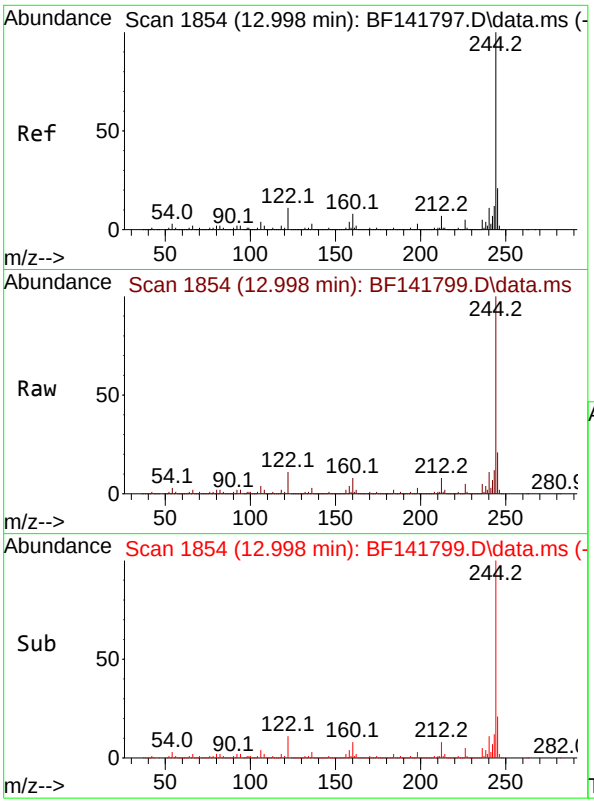




#78
Pyrene
Concen: 60.064 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:202 Resp: 2927964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.0 | 17.4 | 26.0 |
| 203 | 18.2 | 14.6 | 22.0 |



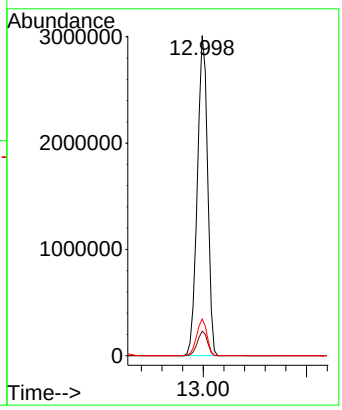


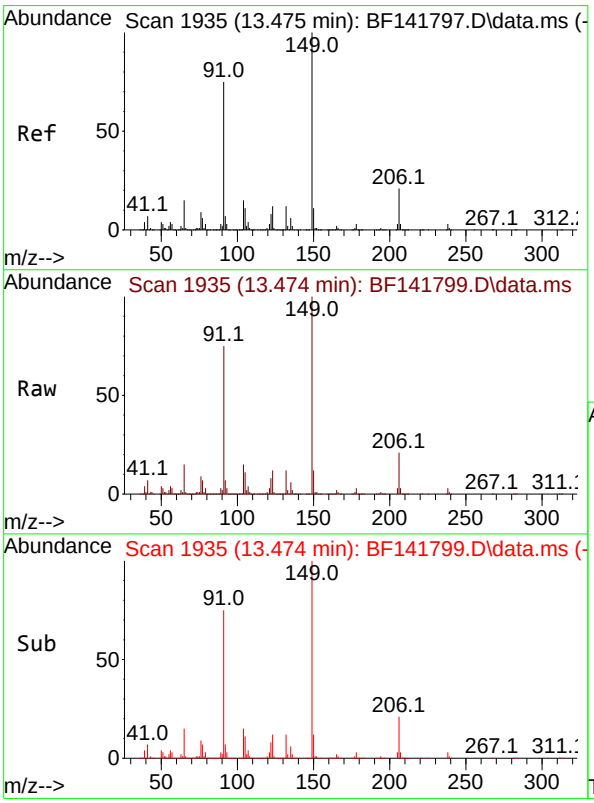

#79
Terphenyl-d14
Concen: 119.098 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:244 Resp: 4143891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.7 | 6.0 | 9.0 |
| 122 | 11.5 | 9.0 | 13.6 |

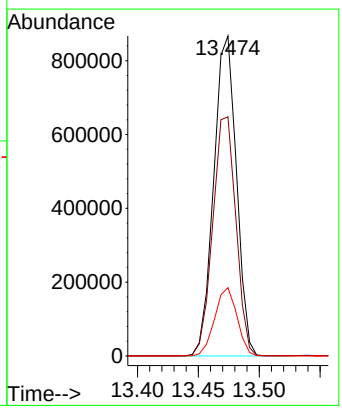


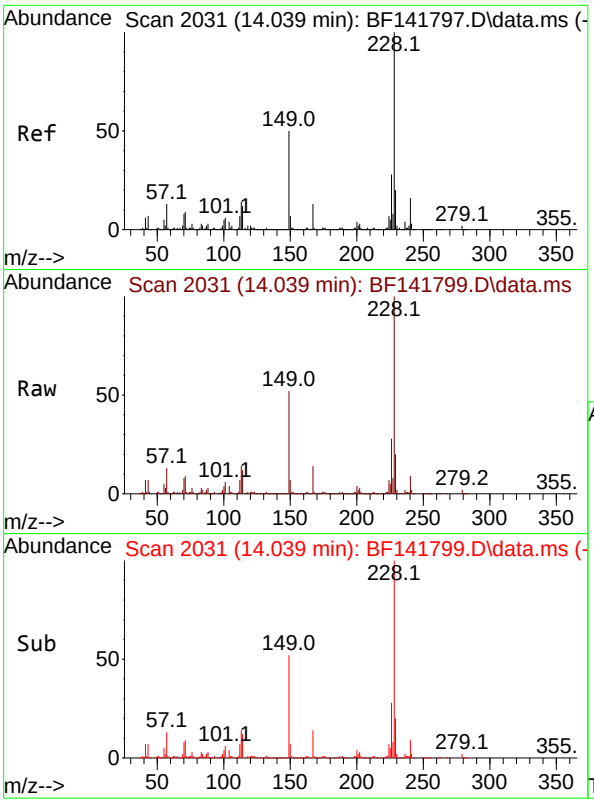




#80
Butylbenzylphthalate
Concen: 63.605 ng
RT: 13.474 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:149 Resp: 1126511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 74.8 | 60.1 | 90.1 |
| 206 | 21.3 | 16.8 | 25.2 |



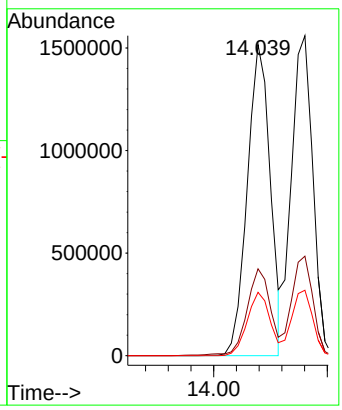


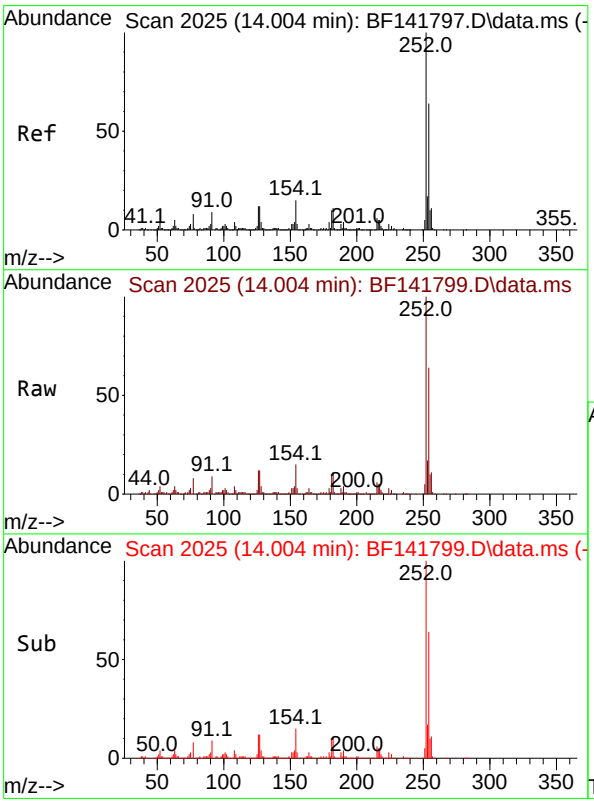

#81
Benzo(a)anthracene
Concen: 57.309 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:228 Resp: 2130928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.9 | 22.1 | 33.1 |
| 229 | 20.4 | 16.1 | 24.1 |

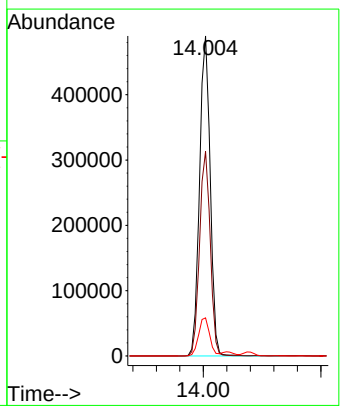


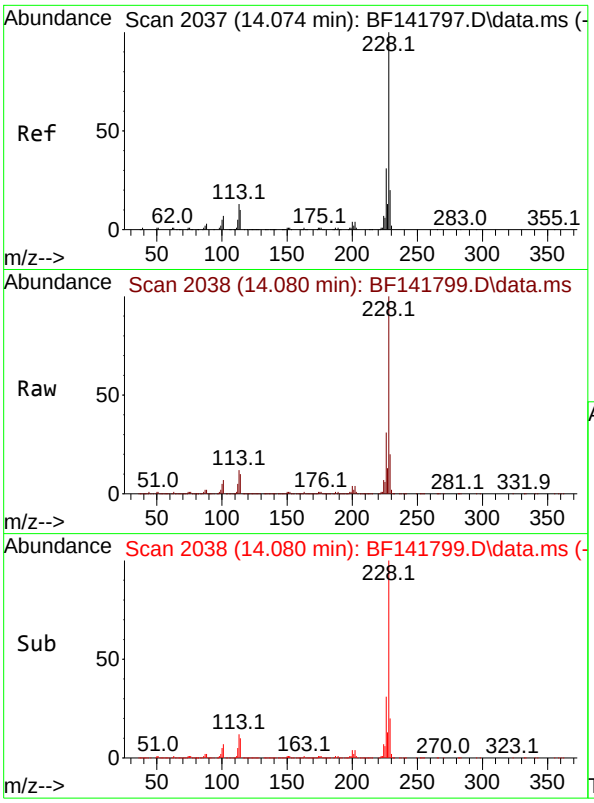




#82
3,3'-Dichlorobenzidine
Concen: 57.639 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:252 Resp: 614898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 63.9 | 51.4 | 77.0 |
| 126 | 11.9 | 9.8 | 14.6 |



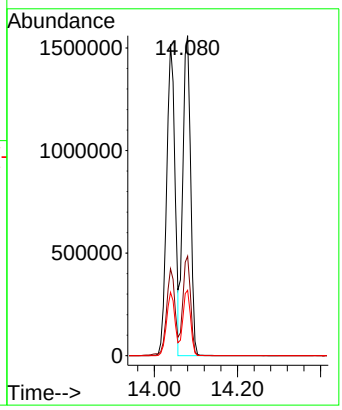


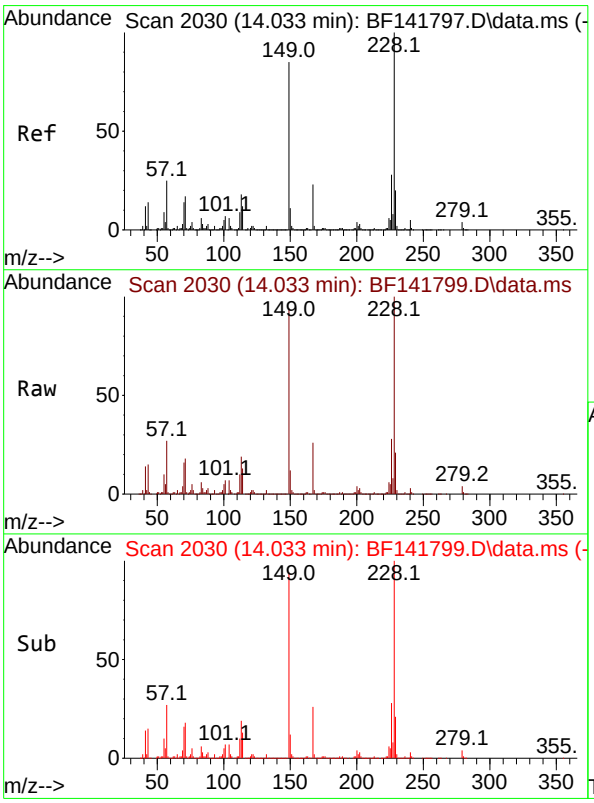

#83
Chrysene
Concen: 59.545 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:228 Resp: 2040957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.1 | 24.6 | 37.0 |
| 229 | 20.4 | 16.1 | 24.1 |

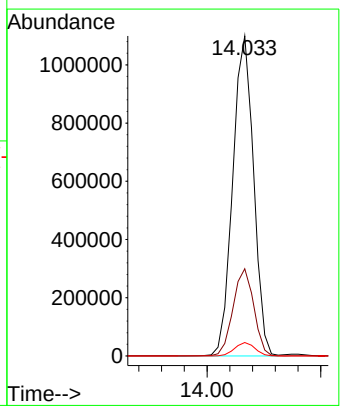


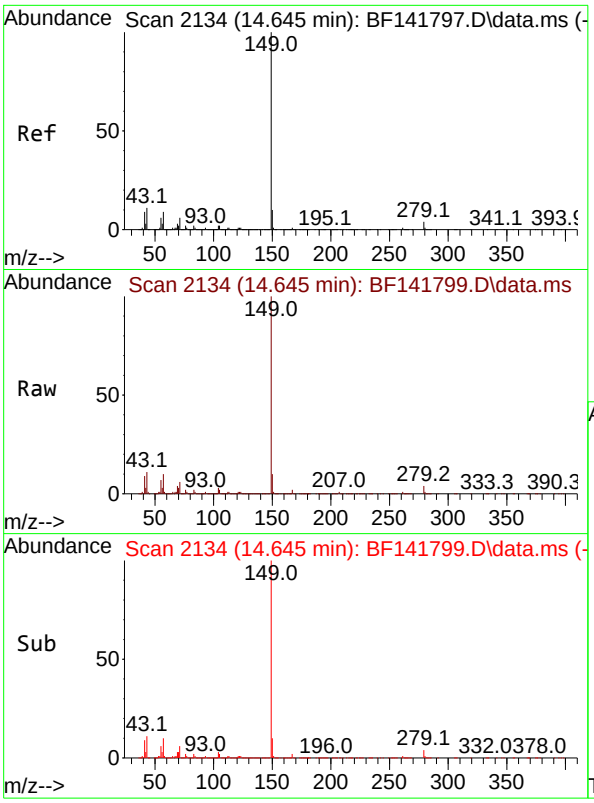




#84
Bis(2-ethylhexyl)phthalate
Concen: 63.421 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:149 Resp: 1398602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.2 | 21.2 | 31.8 |
| 279 | 4.2 | 3.3 | 4.9 |



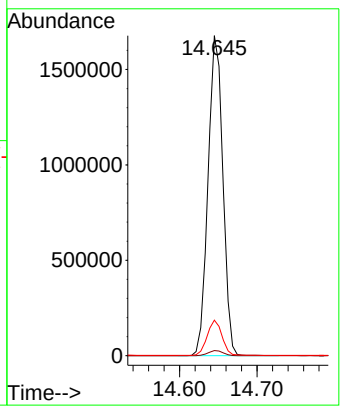


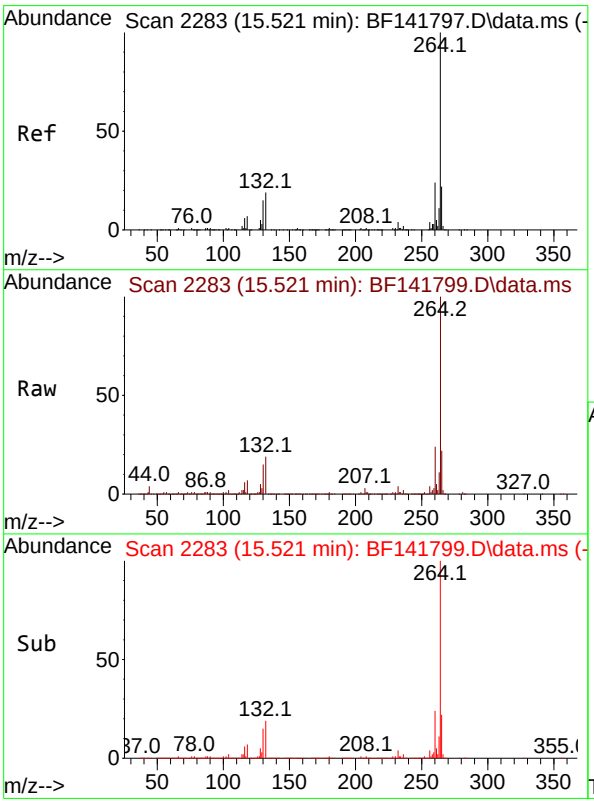

#85
Di-n-octyl phthalate
Concen: 67.411 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:149 Resp: 2225625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.2 | 1.8 |
| 43 | 11.0 | 8.6 | 12.8 |

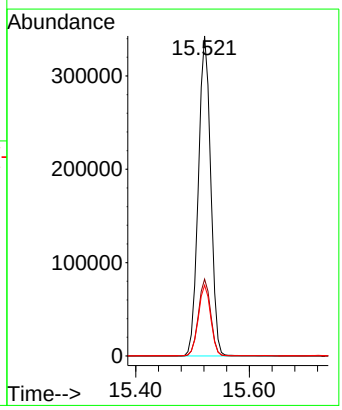


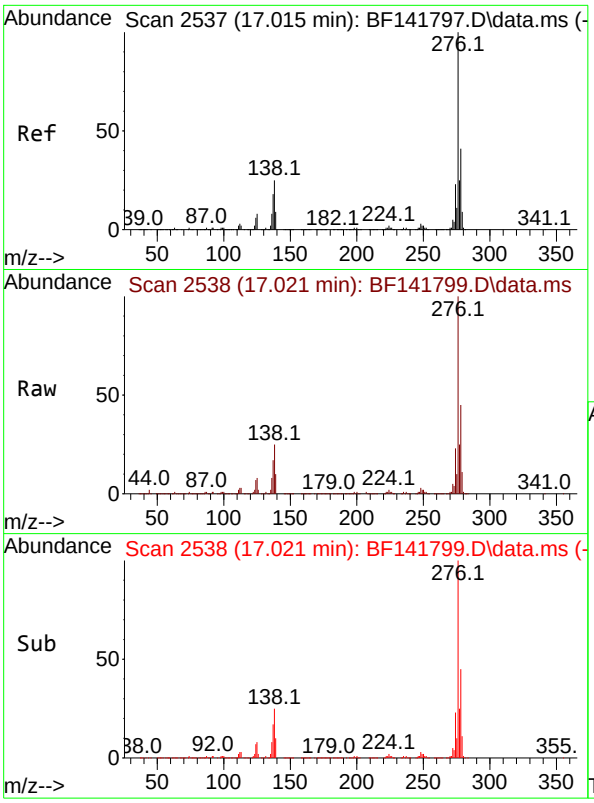




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:264 Resp: 517191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 24.0 | 18.9 | 28.3 |
| 265 | 22.1 | 17.4 | 26.0 |



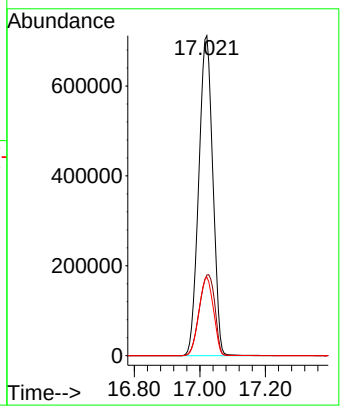


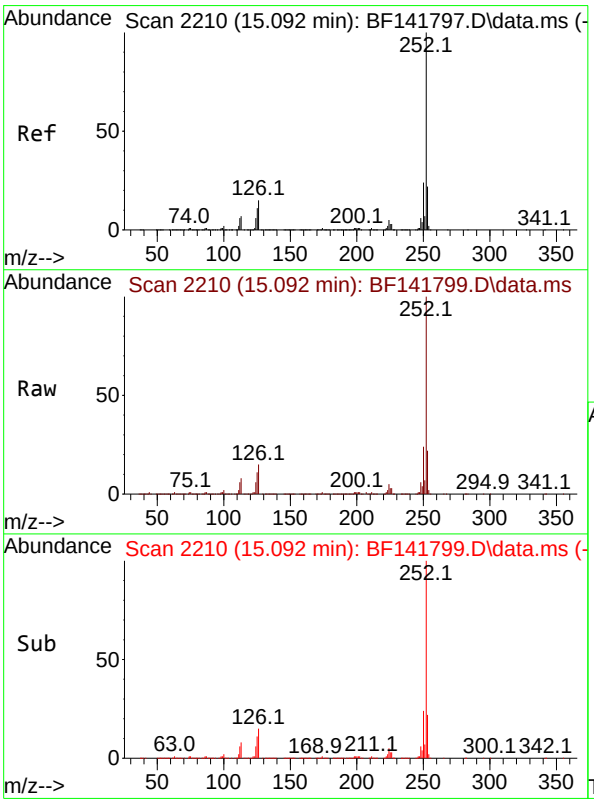

#87
Indeno(1,2,3-cd)pyrene
Concen: 64.589 ng
RT: 17.021 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:276 Resp: 2127125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.0 | 22.5 | 33.7 |
| 277 | 25.4 | 20.3 | 30.5 |

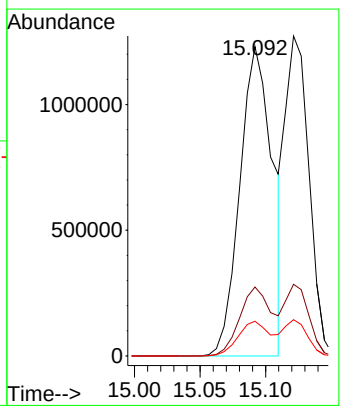


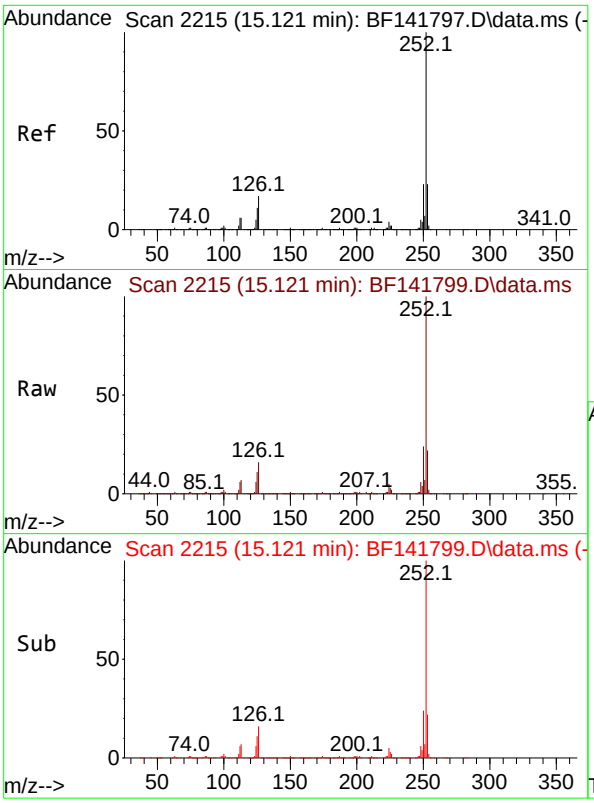




#88
Benzo(b)fluoranthene
Concen: 60.349 ng
RT: 15.092 min Scan# 2210
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:252 Resp: 2126076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.3 | 17.7 | 26.5 |
| 125 | 11.2 | 8.6 | 13.0 |



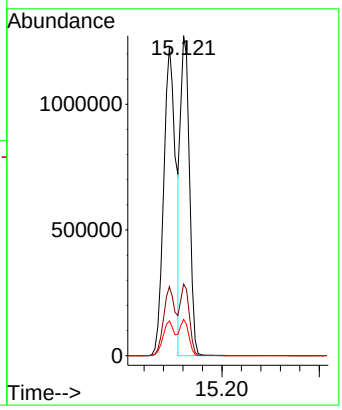


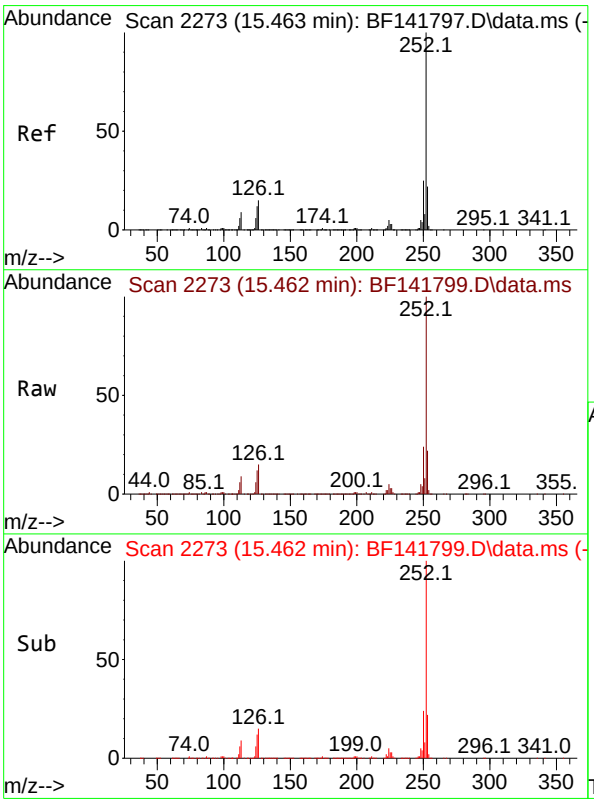

#89
Benzo(k)fluoranthene
Concen: 53.909 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:252 Resp: 1614240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.4 | 17.8 | 26.8 |
| 125 | 11.4 | 8.8 | 13.2 |

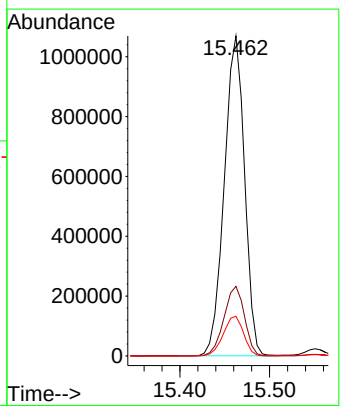


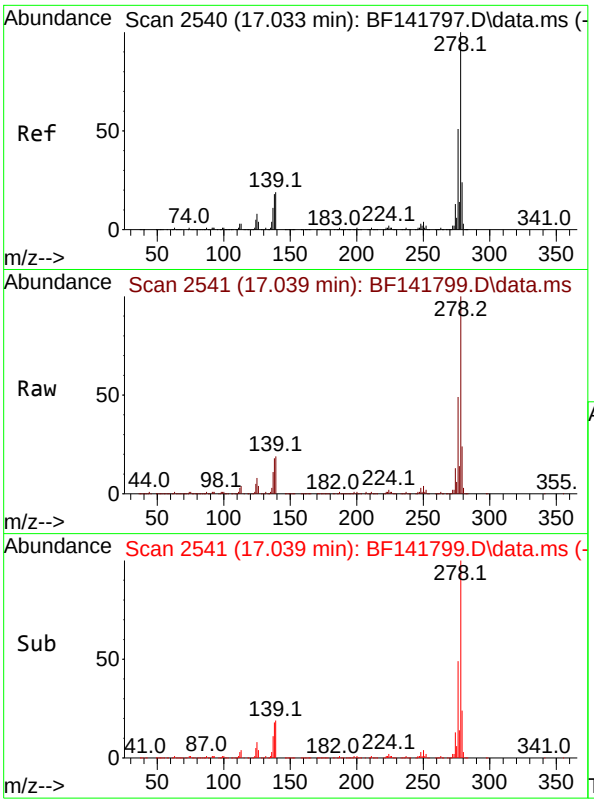




#90
Benzo(a)pyrene
Concen: 59.327 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:252 Resp: 1676196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.5 | 26.3 |
| 125 | 12.4 | 9.4 | 14.2 |



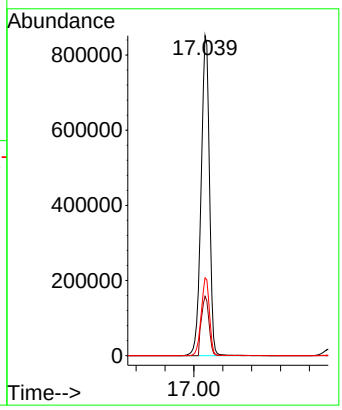


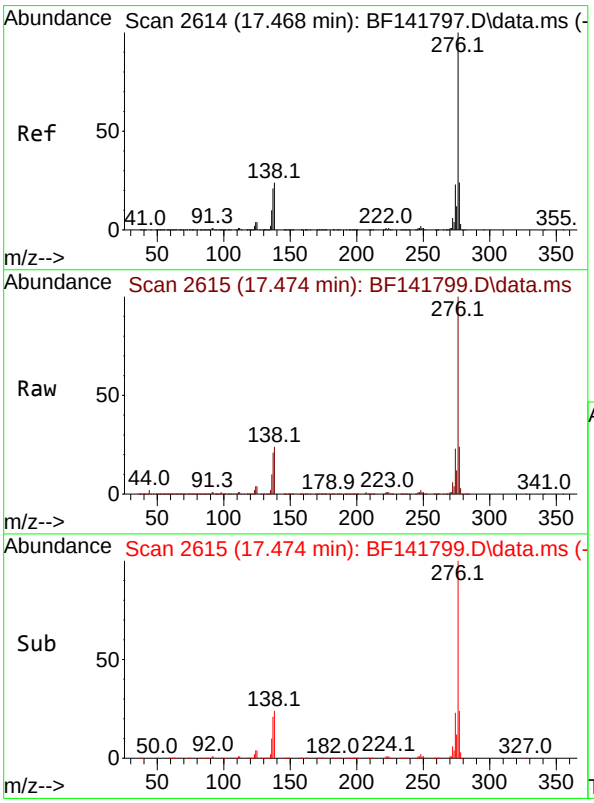

#91
Dibenzo(a,h)anthracene
Concen: 63.544 ng
RT: 17.039 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC060

Tgt Ion:278 Resp: 1708189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.5 | 14.9 | 22.3 |
| 279 | 24.4 | 19.3 | 28.9 |

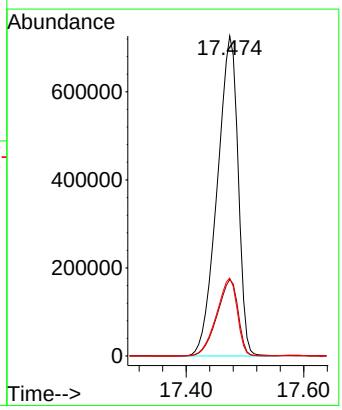



#92
Benzo(g,h,i)perylene
Concen: 65.105 ng
RT: 17.474 min Scan# 2615
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:276 Resp: 1792957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.9 | 19.4 | 29.0 |
| 138 | 24.3 | 19.3 | 28.9 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141800.D
Acq On : 27 Feb 2025 18:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 28 01:28:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 288826 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 1114934 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.927 | 164 | 596680 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.416 | 188 | 953117 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.051 | 240 | 523206 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.521 | 264 | 508610 | 20.000 | ng | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 5) 2-Fluorophenol | 5.504 | 112 | 2612441 | 144.448 | ng | | 0.00 |
| 7) Phenol-d6 | 6.522 | 99 | 3411771 | 144.934 | ng | | 0.01 |
| 23) Nitrobenzene-d5 | 7.463 | 82 | 3027619 | 173.576 | ng | | 0.01 |
| 42) 2,4,6-Tribromophenol | 10.722 | 330 | 924112 | 164.969 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.251 | 172 | 5006600 | 134.541 | ng | | 0.00 |
| 79) Terphenyl-d14 | 13.004 | 244 | 4843134 | 149.765 | ng | | 0.00 |
| **Target Compounds** | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.675 | 88 | 624874 | 76.145 | ng | | 100 |
| 3) Pyridine | 3.446 | 79 | 1560139 | 76.409 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.410 | 42 | 788941 | 80.304 | ng | | 98 |
| 6) Aniline | 6.551 | 93 | 1743358m | 71.624 | ng | | |
| 8) 2-Chlorophenol | 6.681 | 128 | 1409554 | 72.047 | ng | | 99 |
| 9) Benzaldehyde | 6.445 | 77 | 801799 | 58.556 | ng | | 100 |
| 10) Phenol | 6.539 | 94 | 1807328m | 72.063 | ng | | |
| 11) bis(2-Chloroethyl)ether | 6.634 | 93 | 1461868 | 76.240 | ng | | 96 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 1510694 | 72.103 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 1522041 | 72.097 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.069 | 146 | 1370457 | 69.519 | ng | | 99 |
| 15) Benzyl Alcohol | 7.034 | 79 | 1363091 | 72.454 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.169 | 45 | 2095843 | 71.973 | ng | | 98 |
| 17) 2-Methylphenol | 7.139 | 107 | 1211432 | 75.016 | ng | | 99 |
| 18) Hexachloroethane | 7.404 | 117 | 593057 | 75.056 | ng | | 98 |
| 19) n-Nitroso-di-n-propyla... | 7.322 | 70 | 1126427 | 72.793 | ng | | 98 |
| 20) 3+4-Methylphenols | 7.298 | 107 | 1383814 | 68.816 | ng | # | 88 |
| 22) Acetophenone | 7.310 | 105 | 1933636 | 71.209 | ng | | 99 |
| 24) Nitrobenzene | 7.481 | 77 | 1579955 | 84.587 | ng | | 100 |
| 25) Isophorone | 7.722 | 82 | 2894041 | 77.230 | ng | | 100 |
| 26) 2-Nitrophenol | 7.792 | 139 | 705125 | 81.046 | ng | | 100 |
| 27) 2,4-Dimethylphenol | 7.822 | 122 | 1051076 | 76.304 | ng | | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.928 | 93 | 1759255 | 73.596 | ng | | 99 |
| 29) 2,4-Dichlorophenol | 8.028 | 162 | 1227409 | 77.239 | ng | | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.116 | 180 | 1304033 | 74.888 | ng | | 99 |
| 31) Naphthalene | 8.198 | 128 | 4040110 | 70.504 | ng | | 99 |
| 32) Benzoic acid | 7.975 | 122 | 1008619 | 81.363 | ng | | 99 |
| 33) 4-Chloroaniline | 8.251 | 127 | 1607098 | 76.489 | ng | | 100 |
| 34) Hexachlorobutadiene | 8.316 | 225 | 836069 | 77.265 | ng | | 99 |
| 35) Caprolactam | 8.639 | 113 | 383145 | 78.359 | ng | | 99 |
| 36) 4-Chloro-3-methylphenol | 8.722 | 107 | 1349234 | 76.431 | ng | | 99 |
| 37) 2-Methylnaphthalene | 8.886 | 142 | 2637302 | 70.167 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.986 | 142 | 2541019 | 70.457 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.051 | 216 | 1288540 | 74.773 | ng | | 99 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 564266 | 78.461 | ng | | 99 |
| 43) 2,4,6-Trichlorophenol | 9.163 | 196 | 898797 | 80.742 | ng | | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141800.D
Acq On : 27 Feb 2025 18:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 28 01:28:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.198 | 196 | 859610 | 77.984 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.357 | 154 | 3156440 | 69.499 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.380 | 162 | 2401468 | 71.641 | ng | | 98 |
| 48) 2-Nitroaniline | 9.469 | 65 | 770567 | 80.727 | ng | | 99 |
| 49) Acenaphthylene | 9.792 | 152 | 3512076 | 69.880 | ng | | 99 |
| 50) Dimethylphthalate | 9.663 | 163 | 2921217 | 73.107 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.716 | 165 | 622623 | 79.481 | ng | | 100 |
| 52) Acenaphthene | 9.969 | 154 | 2480302 | 73.139 | ng | | 100 |
| 53) 3-Nitroaniline | 9.886 | 138 | 667119 | 79.835 | ng | | 97 |
| 54) 2,4-Dinitrophenol | 9.986 | 184 | 277943 | 79.409 | ng | # | 1 |
| 55) Dibenzofuran | 10.139 | 168 | 3427897 | 69.448 | ng | | 98 |
| 56) 4-Nitrophenol | 10.033 | 139 | 541317 | 91.723 | ng | | 100 |
| 57) 2,4-Dinitrotoluene | 10.122 | 165 | 764012 | 79.344 | ng | | 97 |
| 58) Fluorene | 10.480 | 166 | 2557382 | 69.170 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.251 | 232 | 752913 | 78.537 | ng | | 99 |
| 60) Diethylphthalate | 10.357 | 149 | 2893471 | 72.232 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 1341441 | 72.414 | ng | | 99 |
| 62) 4-Nitroaniline | 10.504 | 138 | 611855 | 89.663 | ng | | 99 |
| 63) Azobenzene | 10.633 | 77 | 3013185 | 71.441 | ng | | 98 |
| 65) 4,6-Dinitro-2-methylph... | 10.527 | 198 | 393349 | 80.929 | ng | | 98 |
| 66) n-Nitrosodiphenylamine | 10.592 | 169 | 2313580 | 73.923 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.963 | 248 | 852216 | 76.550 | ng | | 98 |
| 68) Hexachlorobenzene | 11.027 | 284 | 902644 | 76.782 | ng | | 97 |
| 70) Pentachlorophenol | 11.216 | 266 | 610264 | 81.849 | ng | | 100 |
| 71) Phenanthrene | 11.439 | 178 | 3584436 | 70.307 | ng | | 99 |
| 72) Anthracene | 11.492 | 178 | 3550480 | 69.487 | ng | | 98 |
| 73) Carbazole | 11.645 | 167 | 3130504 | 69.380 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.974 | 149 | 3944814 | 68.971 | ng | | 99 |
| 75) Fluoranthene | 12.627 | 202 | 3496011 | 66.922 | ng | | 99 |
| 77) Benzidine | 12.745 | 184 | 660393 | 100.283 | ng | | 99 |
| 78) Pyrene | 12.857 | 202 | 3466035 | 76.502 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.474 | 149 | 1364388 | 82.887 | ng | | 100 |
| 81) Benzo(a)anthracene | 14.039 | 228 | 2703093 | 78.217 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 762858 | 76.939 | ng | | 100 |
| 83) Chrysene | 14.080 | 228 | 2394861 | 75.176 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 1730418 | 84.426 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.645 | 149 | 2821762 | 91.958 | ng | | 100 |
| 87) Indeno(1,2,3-cd)pyrene | 17.027 | 276 | 2842850 | 87.778 | ng | | 99 |
| 88) Benzo(b)fluoranthene | 15.092 | 252 | 2556011 | 73.777 | ng | | 98 |
| 89) Benzo(k)fluoranthene | 15.127 | 252 | 2184261 | 74.176 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.468 | 252 | 2156583 | 77.617 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.051 | 278 | 2269377 | 85.844 | ng | | 99 |
| 92) Benzo(g,h,i)perylene | 17.486 | 276 | 2397751 | 88.534 | ng | | 99 |

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

ICAL Form

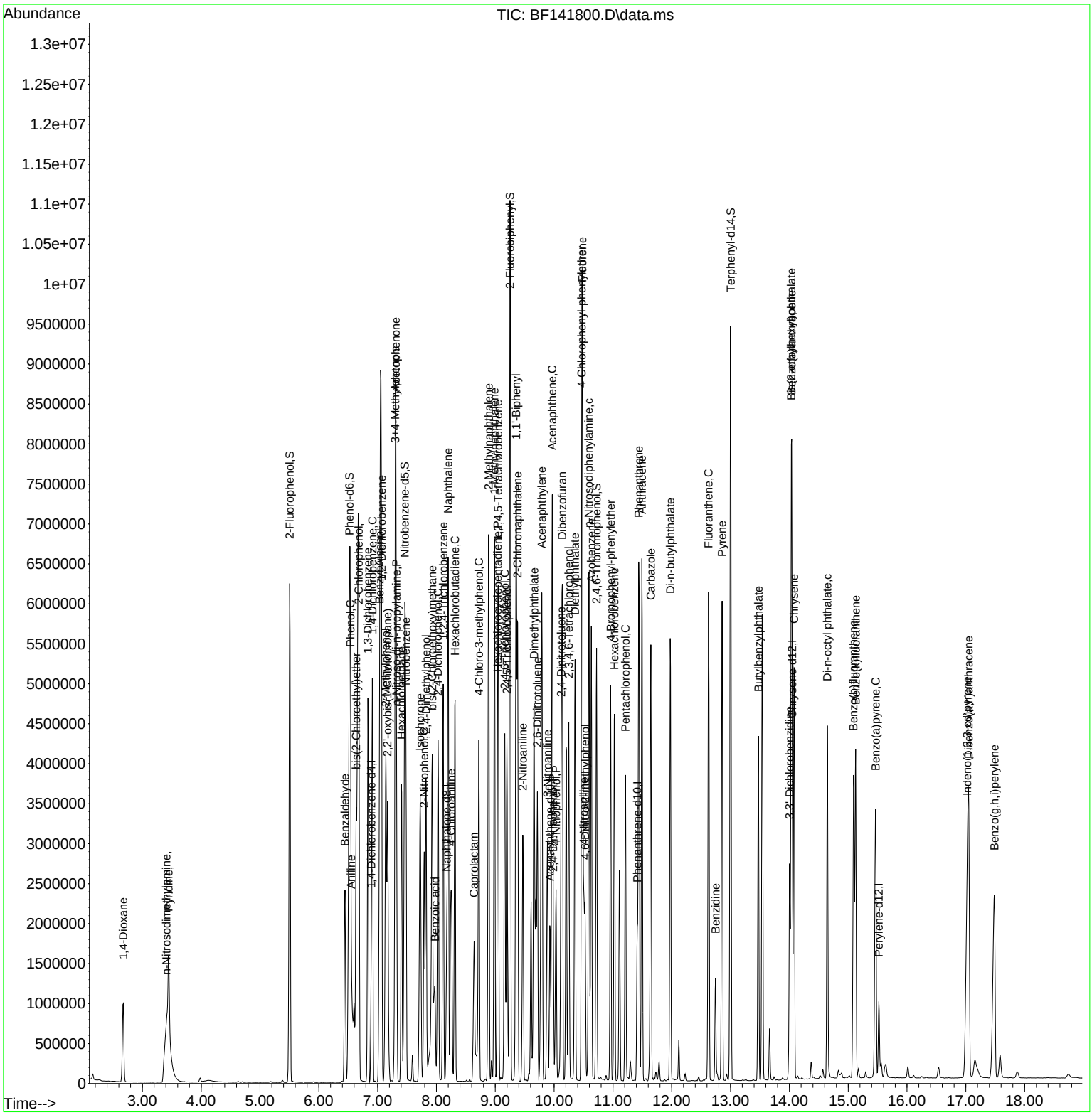
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141800.D
Acq On : 27 Feb 2025 18:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

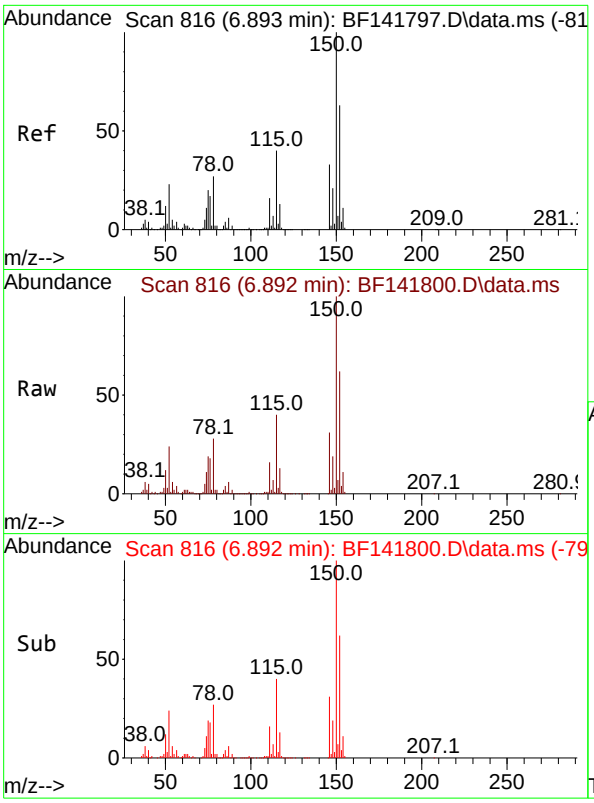
Quant Time: Feb 28 01:28:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

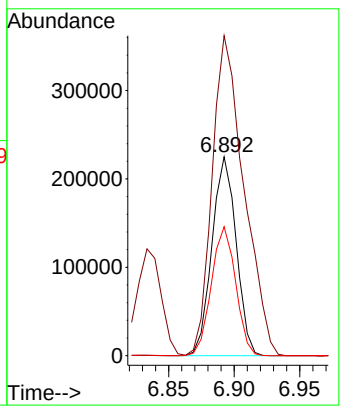





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 8
Delta R.T. -0.001 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:152 Resp: 28882

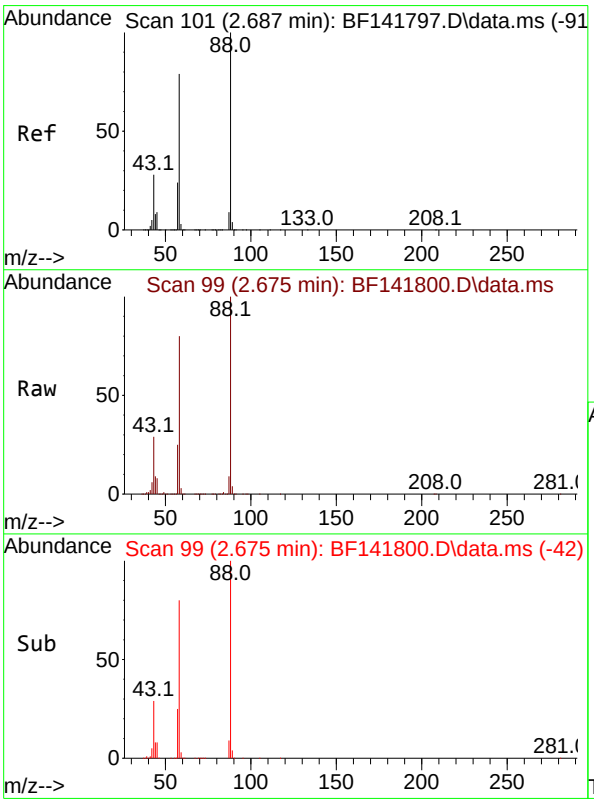
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.9 | 127.5 | 191.3 |
| 115 | 64.9 | 51.4 | 77.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

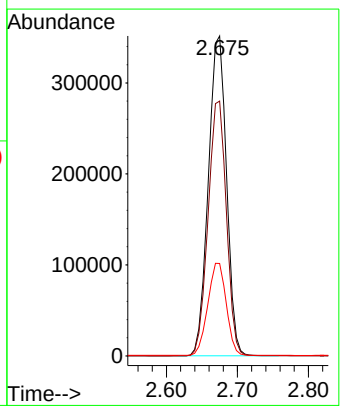
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

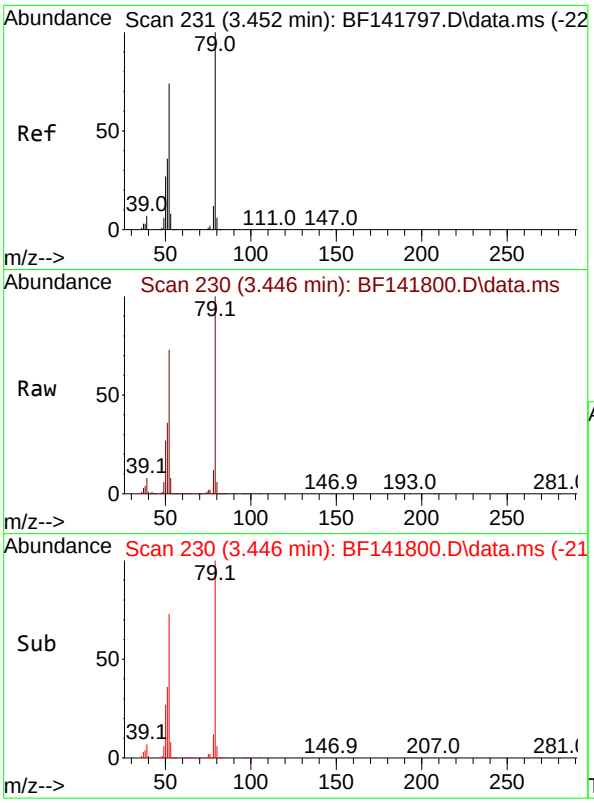



#2
1,4-Dioxane
Concen: 76.145 ng
RT: 2.675 min Scan# 99
Delta R.T. -0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 88 Resp: 624874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 80.3 | 63.9 | 95.9 |
| 43 | 29.2 | 23.0 | 34.6 |

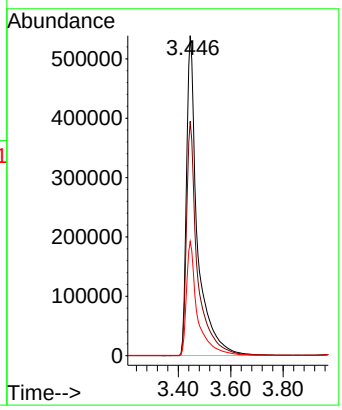





#3
Pyridine
Concen: 76.409 ng
RT: 3.446 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 79 Resp: 156013

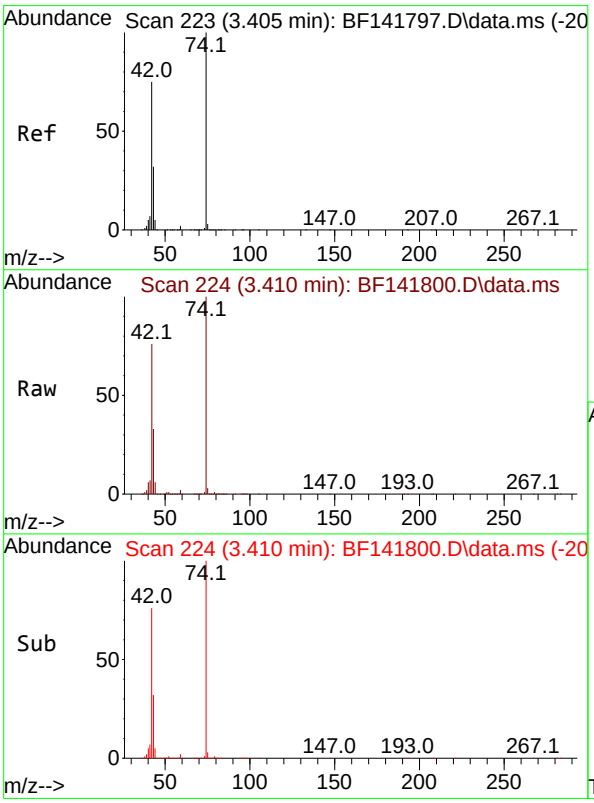
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 73.2 | 59.0 | 88.4 |
| 51 | 35.7 | 29.0 | 43.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

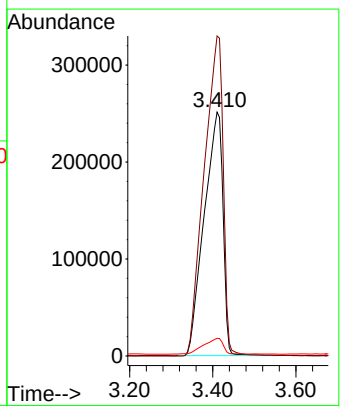
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

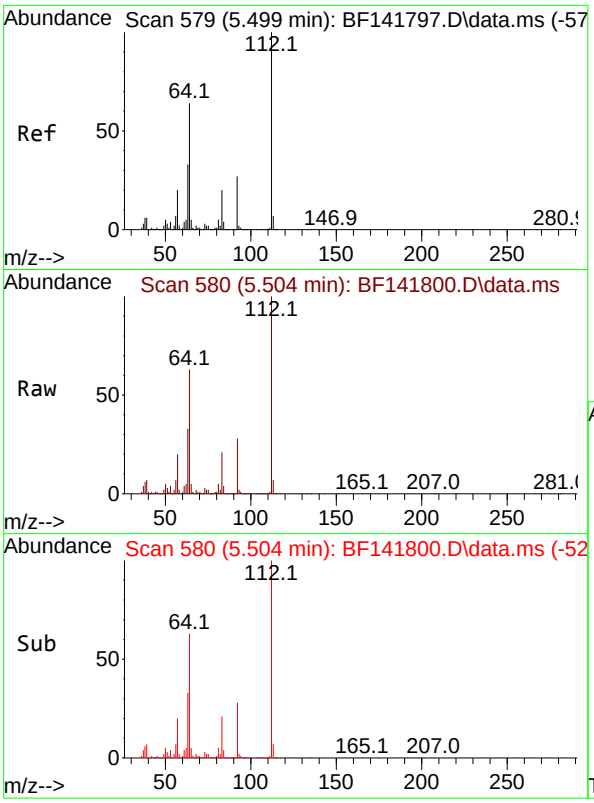



#4
n-Nitrosodimethylamine
Concen: 80.304 ng
RT: 3.410 min Scan# 224
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 42 Resp: 788941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 131.2 | 107.1 | 160.7 |
| 44 | 7.2 | 6.6 | 9.8 |






#5
2-Fluorophenol
Concen: 144.448 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

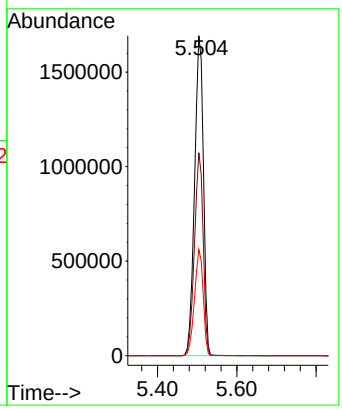
Tgt Ion:112 Resp: 261244

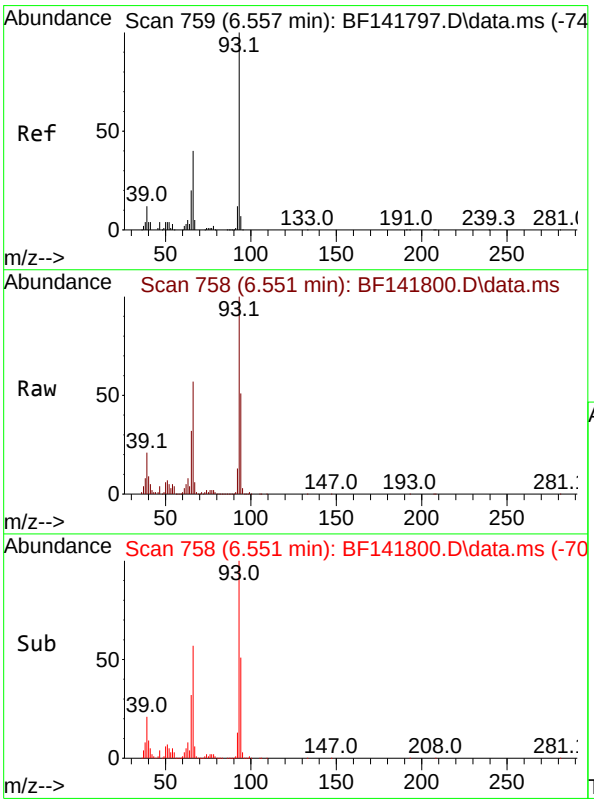
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 63.5 | 51.3 | 76.9 |
| 63 | 33.1 | 26.2 | 39.4 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

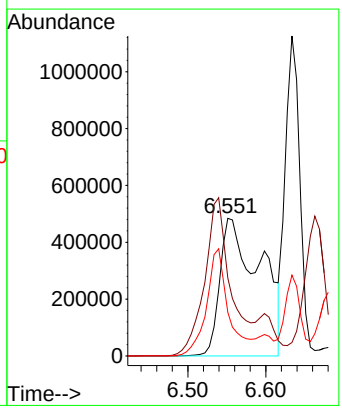


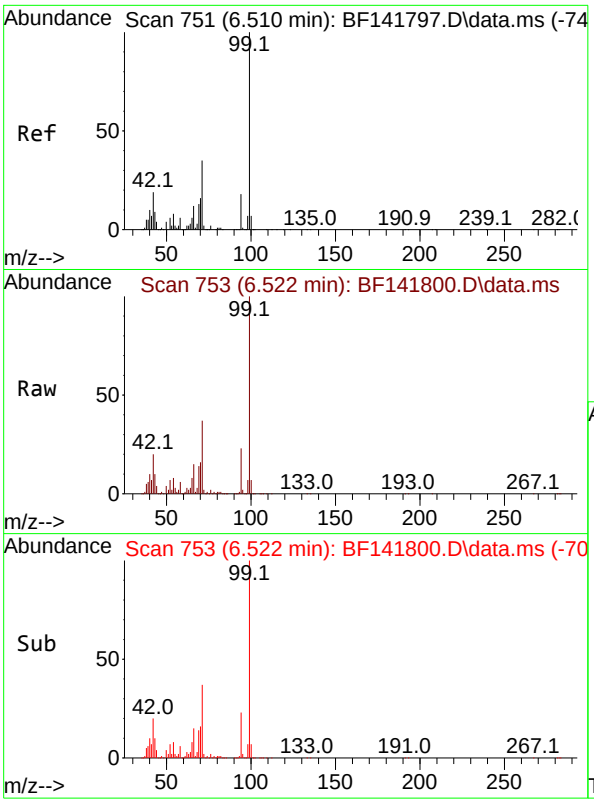




#6
Aniline
Concen: 71.624 ng m
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 93 Resp: 1743358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 56.8 | 32.3 | 48.5# |
| 65 | 31.8 | 15.9 | 23.9# |

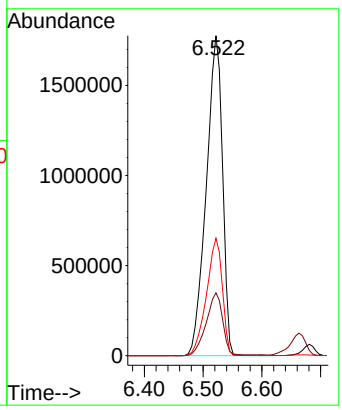





#7
Phenol-d6
Concen: 144.934 ng
RT: 6.522 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 99 Resp: 341177

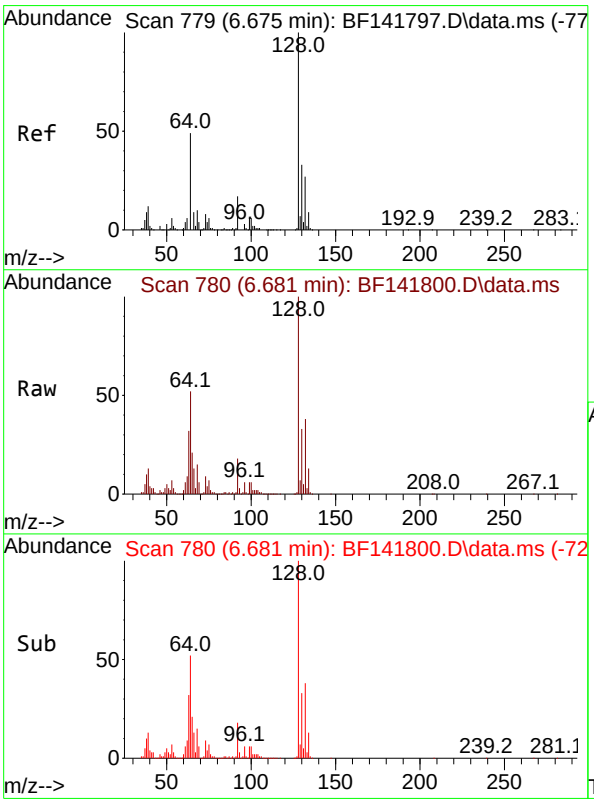
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.7 | 15.2 | 22.8 |
| 71 | 36.7 | 28.2 | 42.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

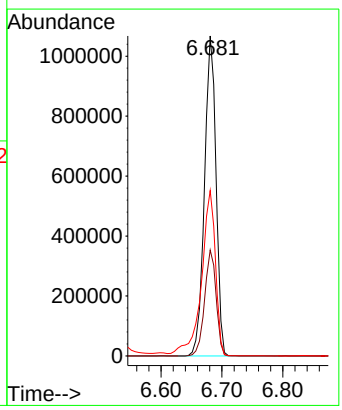
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

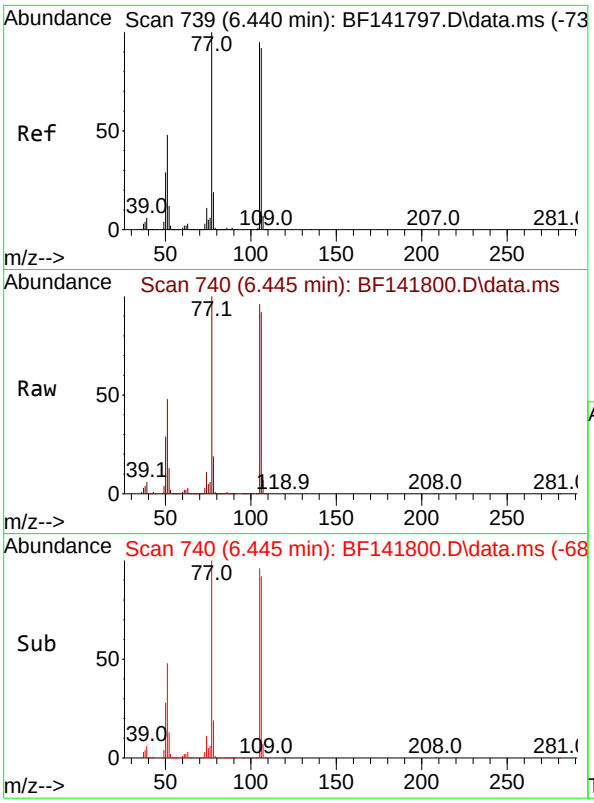



#8
2-Chlorophenol
Concen: 72.047 ng
RT: 6.681 min Scan# 780
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:128 Resp: 1409554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 33.1 | 12.6 | 52.6 |
| 64 | 51.7 | 31.1 | 71.1 |

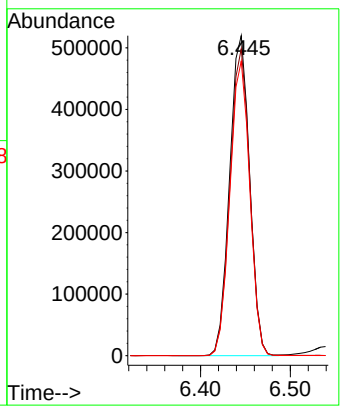





#9
Benzaldehyde
Concen: 58.556 ng
RT: 6.445 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 77 Resp: 80179

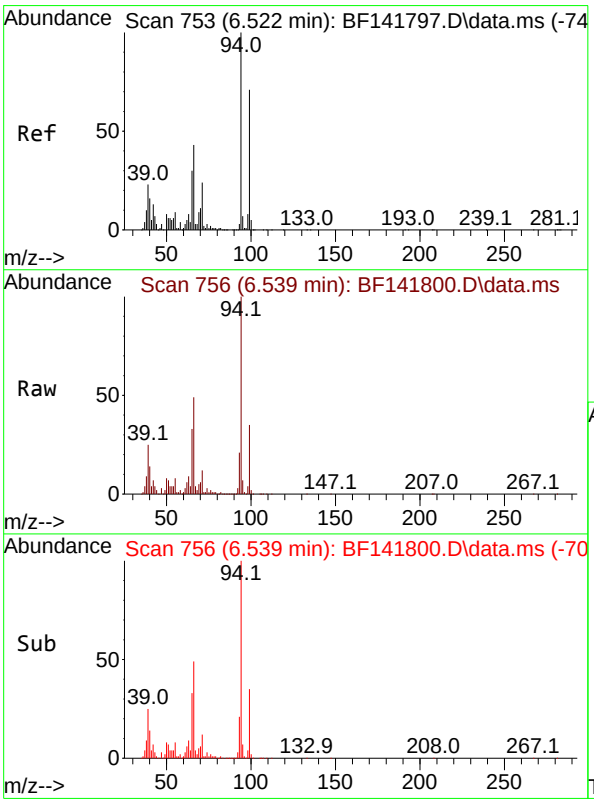
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 95.9 | 75.3 | 115.3 |
| 106 | 92.1 | 72.3 | 112.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

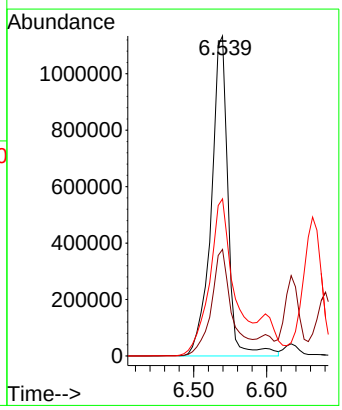
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

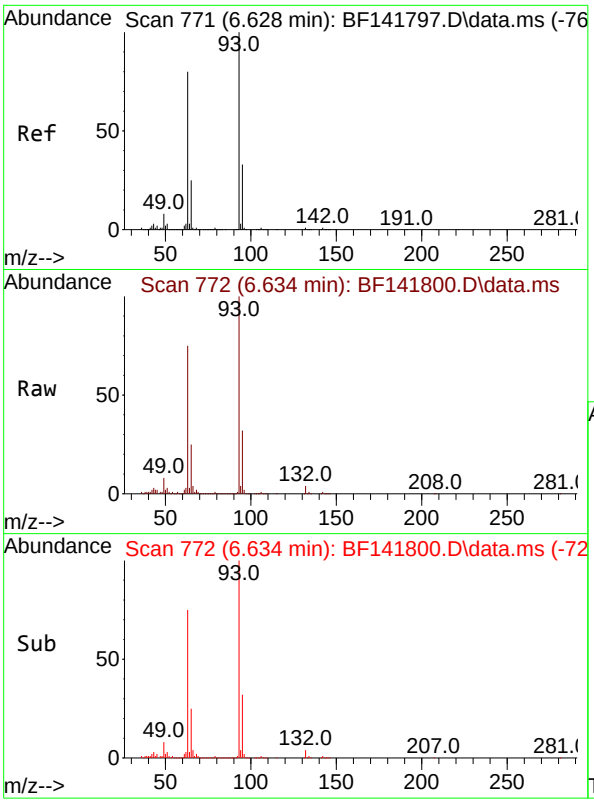



#10
Phenol
Concen: 72.063 ng m
RT: 6.539 min Scan# 756
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 94 Resp: 1807328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 33.3 | 10.2 | 50.2 |
| 66 | 49.1 | 23.2 | 63.2 |

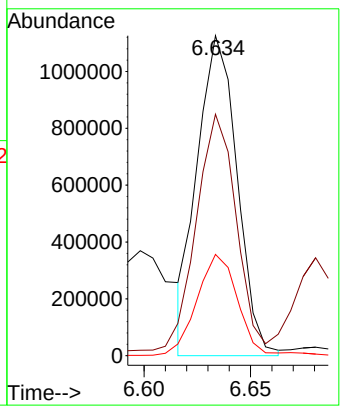





#11
bis(2-Chloroethyl)ether
Concen: 76.240 ng
RT: 6.634 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 93 Resp: 146186

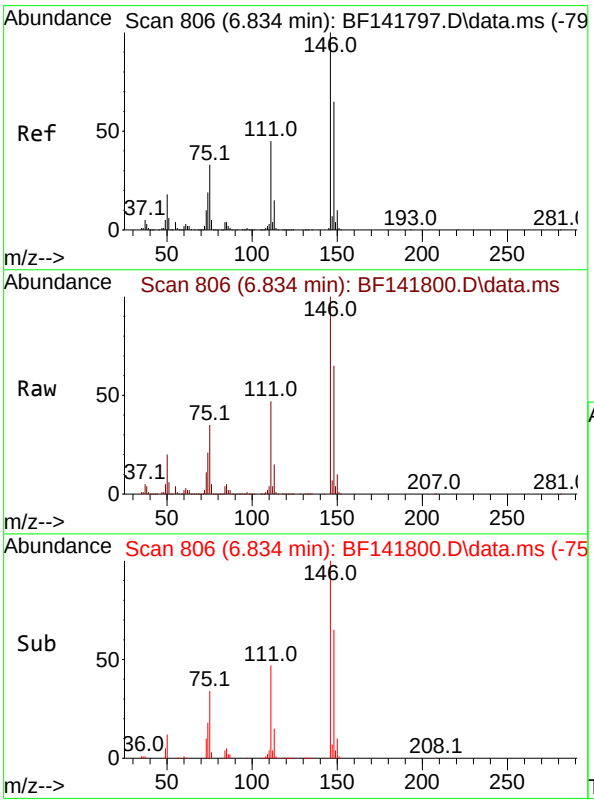
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.5 | 59.3 | 99.3 |
| 95 | 31.7 | 13.2 | 53.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

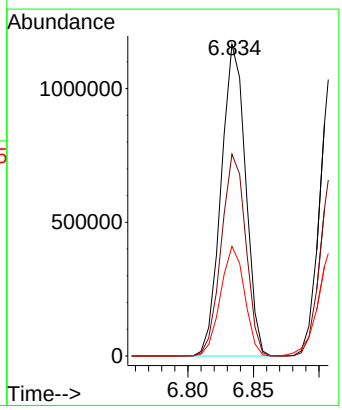
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

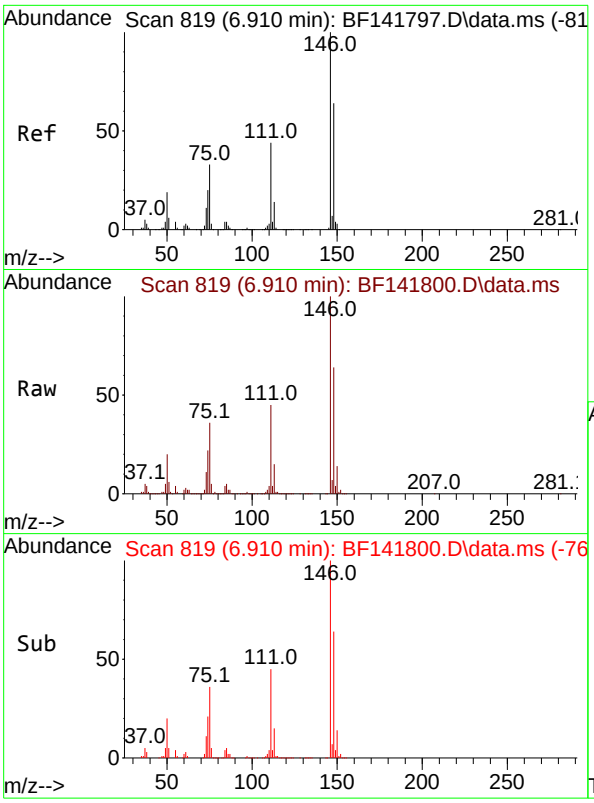



#12
1,3-Dichlorobenzene
Concen: 72.103 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:146 Resp: 1510694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.8 | 51.8 | 77.6 |
| 75 | 35.2 | 26.2 | 39.4 |

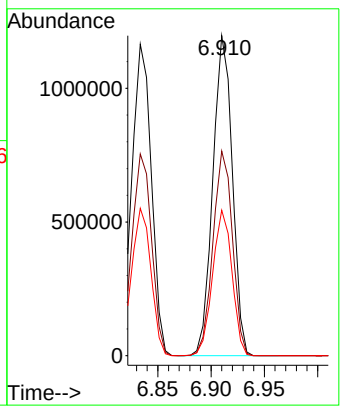





#13
1,4-Dichlorobenzene
Concen: 72.097 ng
RT: 6.910 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:146 Resp: 152204

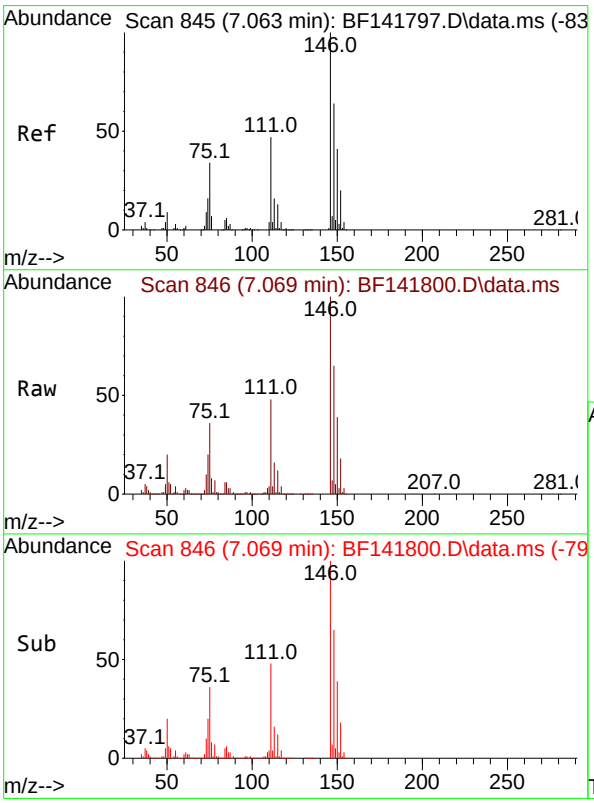
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.9 | 51.4 | 77.2 |
| 111 | 45.5 | 35.5 | 53.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

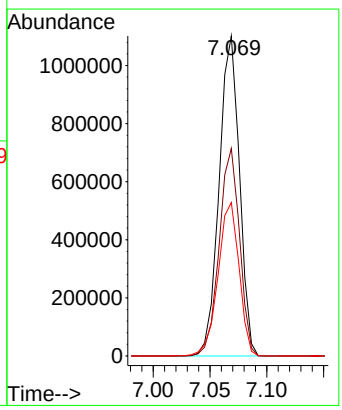
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

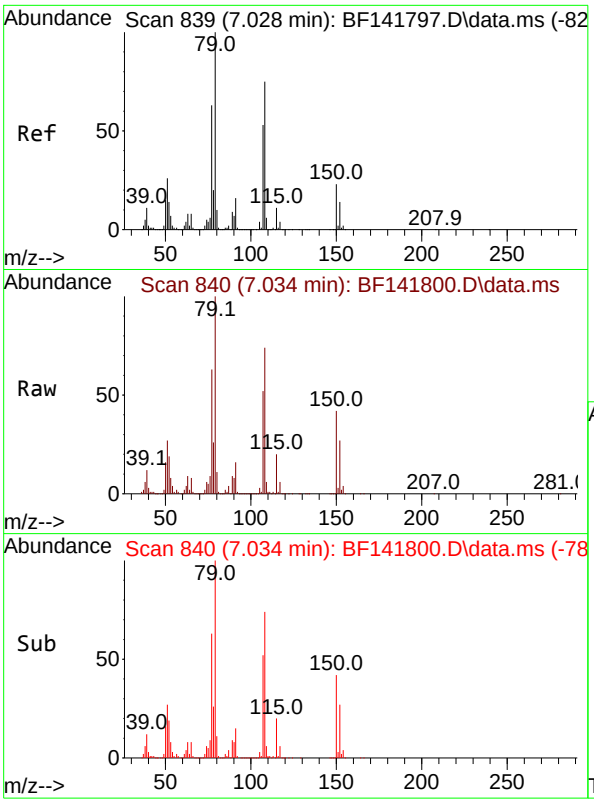



#14
1,2-Dichlorobenzene
Concen: 69.519 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:146 Resp: 1370457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.9 | 51.2 | 76.8 |
| 111 | 48.0 | 37.8 | 56.6 |






#15
Benzyl Alcohol
Concen: 72.454 ng
RT: 7.034 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

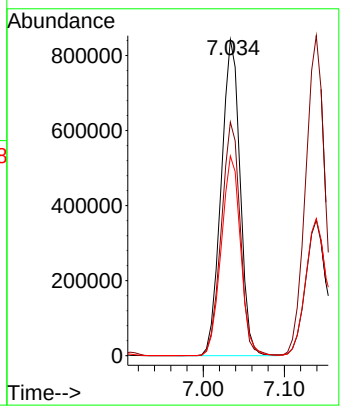
Tgt Ion: 79 Resp: 136309

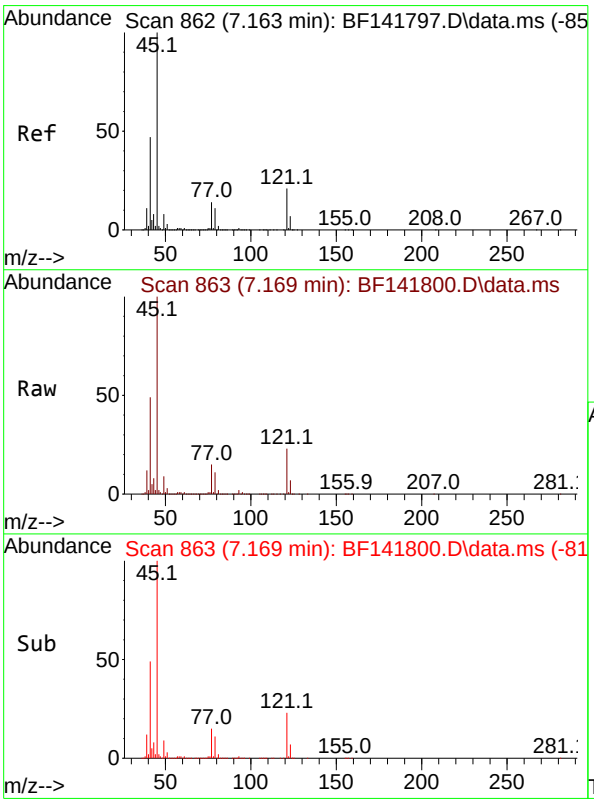
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 73.9 | 60.2 | 90.2 |
| 77 | 63.2 | 50.2 | 75.2 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

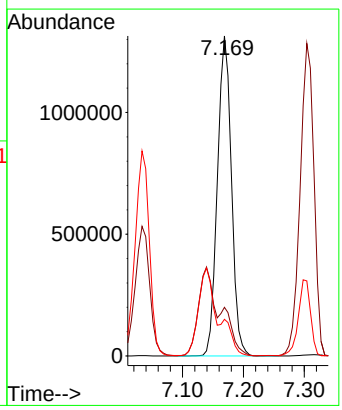


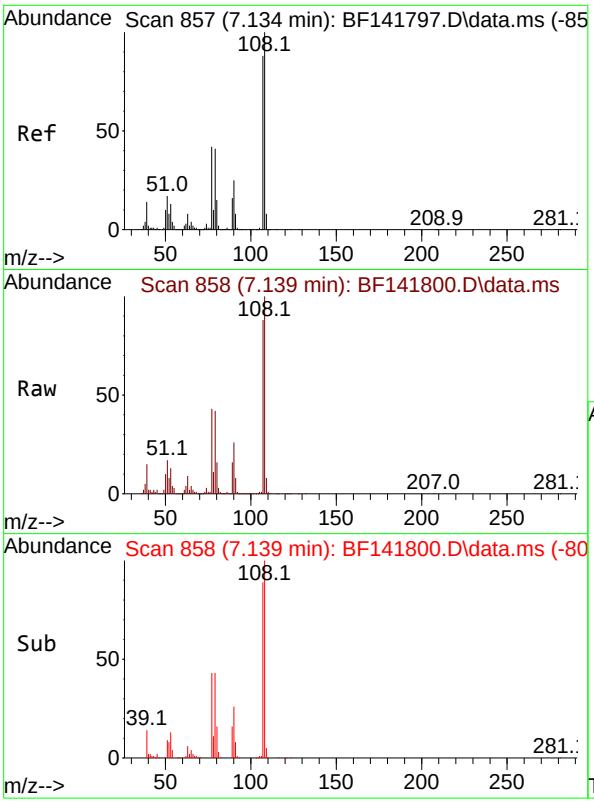




#16
2,2'-oxybis(1-Chloropropane)
Concen: 71.973 ng
RT: 7.169 min Scan# 863
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 45 Resp: 2095843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 15.2 | 0.0 | 34.4 |
| 79 | 11.5 | 0.0 | 30.9 |

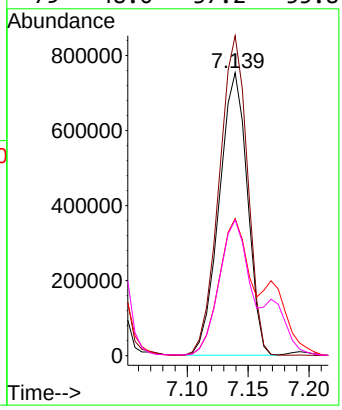





#17
2-Methylphenol
Concen: 75.016 ng
RT: 7.139 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:107 Resp: 121143

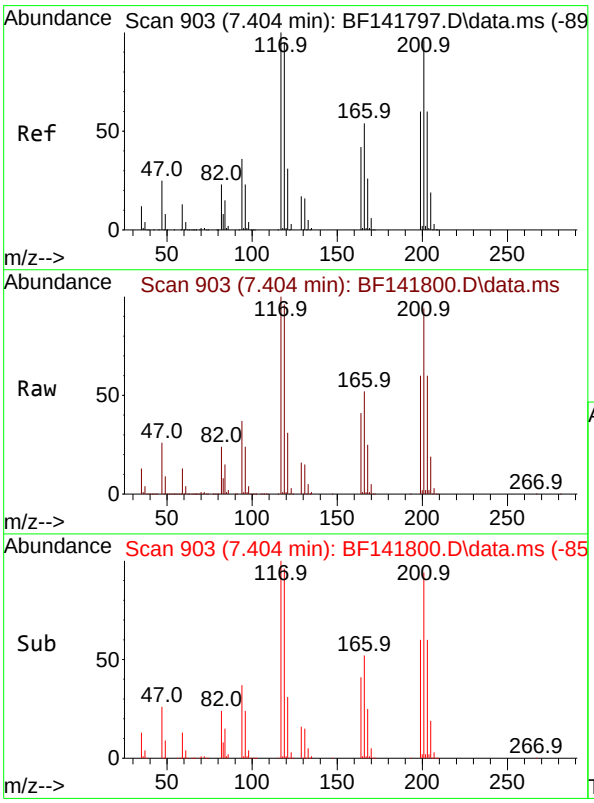
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 113.1 | 90.6 | 135.8 |
| 77 | 48.5 | 37.7 | 56.5 |
| 79 | 48.0 | 37.2 | 55.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

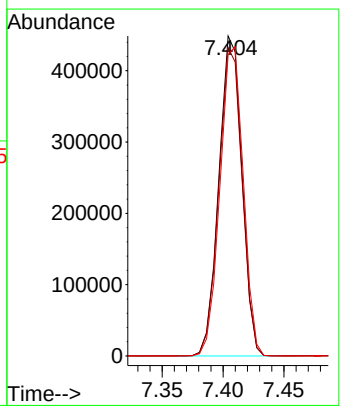
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

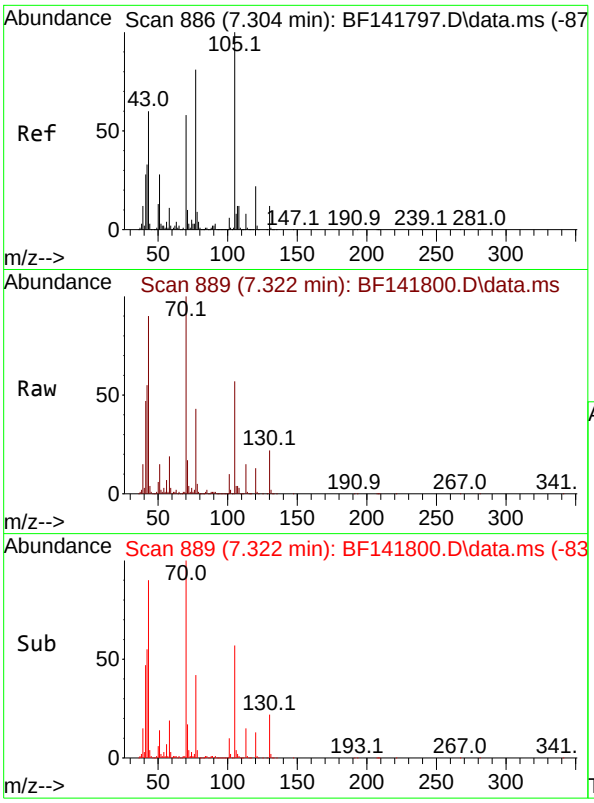



#18
Hexachloroethane
Concen: 75.056 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:117 Resp: 593057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.3 | 75.8 | 113.8 |
| 201 | 94.2 | 76.7 | 115.1 |

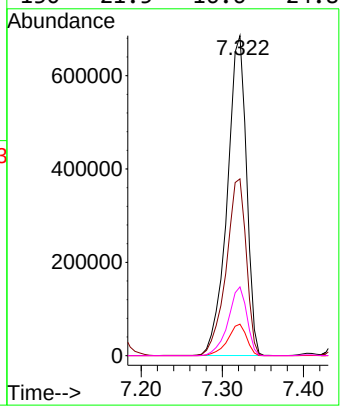





#19
n-Nitroso-di-n-propylamine
Concen: 72.793 ng
RT: 7.322 min Scan# 8
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 70 Resp: 112642

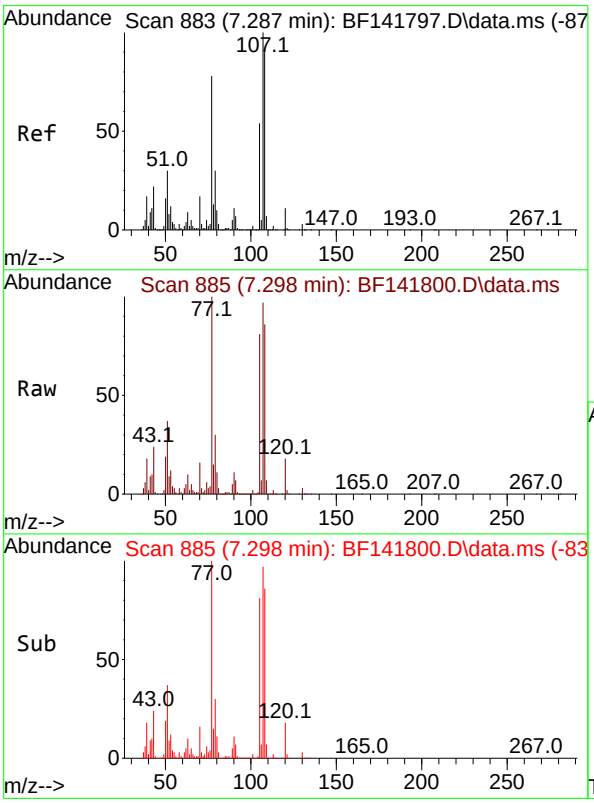
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 55.3 | 45.4 | 68.0 |
| 101 | 9.8 | 7.8 | 11.8 |
| 130 | 21.5 | 16.6 | 24.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

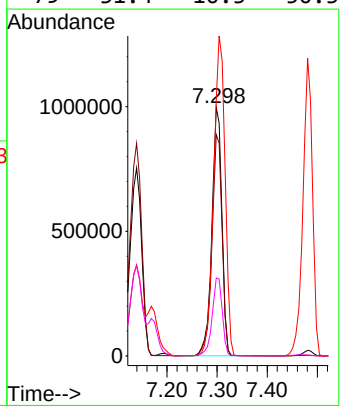
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

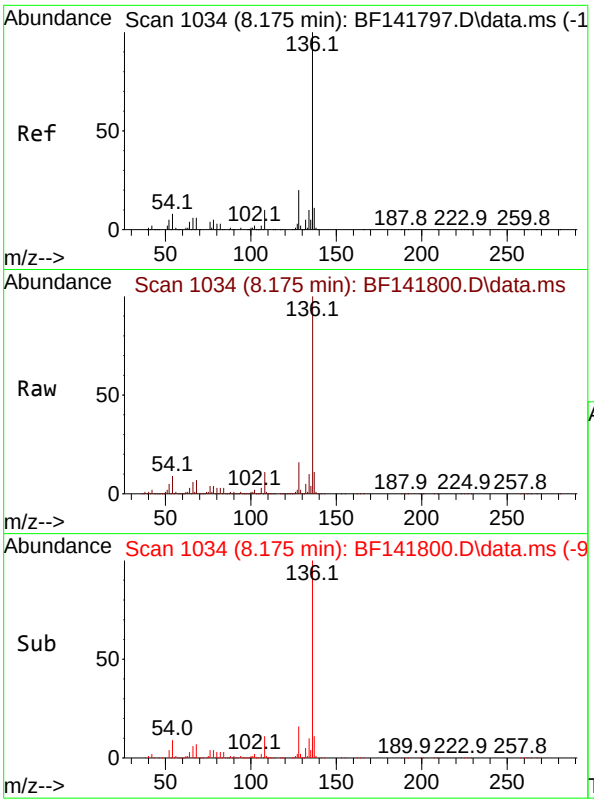



#20
3+4-Methylphenols
Concen: 68.816 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:107 Resp: 1383814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 89.1 | 69.7 | 109.7 |
| 77 | 103.3 | 58.3 | 98.3# |
| 79 | 31.4 | 10.3 | 50.3 |

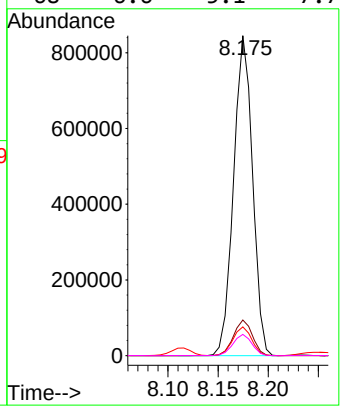





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:136 Resp: 111493

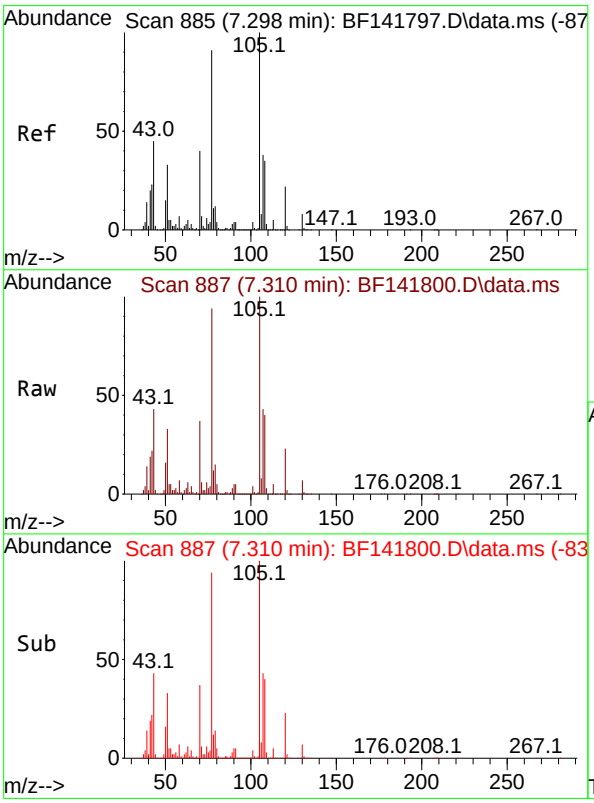
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.2 | 8.9 | 13.3 |
| 54 | 9.0 | 6.9 | 10.3 |
| 68 | 6.6 | 5.1 | 7.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

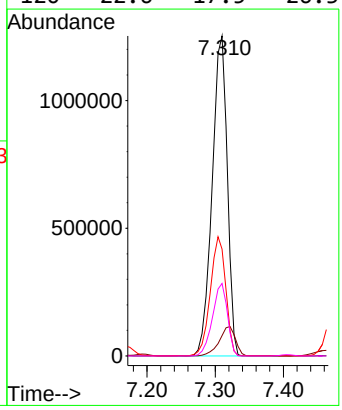
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

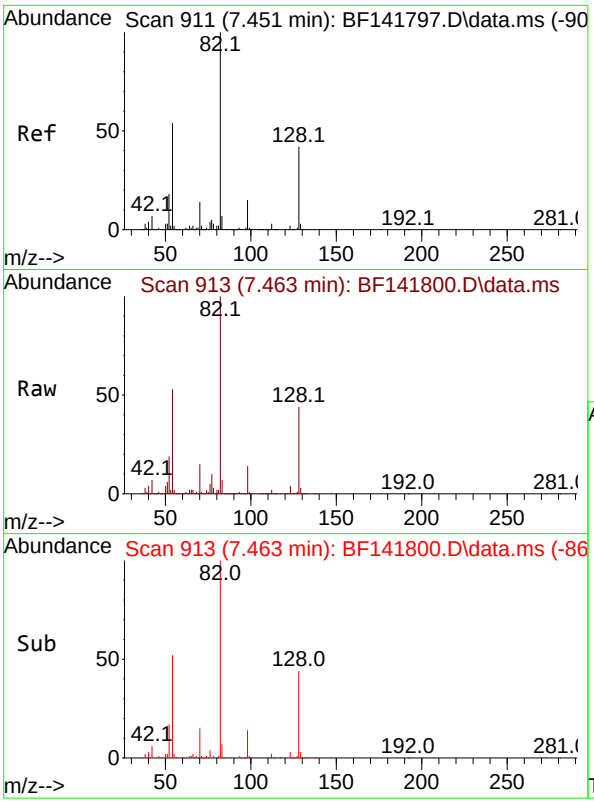



#22
Acetophenone
Concen: 71.209 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:105 Resp: 1933636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 6.3 | 5.4 | 8.0 |
| 51 | 33.4 | 26.1 | 39.1 |
| 120 | 22.6 | 17.5 | 26.3 |

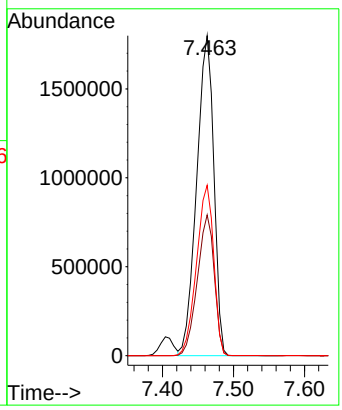





#23
Nitrobenzene-d5
Concen: 173.576 ng
RT: 7.463 min Scan# 9
Delta R.T. 0.011 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 82 Resp: 302761

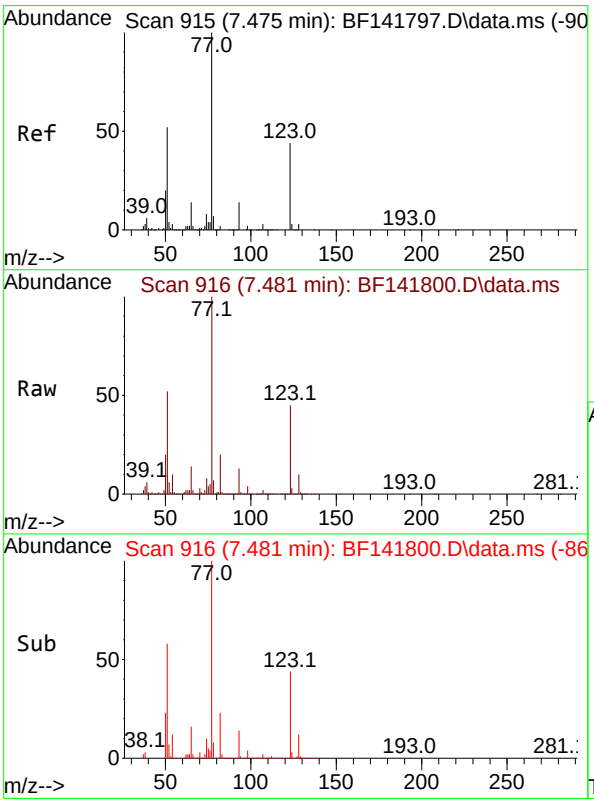
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.0 | 33.5 | 50.3 |
| 54 | 53.3 | 42.7 | 64.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

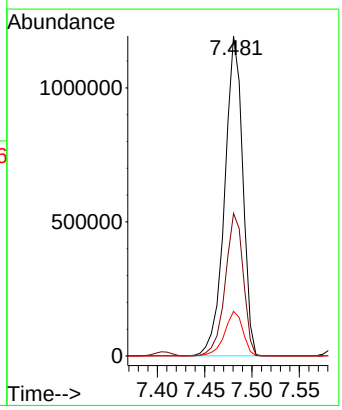
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

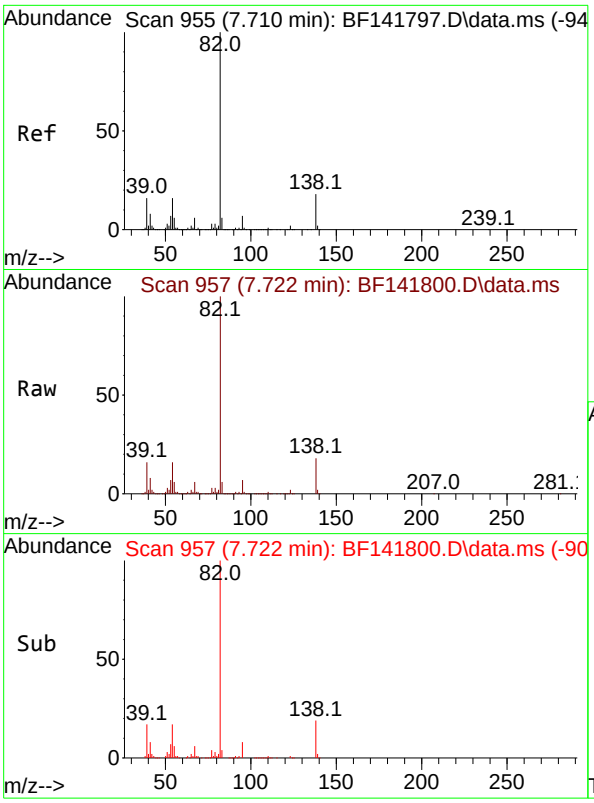



#24
Nitrobenzene
Concen: 84.587 ng
RT: 7.481 min Scan# 916
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 77 Resp: 1579955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 44.5 | 35.8 | 53.8 |
| 65 | 14.0 | 11.2 | 16.8 |

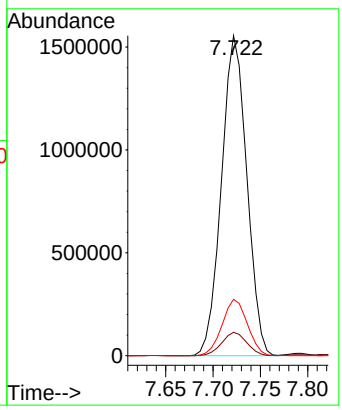





#25
Isophorone
Concen: 77.230 ng
RT: 7.722 min Scan# 9
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 82 Resp: 289404

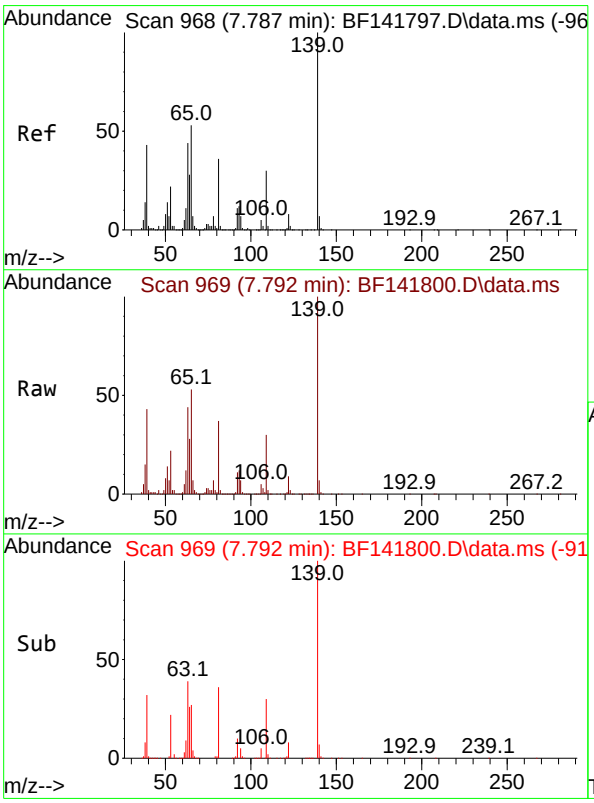
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.3 | 5.8 | 8.8 |
| 138 | 17.6 | 14.0 | 21.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

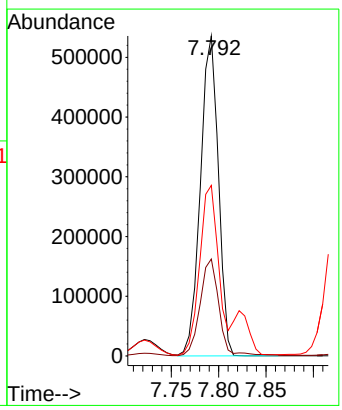
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

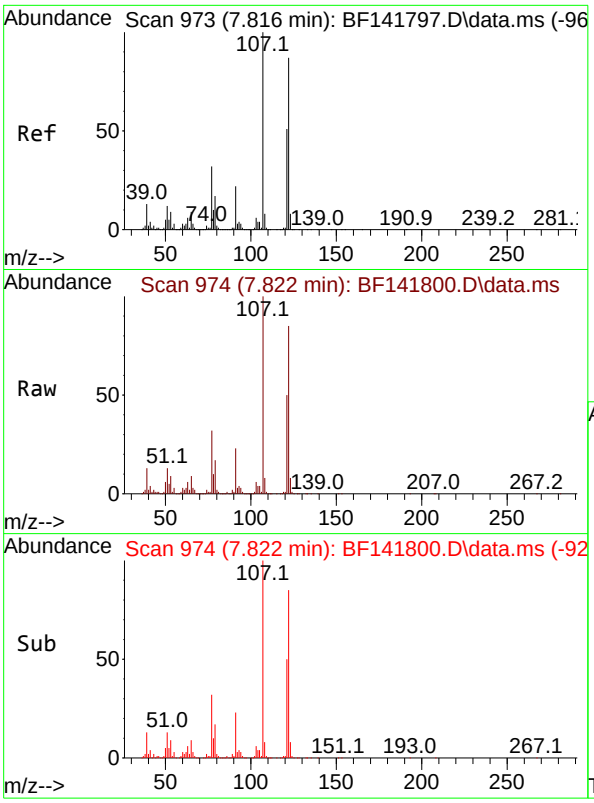



#26
2-Nitrophenol
Concen: 81.046 ng
RT: 7.792 min Scan# 969
Delta R.T. 0.005 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:139 Resp: 705125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 30.3 | 24.1 | 36.1 |
| 65 | 53.3 | 42.3 | 63.5 |

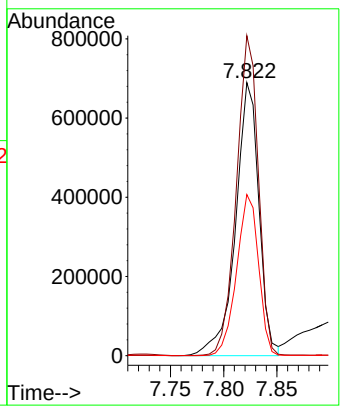





#27
2,4-Dimethylphenol
Concen: 76.304 ng
RT: 7.822 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:122 Resp: 105107

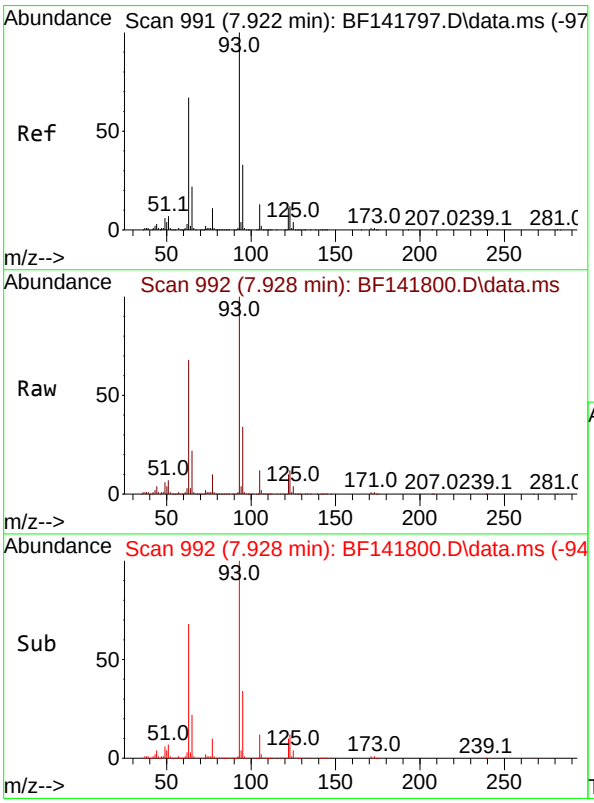
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 117.2 | 92.5 | 138.7 |
| 121 | 59.0 | 47.1 | 70.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

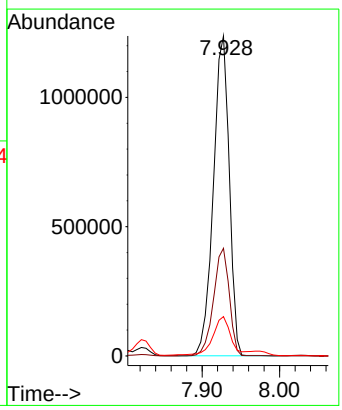
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

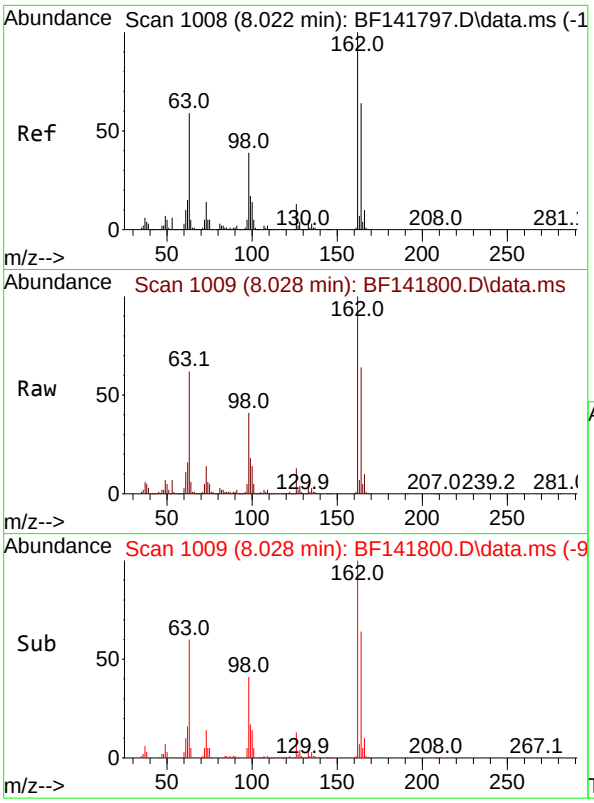



#28
bis(2-Chloroethoxy)methane
Concen: 73.596 ng
RT: 7.928 min Scan# 992
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 93 Resp: 1759255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 33.7 | 26.5 | 39.7 |
| 123 | 12.3 | 10.0 | 15.0 |






#29
2,4-Dichlorophenol
Concen: 77.239 ng
RT: 8.028 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

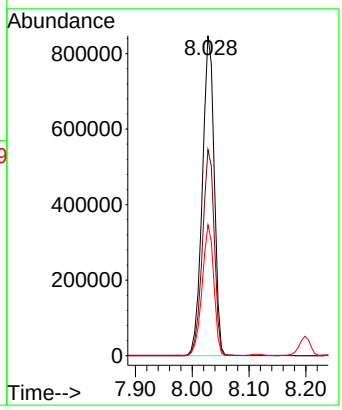
Tgt Ion:162 Resp: 122740

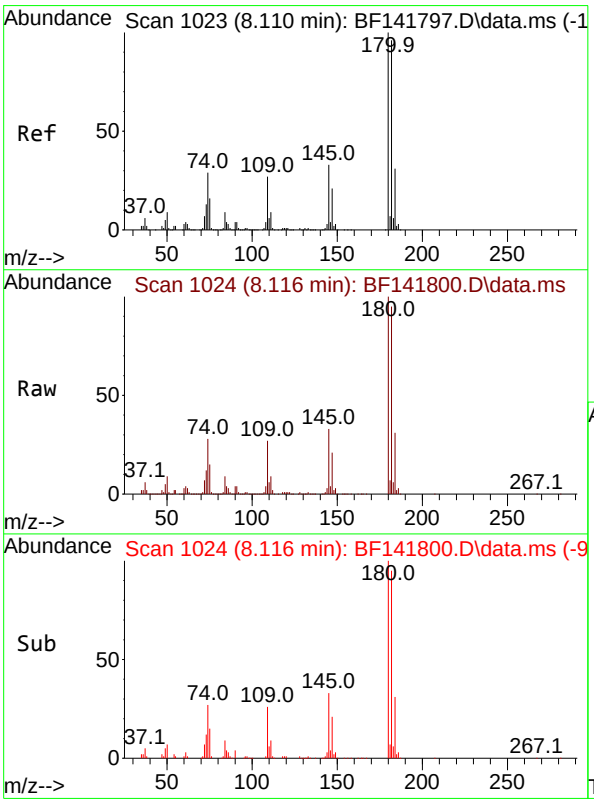
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.4 | 44.3 | 84.3 |
| 98 | 40.8 | 19.6 | 59.6 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

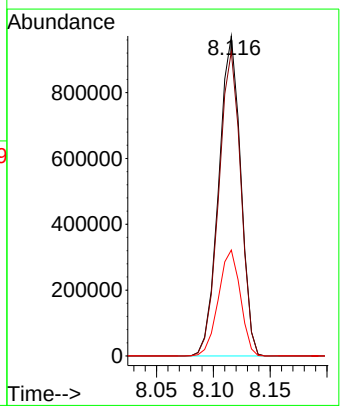


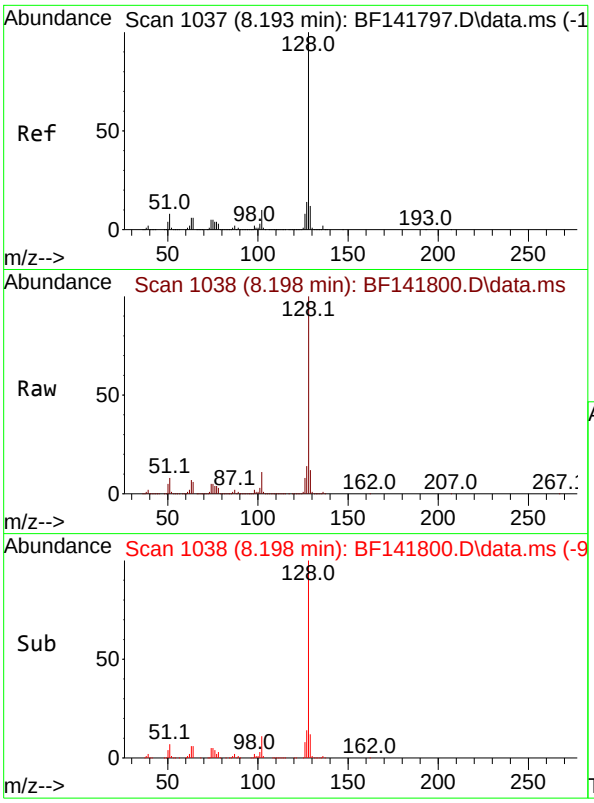




#30
1,2,4-Trichlorobenzene
Concen: 74.888 ng
RT: 8.116 min Scan# 1024
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:180 Resp: 1304033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 76.8 | 115.2 |
| 145 | 33.1 | 26.4 | 39.6 |






#31
Naphthalene
Concen: 70.504 ng
RT: 8.198 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

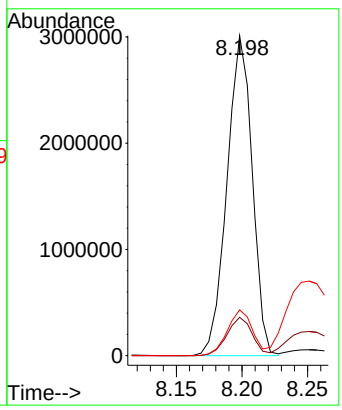
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

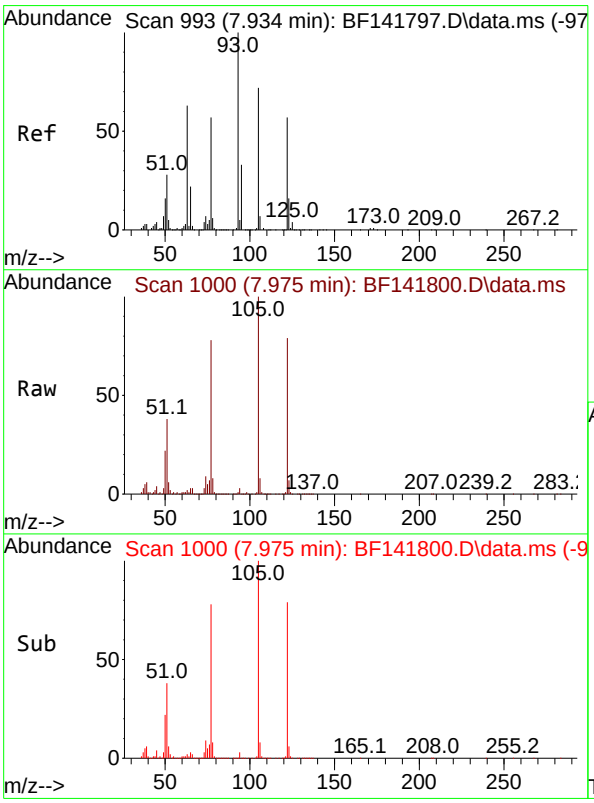
Tgt Ion:128 Resp: 404011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 12.0 | 9.2 | 13.8 |
| 127 | 14.3 | 11.0 | 16.4 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

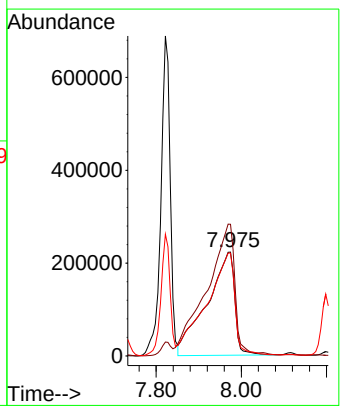


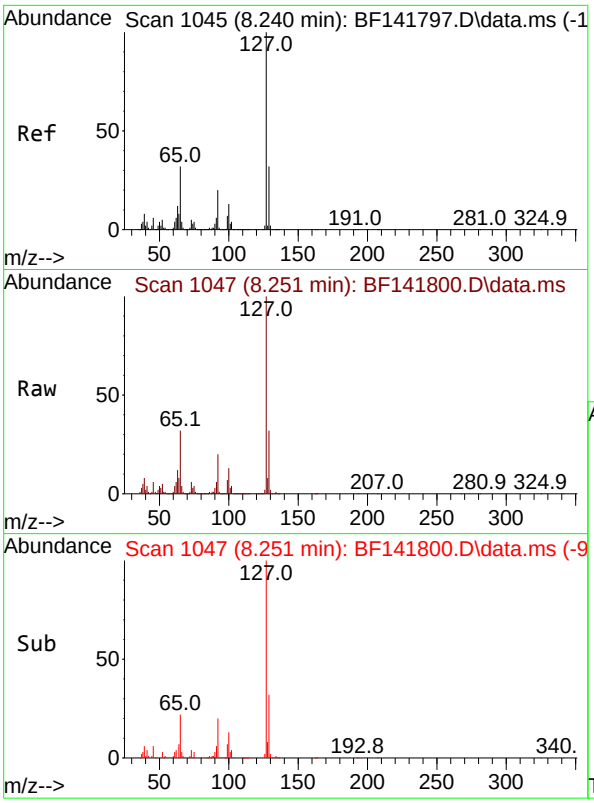




#32
Benzoic acid
Concen: 81.363 ng
RT: 7.975 min Scan# 1000
Delta R.T. 0.041 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:122 Resp: 1008619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 126.8 | 105.8 | 145.8 |
| 77 | 99.0 | 79.9 | 119.9 |

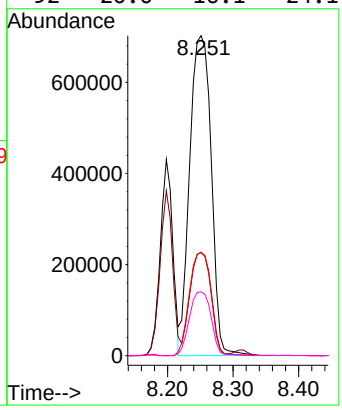





#33
4-Chloroaniline
Concen: 76.489 ng
RT: 8.251 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:127 Resp: 160709

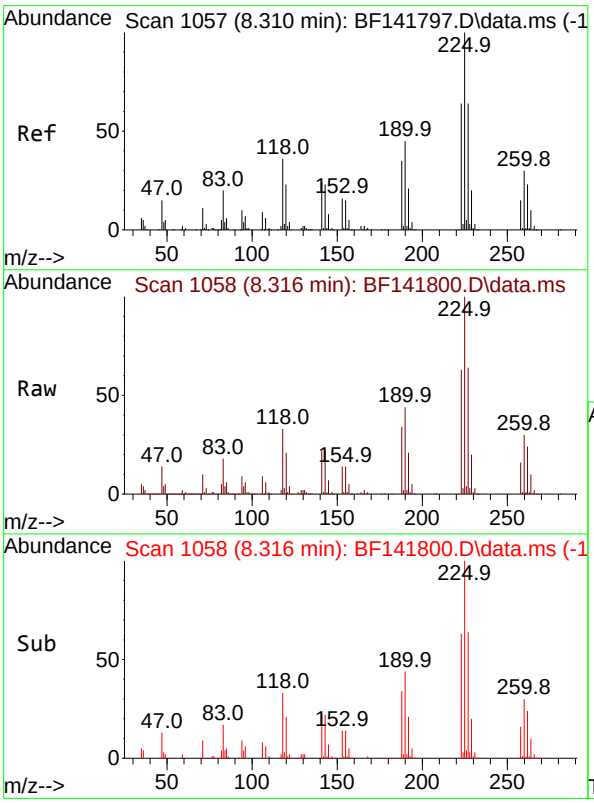
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.3 | 26.1 | 39.1 |
| 65 | 32.2 | 25.7 | 38.5 |
| 92 | 20.0 | 16.1 | 24.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

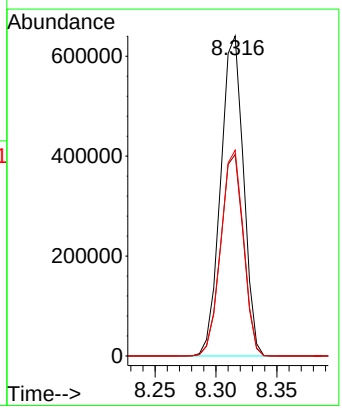
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

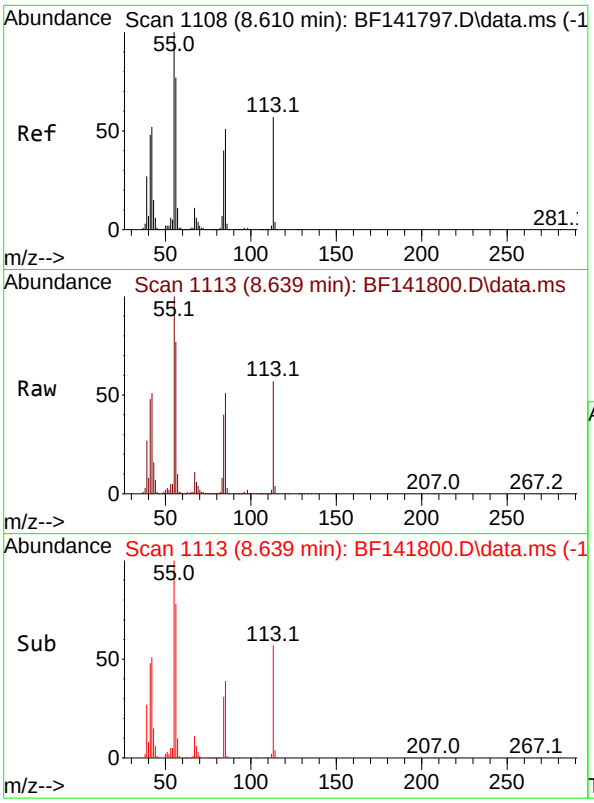



#34
Hexachlorobutadiene
Concen: 77.265 ng
RT: 8.316 min Scan# 1058
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:225 Resp: 836069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.0 | 51.4 | 77.2 |
| 227 | 64.3 | 51.6 | 77.4 |






#35
Caprolactam
Concen: 78.359 ng
RT: 8.639 min Scan# 1
Delta R.T. 0.029 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

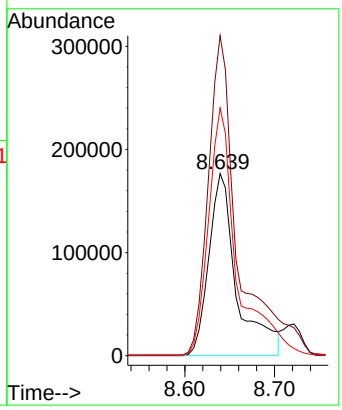
Tgt Ion:113 Resp: 38314

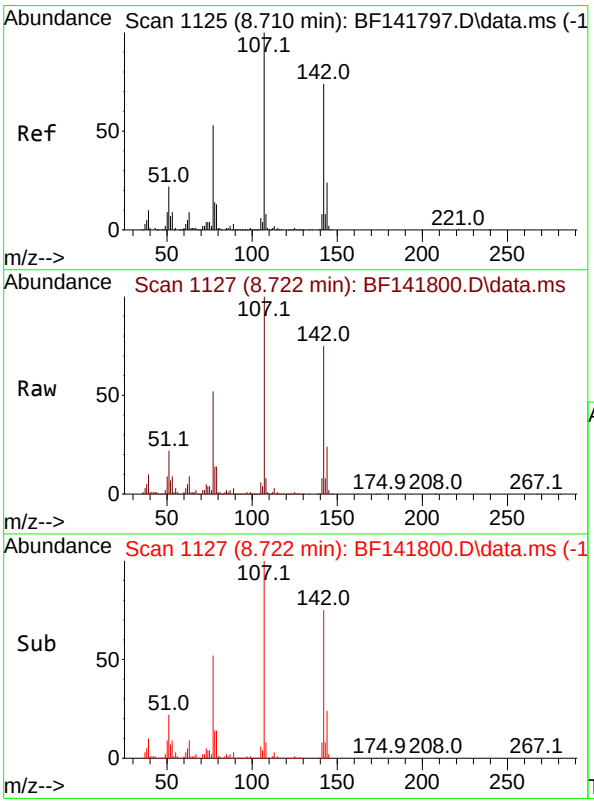
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 175.7 | 155.6 | 195.6 |
| 56 | 136.0 | 114.6 | 154.6 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

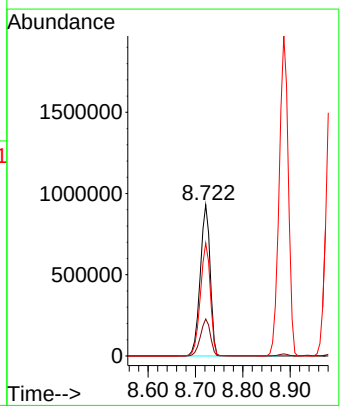


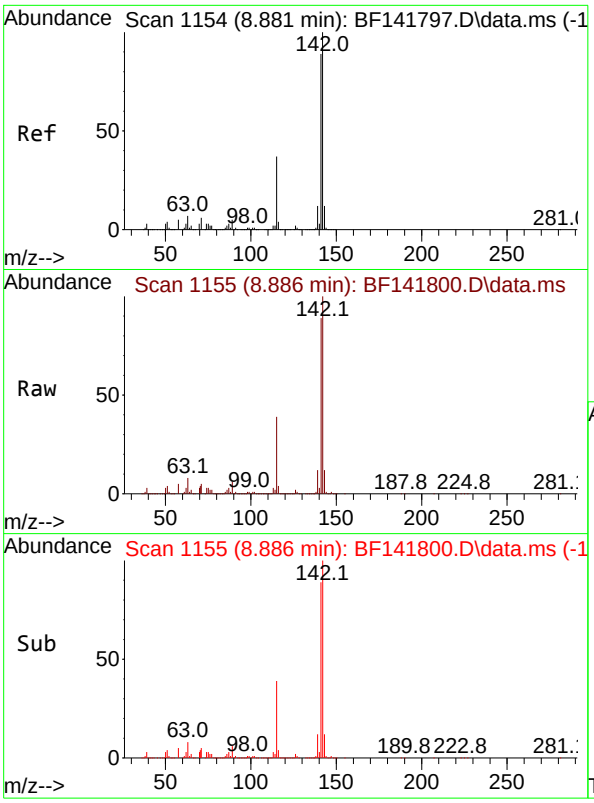




#36
4-Chloro-3-methylphenol
Concen: 76.431 ng
RT: 8.722 min Scan# 1127
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:107 Resp: 1349234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 24.4 | 19.4 | 29.0 |
| 142 | 74.7 | 59.4 | 89.0 |

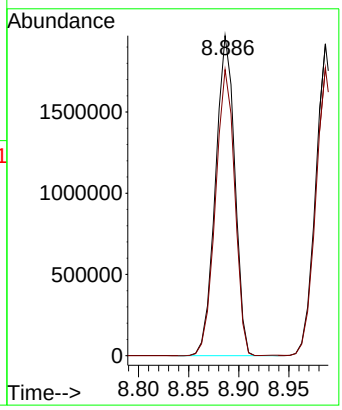





#37
2-Methylnaphthalene
Concen: 70.167 ng
RT: 8.886 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:142 Resp: 263730

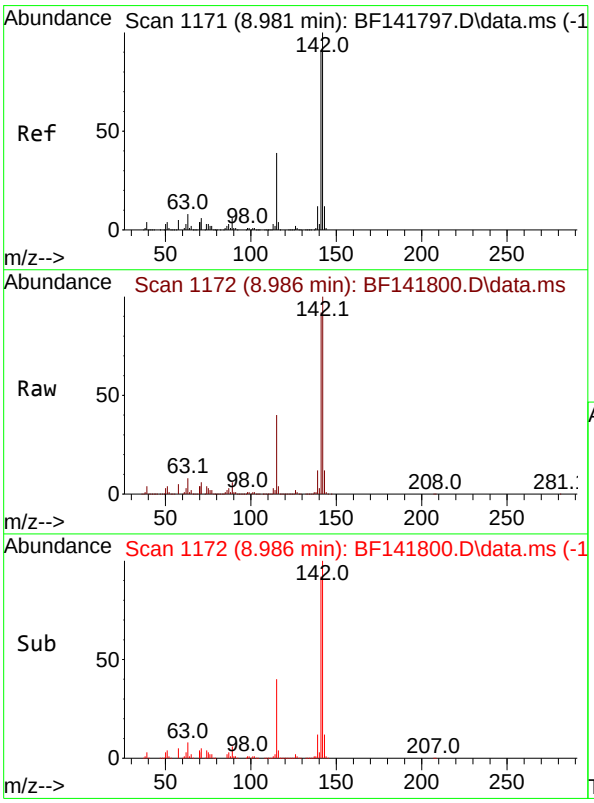
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.4 | 71.1 | 106.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

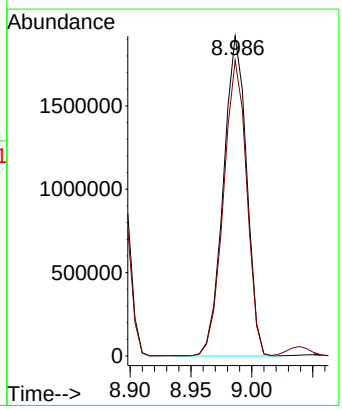
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

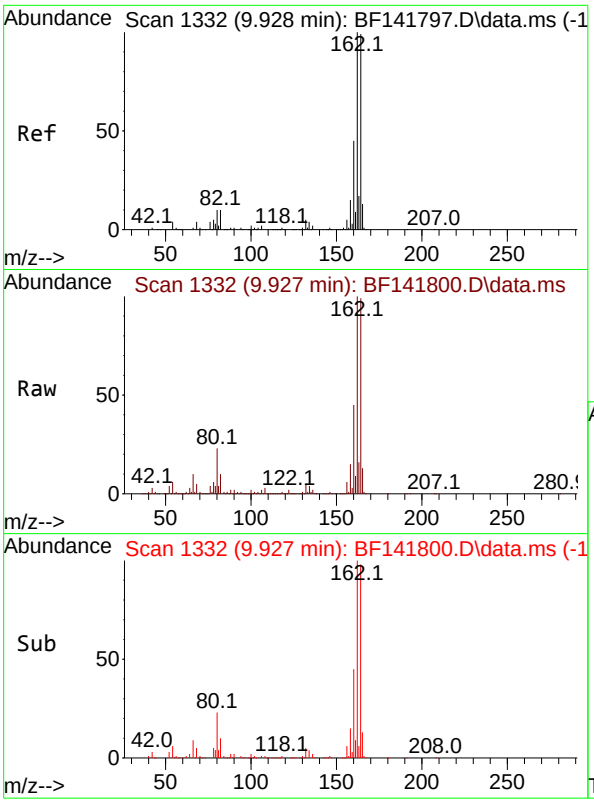



#38
1-Methylnaphthalene
Concen: 70.457 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:142 Resp: 2541019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.3 | 73.1 | 109.7 |

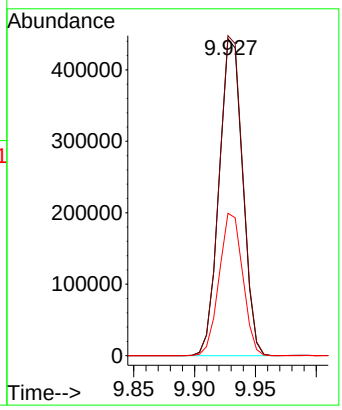





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:164 Resp: 59668

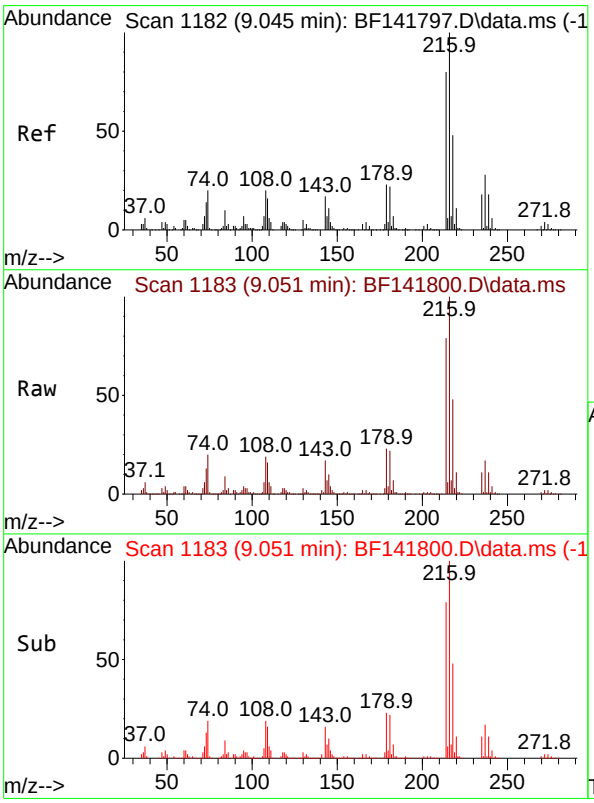
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.9 | 80.6 | 120.8 |
| 160 | 44.9 | 36.3 | 54.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

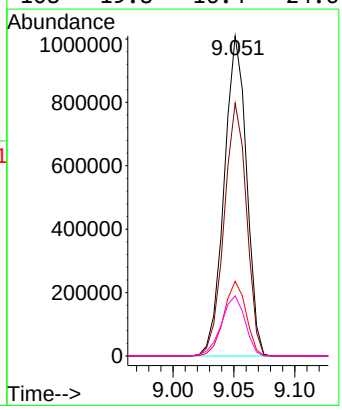
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

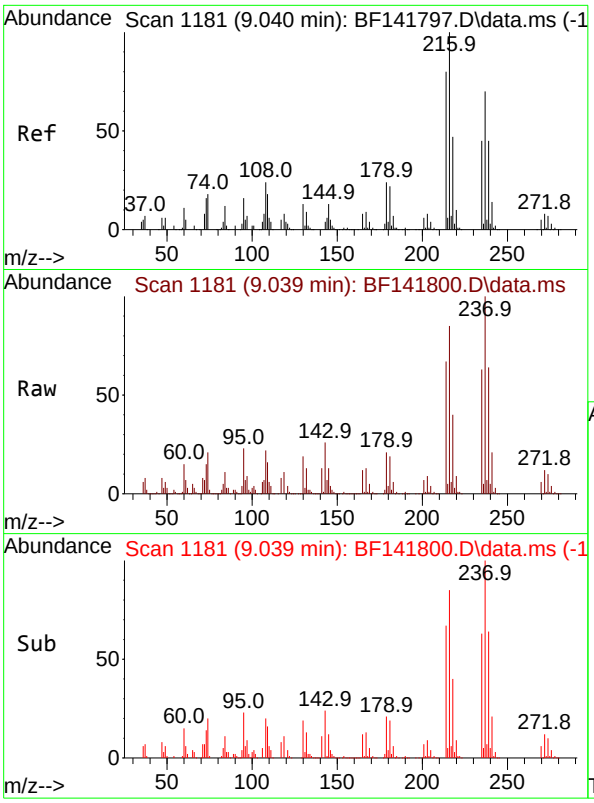



#40
1,2,4,5-Tetrachlorobenzene
Concen: 74.773 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:216 Resp: 1288540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 78.9 | 63.5 | 95.3 |
| 179 | 23.2 | 18.1 | 27.1 |
| 108 | 19.8 | 16.4 | 24.6 |






#41
Hexachlorocyclopentadiene
Concen: 78.461 ng
RT: 9.039 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

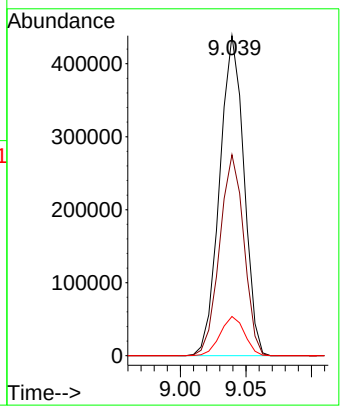
Tgt Ion:237 Resp: 56426

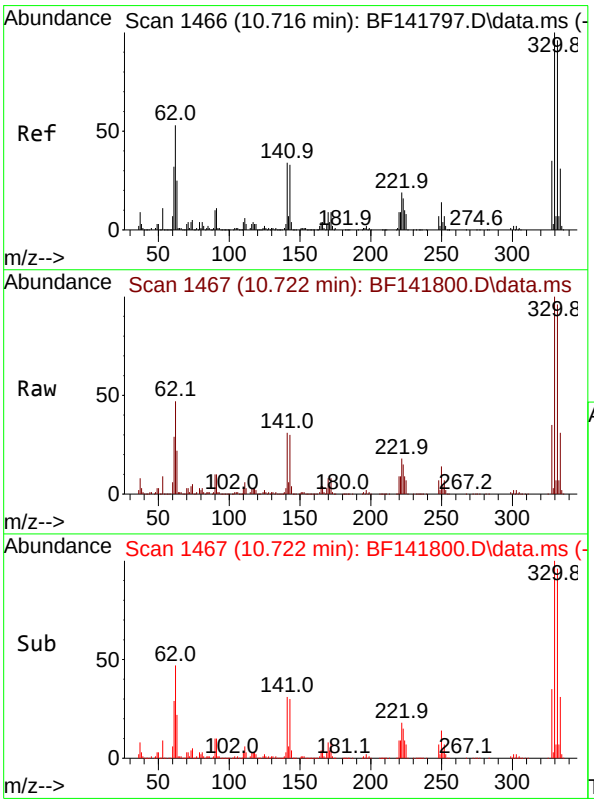
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 62.8 | 43.3 | 83.3 |
| 272 | 12.3 | 0.0 | 31.9 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

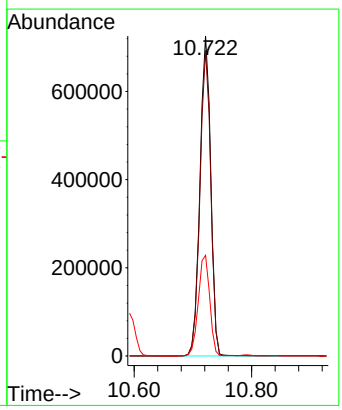


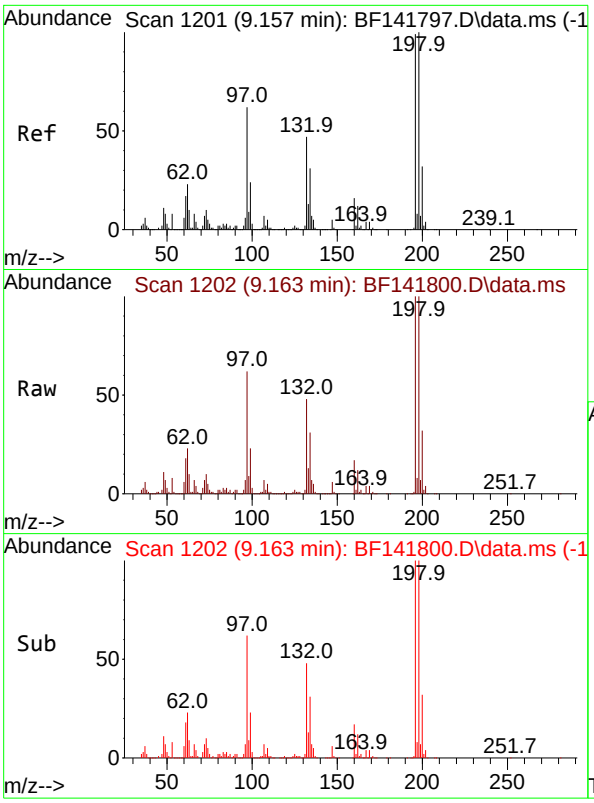




#42
2,4,6-Tribromophenol
Concen: 164.969 ng
RT: 10.722 min Scan# 1467
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:330 Resp: 924112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.4 | 76.6 | 115.0 |
| 141 | 33.3 | 29.0 | 43.4 |

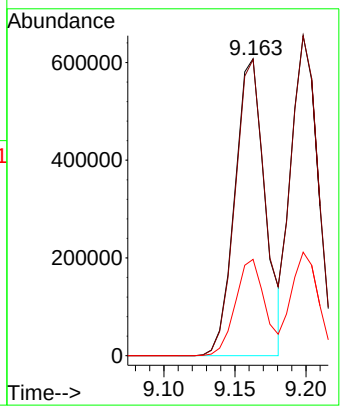





#43
2,4,6-Trichlorophenol
Concen: 80.742 ng
RT: 9.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:196 Resp: 89879

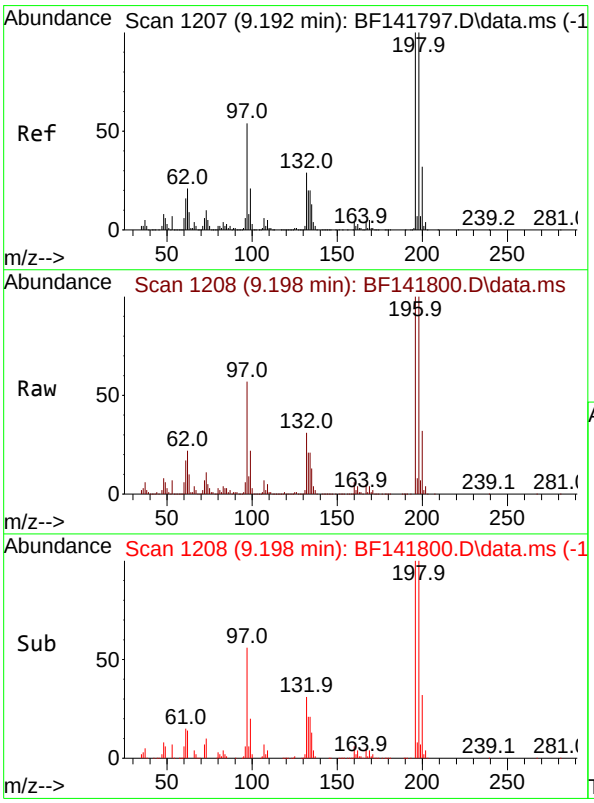
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 99.7 | 80.4 | 120.6 |
| 200 | 32.4 | 25.7 | 38.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

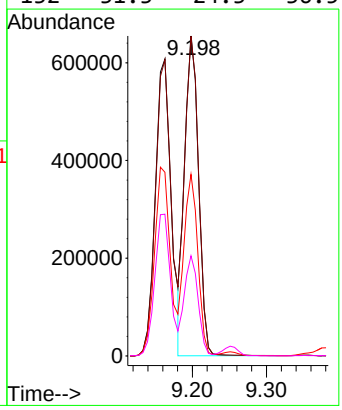
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

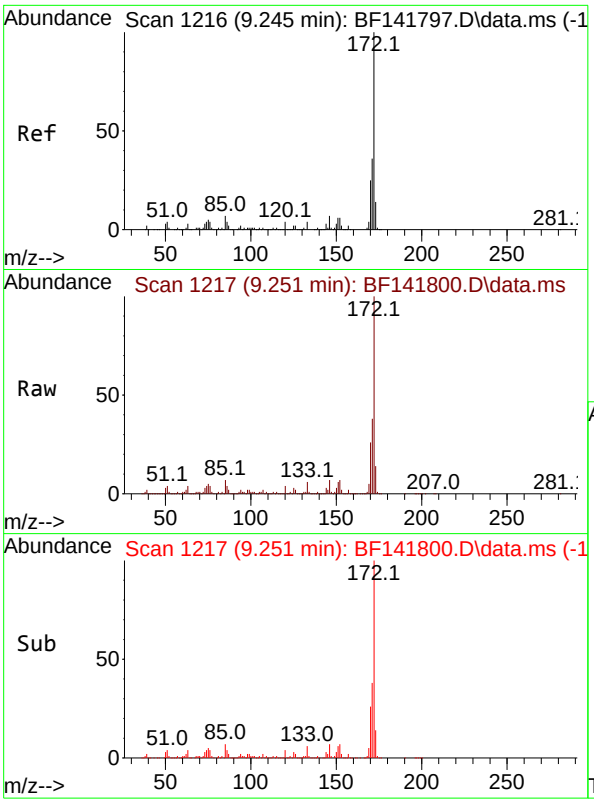



#44
2,4,5-Trichlorophenol
Concen: 77.984 ng
RT: 9.198 min Scan# 1208
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:196 Resp: 859610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 99.9 | 79.7 | 119.5 |
| 97 | 56.8 | 44.2 | 66.2 |
| 132 | 31.3 | 24.3 | 36.5 |

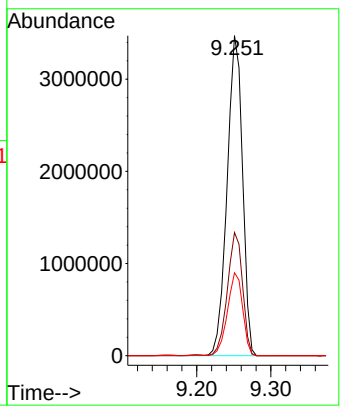





#45
2-Fluorobiphenyl
Concen: 134.541 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:172 Resp: 500660

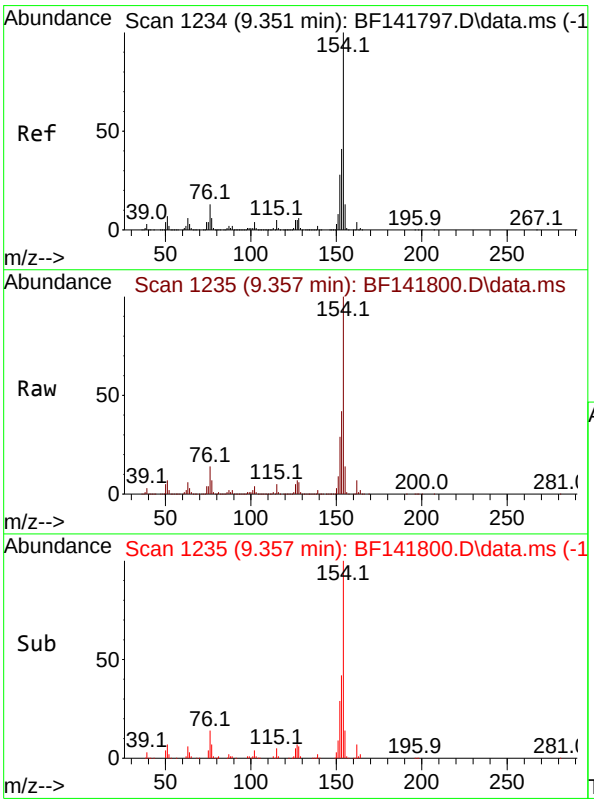
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 38.5 | 29.2 | 43.8 |
| 170 | 25.9 | 19.7 | 29.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

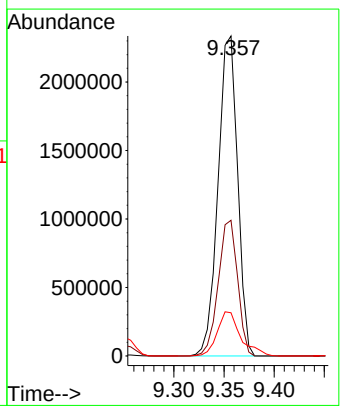
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

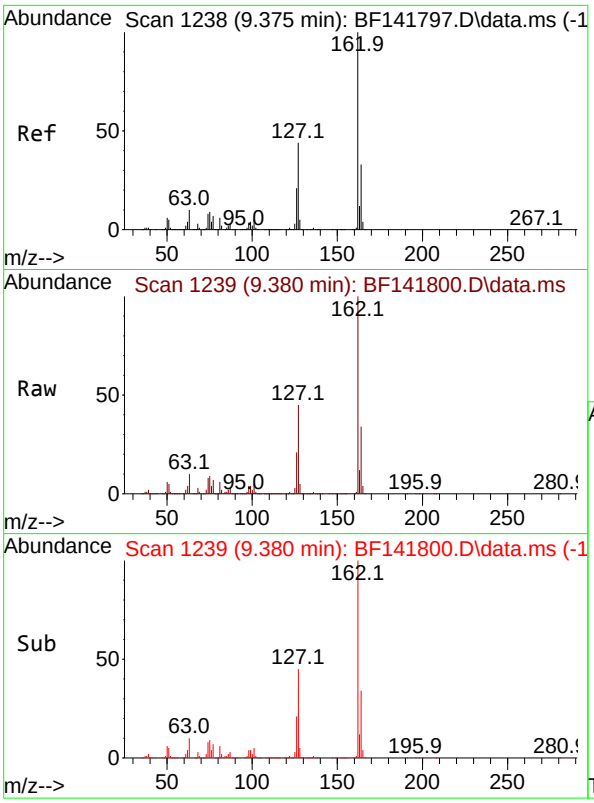



#46
1,1'-Biphenyl
Concen: 69.499 ng
RT: 9.357 min Scan# 1235
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:154 Resp: 3156440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 42.4 | 21.4 | 61.4 |
| 76 | 13.5 | 0.0 | 33.4 |

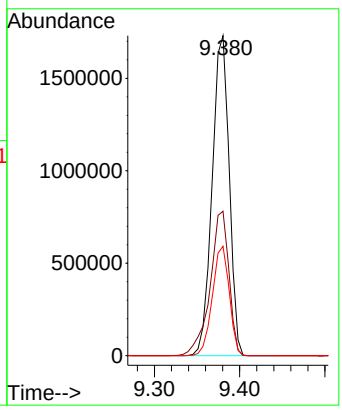





#47
2-Chloronaphthalene
Concen: 71.641 ng
RT: 9.380 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:162 Resp: 240146

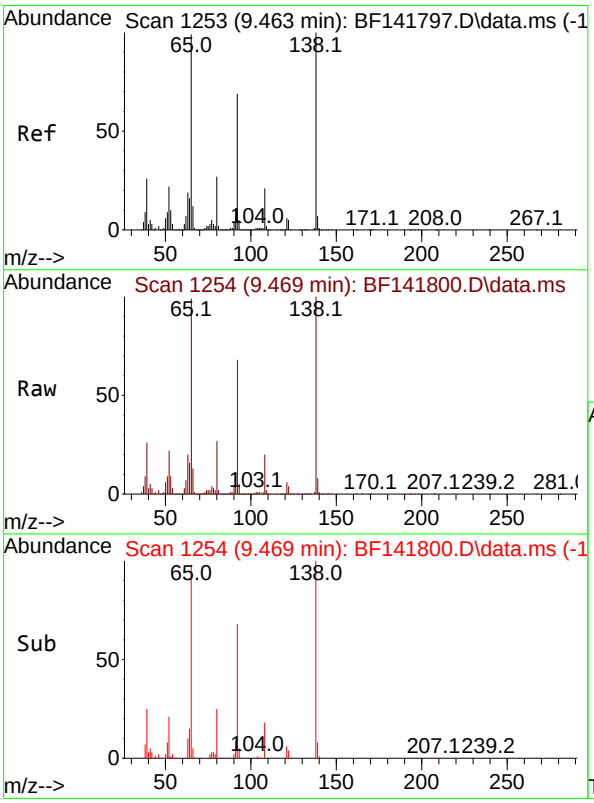
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 45.2 | 35.0 | 52.6 |
| 164 | 34.2 | 26.6 | 40.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

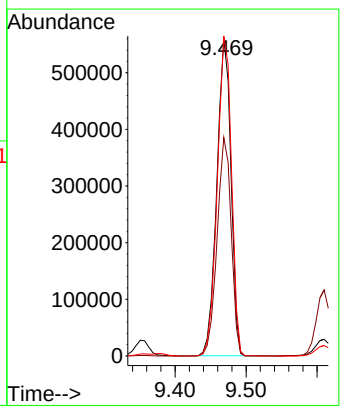
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

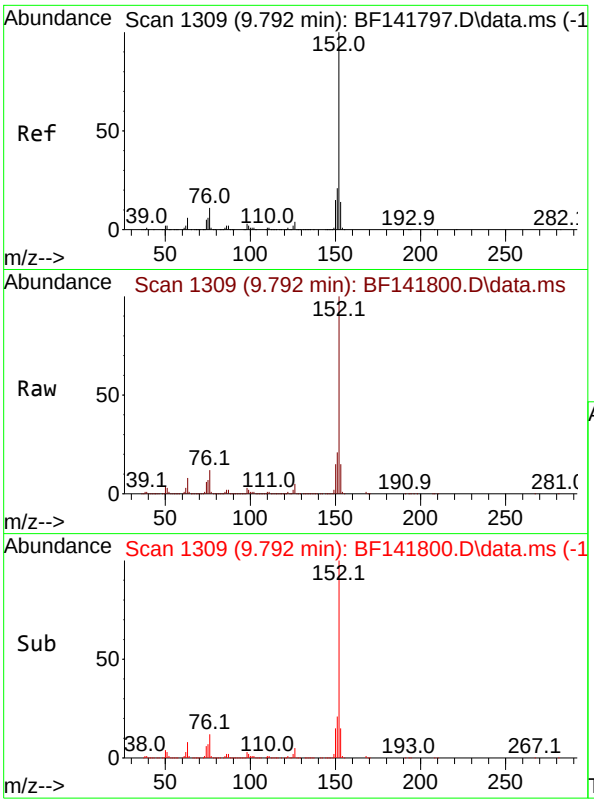



#48
2-Nitroaniline
Concen: 80.727 ng
RT: 9.469 min Scan# 1254
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 65 Resp: 770567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 68.7 | 55.7 | 83.5 |
| 138 | 100.7 | 80.6 | 121.0 |

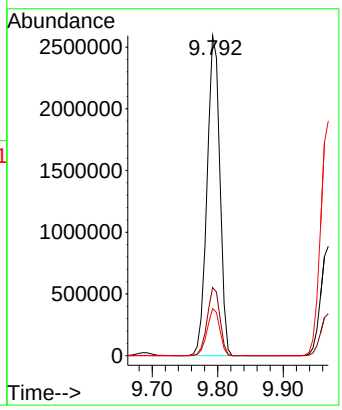





#49
Acenaphthylene
Concen: 69.880 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:152 Resp: 351207

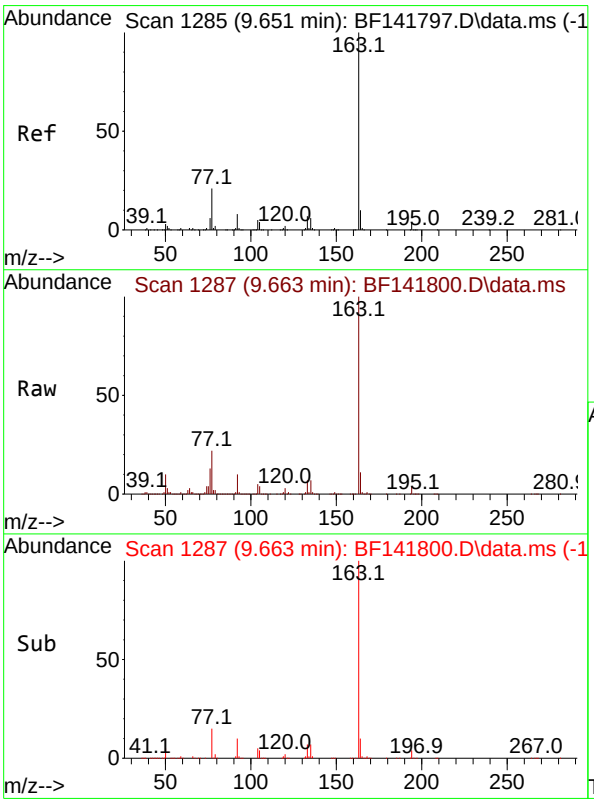
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 21.3 | 16.6 | 24.8 |
| 153 | 14.7 | 11.2 | 16.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

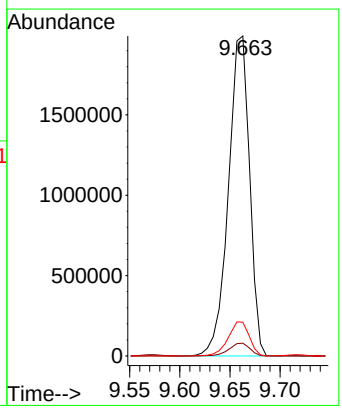
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

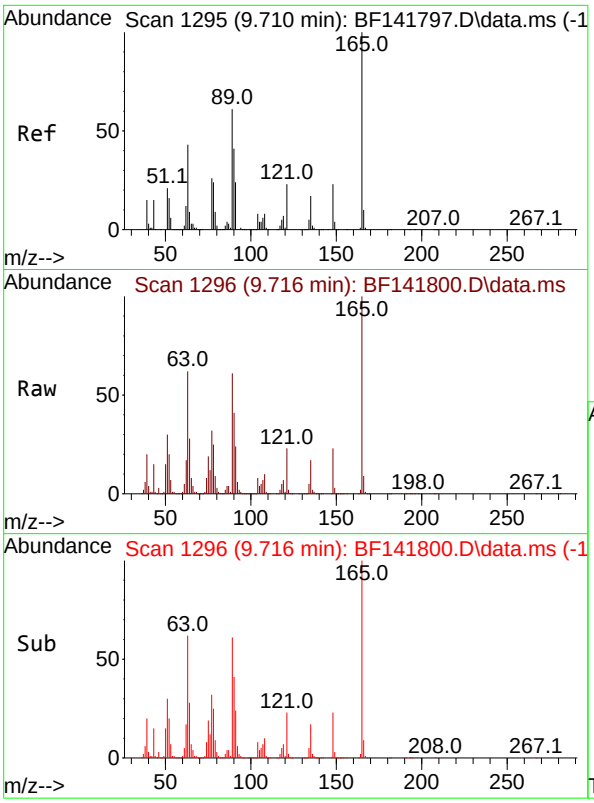



#50
Dimethylphthalate
Concen: 73.107 ng
RT: 9.663 min Scan# 1287
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:163 Resp: 2921217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.0 | 3.1 | 4.7 |
| 164 | 10.5 | 8.4 | 12.6 |






#51
2,6-Dinitrotoluene
Concen: 79.481 ng
RT: 9.716 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

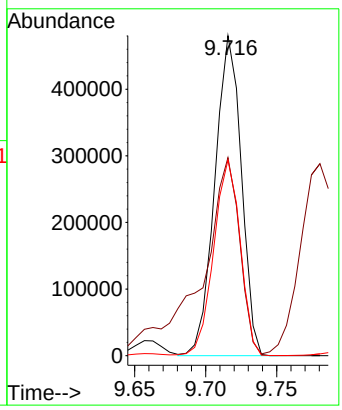
Tgt Ion:165 Resp: 62262

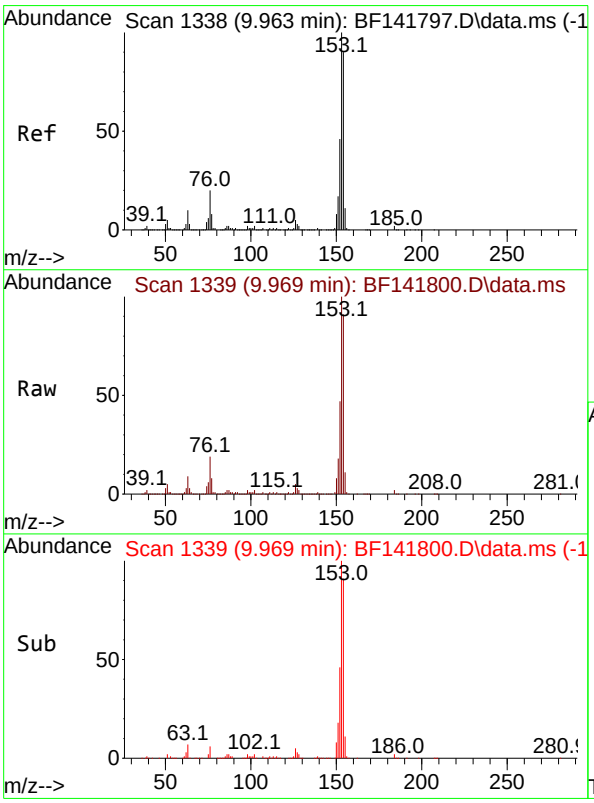
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 61.9 | 49.5 | 74.3 |
| 89 | 61.1 | 49.0 | 73.4 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

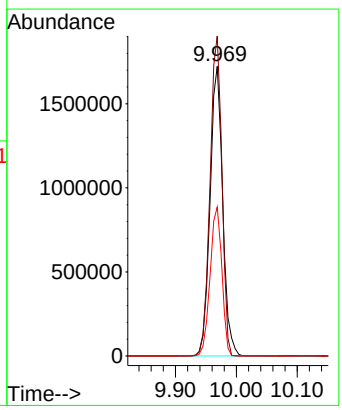


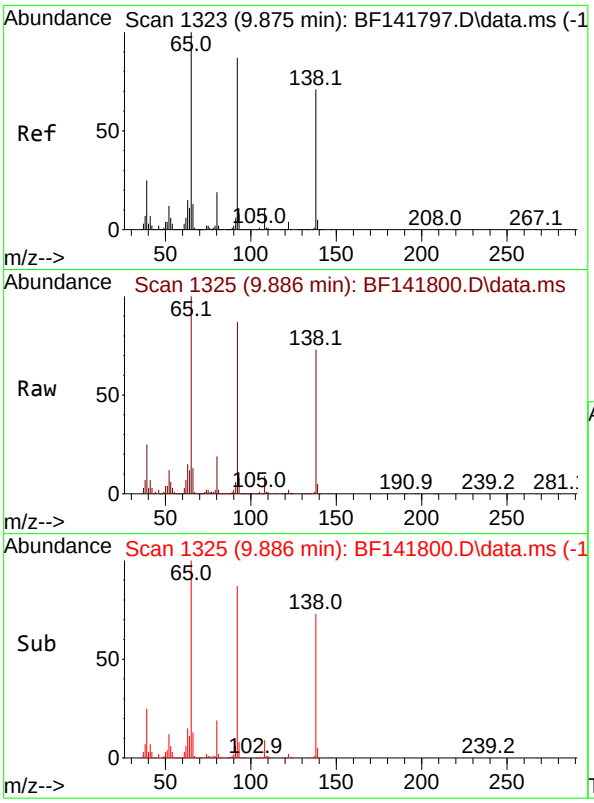




#52
Acenaphthene
Concen: 73.139 ng
RT: 9.969 min Scan# 1339
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:154 Resp: 2480302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 110.5 | 88.7 | 133.1 |
| 152 | 51.5 | 40.9 | 61.3 |






#53
3-Nitroaniline
Concen: 79.835 ng
RT: 9.886 min Scan# 1
Delta R.T. 0.011 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

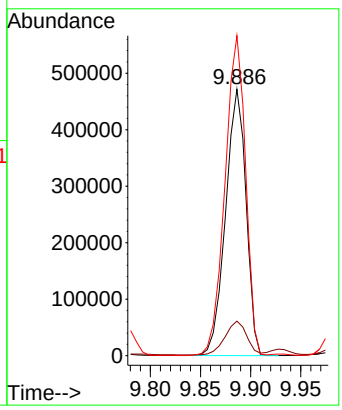
Tgt Ion:138 Resp: 66711

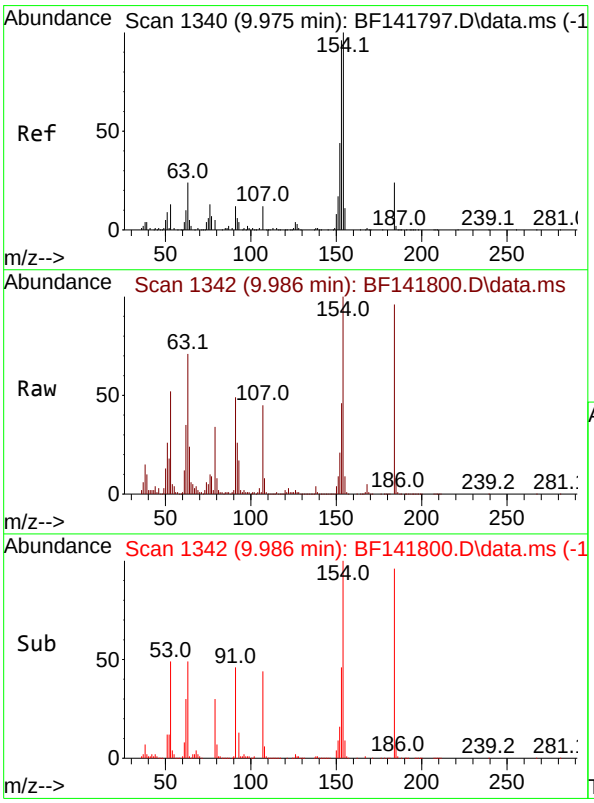
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 13.0 | 12.7 | 19.1 |
| 92 | 120.1 | 97.9 | 146.9 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

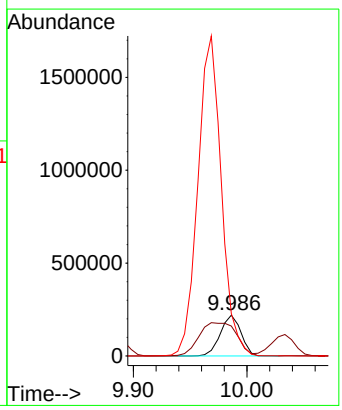


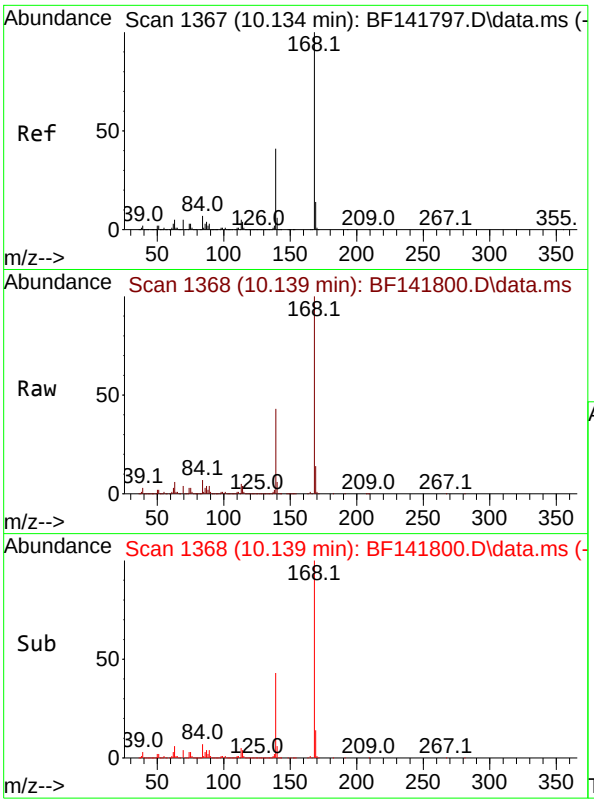




#54
2,4-Dinitrophenol
Concen: 79.409 ng
RT: 9.986 min Scan# 1342
Delta R.T. 0.011 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:184 Resp: 277943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 73.4 | 79.0 | 118.6# |
| 154 | 103.9 | 335.8 | 503.8# |

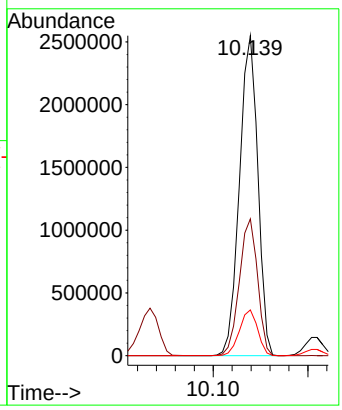





#55
Dibenzofuran
Concen: 69.448 ng
RT: 10.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:168 Resp: 342789

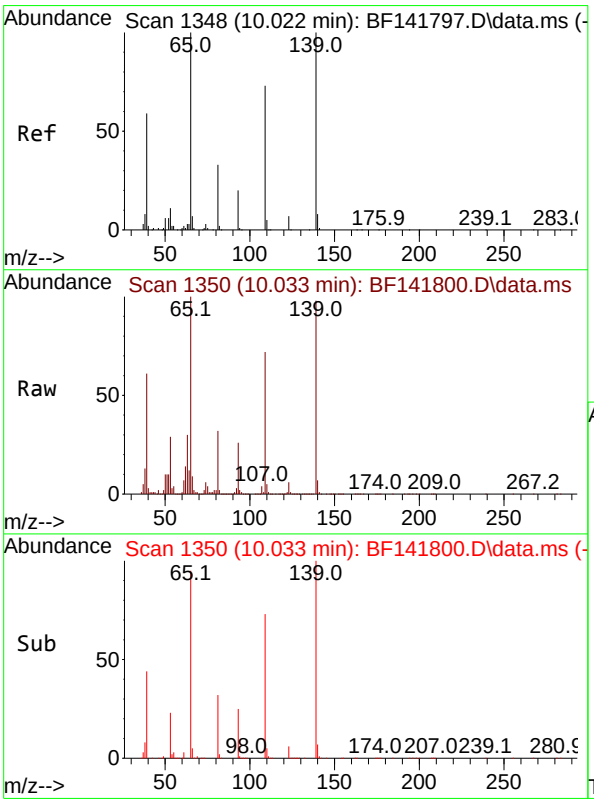
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 42.7 | 32.9 | 49.3 |
| 169 | 14.3 | 11.1 | 16.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

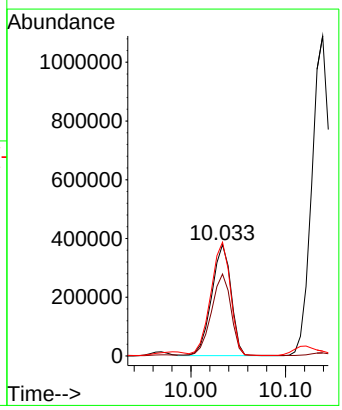
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

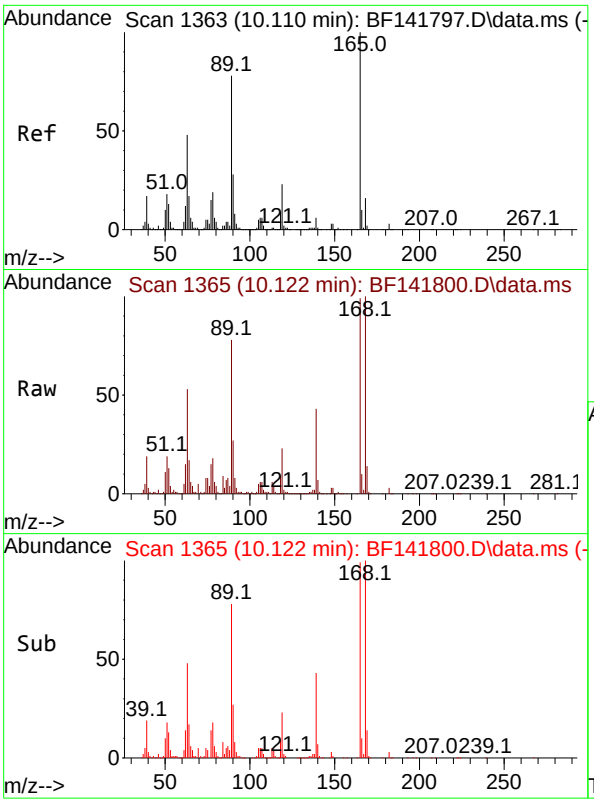



#56
4-Nitrophenol
Concen: 91.723 ng
RT: 10.033 min Scan# 1350
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:139 Resp: 541317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 73.6 | 53.4 | 93.4 |
| 65 | 102.2 | 82.1 | 122.1 |

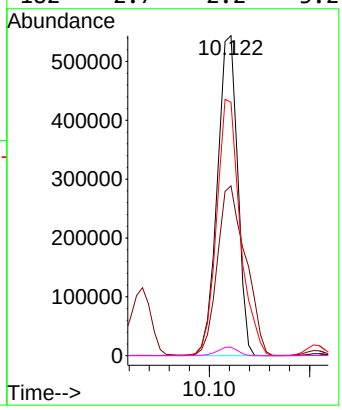





#57
2,4-Dinitrotoluene
Concen: 79.344 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:165 Resp: 76401

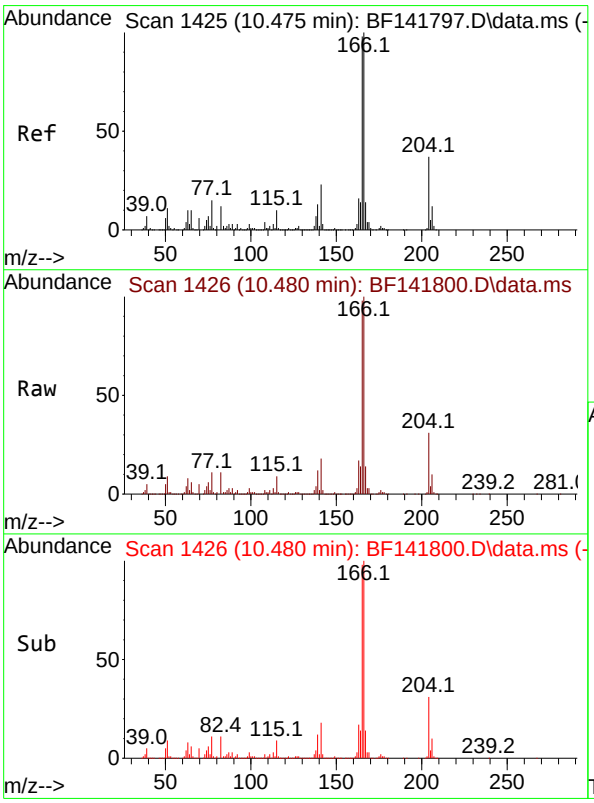
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 53.1 | 38.8 | 58.2 |
| 89 | 79.2 | 62.6 | 94.0 |
| 182 | 2.7 | 2.2 | 3.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

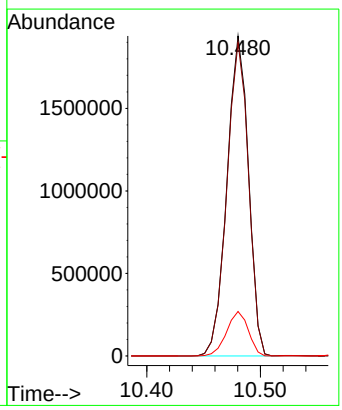
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

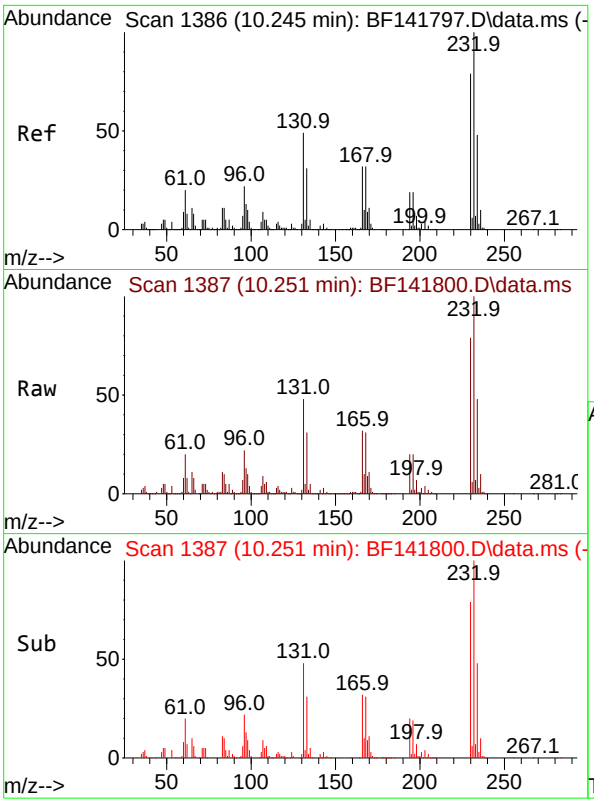



#58
Fluorene
Concen: 69.170 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:166 Resp: 2557382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.0 | 78.6 | 117.8 |
| 167 | 13.9 | 11.0 | 16.4 |

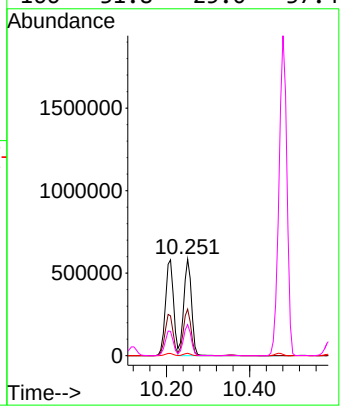





#59
2,3,4,6-Tetrachlorophenol
Concen: 78.537 ng
RT: 10.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:232 Resp: 75291

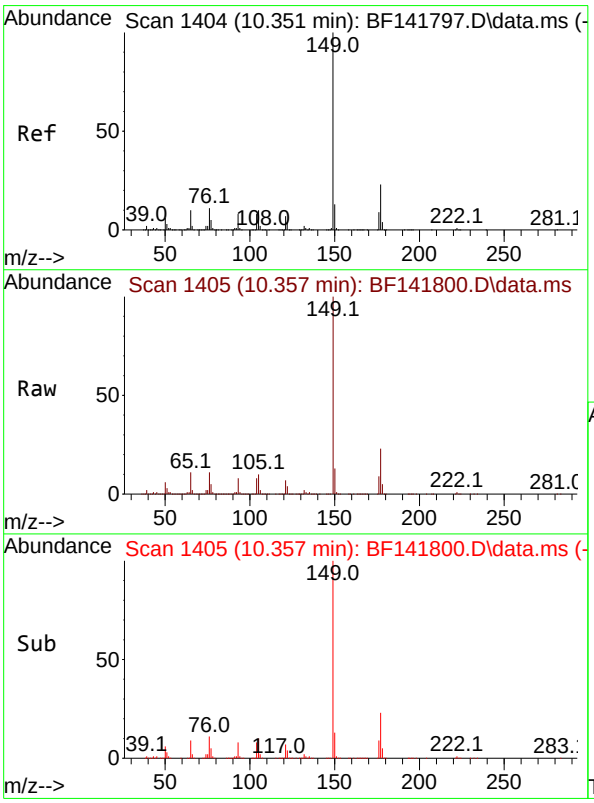
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 47.5 | 37.8 | 56.8 |
| 130 | 2.4 | 2.0 | 3.0 |
| 166 | 31.8 | 25.0 | 37.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

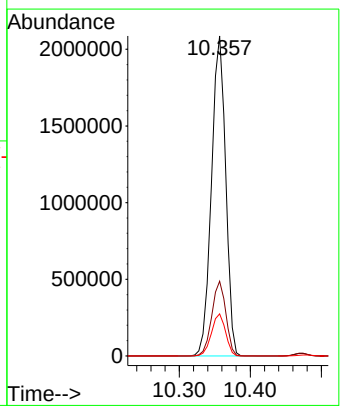
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

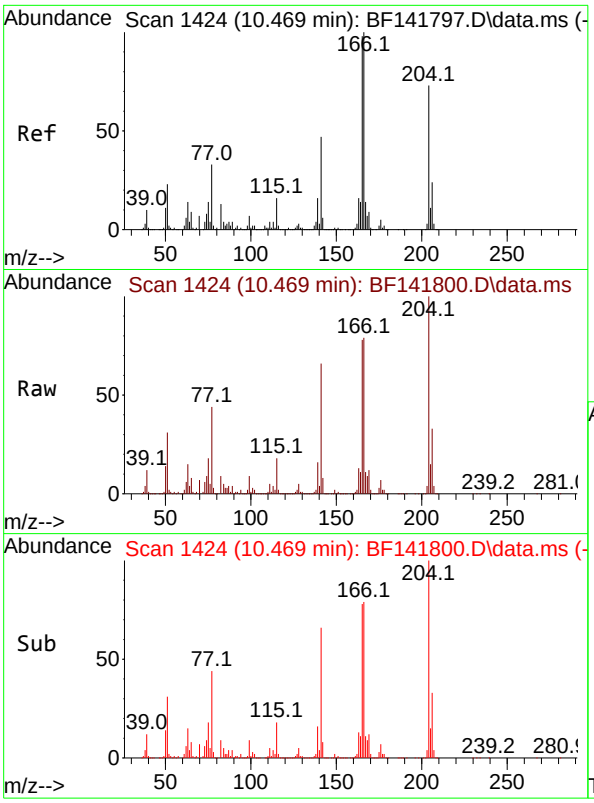



#60
Diethylphthalate
Concen: 72.232 ng
RT: 10.357 min Scan# 1405
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 2893471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 23.3 | 18.3 | 27.5 |
| 150 | 13.2 | 10.3 | 15.5 |






#61
4-Chlorophenyl-phenylether
Concen: 72.414 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

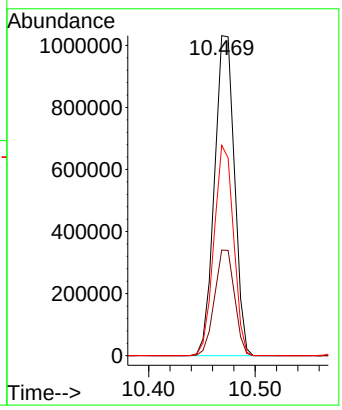
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

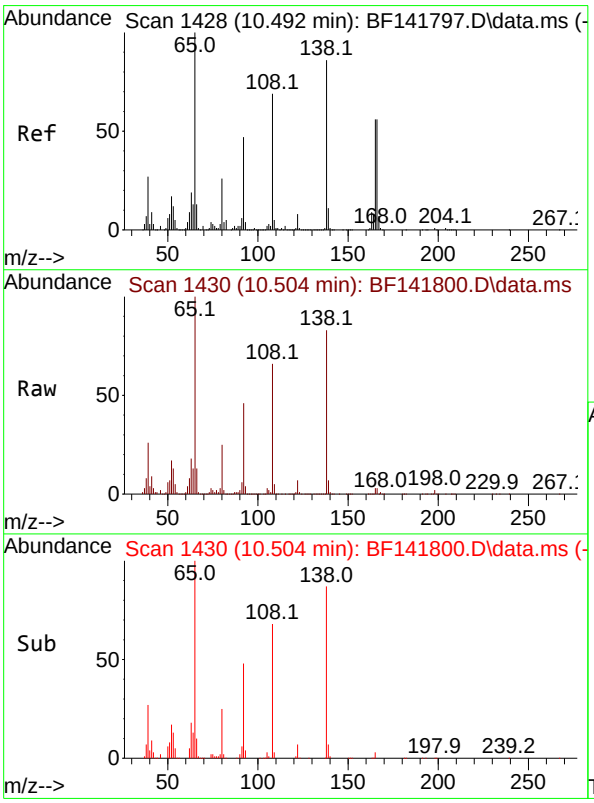
Tgt Ion:204 Resp: 134144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 33.0 | 26.2 | 39.4 |
| 141 | 65.7 | 51.7 | 77.5 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

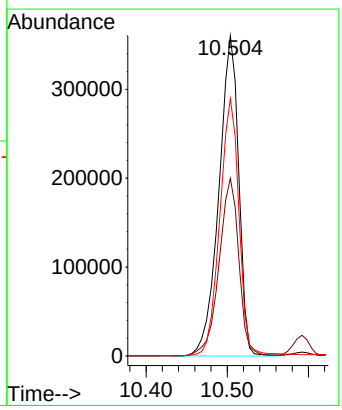


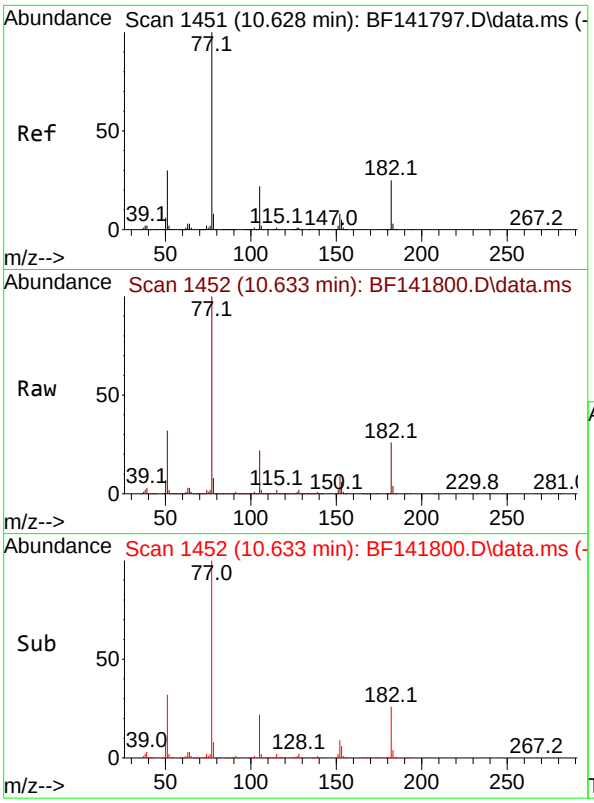




#62
4-Nitroaniline
Concen: 89.663 ng
RT: 10.504 min Scan# 1430
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:138 Resp: 611855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 55.5 | 34.9 | 74.9 |
| 108 | 80.4 | 59.6 | 99.6 |

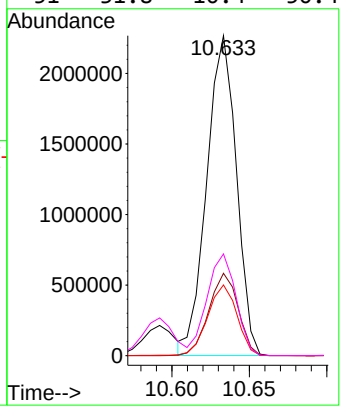





#63
Azobenzene
Concen: 71.441 ng
RT: 10.633 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 77 Resp: 301318

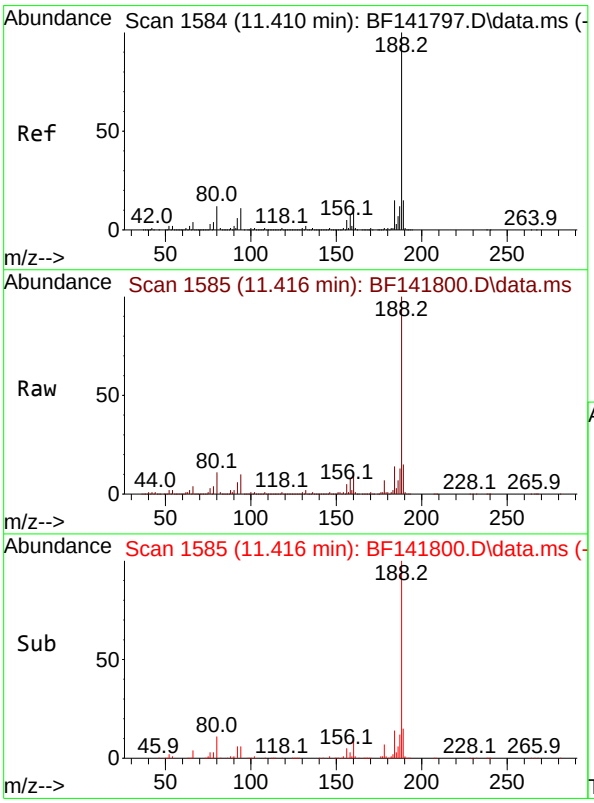
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 25.7 | 4.2 | 44.2 |
| 105 | 22.1 | 1.5 | 41.5 |
| 51 | 31.8 | 10.4 | 50.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

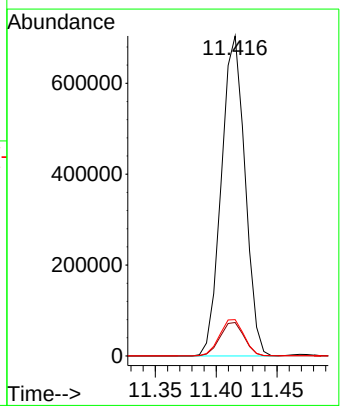
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

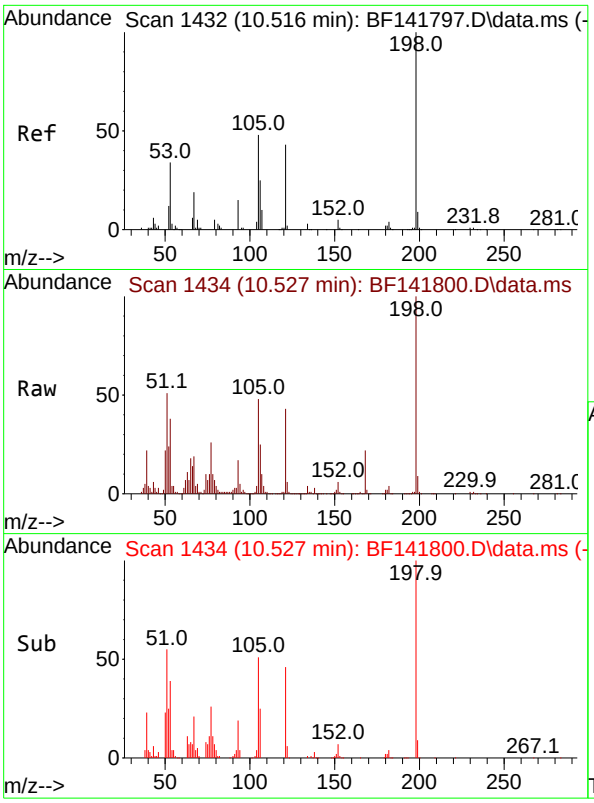



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:188 Resp: 953117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.4 | 8.9 | 13.3 |
| 80 | 11.4 | 9.7 | 14.5 |






#65
4,6-Dinitro-2-methylphenol
Concen: 80.929 ng
RT: 10.527 min Scan# 14
Delta R.T. 0.011 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

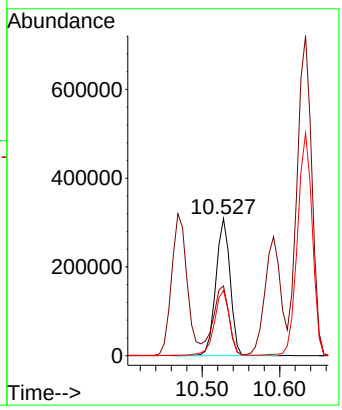
Tgt Ion:198 Resp: 39334

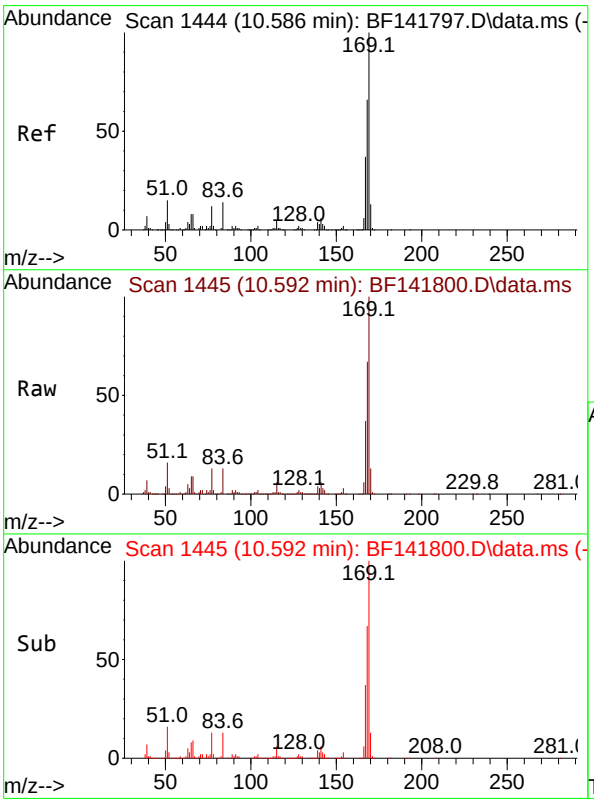
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 50.9 | 32.1 | 72.1 |
| 105 | 47.7 | 28.5 | 68.5 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

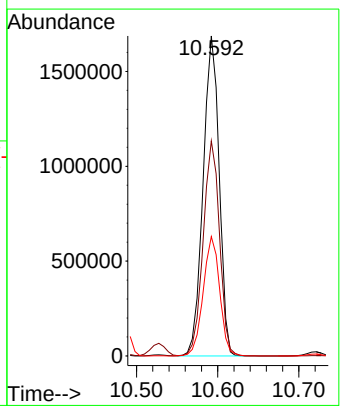


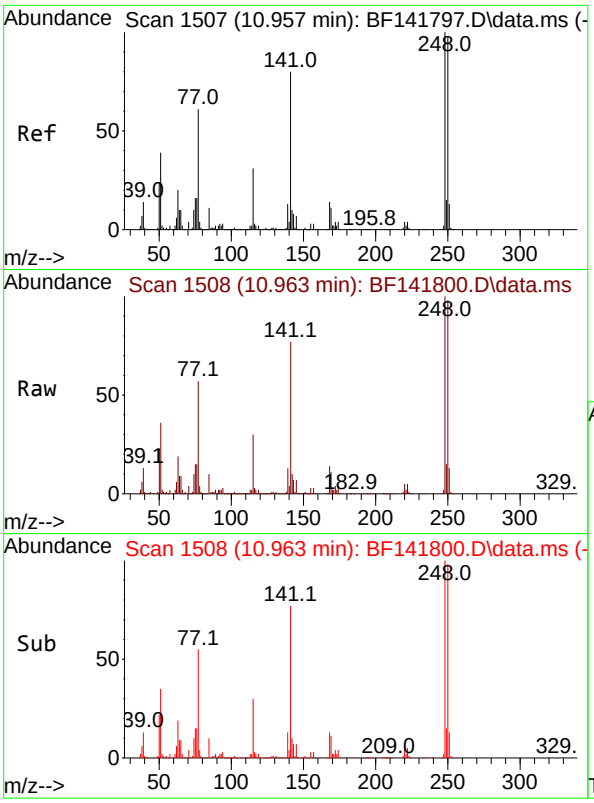




#66
n-Nitrosodiphenylamine
Concen: 73.923 ng
RT: 10.592 min Scan# 1445
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:169 Resp: 2313580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 67.2 | 53.0 | 79.6 |
| 167 | 37.3 | 29.3 | 43.9 |

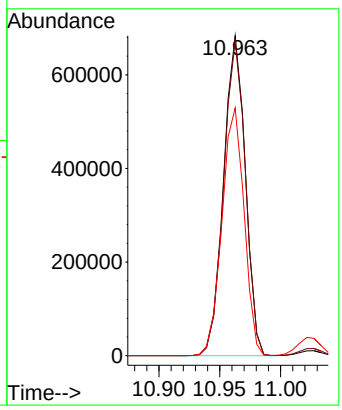





#67
4-Bromophenyl-phenylether
Concen: 76.550 ng
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:248 Resp: 85221

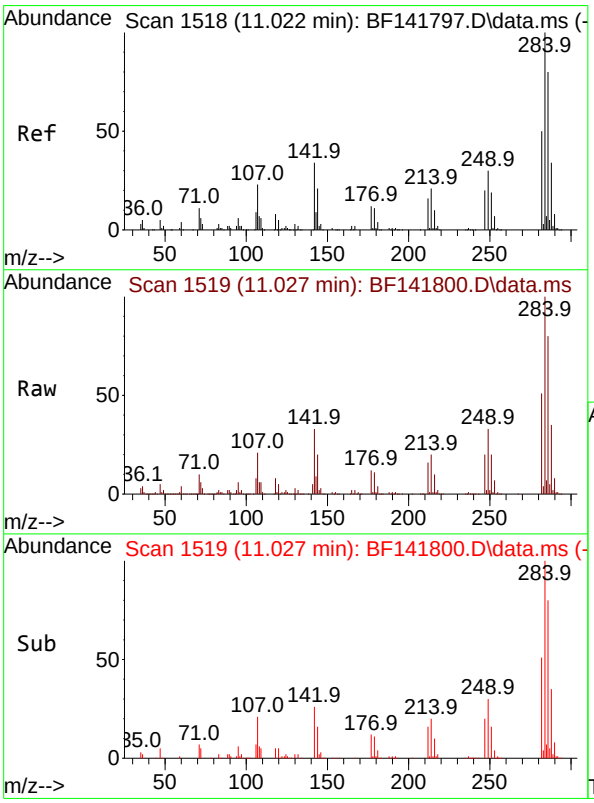
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 98.3 | 78.1 | 117.1 |
| 141 | 77.4 | 64.3 | 96.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

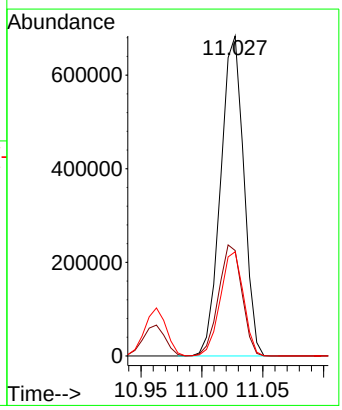
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

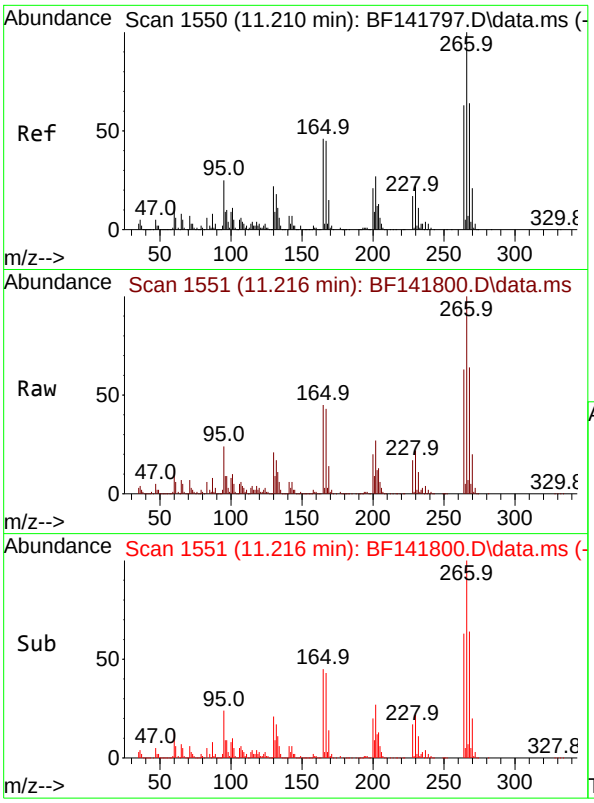



#68
Hexachlorobenzene
Concen: 76.782 ng
RT: 11.027 min Scan# 1519
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:284 Resp: 902644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 33.0 | 28.2 | 42.2 |
| 249 | 32.5 | 25.5 | 38.3 |

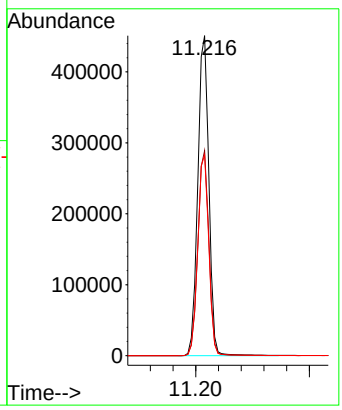





#70
Pentachlorophenol
Concen: 81.849 ng
RT: 11.216 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:266 Resp: 61026

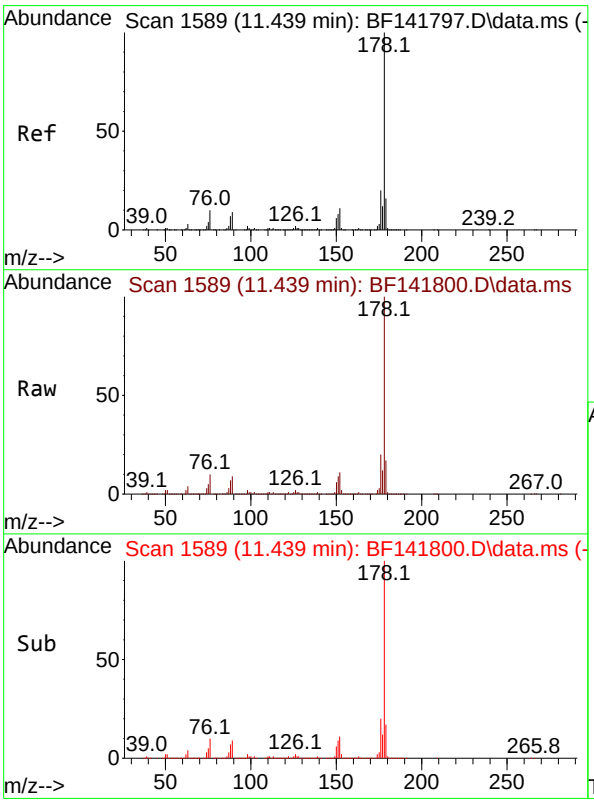
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 64.0 | 50.9 | 76.3 |
| 264 | 62.8 | 50.2 | 75.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

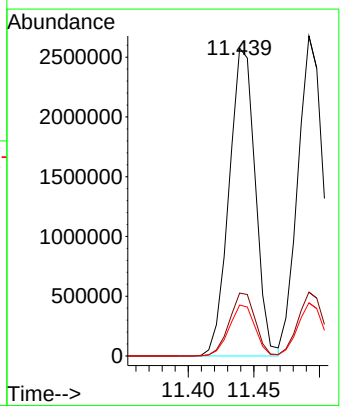
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

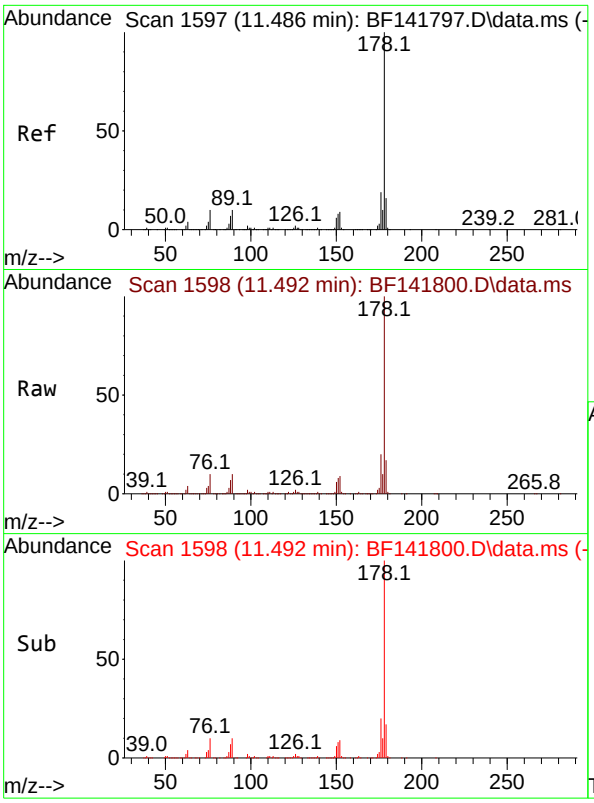



#71
Phenanthrene
Concen: 70.307 ng
RT: 11.439 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:178 Resp: 3584436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.4 | 16.0 | 24.0 |
| 179 | 16.5 | 12.6 | 19.0 |

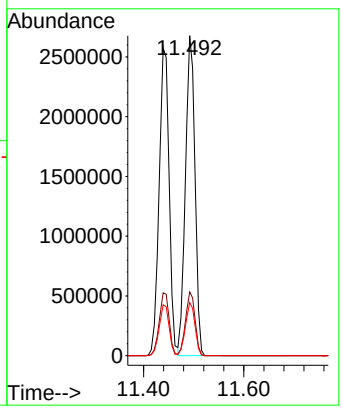





#72
Anthracene
Concen: 69.487 ng
RT: 11.492 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:178 Resp: 355048

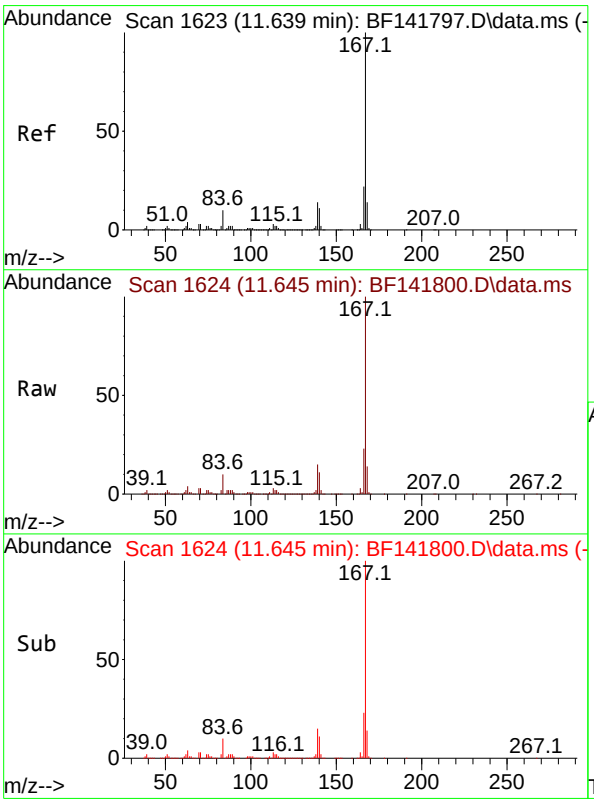
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.0 | 15.4 | 23.0 |
| 179 | 16.6 | 12.8 | 19.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

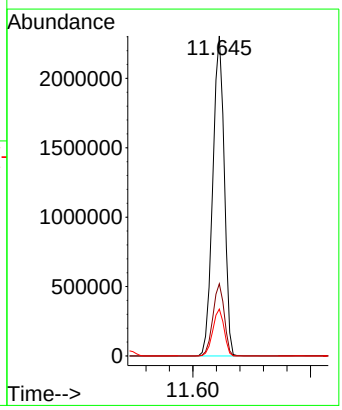
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

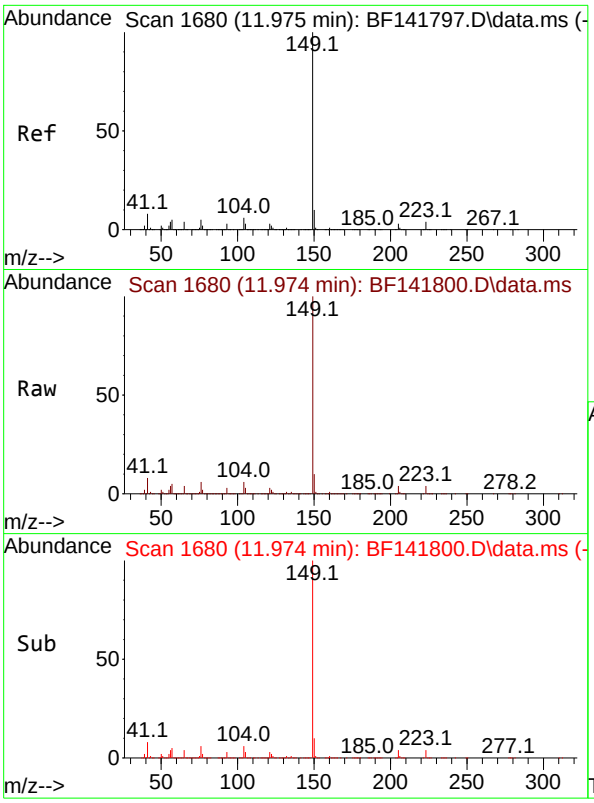



#73
Carbazole
Concen: 69.380 ng
RT: 11.645 min Scan# 1624
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:167 Resp: 3130504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 22.6 | 17.5 | 26.3 |
| 139 | 14.7 | 11.3 | 16.9 |

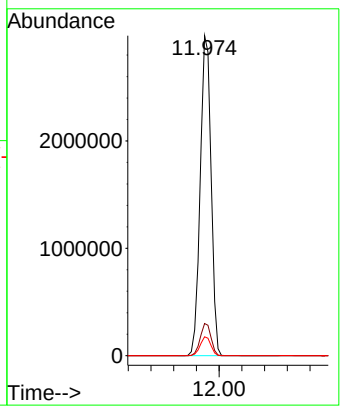





#74
Di-n-butylphthalate
Concen: 68.971 ng
RT: 11.974 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 394481

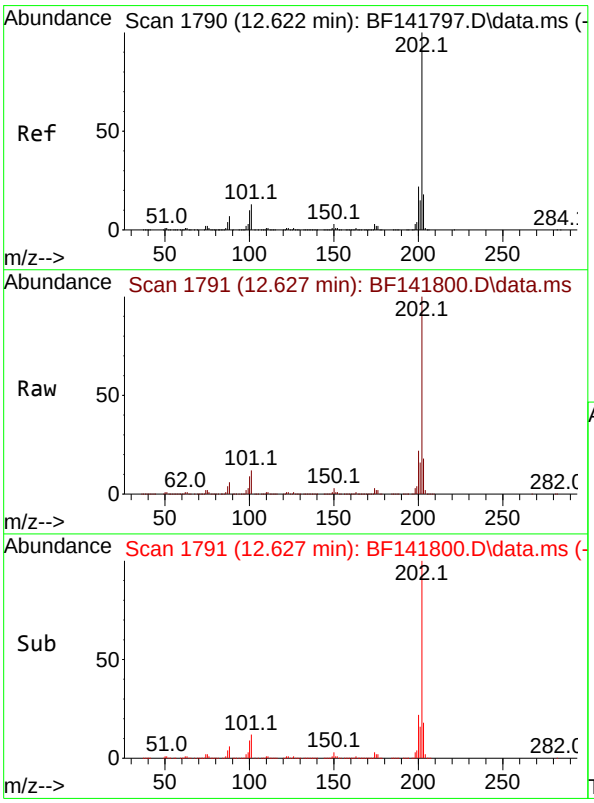
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 10.1 | 7.7 | 11.5 |
| 104 | 5.9 | 4.4 | 6.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

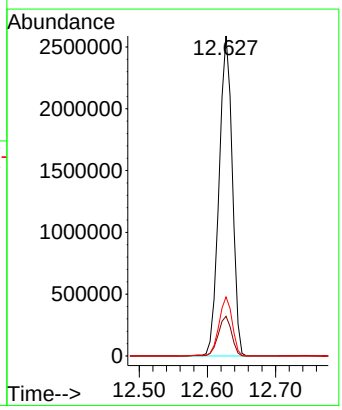
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

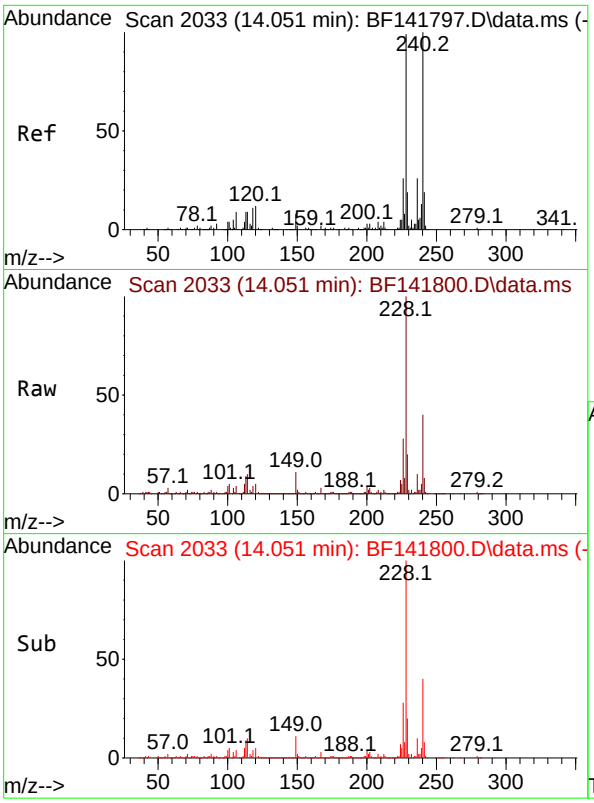



#75
Fluoranthene
Concen: 66.922 ng
RT: 12.627 min Scan# 1791
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:202 Resp: 3496011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.4 | 0.0 | 32.8 |
| 203 | 18.5 | 0.0 | 38.0 |

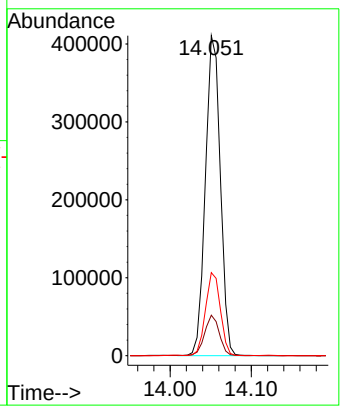





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:240 Resp: 52320

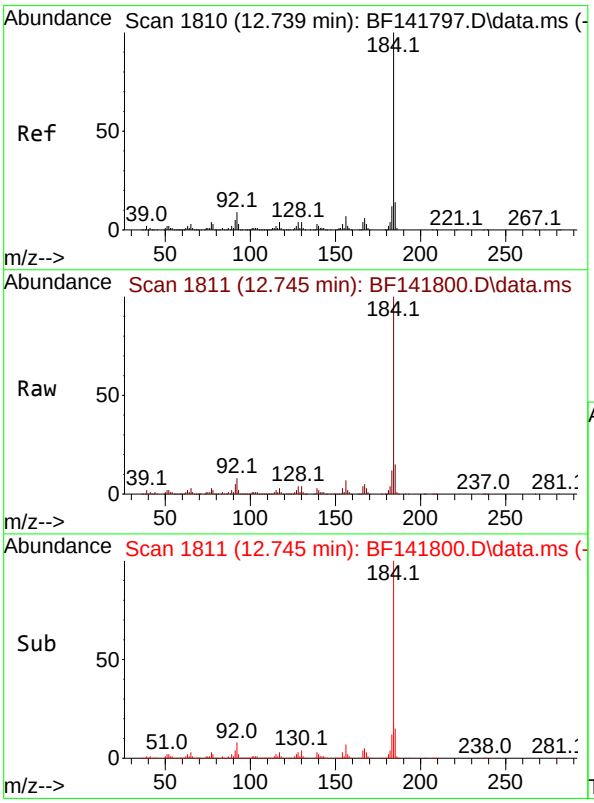
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.6 | 9.7 | 14.5 |
| 236 | 26.0 | 21.0 | 31.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

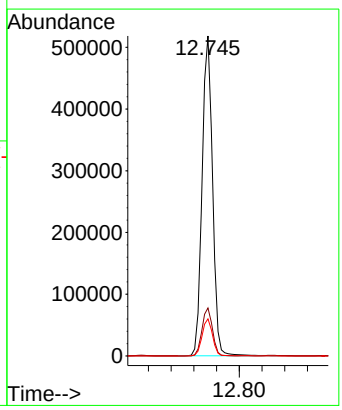
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

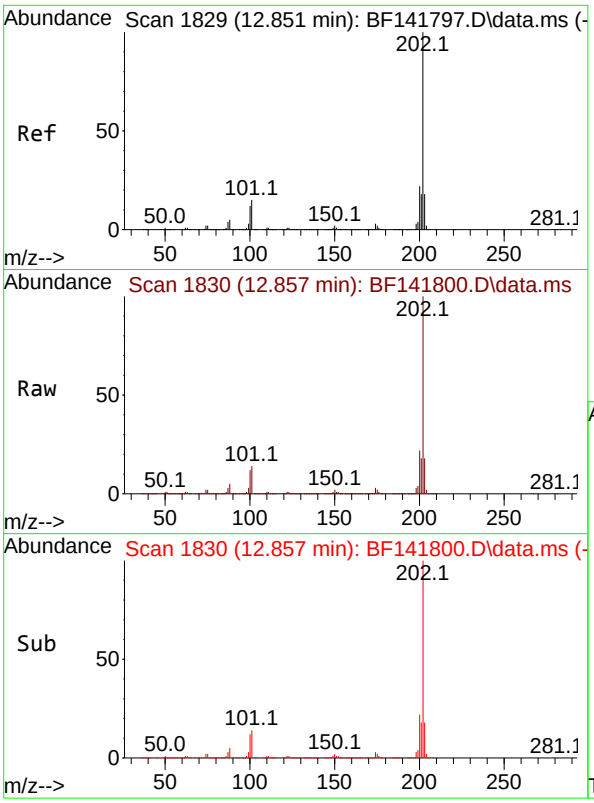



#77
Benzidine
Concen: 100.283 ng
RT: 12.745 min Scan# 1811
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:184 Resp: 660393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 15.0 | 11.6 | 17.4 |
| 183 | 11.6 | 9.4 | 14.0 |

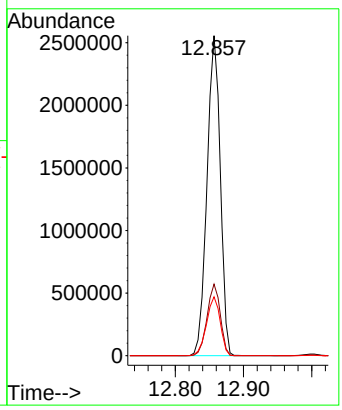





#78
Pyrene
Concen: 76.502 ng
RT: 12.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:202 Resp: 346603

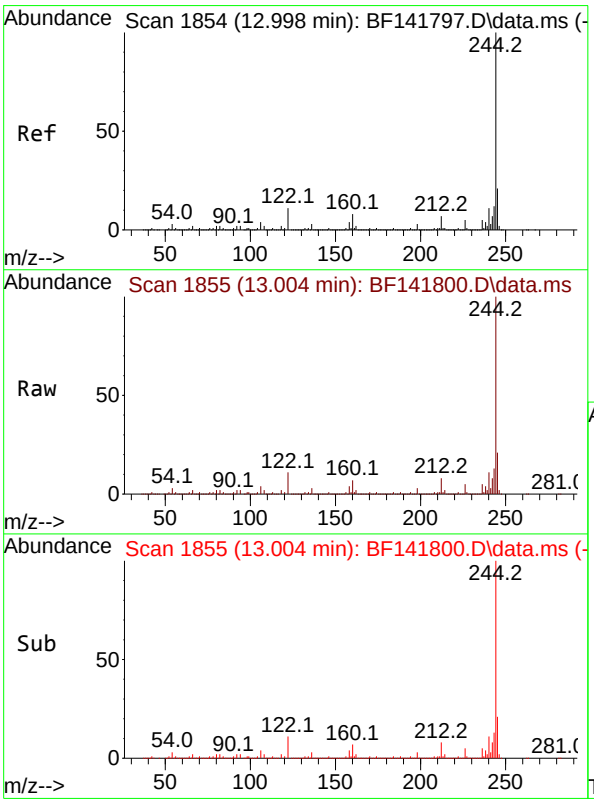
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.4 | 17.4 | 26.0 |
| 203 | 18.4 | 14.6 | 22.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

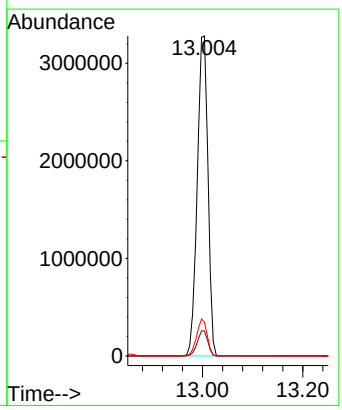
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

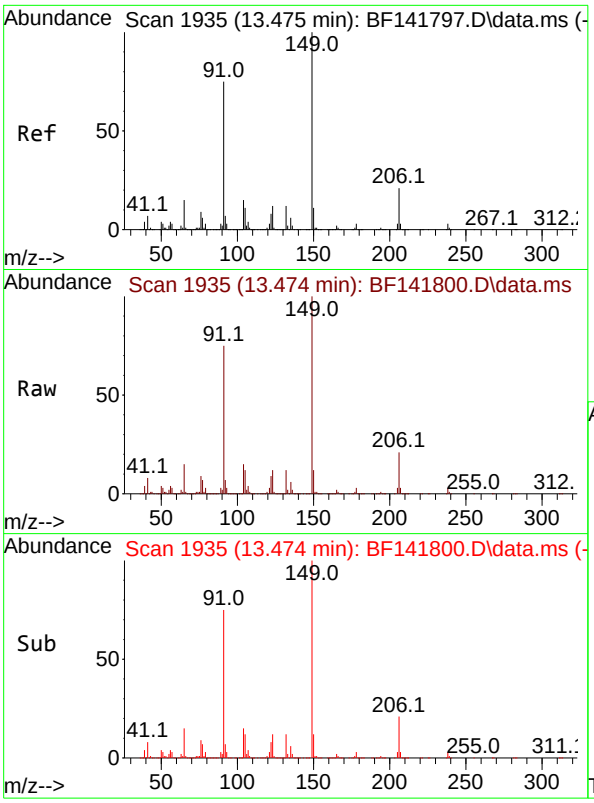



#79
Terphenyl-d14
Concen: 149.765 ng
RT: 13.004 min Scan# 1855
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:244 Resp: 4843134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.8 | 6.0 | 9.0 |
| 122 | 10.5 | 9.0 | 13.6 |

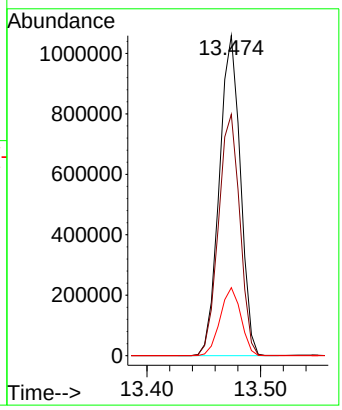





#80
Butylbenzylphthalate
Concen: 82.887 ng
RT: 13.474 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 136438

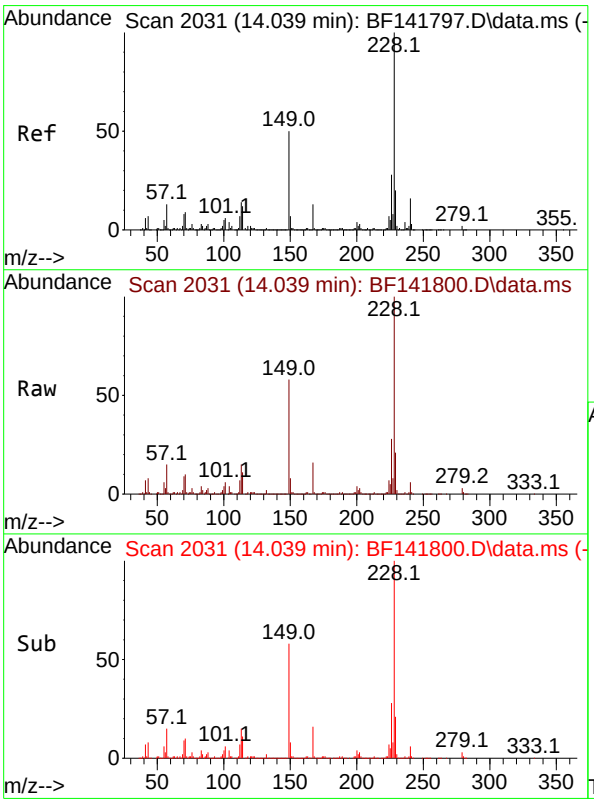
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 75.4 | 60.1 | 90.1 |
| 206 | 21.2 | 16.8 | 25.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

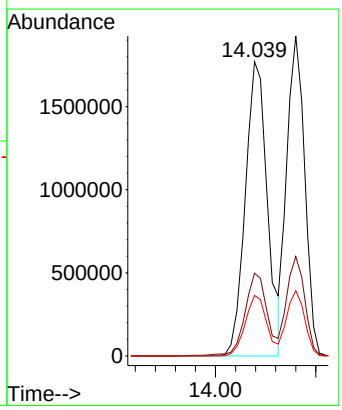
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

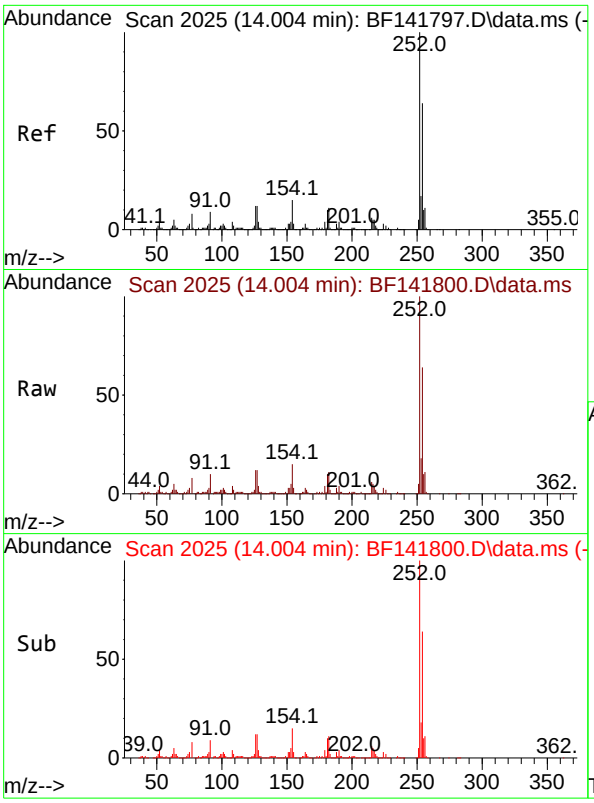



#81
Benzo(a)anthracene
Concen: 78.217 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:228 Resp: 2703093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 28.1 | 22.1 | 33.1 |
| 229 | 20.6 | 16.1 | 24.1 |

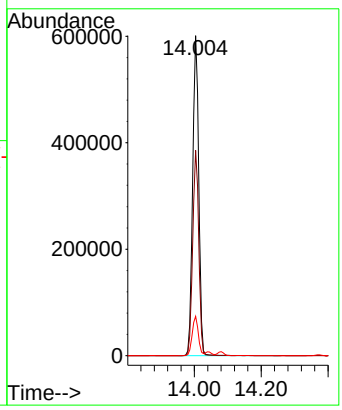





#82
3,3'-Dichlorobenzidine
Concen: 76.939 ng
RT: 14.004 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:252 Resp: 76285

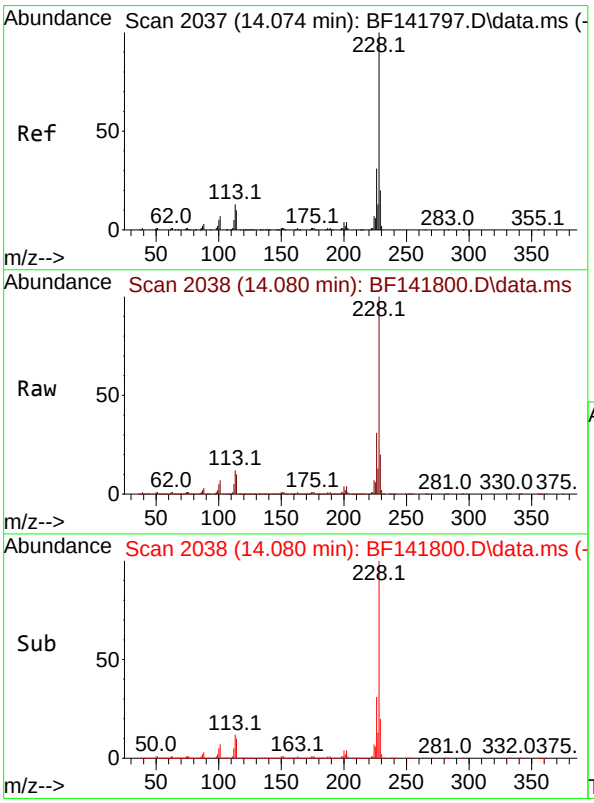
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 64.2 | 51.4 | 77.0 |
| 126 | 12.3 | 9.8 | 14.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

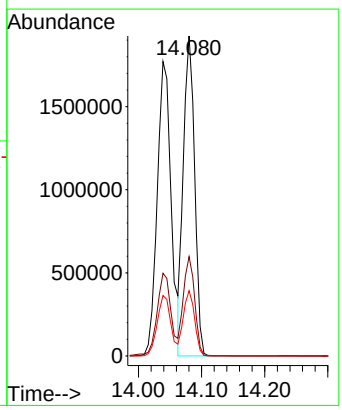
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

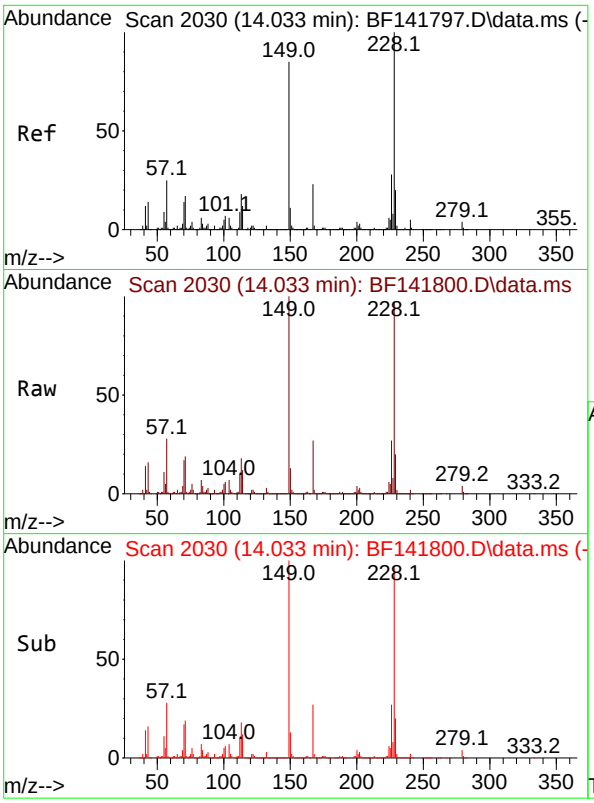



#83
Chrysene
Concen: 75.176 ng
RT: 14.080 min Scan# 2038
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:228 Resp: 2394861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.1 | 24.6 | 37.0 |
| 229 | 20.4 | 16.1 | 24.1 |






#84
Bis(2-ethylhexyl)phthalate
Concen: 84.426 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

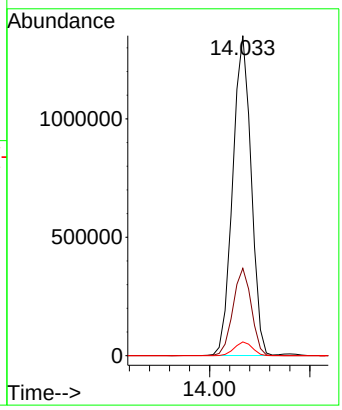
**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

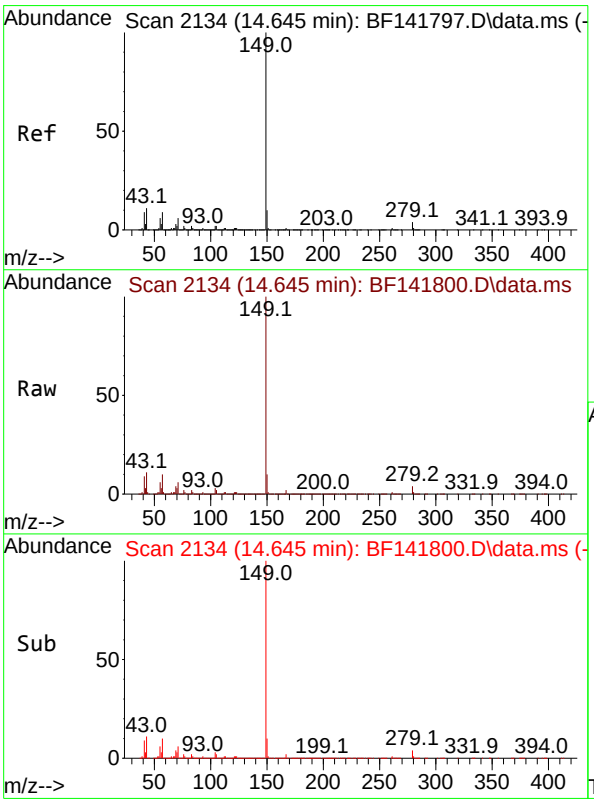
Tgt Ion:149 Resp: 173041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.3 | 21.2 | 31.8 |
| 279 | 4.3 | 3.3 | 4.9 |

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

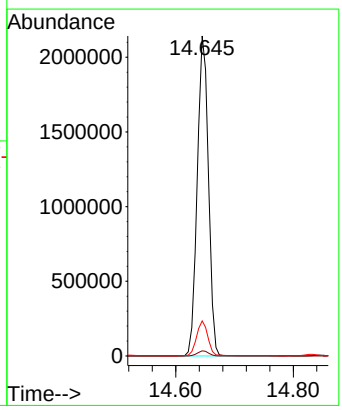


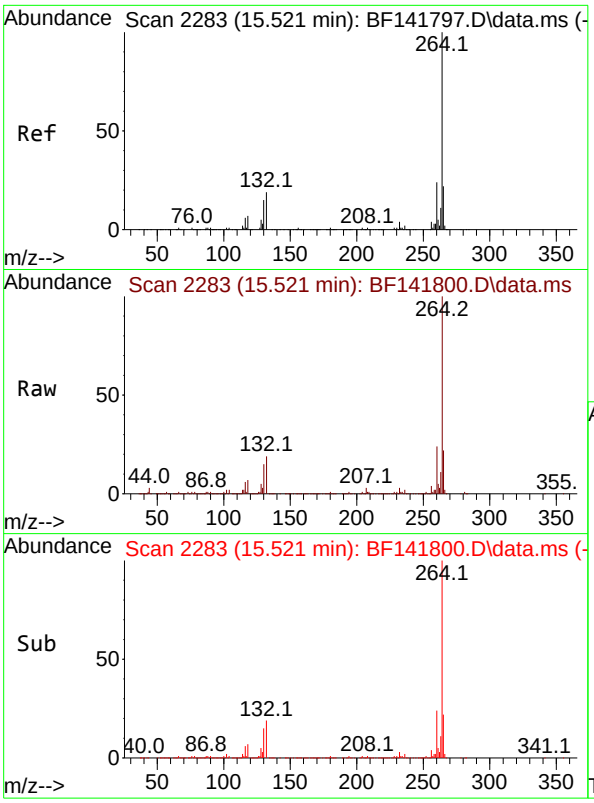




#85
Di-n-octyl phthalate
Concen: 91.958 ng
RT: 14.645 min Scan# 2134
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 2821762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.2 | 1.8 |
| 43 | 10.9 | 8.6 | 12.8 |

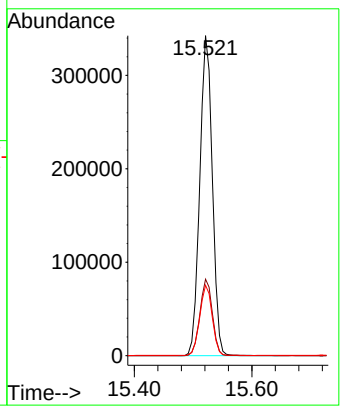





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:264 Resp: 50861

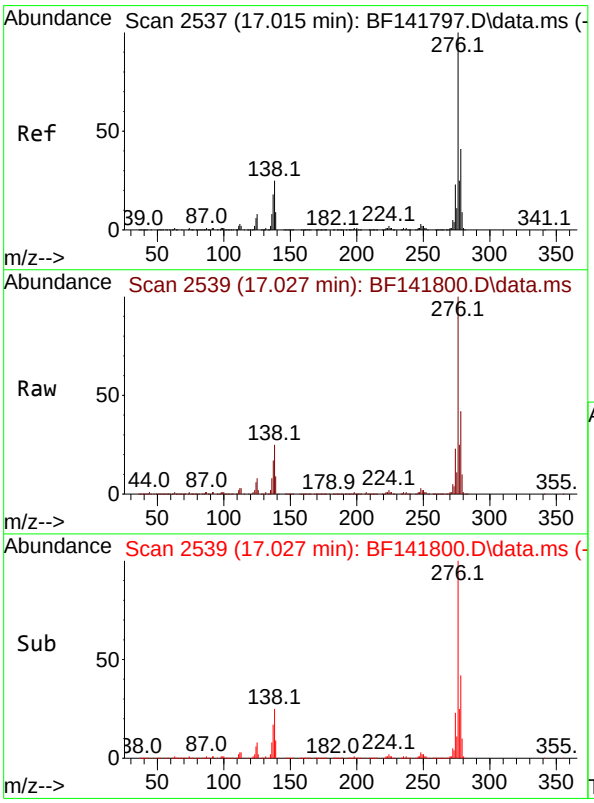
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.9 | 18.9 | 28.3 |
| 265 | 22.0 | 17.4 | 26.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

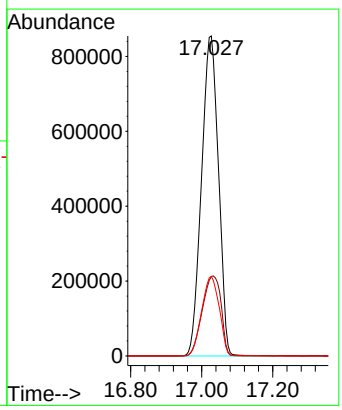
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

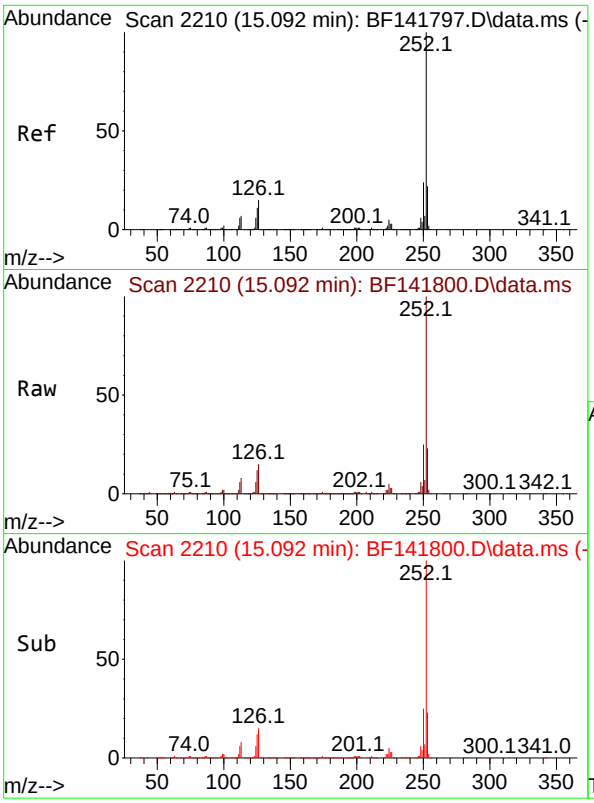



#87
Indeno(1,2,3-cd)pyrene
Concen: 87.778 ng
RT: 17.027 min Scan# 2539
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:276 Resp: 2842850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 27.7 | 22.5 | 33.7 |
| 277 | 25.7 | 20.3 | 30.5 |

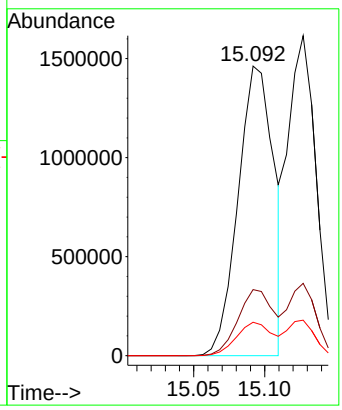





#88
Benzo(b)fluoranthene
Concen: 73.777 ng
RT: 15.092 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:252 Resp: 255601

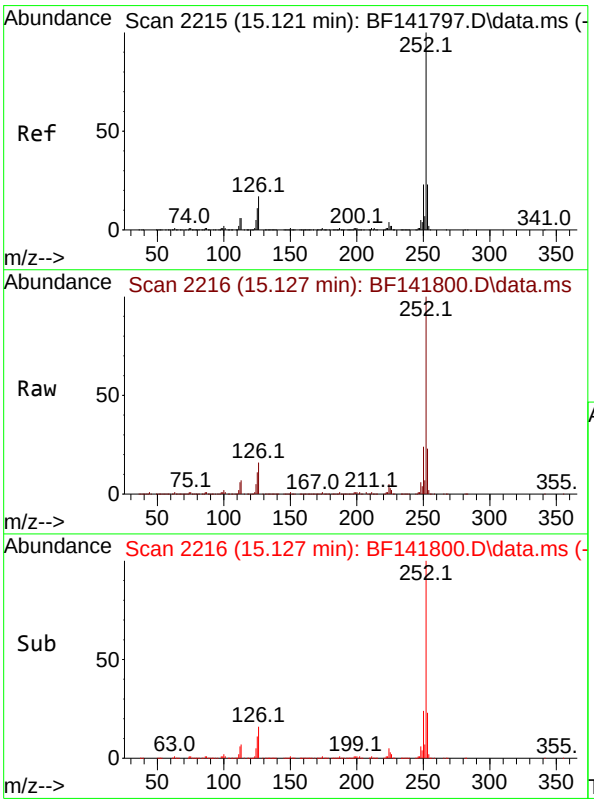
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.8 | 17.7 | 26.5 |
| 125 | 11.6 | 8.6 | 13.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

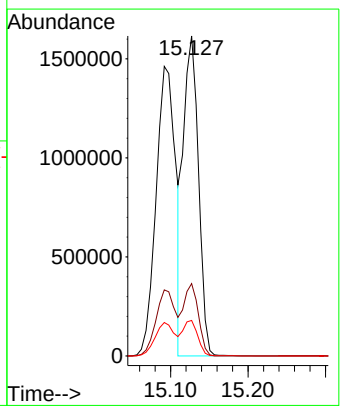
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

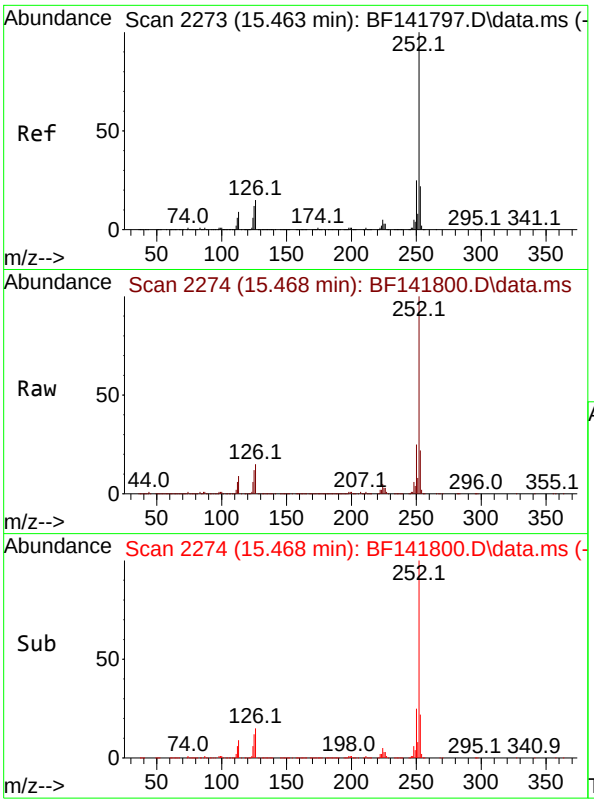



#89
Benzo(k)fluoranthene
Concen: 74.176 ng
RT: 15.127 min Scan# 2216
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:252 Resp: 2184261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.6 | 17.8 | 26.8 |
| 125 | 11.1 | 8.8 | 13.2 |






#90
Benzo(a)pyrene
Concen: 77.617 ng
RT: 15.468 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

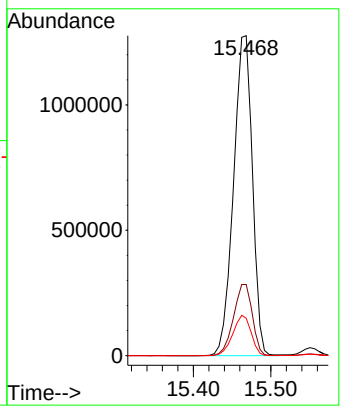
Tgt Ion:252 Resp: 215658

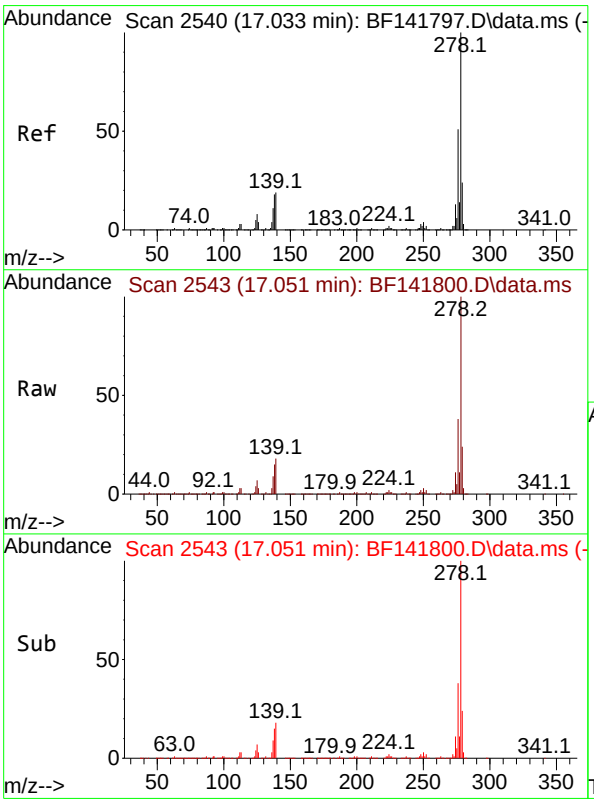
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.2 | 17.5 | 26.3 |
| 125 | 11.7 | 9.4 | 14.2 |

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

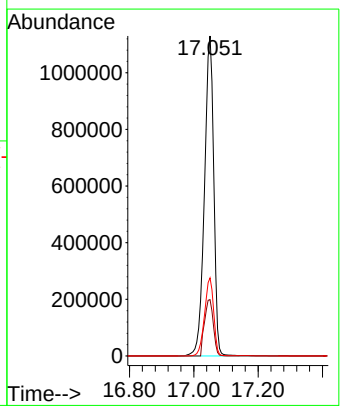


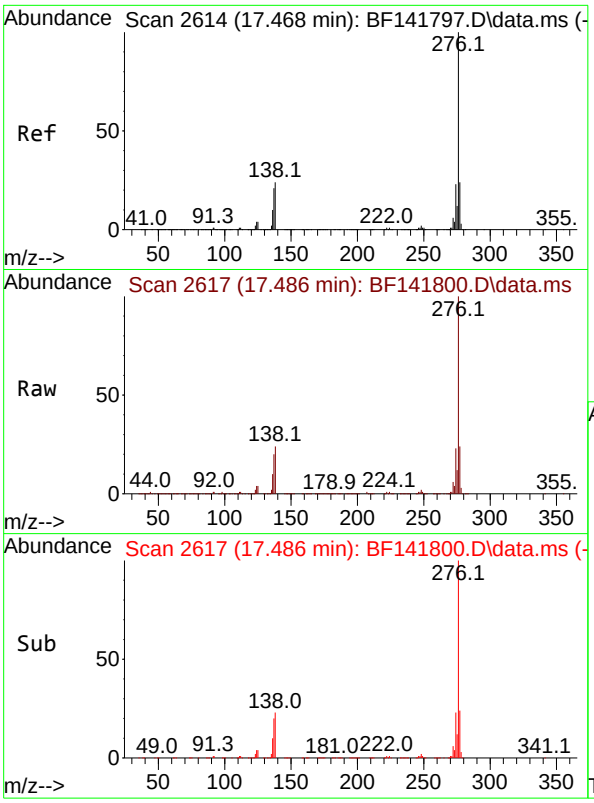




#91
Dibenzo(a,h)anthracene
Concen: 85.844 ng
RT: 17.051 min Scan# 2543
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:278 Resp: 2269377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.6 | 14.9 | 22.3 |
| 279 | 24.4 | 19.3 | 28.9 |

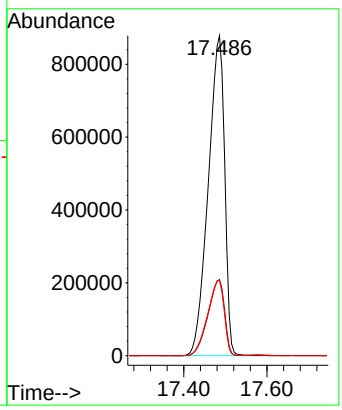





#92
Benzo(g,h,i)perylene
Concen: 88.534 ng
RT: 17.486 min Scan# 2
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:276 Resp: 239775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.8 | 19.4 | 29.0 |
| 138 | 23.5 | 19.3 | 28.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
SSTDICC080

**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.892 | 152 | 336406 | 20.000 | ng | | 0.00 |
| 21) Naphthalene-d8 | 8.175 | 136 | 1367272 | 20.000 | ng | | 0.00 |
| 39) Acenaphthene-d10 | 9.928 | 164 | 753741 | 20.000 | ng | | 0.00 |
| 64) Phenanthrene-d10 | 11.410 | 188 | 1211382 | 20.000 | ng | | 0.00 |
| 76) Chrysene-d12 | 14.051 | 240 | 696919 | 20.000 | ng | | 0.00 |
| 86) Perylene-d12 | 15.521 | 264 | 634238 | 20.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 5) 2-Fluorophenol | 5.498 | 112 | 1736670 | 82.443 | ng | | 0.00 |
| 7) Phenol-d6 | 6.510 | 99 | 2276751 | 83.039 | ng | | 0.00 |
| 23) Nitrobenzene-d5 | 7.457 | 82 | 2025812 | 94.707 | ng | | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.716 | 330 | 596677 | 84.321 | ng | | 0.00 |
| 45) 2-Fluorobiphenyl | 9.245 | 172 | 3570541 | 75.957 | ng | | 0.00 |
| 79) Terphenyl-d14 | 12.998 | 244 | 3534753 | 82.060 | ng | | 0.00 |
| Target Compounds | | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.681 | 88 | 396533 | 41.486 | ng | | 100 |
| 3) Pyridine | 3.446 | 79 | 1012428 | 42.572 | ng | | 99 |
| 4) n-Nitrosodimethylamine | 3.404 | 42 | 498621 | 43.575 | ng | | 99 |
| 6) Aniline | 6.557 | 93 | 1221626 | 42.857 | ng | | 100 |
| 8) 2-Chlorophenol | 6.675 | 128 | 957321 | 42.011 | ng | | 100 |
| 9) Benzaldehyde | 6.440 | 77 | 696694 | 43.684 | ng | | 99 |
| 10) Phenol | 6.528 | 94 | 1219216 | 41.614 | ng | | 99 |
| 11) bis(2-Chloroethyl)ether | 6.628 | 93 | 932690 | 41.763 | ng | | 99 |
| 12) 1,3-Dichlorobenzene | 6.834 | 146 | 1012705 | 41.498 | ng | | 99 |
| 13) 1,4-Dichlorobenzene | 6.910 | 146 | 1009763 | 41.066 | ng | | 99 |
| 14) 1,2-Dichlorobenzene | 7.063 | 146 | 938112 | 40.857 | ng | | 100 |
| 15) Benzyl Alcohol | 7.028 | 79 | 932679 | 42.564 | ng | | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 1447535 | 42.679 | ng | | 99 |
| 17) 2-Methylphenol | 7.134 | 107 | 796850 | 42.365 | ng | | 100 |
| 18) Hexachloroethane | 7.404 | 117 | 389901 | 42.366 | ng | | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.310 | 70 | 748423 | 41.525 | ng | | 99 |
| 20) 3+4-Methylphenols | 7.292 | 107 | 979968 | 41.840 | ng | # | 85 |
| 22) Acetophenone | 7.298 | 105 | 1345874 | 40.417 | ng | | 98 |
| 24) Nitrobenzene | 7.475 | 77 | 1047974 | 45.751 | ng | | 100 |
| 25) Isophorone | 7.710 | 82 | 1881562 | 40.944 | ng | | 99 |
| 26) 2-Nitrophenol | 7.787 | 139 | 462297 | 45.447 | ng | | 99 |
| 27) 2,4-Dimethylphenol | 7.816 | 122 | 708317 | 41.931 | ng | | 100 |
| 28) bis(2-Chloroethoxy)met... | 7.922 | 93 | 1183035 | 40.357 | ng | | 100 |
| 29) 2,4-Dichlorophenol | 8.022 | 162 | 821536 | 42.157 | ng | | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 870339 | 40.757 | ng | | 100 |
| 31) Naphthalene | 8.192 | 128 | 2800645 | 39.854 | ng | | 100 |
| 32) Benzoic acid | 7.939 | 122 | 635541 | 45.545 | ng | | 99 |
| 33) 4-Chloroaniline | 8.239 | 127 | 1033113 | 40.096 | ng | | 99 |
| 34) Hexachlorobutadiene | 8.310 | 225 | 544620 | 41.042 | ng | | 99 |
| 35) Caprolactam | 8.616 | 113 | 256209 | 42.737 | ng | | 99 |
| 36) 4-Chloro-3-methylphenol | 8.710 | 107 | 905842 | 41.844 | ng | | 100 |
| 37) 2-Methylnaphthalene | 8.881 | 142 | 1830313 | 39.710 | ng | | 99 |
| 38) 1-Methylnaphthalene | 8.981 | 142 | 1752937 | 39.635 | ng | | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.045 | 216 | 872629 | 40.086 | ng | | 100 |
| 41) Hexachlorocyclopentadiene | 9.039 | 237 | 354082 | 38.975 | ng | | 98 |
| 43) 2,4,6-Trichlorophenol | 9.157 | 196 | 592786 | 42.156 | ng | | 99 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.192 | 196 | 582125 | 41.806 | ng | | 100 |
| 46) 1,1'-Biphenyl | 9.351 | 154 | 2229687 | 38.864 | ng | | 100 |
| 47) 2-Chloronaphthalene | 9.375 | 162 | 1663643 | 39.288 | ng | | 100 |
| 48) 2-Nitroaniline | 9.463 | 65 | 514104 | 44.684 | ng | | 99 |
| 49) Acenaphthylene | 9.792 | 152 | 2533613 | 39.907 | ng | | 100 |
| 50) Dimethylphthalate | 9.651 | 163 | 2031698 | 40.250 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.710 | 165 | 425445 | 44.292 | ng | | 97 |
| 52) Acenaphthene | 9.963 | 154 | 1734464 | 40.488 | ng | | 99 |
| 53) 3-Nitroaniline | 9.881 | 138 | 449174 | 43.938 | ng | | 95 |
| 54) 2,4-Dinitrophenol | 9.981 | 184 | 176378 | 47.494 | ng | # | 1 |
| 55) Dibenzofuran | 10.133 | 168 | 2456099 | 39.391 | ng | | 100 |
| 56) 4-Nitrophenol | 10.022 | 139 | 370704 | 49.725 | ng | | 99 |
| 57) 2,4-Dinitrotoluene | 10.110 | 165 | 536914 | 45.704 | ng | | 99 |
| 58) Fluorene | 10.475 | 166 | 1800318 | 38.547 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.245 | 232 | 515976 | 42.607 | ng | | 100 |
| 60) Diethylphthalate | 10.351 | 149 | 2018830 | 39.896 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.469 | 204 | 901998 | 38.546 | ng | | 99 |
| 62) 4-Nitroaniline | 10.492 | 138 | 421232 | 48.866 | ng | | 99 |
| 63) Azobenzene | 10.628 | 77 | 2141198 | 40.188 | ng | | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.516 | 198 | 256241 | 45.441 | ng | | 99 |
| 66) n-Nitrosodiphenylamine | 10.586 | 169 | 1608263 | 40.431 | ng | | 100 |
| 67) 4-Bromophenyl-phenylether | 10.957 | 248 | 574667 | 40.614 | ng | | 99 |
| 68) Hexachlorobenzene | 11.022 | 284 | 608067 | 40.697 | ng | | 99 |
| 69) Atrazine | 11.110 | 200 | 420733 | 38.463 | ng | | 99 |
| 70) Pentachlorophenol | 11.210 | 266 | 417260 | 44.032 | ng | | 100 |
| 71) Phenanthrene | 11.439 | 178 | 2557877 | 39.475 | ng | | 100 |
| 72) Anthracene | 11.486 | 178 | 2540876 | 39.126 | ng | | 99 |
| 73) Carbazole | 11.639 | 167 | 2254761 | 39.317 | ng | | 100 |
| 74) Di-n-butylphthalate | 11.975 | 149 | 2874276 | 39.540 | ng | | 100 |
| 75) Fluoranthene | 12.622 | 202 | 2552790 | 38.448 | ng | | 100 |
| 77) Benzidine | 12.739 | 184 | 657519 | 74.959 | ng | | 99 |
| 78) Pyrene | 12.851 | 202 | 2553211 | 42.307 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.469 | 149 | 957186 | 43.655 | ng | | 98 |
| 81) Benzo(a)anthracene | 14.039 | 228 | 1852195 | 40.236 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 14.004 | 252 | 573075 | 43.392 | ng | | 100 |
| 83) Chrysene | 14.074 | 228 | 1718188 | 40.491 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.033 | 149 | 1183508 | 43.350 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.645 | 149 | 1881499 | 46.033 | ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 17.015 | 276 | 1767077 | 43.754 | ng | | 100 |
| 88) Benzo(b)fluoranthene | 15.086 | 252 | 1710890 | 39.602 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.121 | 252 | 1454422 | 39.608 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.457 | 252 | 1416788 | 40.891 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.033 | 278 | 1440368 | 43.693 | ng | | 100 |
| 92) Benzo(g,h,i)perylene | 17.468 | 276 | 1484943 | 43.969 | ng | | 99 |

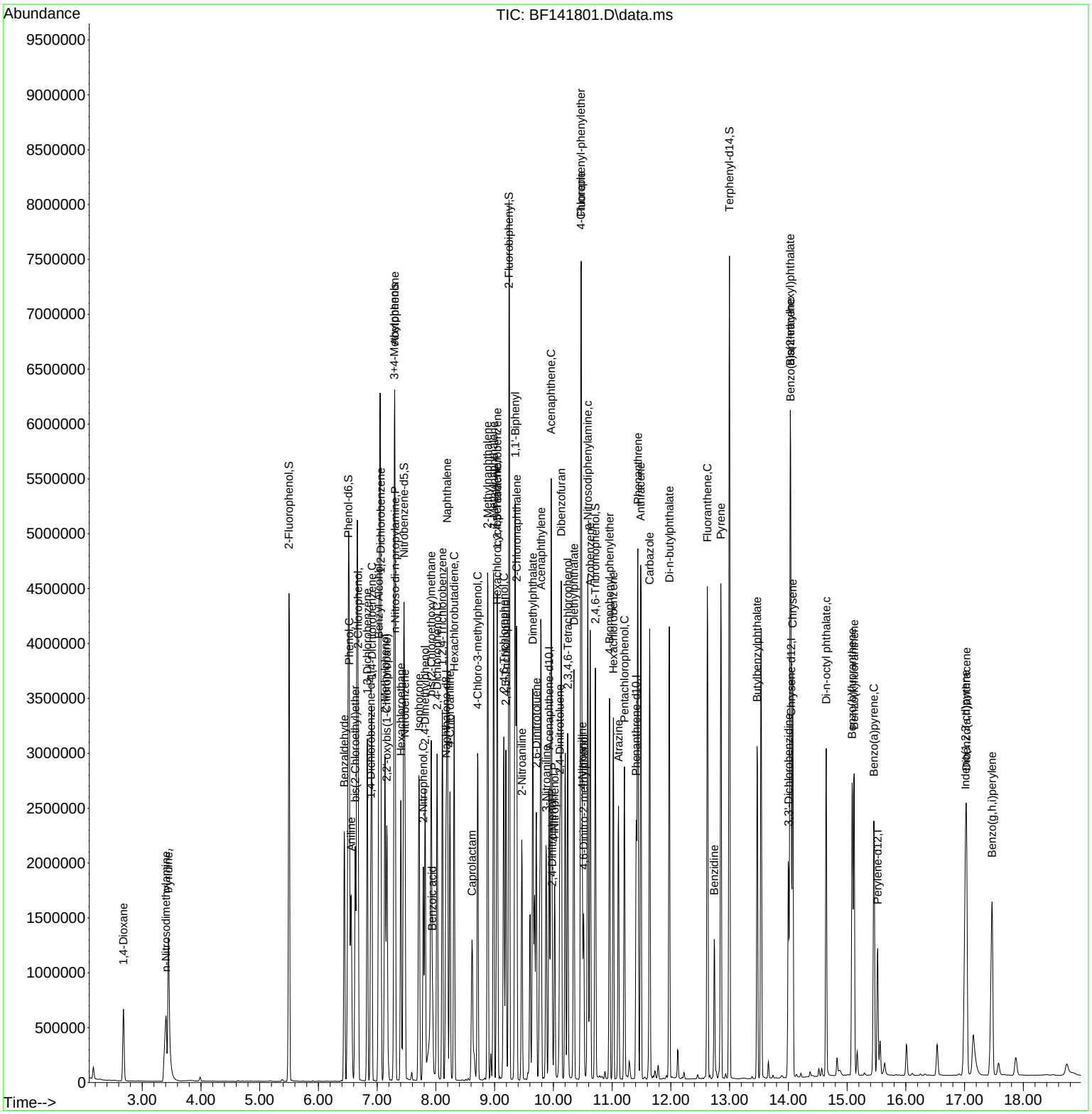
(#) = qualifier out of range (m) = manual integration (+) = signals summed

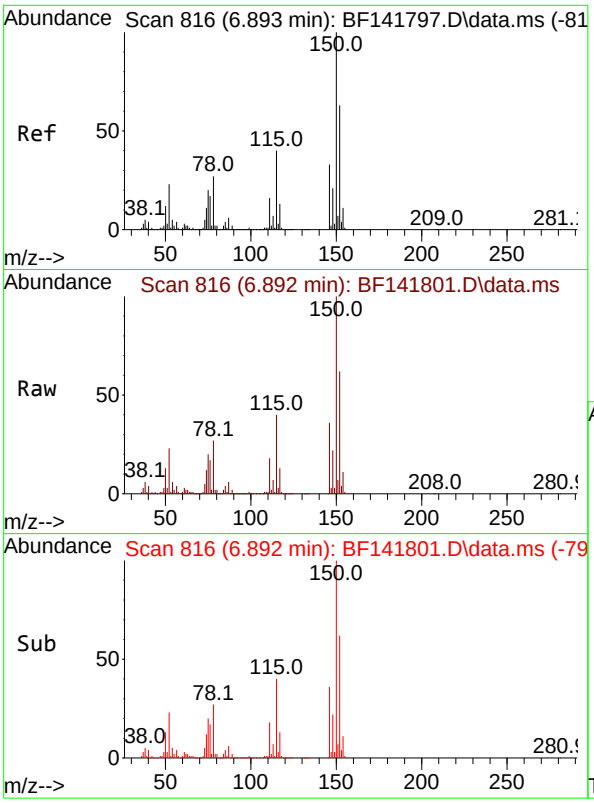
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



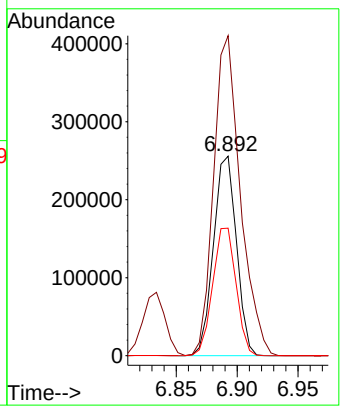


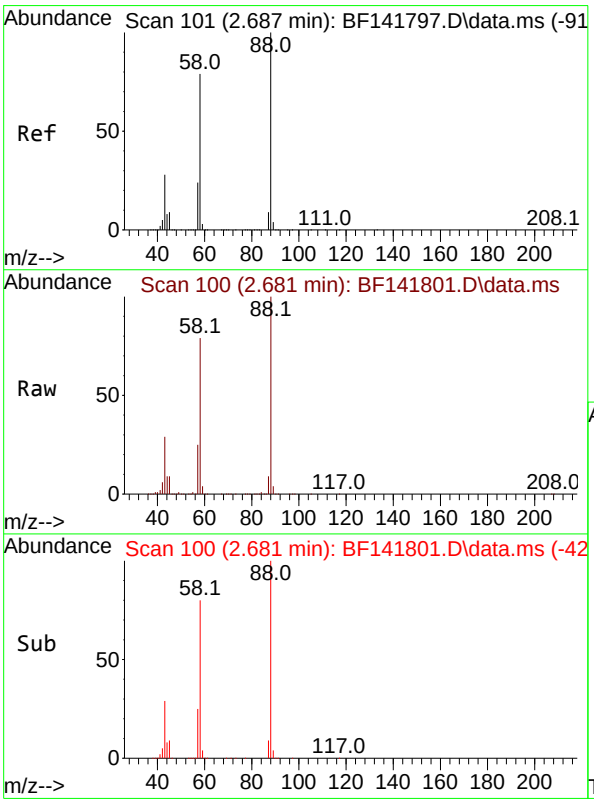

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 8
Delta R.T. -0.001 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:152 Resp: 336406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.3 | 127.5 | 191.3 |
| 115 | 63.9 | 51.4 | 77.2 |

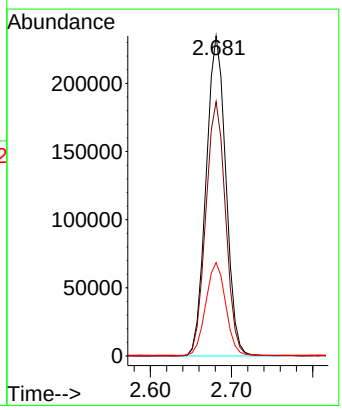


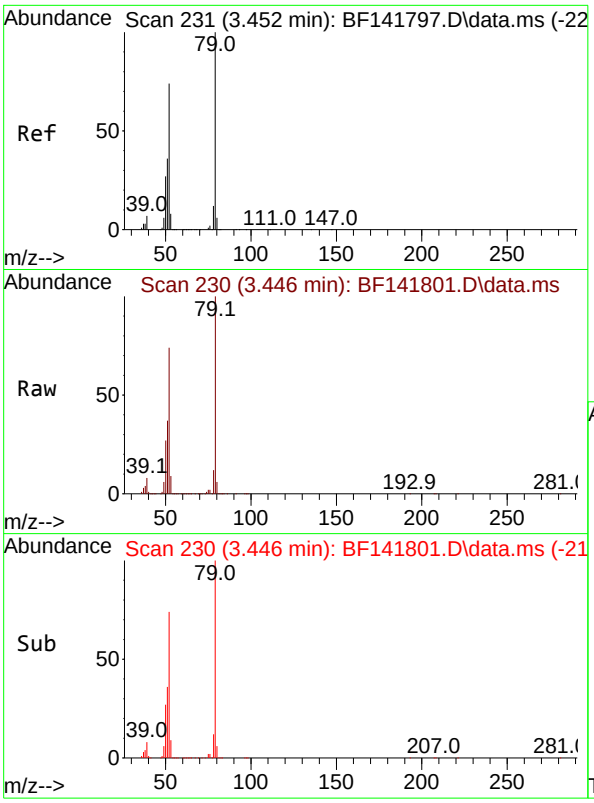




#2
1,4-Dioxane
Concen: 41.486 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 88 Resp: 396533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 79.7 | 63.9 | 95.9 |
| 43 | 29.0 | 23.0 | 34.6 |



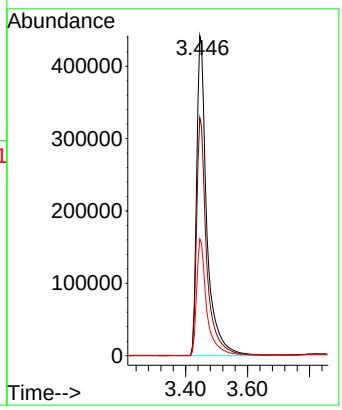


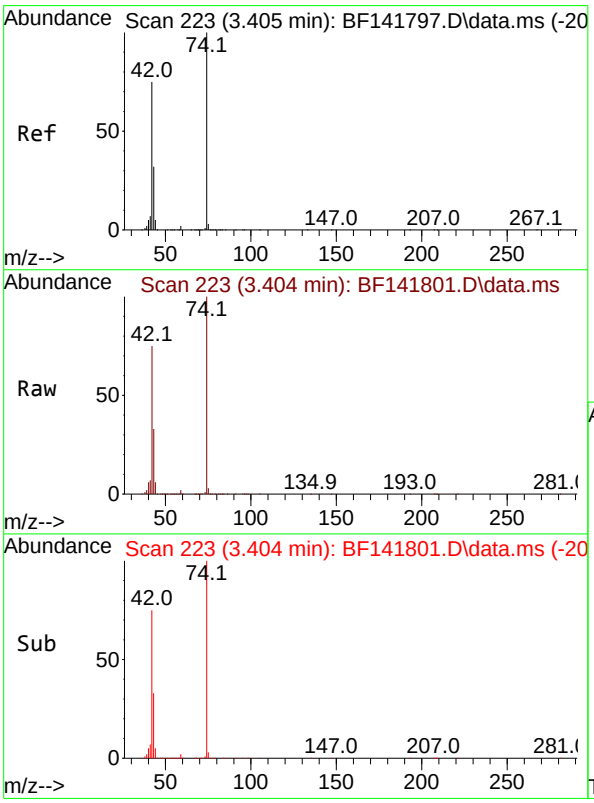

#3
Pyridine
Concen: 42.572 ng
RT: 3.446 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion: 79 Resp: 1012428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 74.3 | 59.0 | 88.4 |
| 51 | 36.5 | 29.0 | 43.4 |

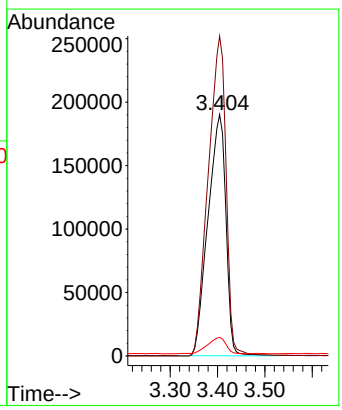


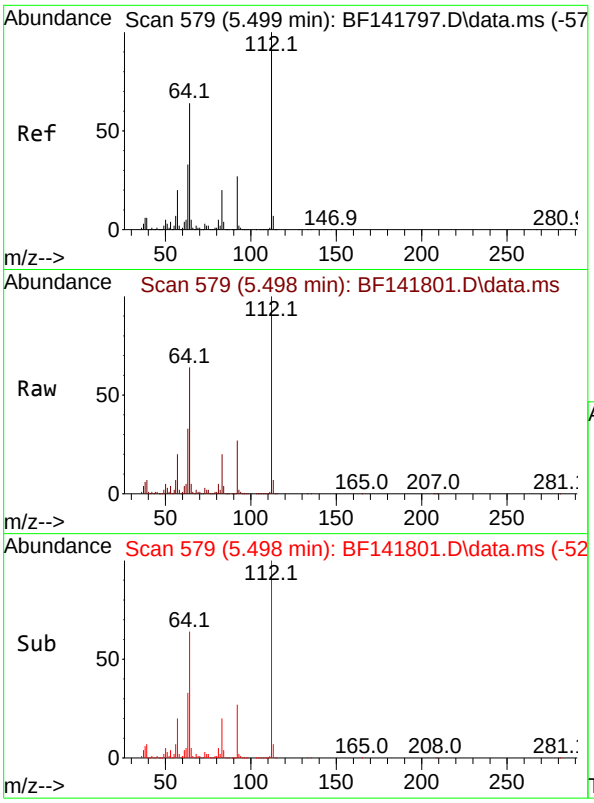




#4
n-Nitrosodimethylamine
Concen: 43.575 ng
RT: 3.404 min Scan# 223
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 42 Resp: 498621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 132.5 | 107.1 | 160.7 |
| 44 | 7.7 | 6.6 | 9.8 |



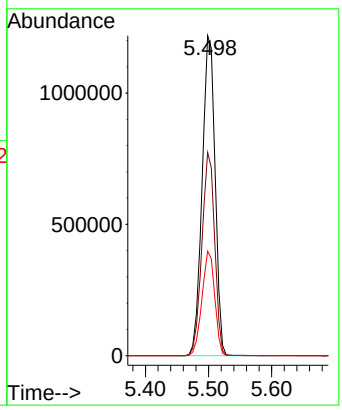


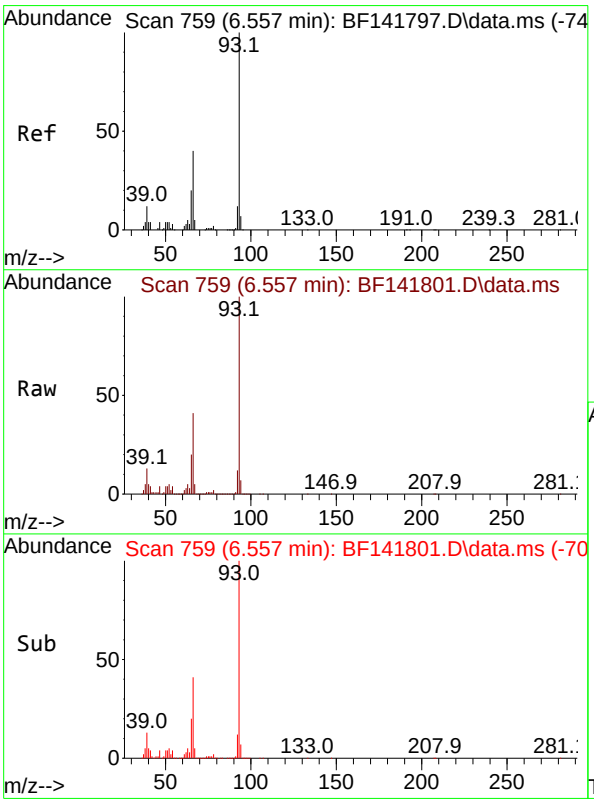

#5
2-Fluorophenol
Concen: 82.443 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:112 Resp: 1736670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 63.5 | 51.3 | 76.9 |
| 63 | 32.6 | 26.2 | 39.4 |

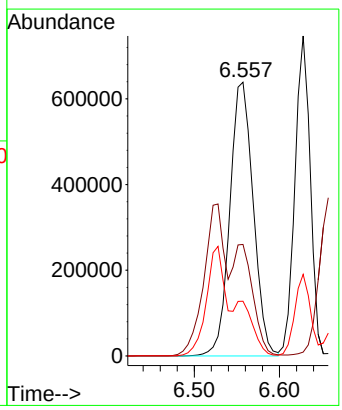


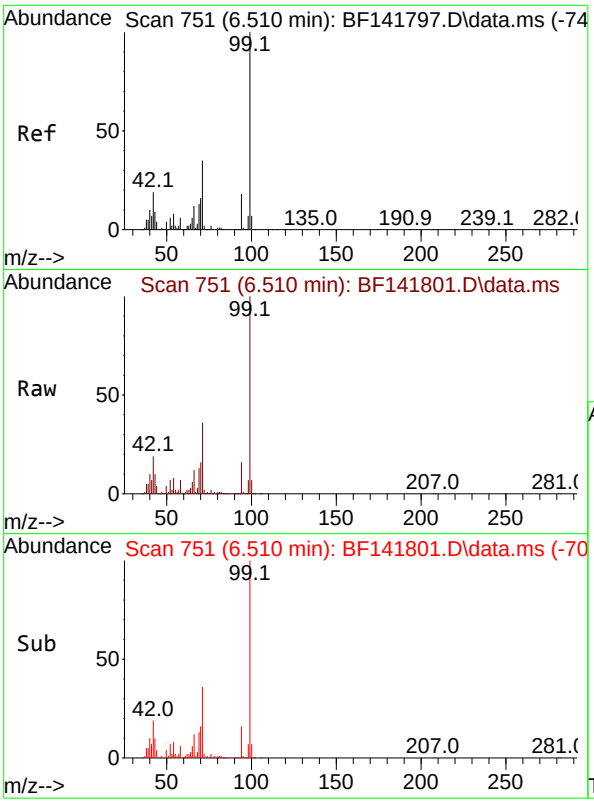

#6
Aniline
Concen: 42.857 ng
RT: 6.557 min Scan# 759
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 93 Resp: 1221626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 40.7 | 32.3 | 48.5 |
| 65 | 20.0 | 15.9 | 23.9 |



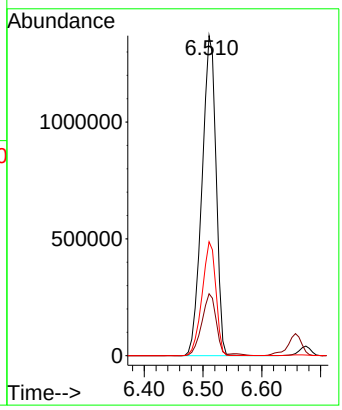
**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

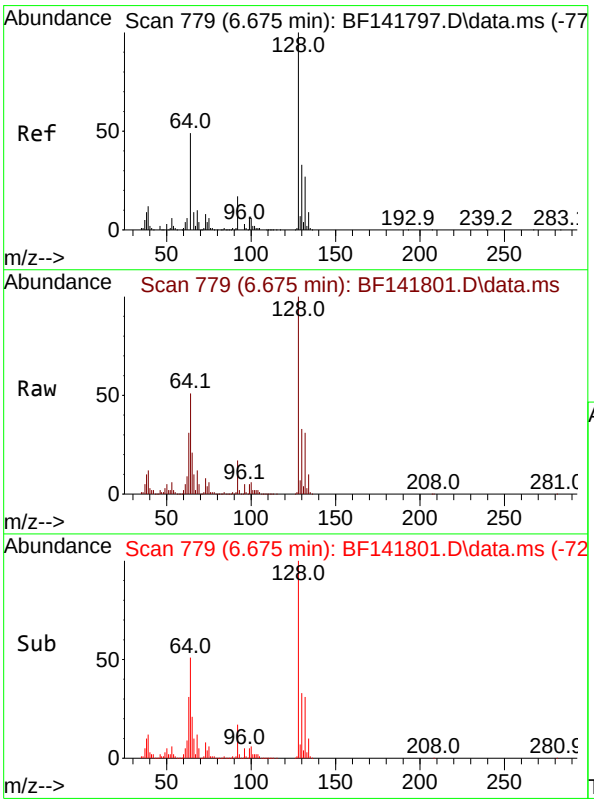



#7
Phenol-d6
Concen: 83.039 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 99 Resp: 2276751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.4 | 15.2 | 22.8 |
| 71 | 35.6 | 28.2 | 42.2 |

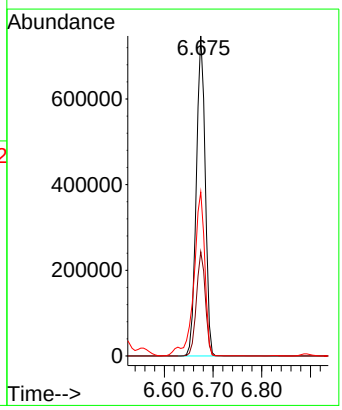


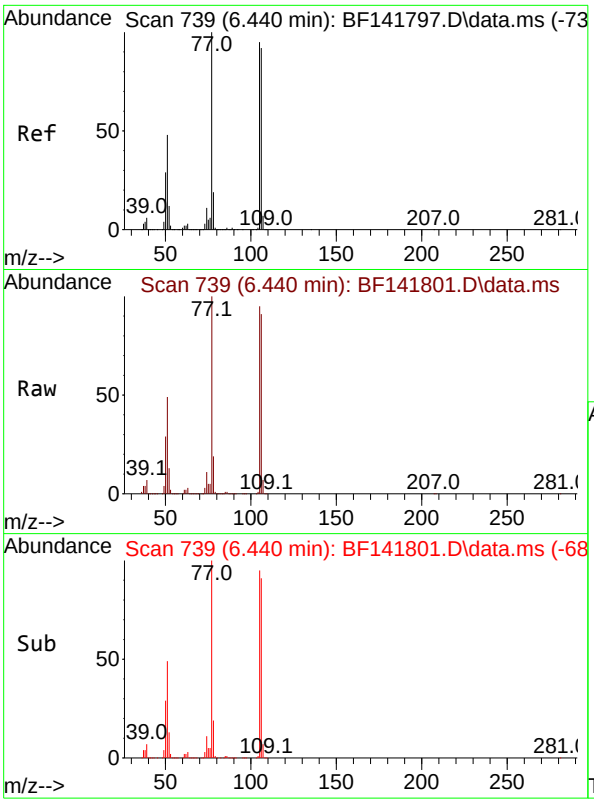




#8
2-Chlorophenol
Concen: 42.011 ng
RT: 6.675 min Scan# 779
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:128 Resp: 957321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.5 | 12.6 | 52.6 |
| 64 | 51.2 | 31.1 | 71.1 |



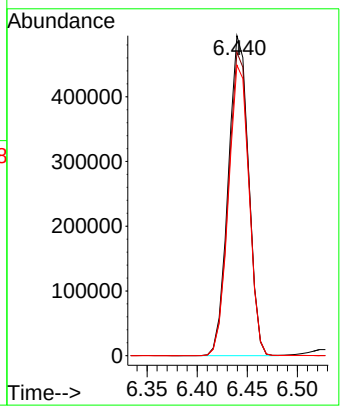


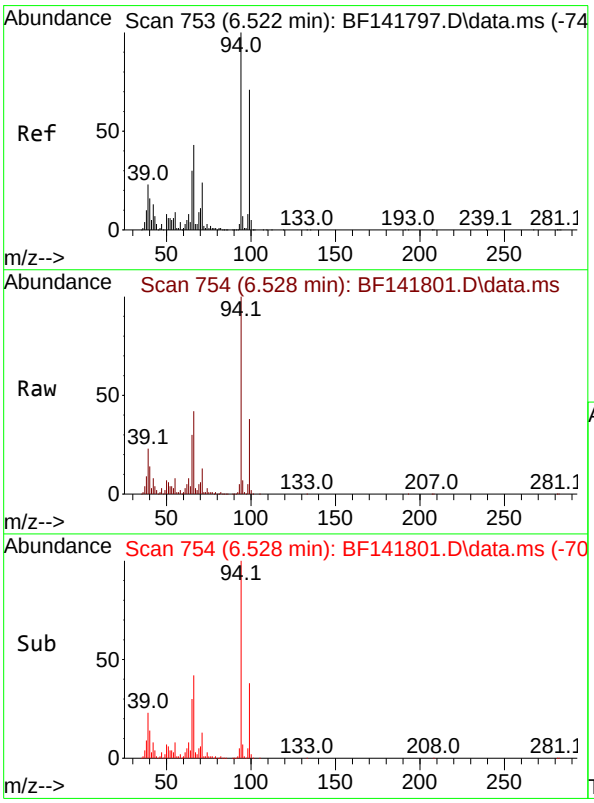

#9
Benzaldehyde
Concen: 43.684 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion: 77 Resp: 696694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 94.8 | 75.3 | 115.3 |
| 106 | 90.8 | 72.3 | 112.3 |

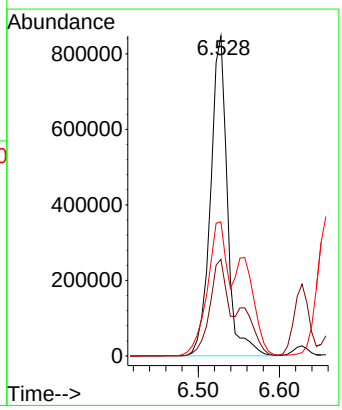


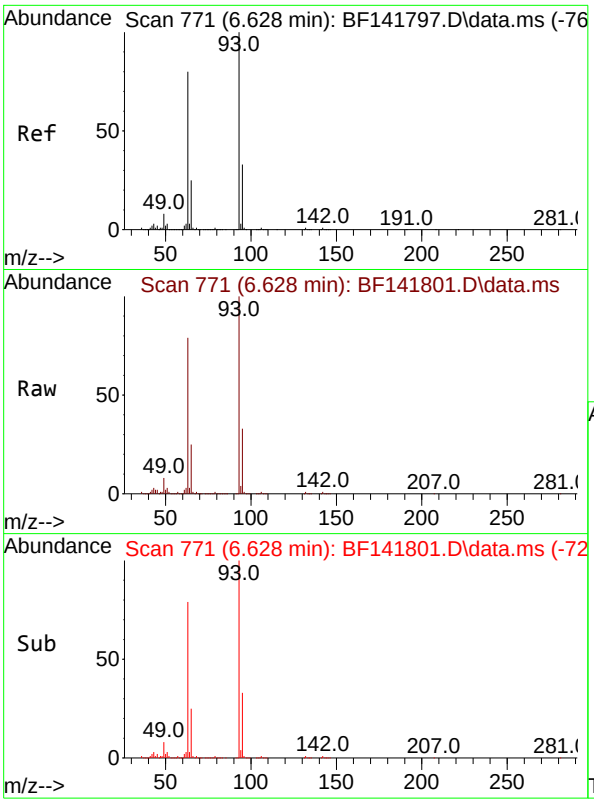




#10
Phenol
Concen: 41.614 ng
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 94 Resp: 1219216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 30.2 | 10.2 | 50.2 |
| 66 | 41.9 | 23.2 | 63.2 |



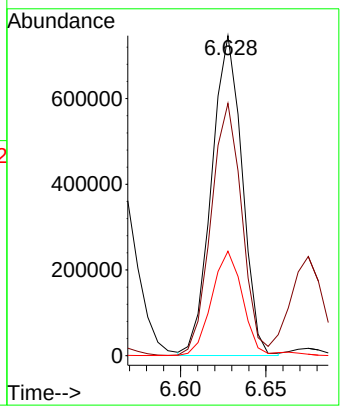


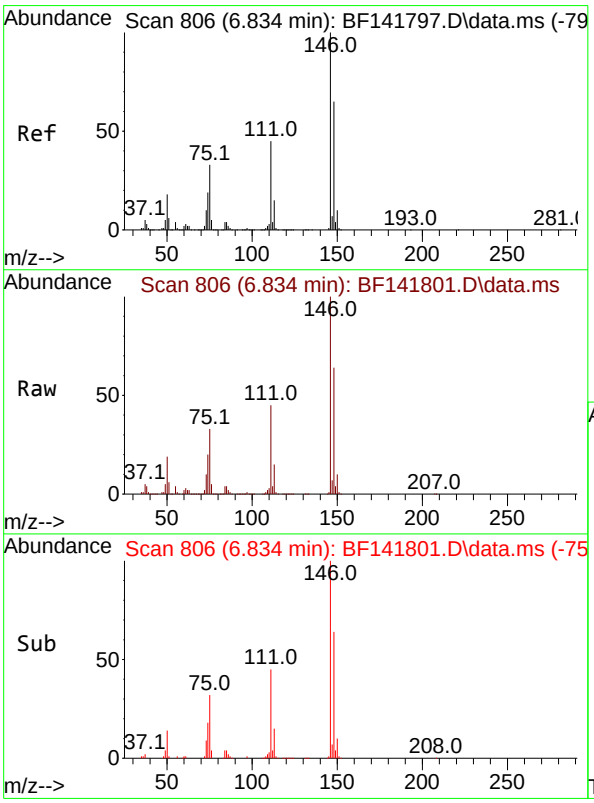

#11
bis(2-Chloroethyl)ether
Concen: 41.763 ng
RT: 6.628 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion: 93 Resp: 932690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 78.9 | 59.3 | 99.3 |
| 95 | 32.6 | 13.2 | 53.2 |

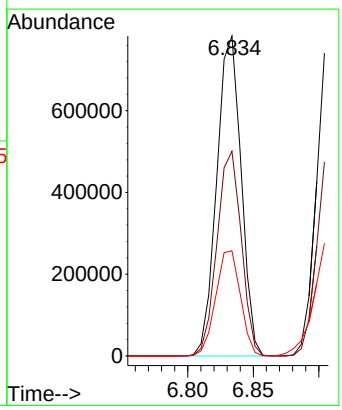


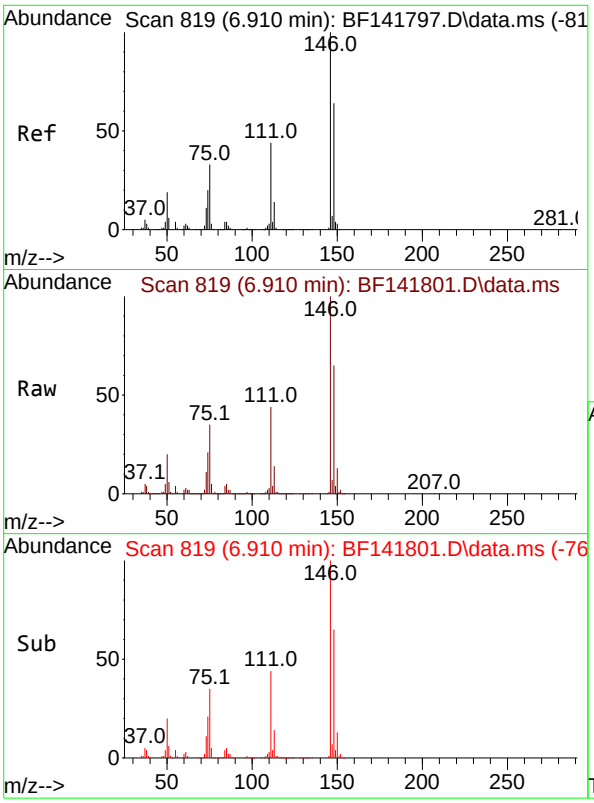




#12
1,3-Dichlorobenzene
Concen: 41.498 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:146 Resp: 1012705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.9 | 51.8 | 77.6 |
| 75 | 32.9 | 26.2 | 39.4 |



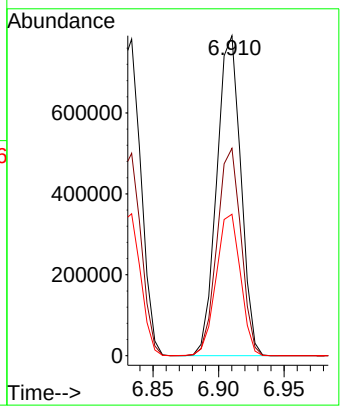


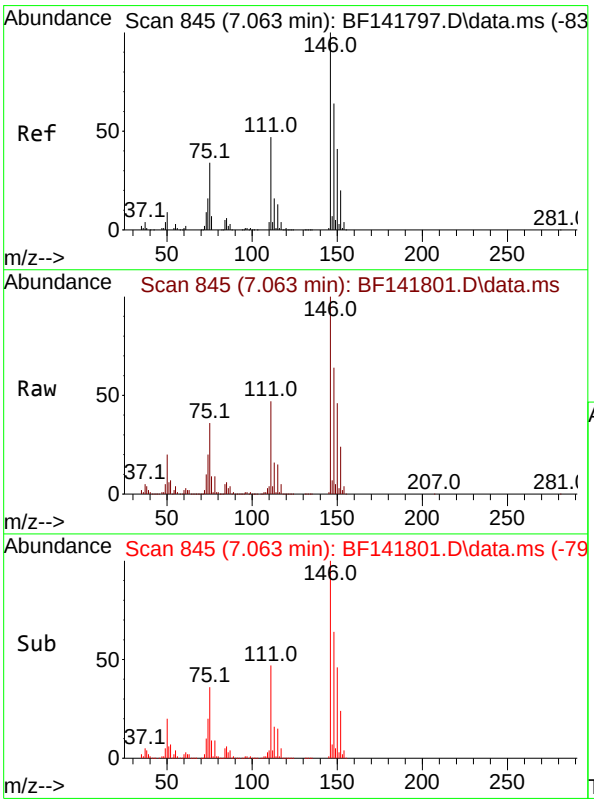

#13
1,4-Dichlorobenzene
Concen: 41.066 ng
RT: 6.910 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:146 Resp: 1009763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.8 | 51.4 | 77.2 |
| 111 | 44.2 | 35.5 | 53.3 |

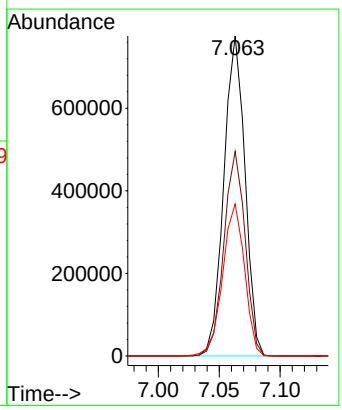


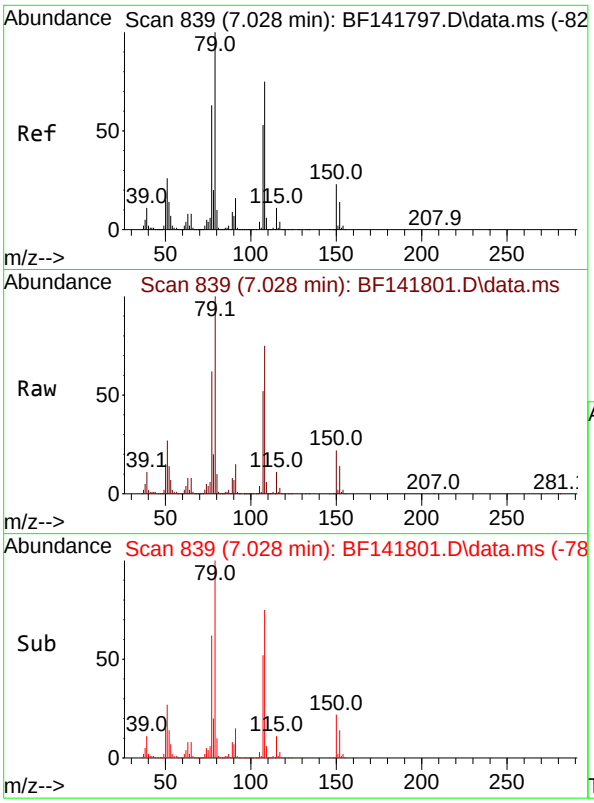




#14
1,2-Dichlorobenzene
Concen: 40.857 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:146 Resp: 938112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.9 | 51.2 | 76.8 |
| 111 | 47.5 | 37.8 | 56.6 |



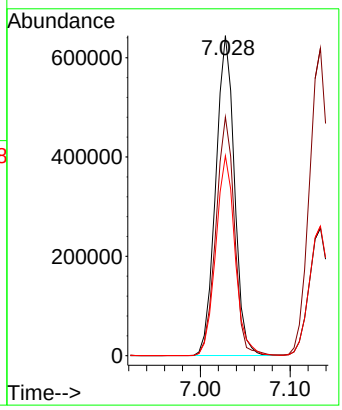


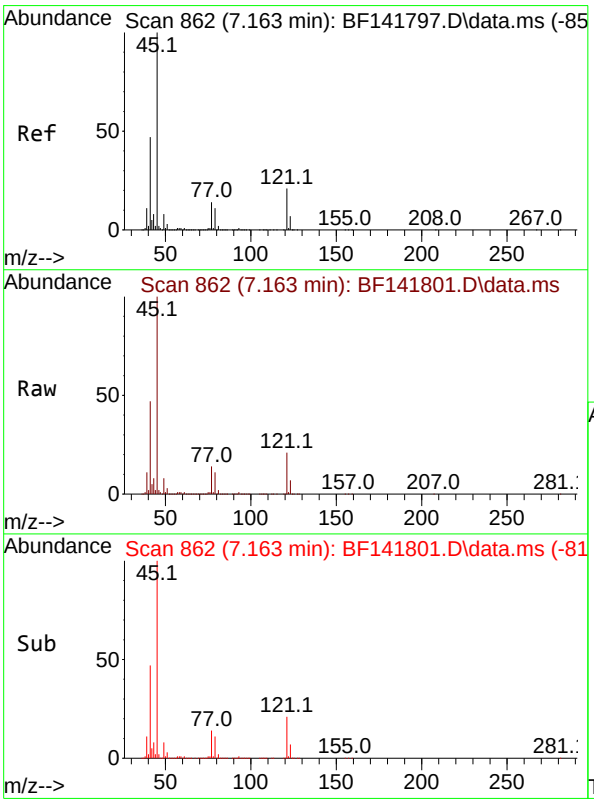

#15
Benzyl Alcohol
Concen: 42.564 ng
RT: 7.028 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion: 79 Resp: 932679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 74.6 | 60.2 | 90.2 |
| 77 | 62.5 | 50.2 | 75.2 |

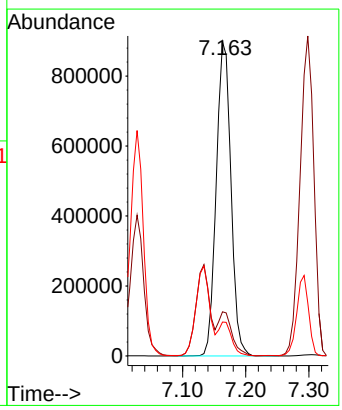


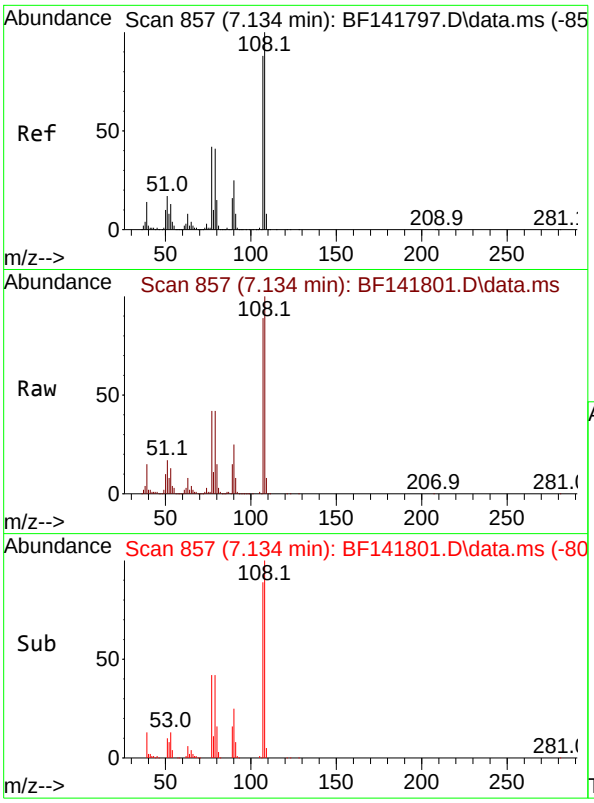




#16
2,2'-oxybis(1-Chloropropane)
Concen: 42.679 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 45 Resp: 1447535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 14.1 | 0.0 | 34.4 |
| 79 | 10.8 | 0.0 | 30.9 |



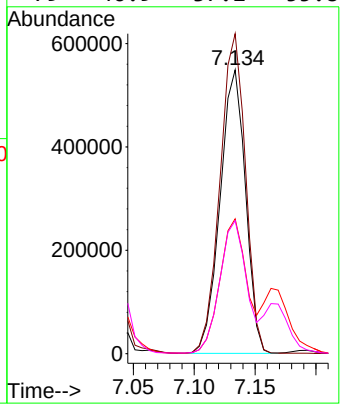


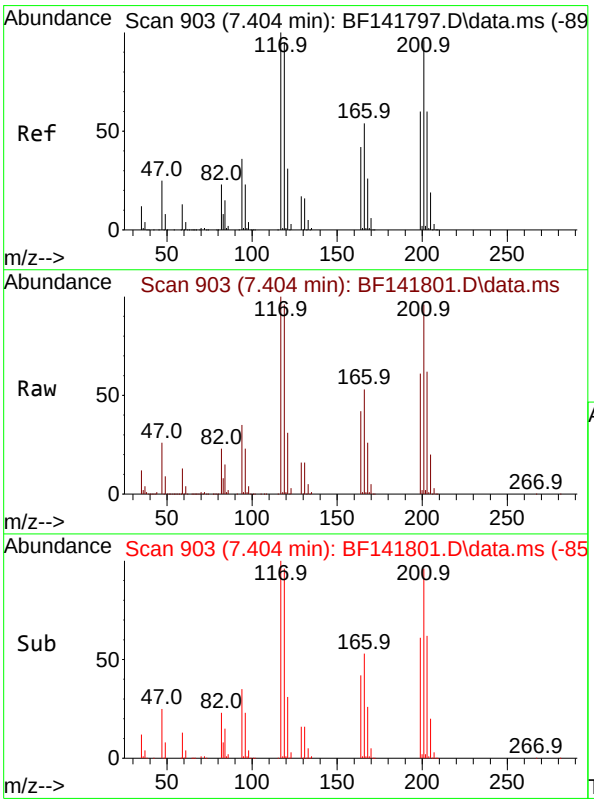

#17
2-Methylphenol
Concen: 42.365 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:107 Resp: 796850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 112.8 | 90.6 | 135.8 |
| 77 | 47.6 | 37.7 | 56.5 |
| 79 | 46.9 | 37.2 | 55.8 |

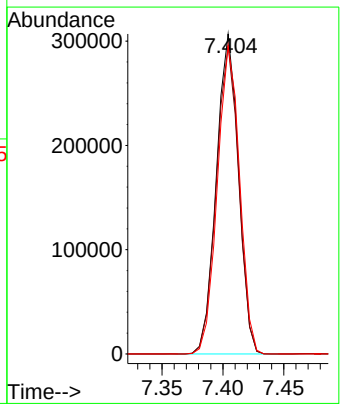


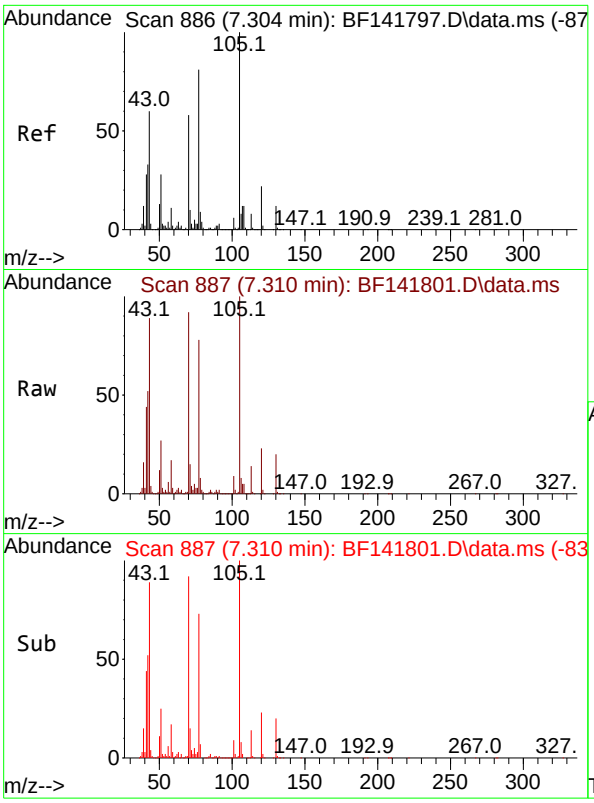




#18
Hexachloroethane
Concen: 42.366 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:117 Resp: 389901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.4 | 75.8 | 113.8 |
| 201 | 96.2 | 76.7 | 115.1 |



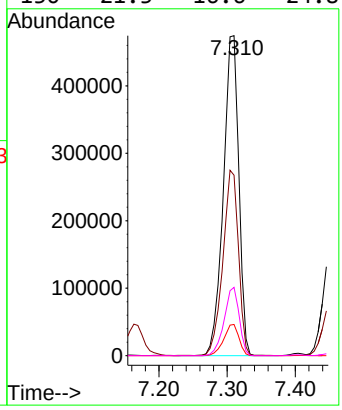


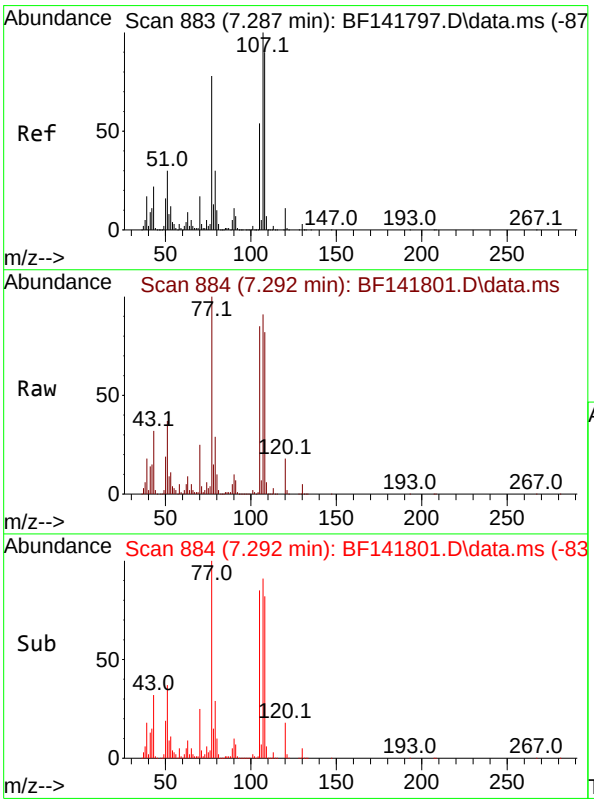

#19
n-Nitroso-di-n-propylamine
Concen: 41.525 ng
RT: 7.310 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion: 70 Resp: 748423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 56.4 | 45.4 | 68.0 |
| 101 | 9.8 | 7.8 | 11.8 |
| 130 | 21.3 | 16.6 | 24.8 |

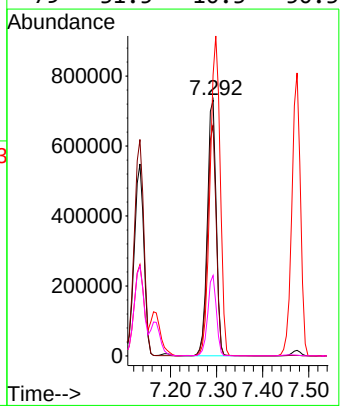


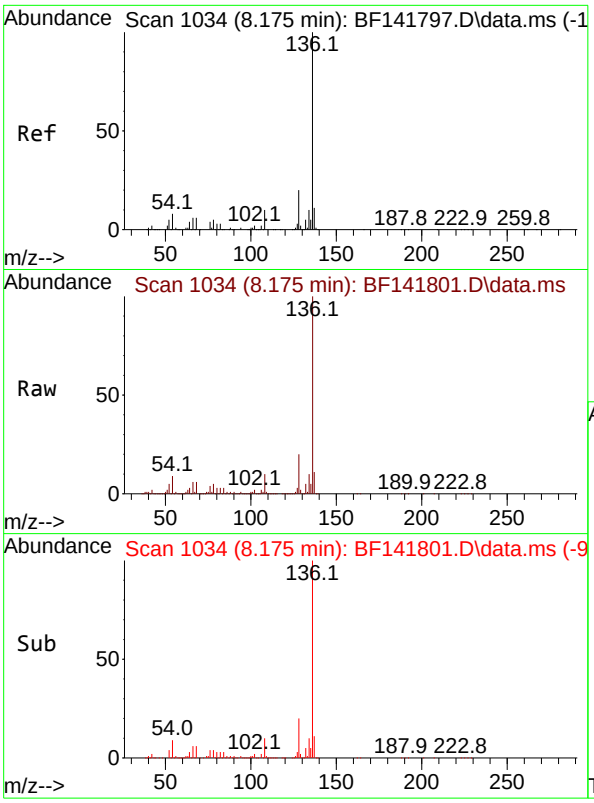




#20
3+4-Methylphenols
Concen: 41.840 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:107 Resp: 979968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 90.2 | 69.7 | 109.7 |
| 77 | 109.8 | 58.3 | 98.3# |
| 79 | 31.5 | 10.3 | 50.3 |



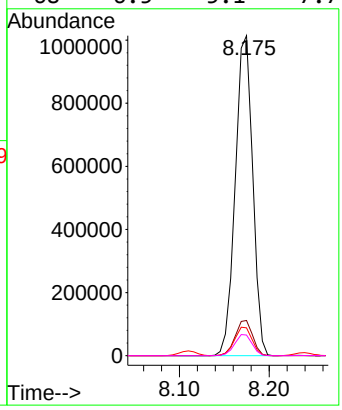


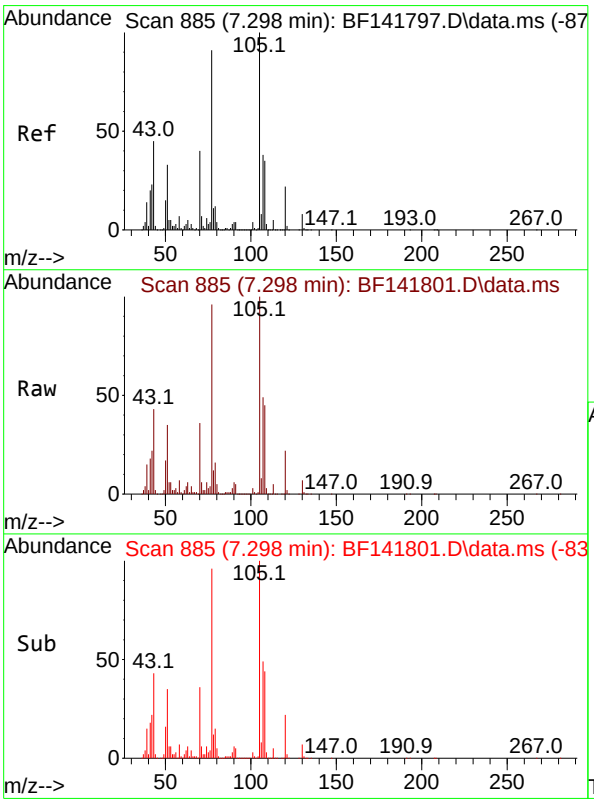

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:136 Resp: 1367272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.9 | 13.3 |
| 54 | 8.7 | 6.9 | 10.3 |
| 68 | 6.5 | 5.1 | 7.7 |

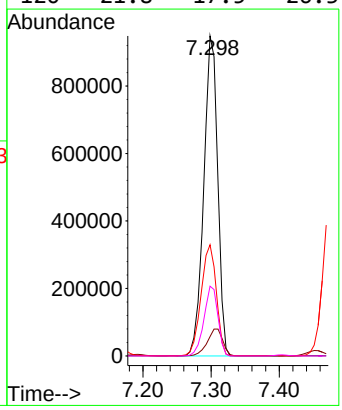


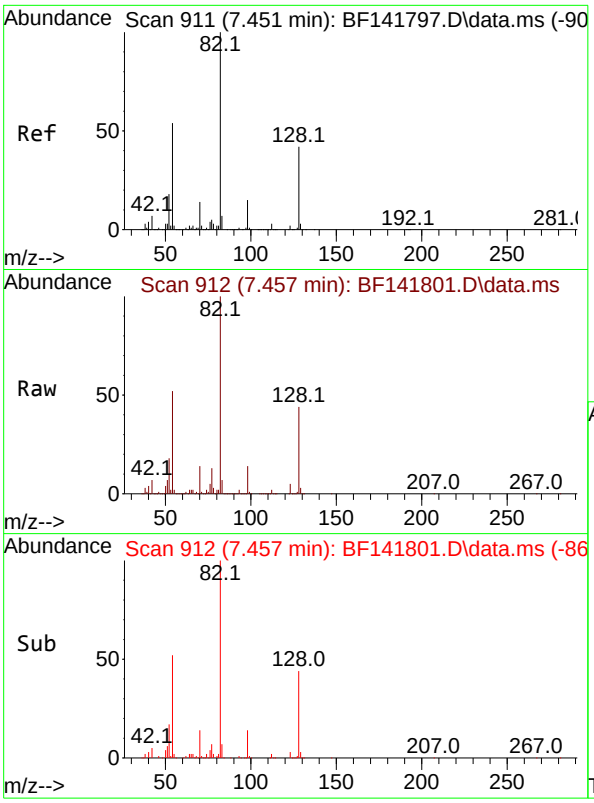




#22
Acetophenone
Concen: 40.417 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:105 Resp: 1345874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 6.1 | 5.4 | 8.0 |
| 51 | 34.8 | 26.1 | 39.1 |
| 120 | 21.8 | 17.5 | 26.3 |



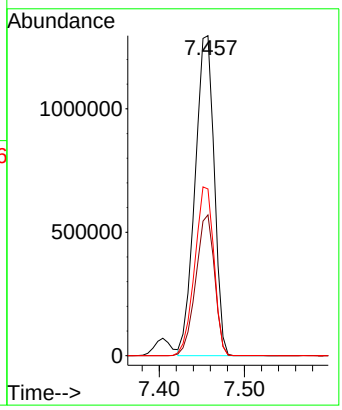


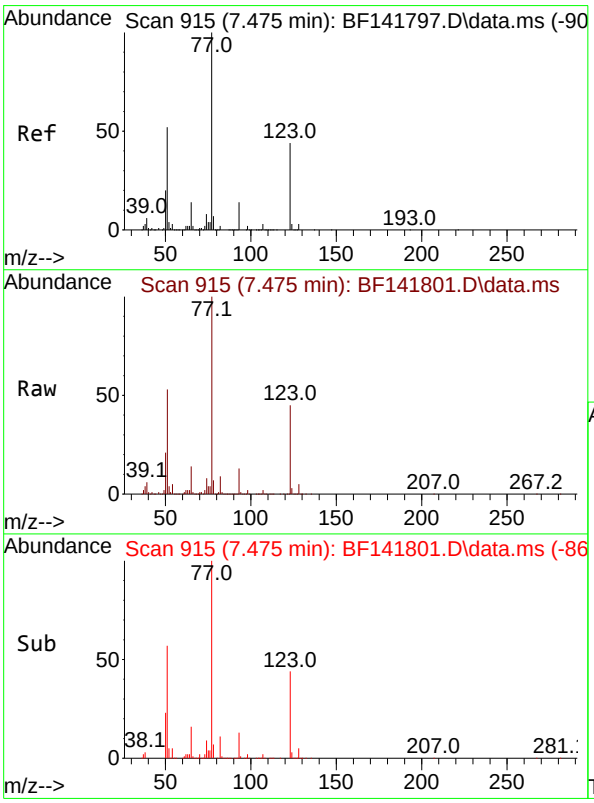

#23
Nitrobenzene-d5
Concen: 94.707 ng
RT: 7.457 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion: 82 Resp: 2025812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.0 | 33.5 | 50.3 |
| 54 | 52.1 | 42.7 | 64.1 |

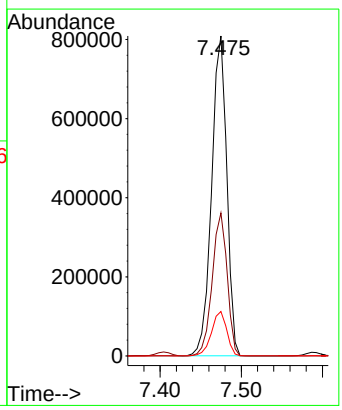


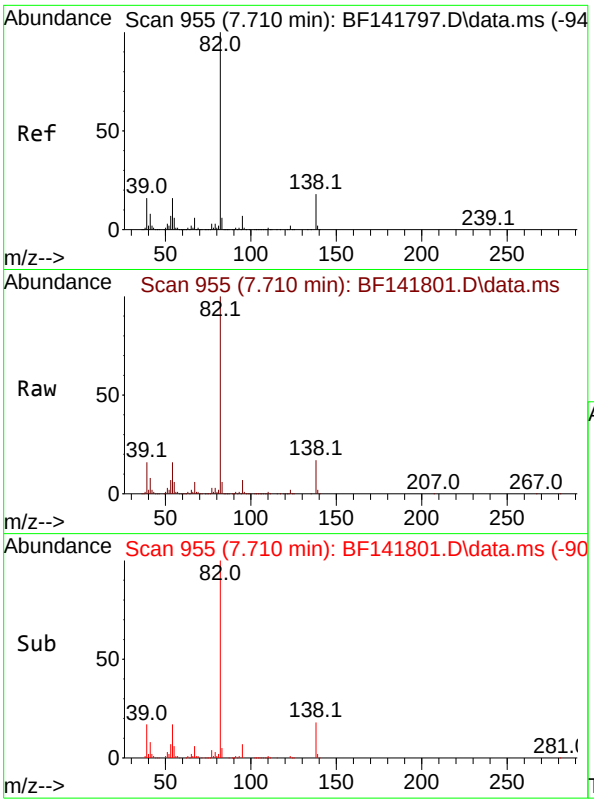




#24
Nitrobenzene
Concen: 45.751 ng
RT: 7.475 min Scan# 915
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 77 Resp: 1047974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 44.7 | 35.8 | 53.8 |
| 65 | 13.9 | 11.2 | 16.8 |



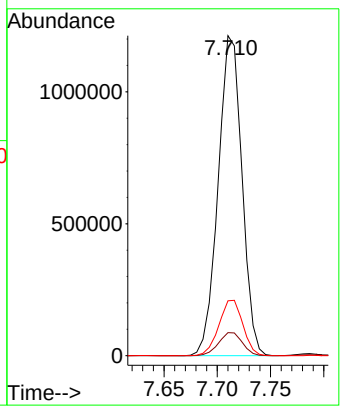


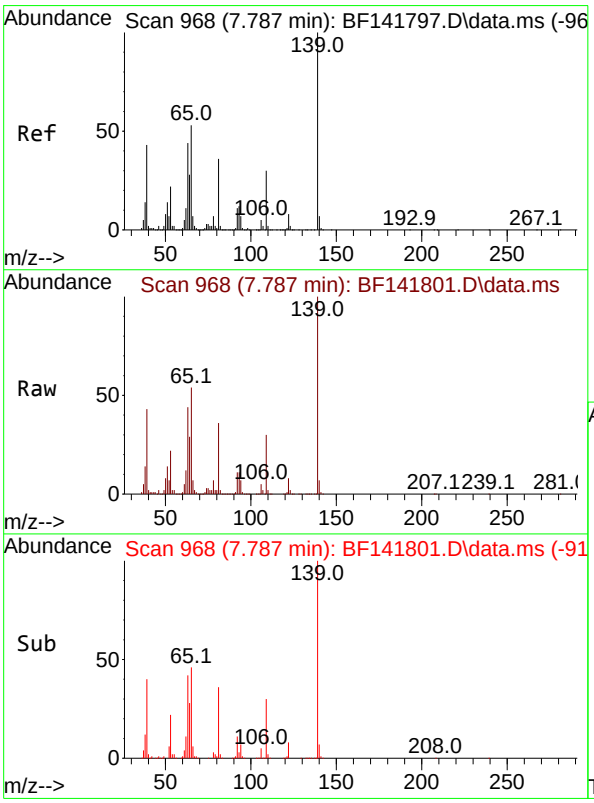

#25
Isophorone
Concen: 40.944 ng
RT: 7.710 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion: 82 Resp: 1881562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.2 | 5.8 | 8.8 |
| 138 | 17.2 | 14.0 | 21.0 |

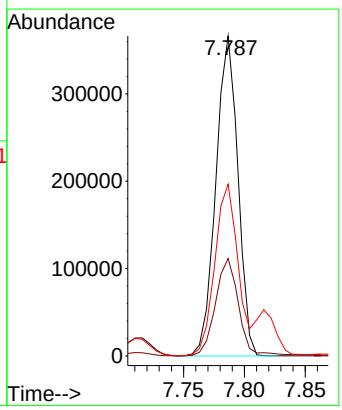


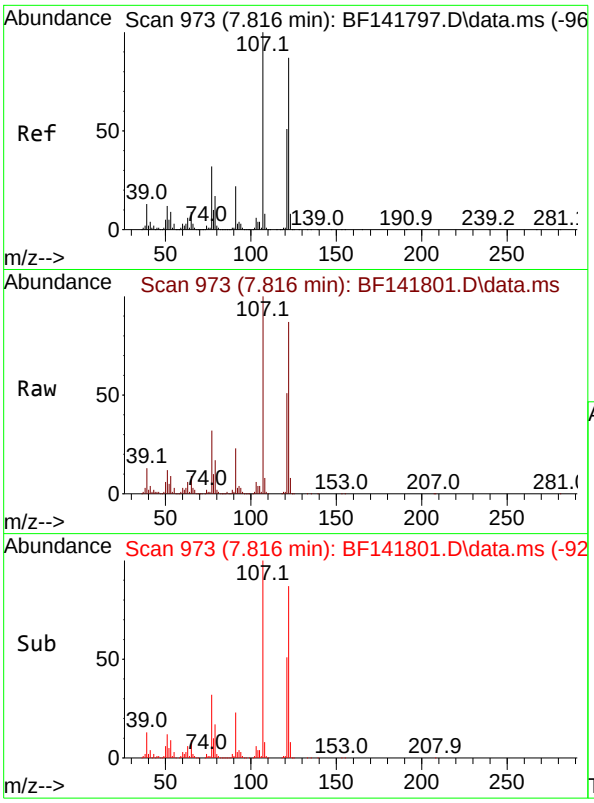




#26
2-Nitrophenol
Concen: 45.447 ng
RT: 7.787 min Scan# 968
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:139 Resp: 462297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 30.5 | 24.1 | 36.1 |
| 65 | 53.7 | 42.3 | 63.5 |



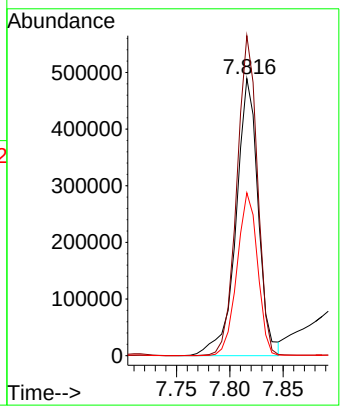


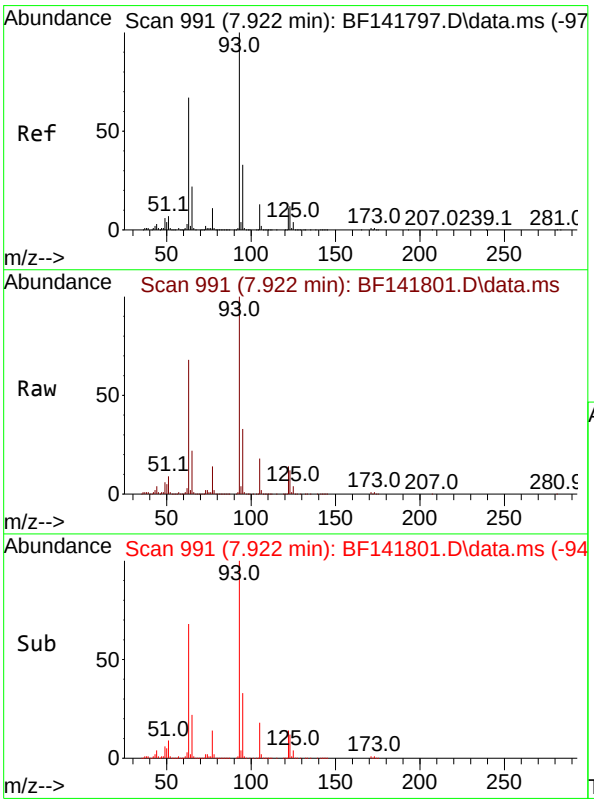

#27
2,4-Dimethylphenol
Concen: 41.931 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:122 Resp: 708317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 115.5 | 92.5 | 138.7 |
| 121 | 58.8 | 47.1 | 70.7 |

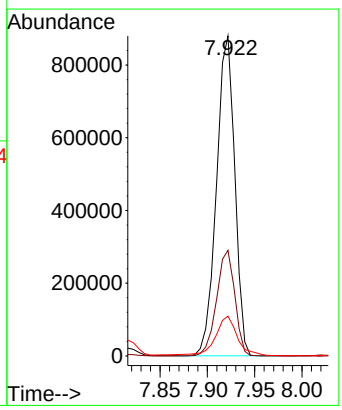


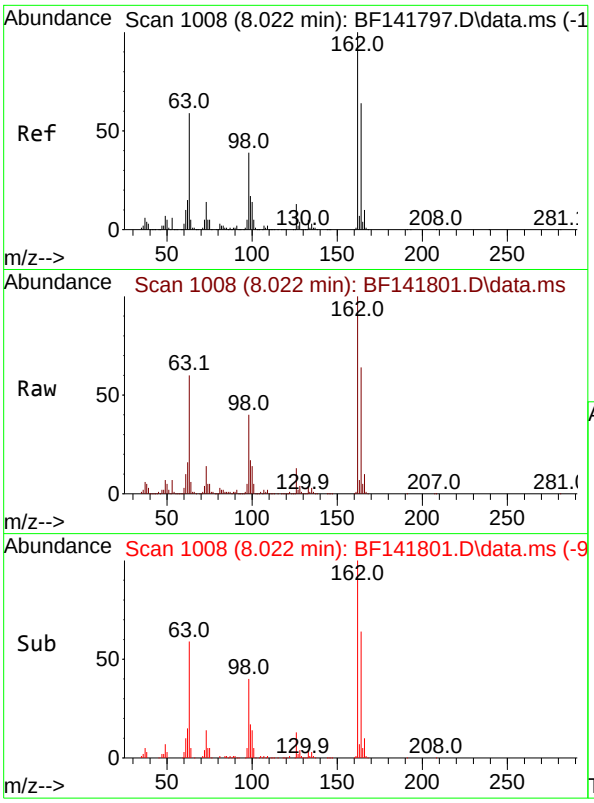




#28
bis(2-Chloroethoxy)methane
Concen: 40.357 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 93 Resp: 1183035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 33.0 | 26.5 | 39.7 |
| 123 | 12.4 | 10.0 | 15.0 |



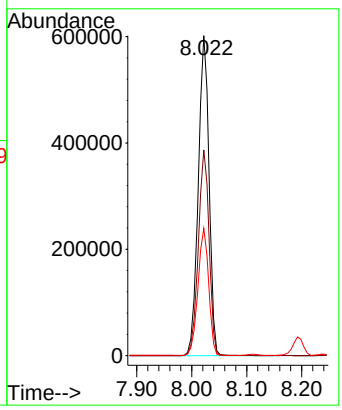


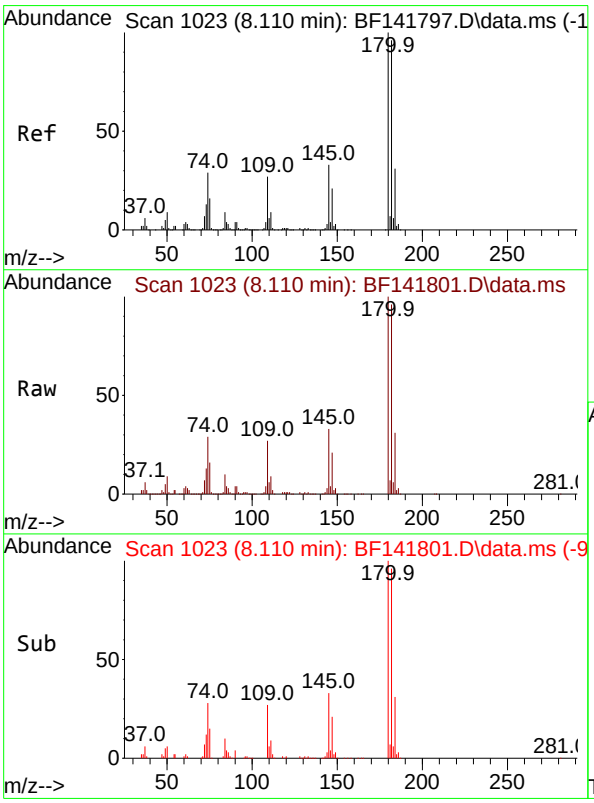

#29
2,4-Dichlorophenol
Concen: 42.157 ng
RT: 8.022 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:162 Resp: 821536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.3 | 44.3 | 84.3 |
| 98 | 39.8 | 19.6 | 59.6 |

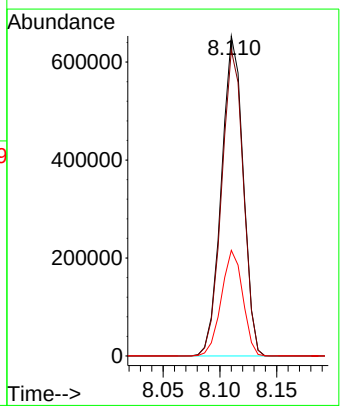


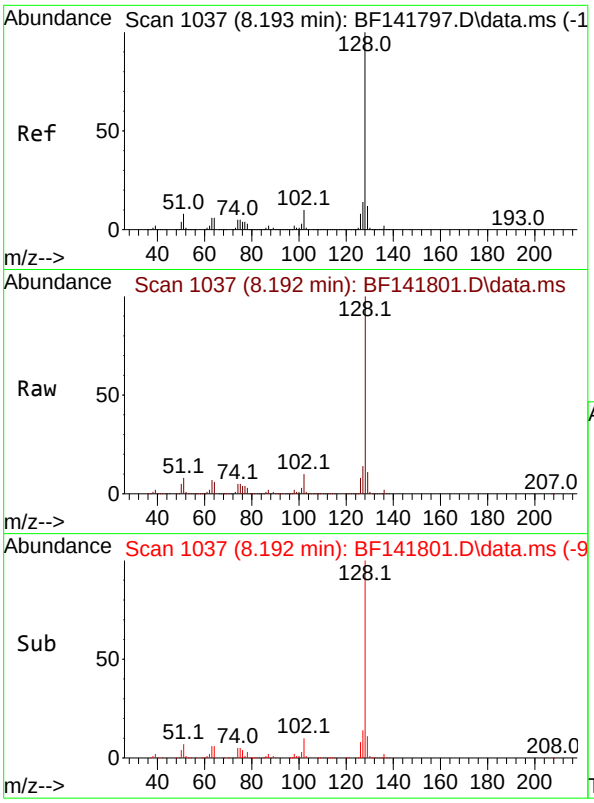




#30
1,2,4-Trichlorobenzene
Concen: 40.757 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:180 Resp: 870339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 76.8 | 115.2 |
| 145 | 33.0 | 26.4 | 39.6 |



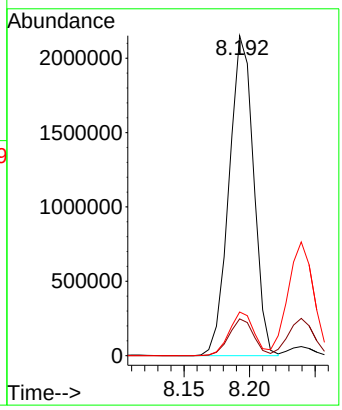


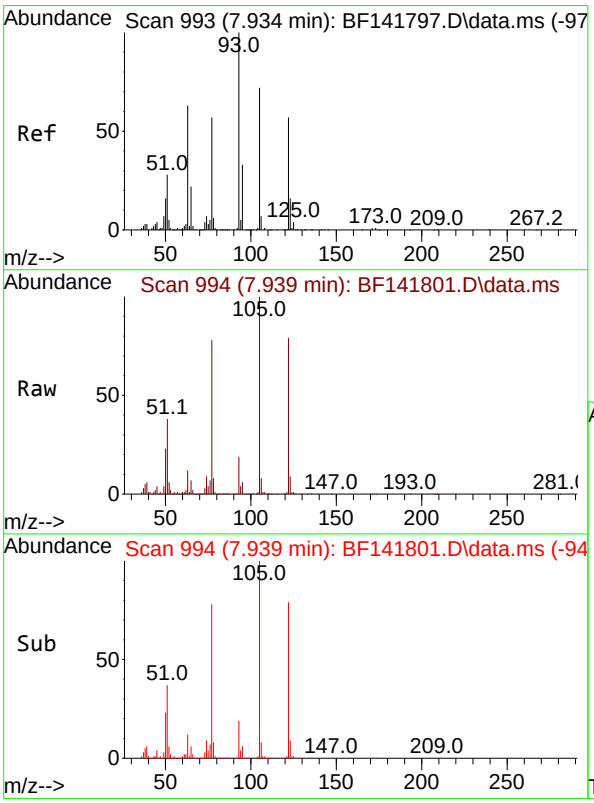

#31
Naphthalene
Concen: 39.854 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:128 Resp: 2800645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.5 | 9.2 | 13.8 |
| 127 | 13.7 | 11.0 | 16.4 |

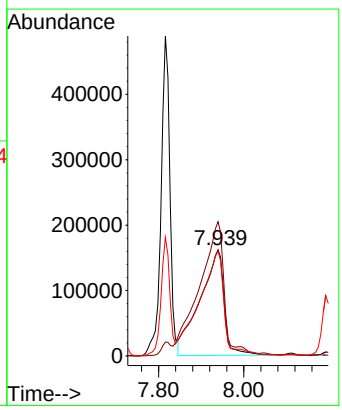


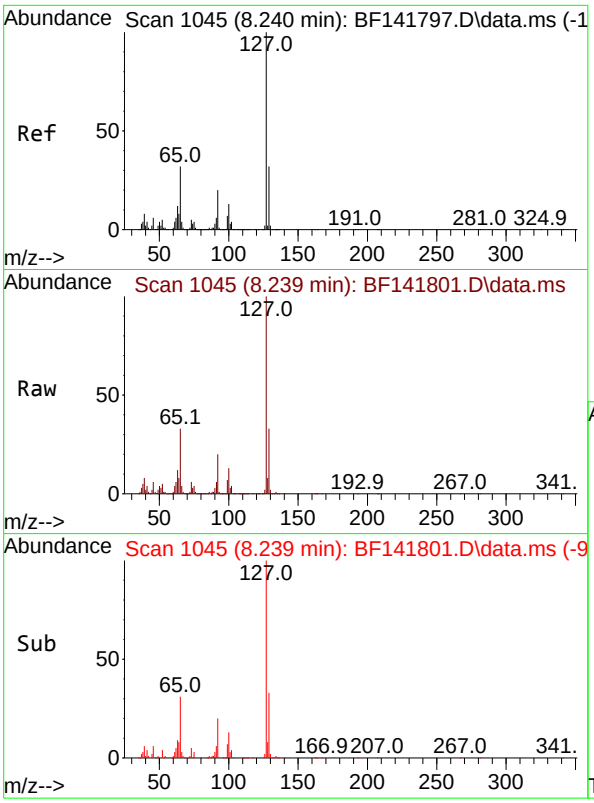




#32
Benzoic acid
Concen: 45.545 ng
RT: 7.939 min Scan# 994
Delta R.T. 0.005 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:122 Resp: 635541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 126.6 | 105.8 | 145.8 |
| 77 | 98.8 | 79.9 | 119.9 |



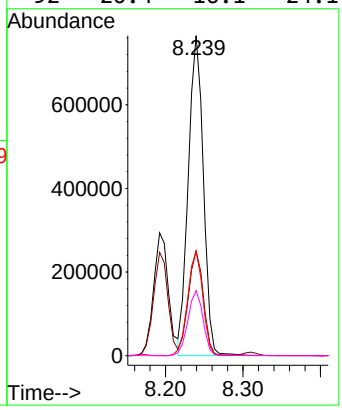


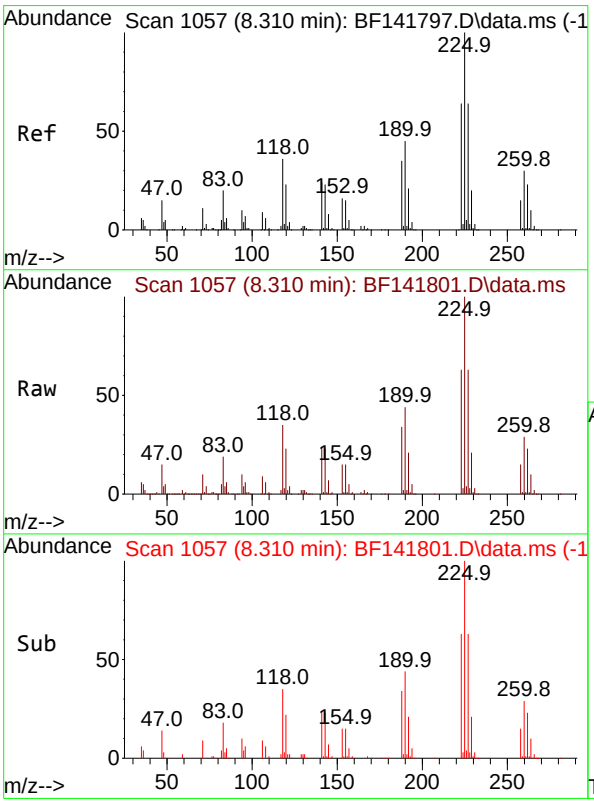

#33
4-Chloroaniline
Concen: 40.096 ng
RT: 8.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:127 Resp: 1033113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.7 | 26.1 | 39.1 |
| 65 | 32.6 | 25.7 | 38.5 |
| 92 | 20.4 | 16.1 | 24.1 |

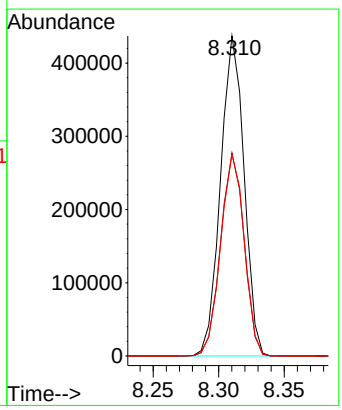


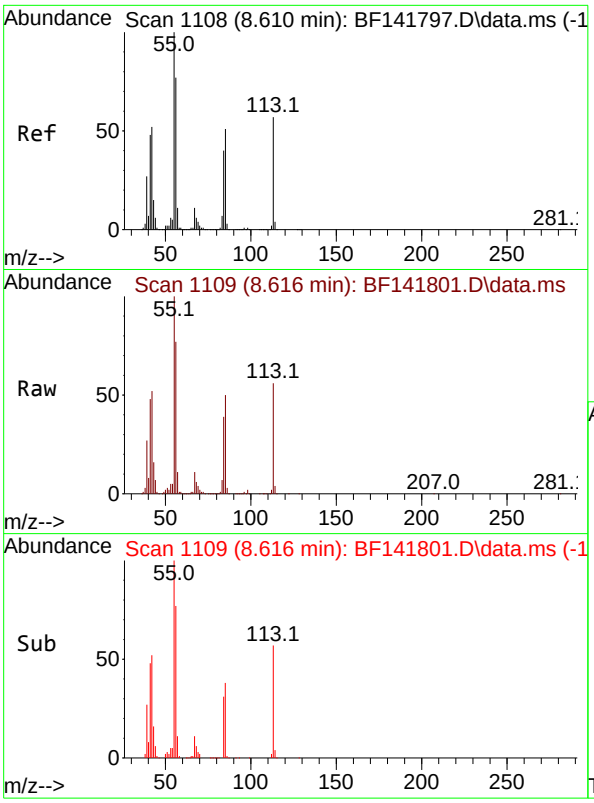




#34
Hexachlorobutadiene
Concen: 41.042 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:225 Resp: 544620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.4 | 51.4 | 77.2 |
| 227 | 63.0 | 51.6 | 77.4 |



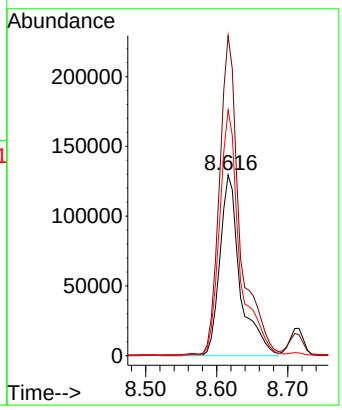


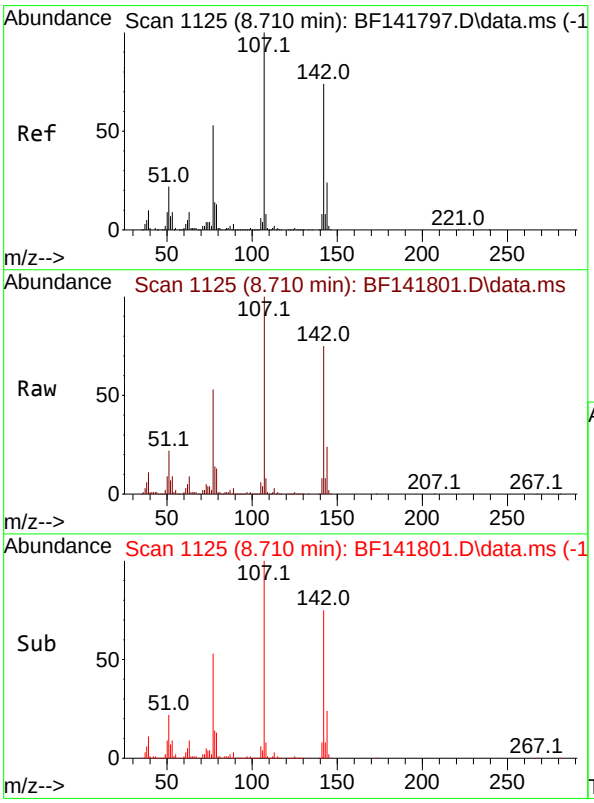

#35
Caprolactam
Concen: 42.737 ng
RT: 8.616 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:113 Resp: 256209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 177.0 | 155.6 | 195.6 |
| 56 | 135.9 | 114.6 | 154.6 |

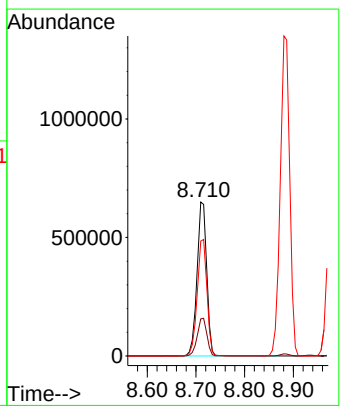


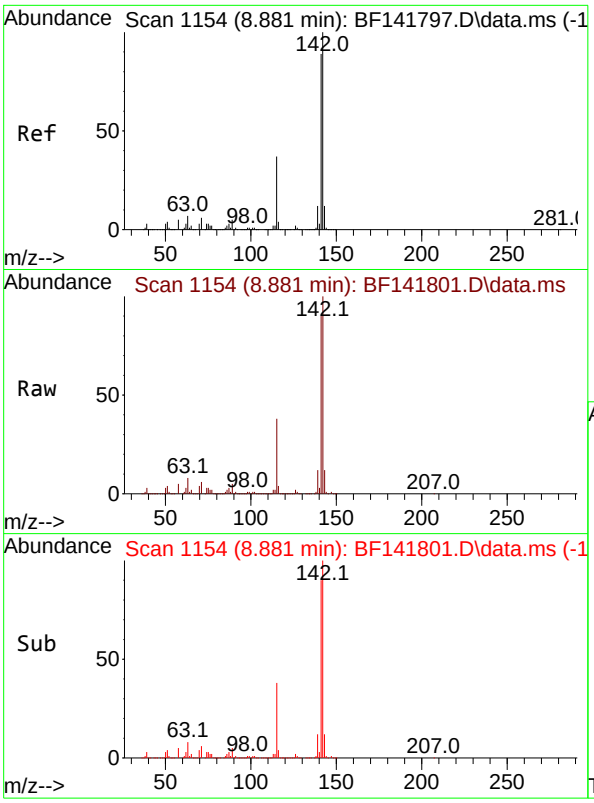




#36
4-Chloro-3-methylphenol
Concen: 41.844 ng
RT: 8.710 min Scan# 1125
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:107 Resp: 905842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 24.1 | 19.4 | 29.0 |
| 142 | 74.6 | 59.4 | 89.0 |



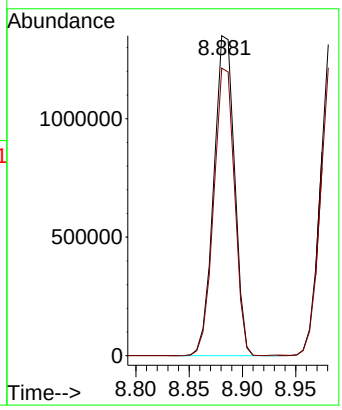


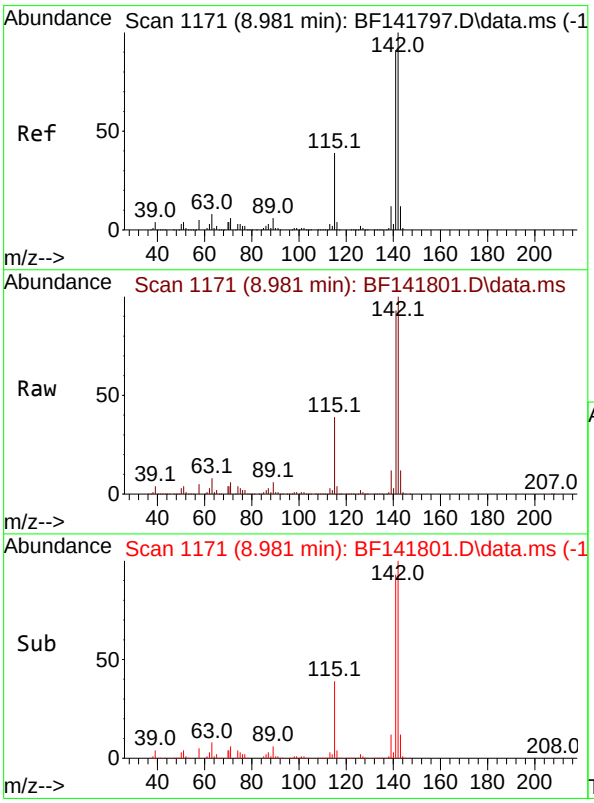

#37
2-Methylnaphthalene
Concen: 39.710 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:142 Resp: 1830313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.9 | 71.1 | 106.7 |

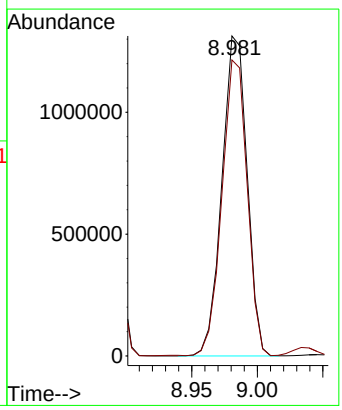


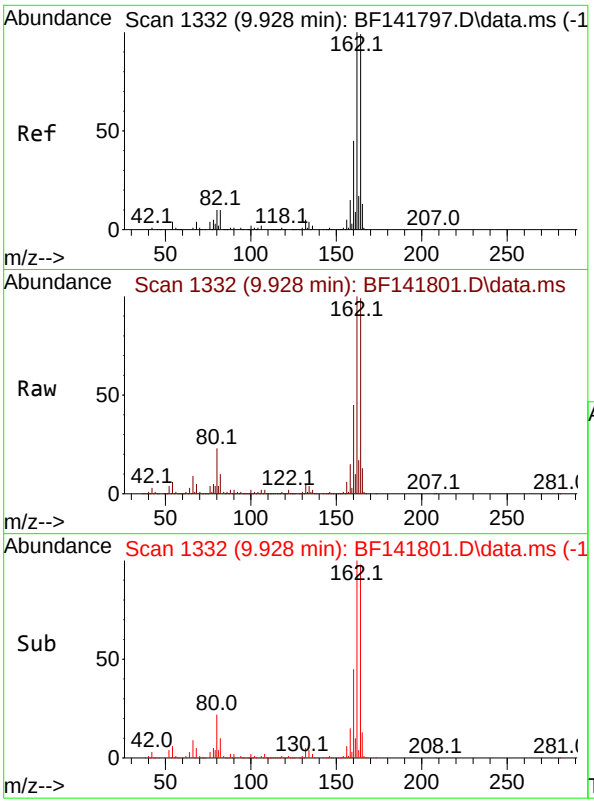




#38
1-Methylnaphthalene
Concen: 39.635 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:142 Resp: 1752937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.5 | 73.1 | 109.7 |



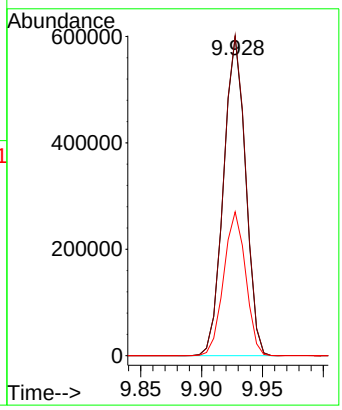


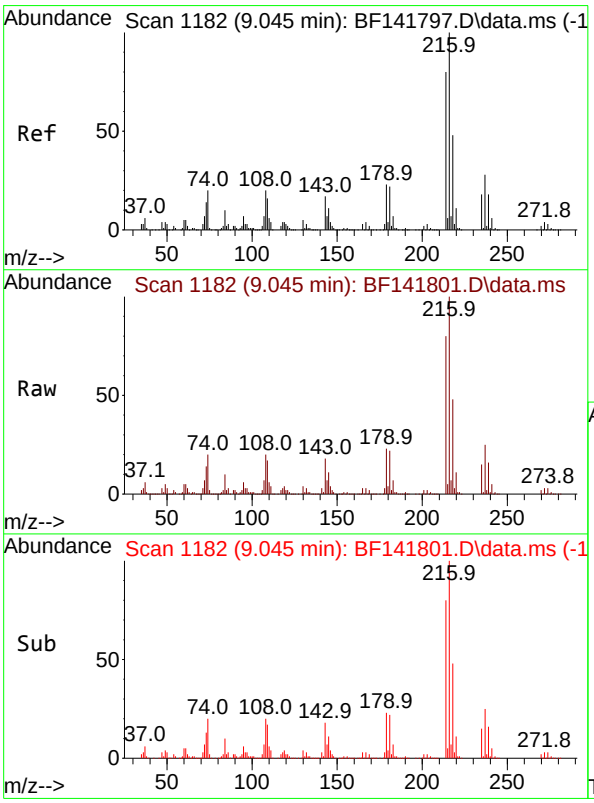

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:164 Resp: 753741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 100.6 | 80.6 | 120.8 |
| 160 | 45.2 | 36.3 | 54.5 |

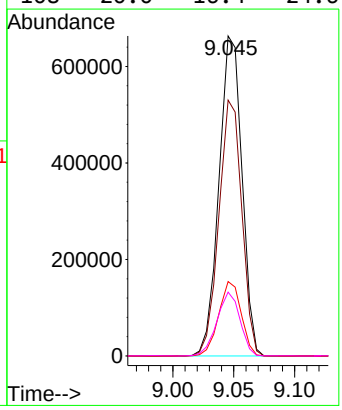


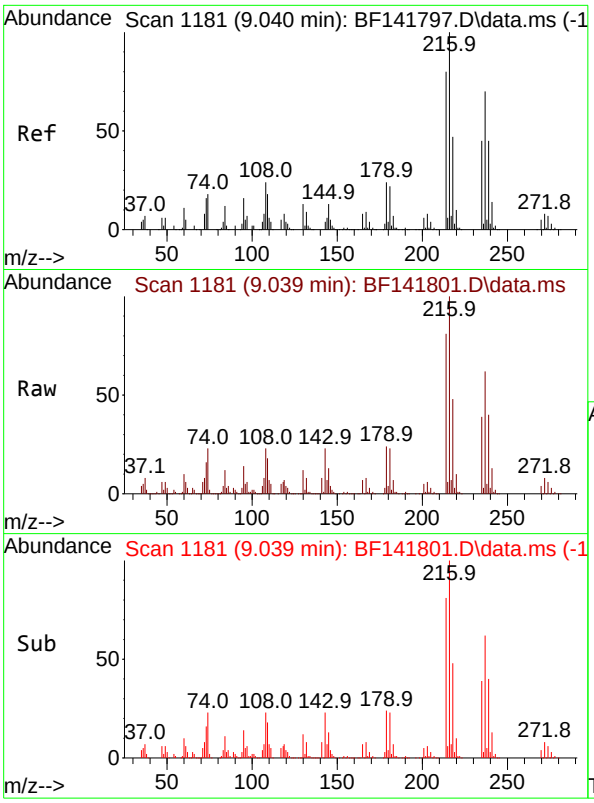




#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.086 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:216 Resp: 872629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 79.7 | 63.5 | 95.3 |
| 179 | 22.8 | 18.1 | 27.1 |
| 108 | 20.0 | 16.4 | 24.6 |



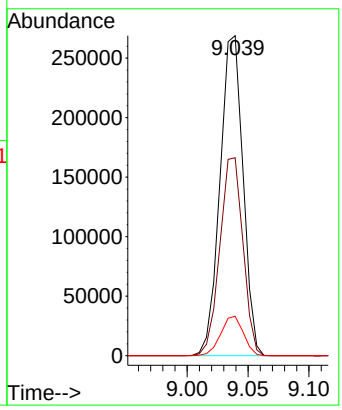


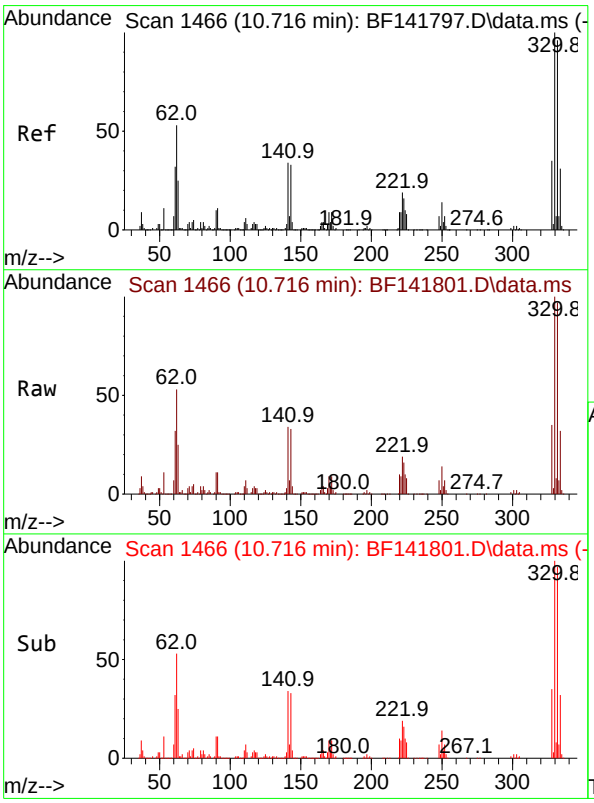

#41
Hexachlorocyclopentadiene
Concen: 38.975 ng
RT: 9.039 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:237 Resp: 354082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 61.8 | 43.3 | 83.3 |
| 272 | 12.3 | 0.0 | 31.9 |

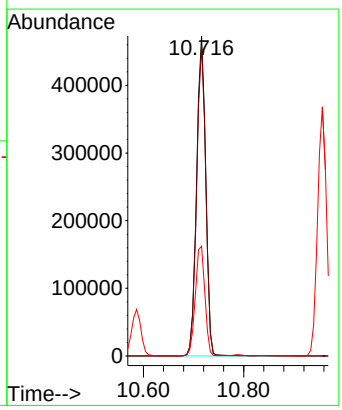


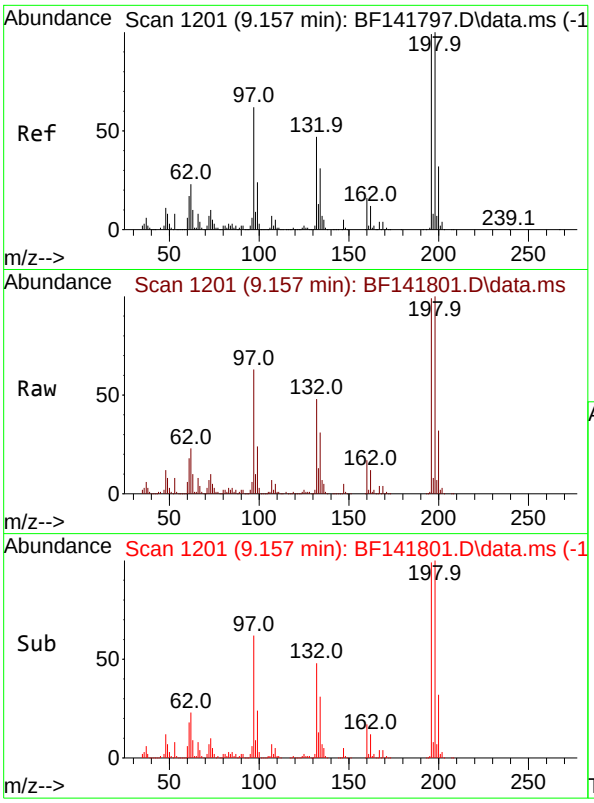




#42
2,4,6-Tribromophenol
Concen: 84.321 ng
RT: 10.716 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:330 Resp: 596677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.9 | 76.6 | 115.0 |
| 141 | 36.1 | 29.0 | 43.4 |



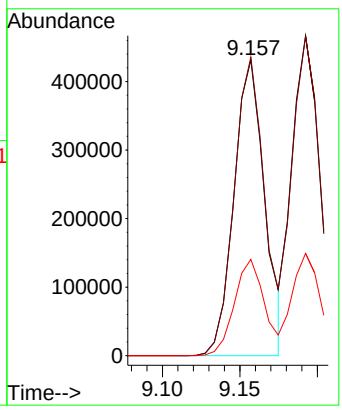


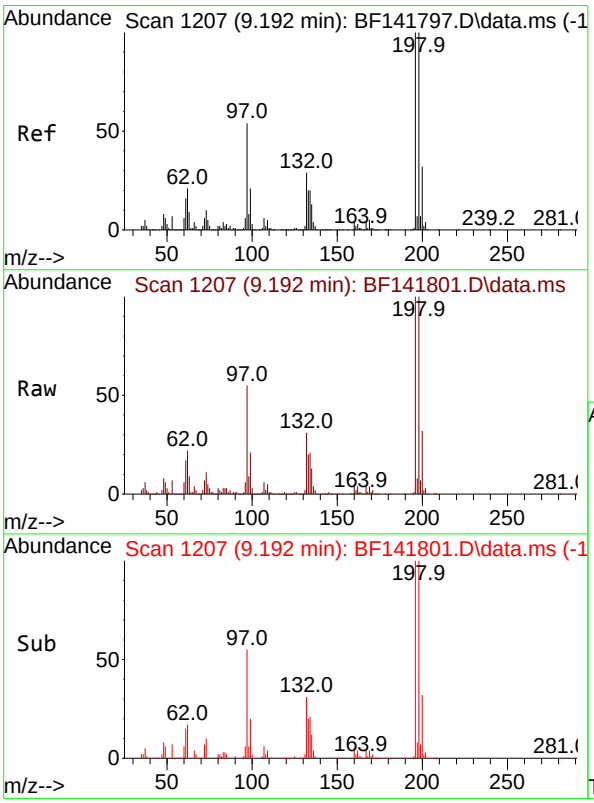

#43
2,4,6-Trichlorophenol
Concen: 42.156 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:196 Resp: 592786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 101.0 | 80.4 | 120.6 |
| 200 | 32.6 | 25.7 | 38.5 |

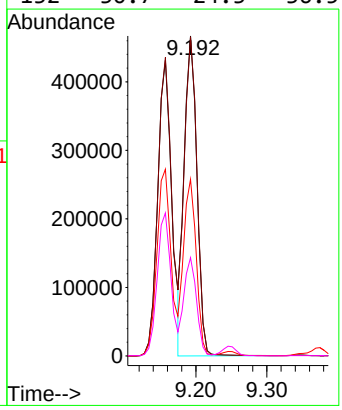


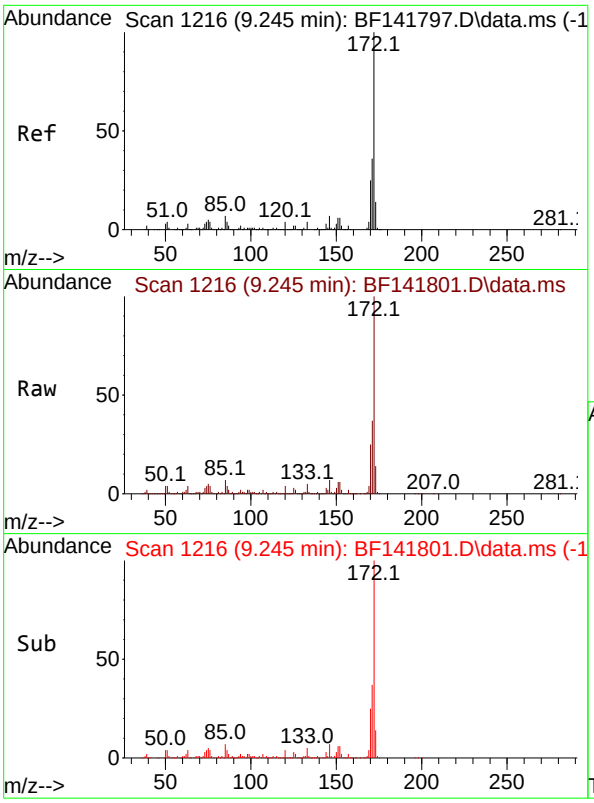




#44
2,4,5-Trichlorophenol
Concen: 41.806 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:196 Resp: 582125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 99.8 | 79.7 | 119.5 |
| 97 | 55.2 | 44.2 | 66.2 |
| 132 | 30.7 | 24.3 | 36.5 |



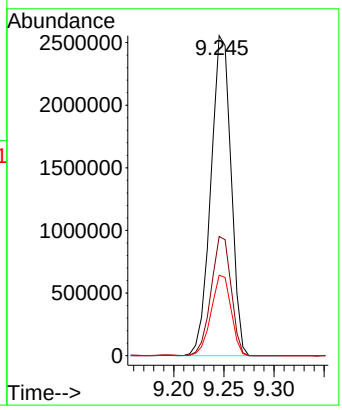


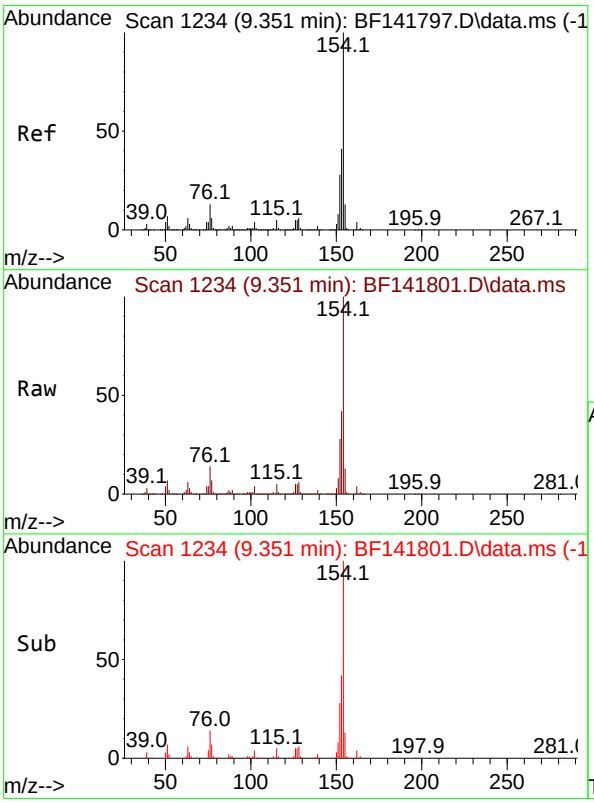

#45
2-Fluorobiphenyl
Concen: 75.957 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:172 Resp: 3570541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 37.2 | 29.2 | 43.8 |
| 170 | 25.1 | 19.7 | 29.5 |

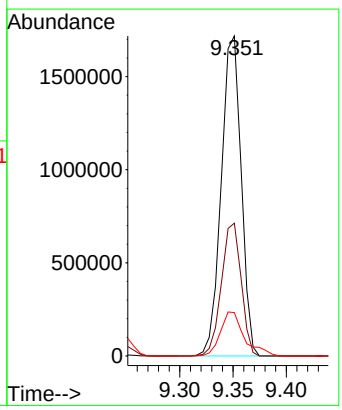


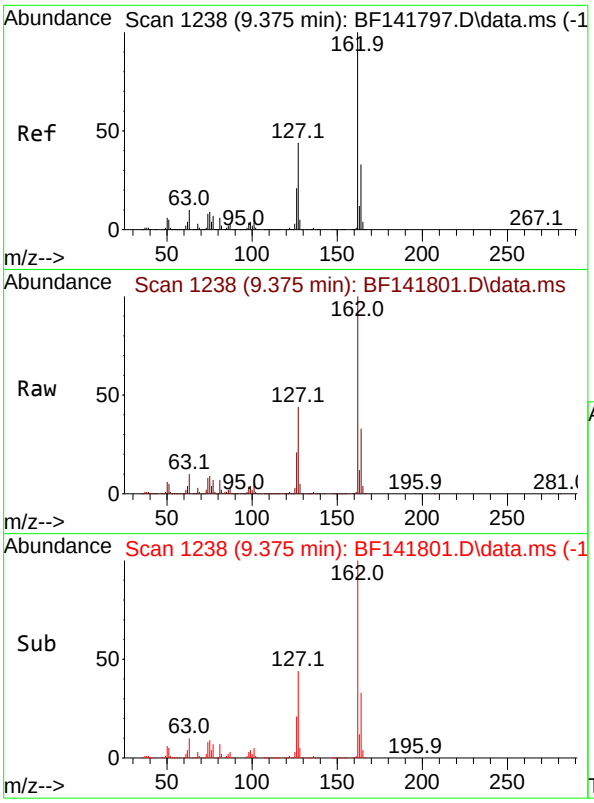




#46
1,1'-Biphenyl
Concen: 38.864 ng
RT: 9.351 min Scan# 1234
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:154 Resp: 2229687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.5 | 21.4 | 61.4 |
| 76 | 13.6 | 0.0 | 33.4 |



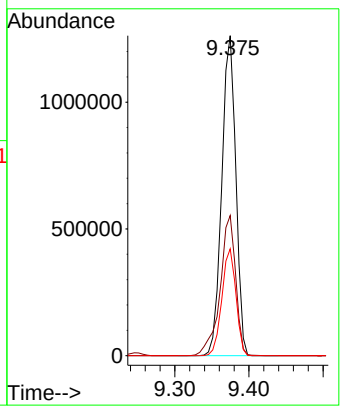


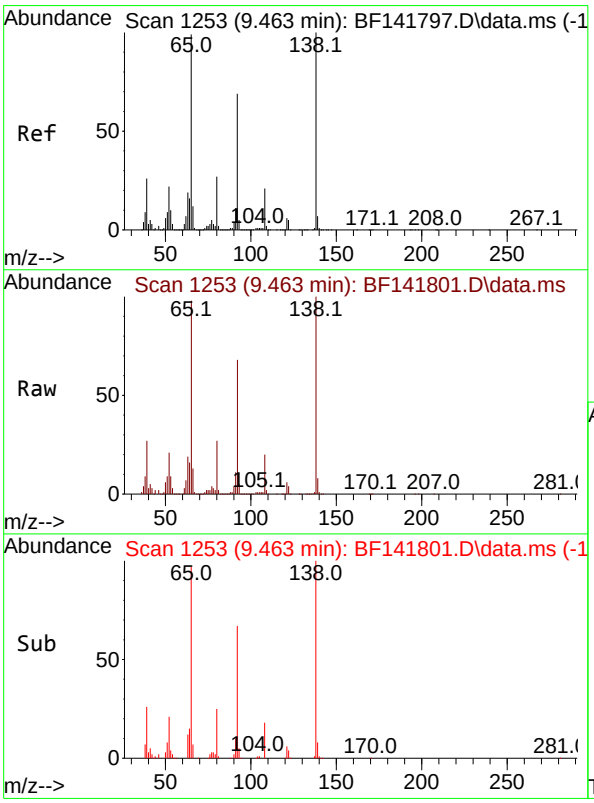

#47
2-Chloronaphthalene
Concen: 39.288 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:162 Resp: 1663643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 43.8 | 35.0 | 52.6 |
| 164 | 33.4 | 26.6 | 40.0 |

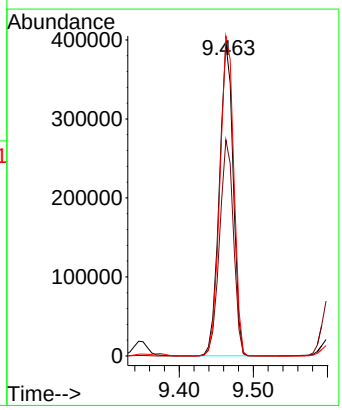


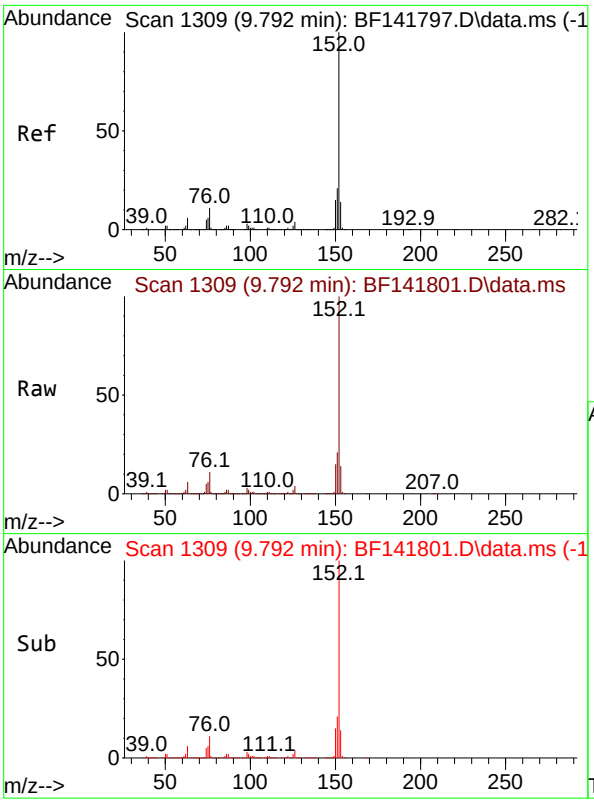




#48
2-Nitroaniline
Concen: 44.684 ng
RT: 9.463 min Scan# 1253
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 65 Resp: 514104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 69.1 | 55.7 | 83.5 |
| 138 | 102.2 | 80.6 | 121.0 |



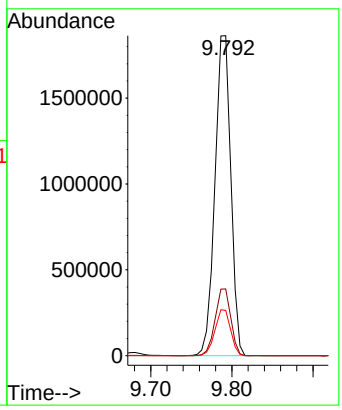


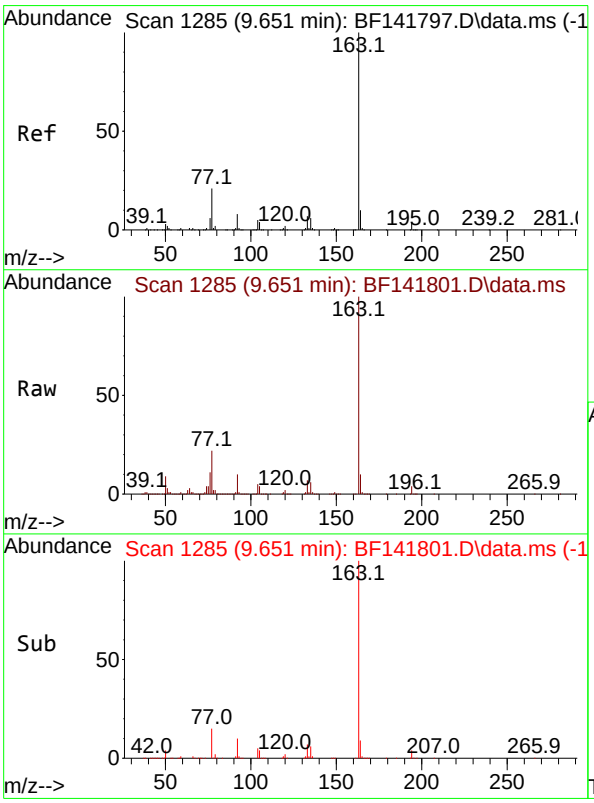

#49
Acenaphthylene
Concen: 39.907 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:152 Resp: 2533613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.8 | 16.6 | 24.8 |
| 153 | 14.1 | 11.2 | 16.8 |

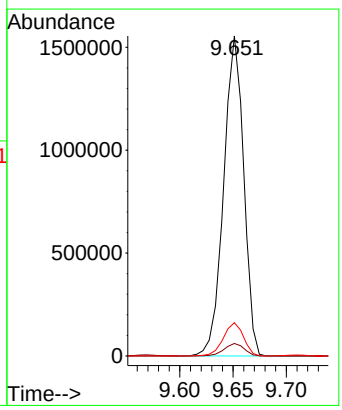


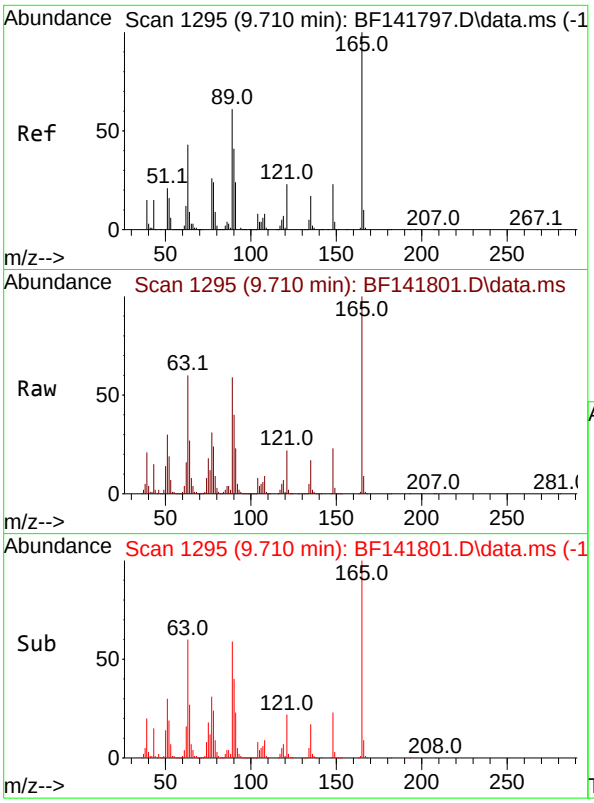




#50
Dimethylphthalate
Concen: 40.250 ng
RT: 9.651 min Scan# 1285
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:163 Resp: 2031698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.9 | 3.1 | 4.7 |
| 164 | 10.4 | 8.4 | 12.6 |



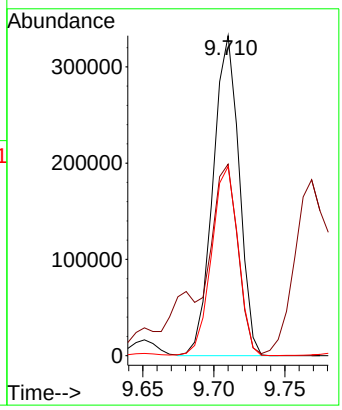


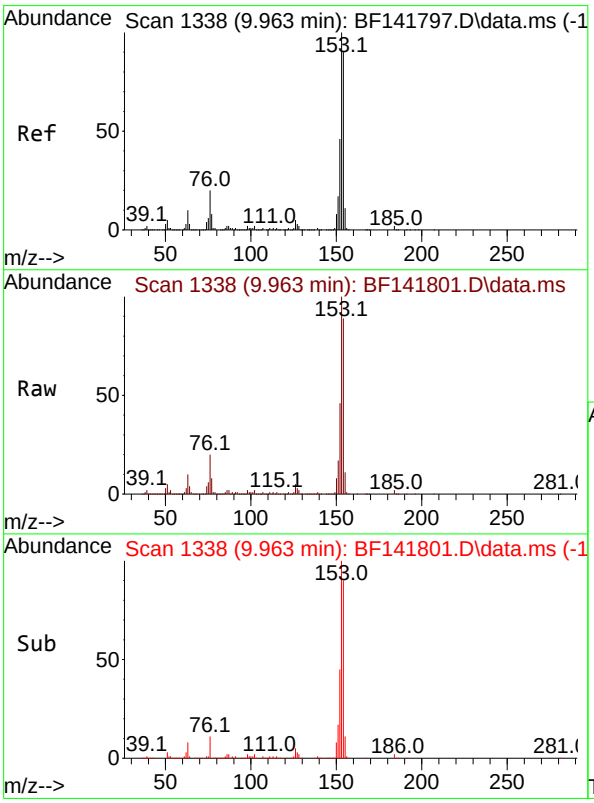

#51
2,6-Dinitrotoluene
Concen: 44.292 ng
RT: 9.710 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:165 Resp: 425445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 59.8 | 49.5 | 74.3 |
| 89 | 59.1 | 49.0 | 73.4 |

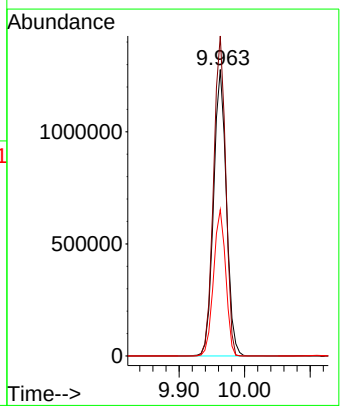


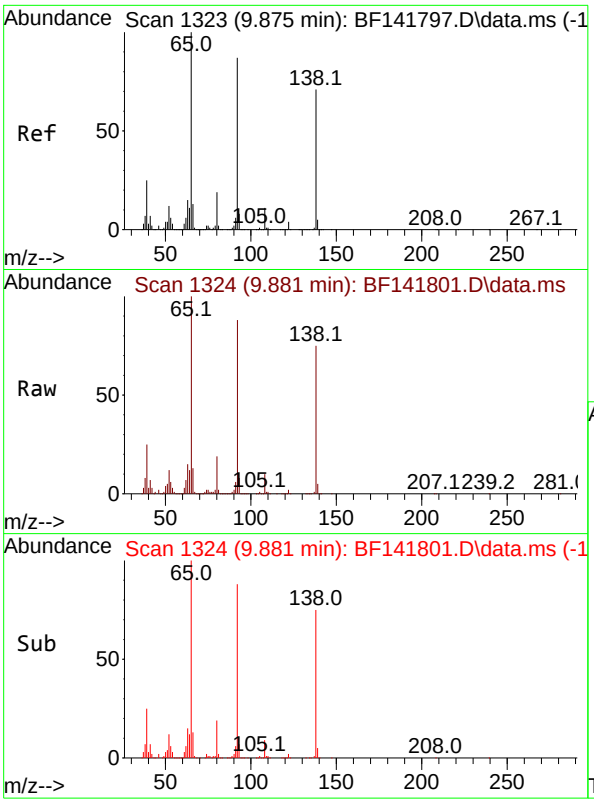




#52
Acenaphthene
Concen: 40.488 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:154 Resp: 1734464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 111.7 | 88.7 | 133.1 |
| 152 | 51.0 | 40.9 | 61.3 |



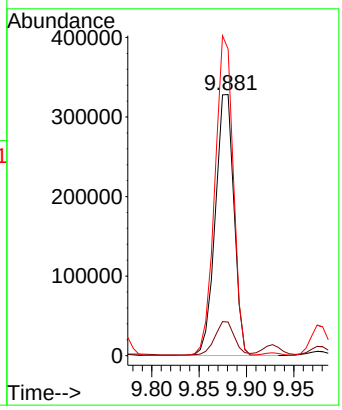


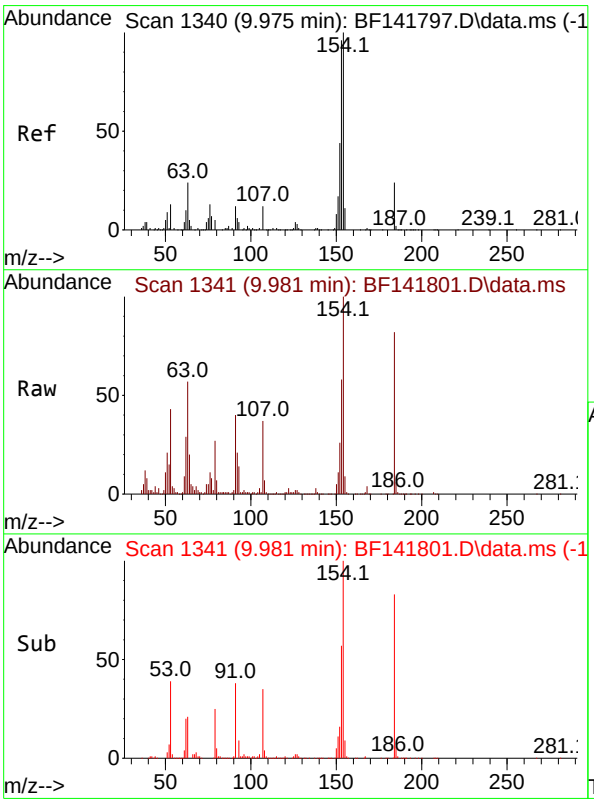

#53
3-Nitroaniline
Concen: 43.938 ng
RT: 9.881 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:138 Resp: 449174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 12.9 | 12.7 | 19.1 |
| 92 | 117.4 | 97.9 | 146.9 |

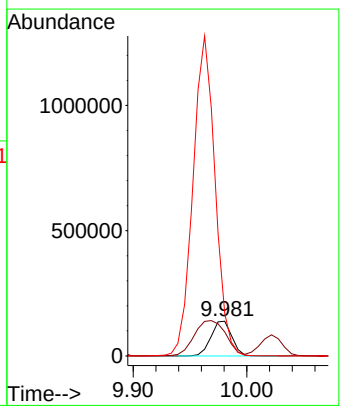


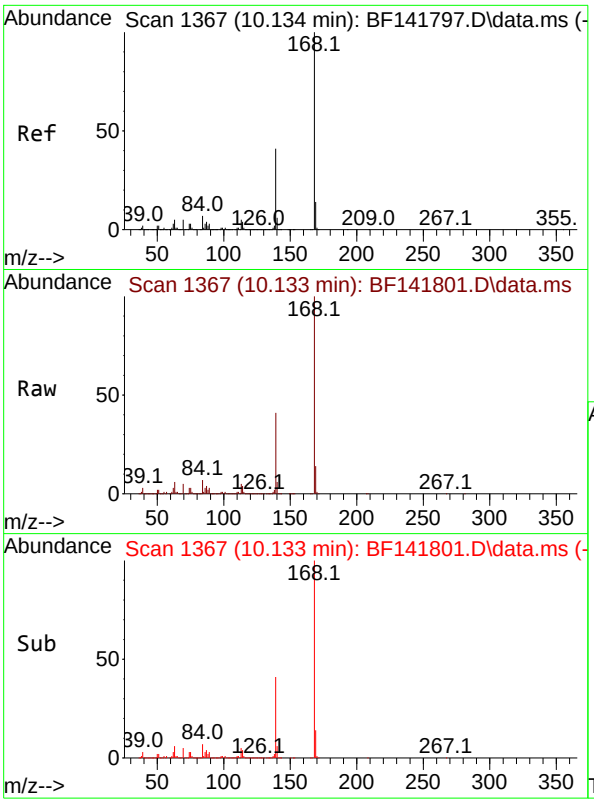




#54
2,4-Dinitrophenol
Concen: 47.494 ng
RT: 9.981 min Scan# 1341
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:184 Resp: 176378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 69.1 | 79.0 | 118.6# |
| 154 | 121.2 | 335.8 | 503.8# |



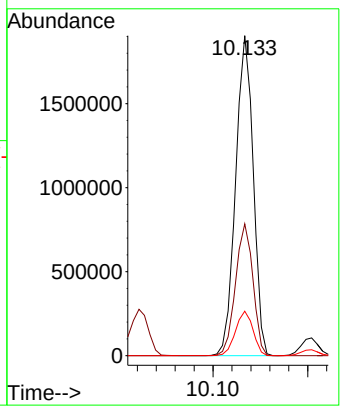


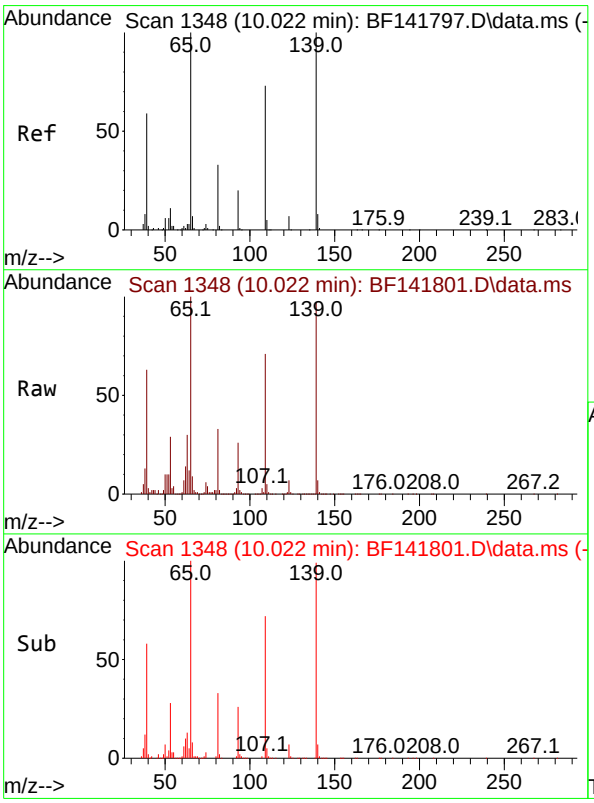

#55
Dibenzofuran
Concen: 39.391 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:168 Resp: 2456099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 41.2 | 32.9 | 49.3 |
| 169 | 13.9 | 11.1 | 16.7 |

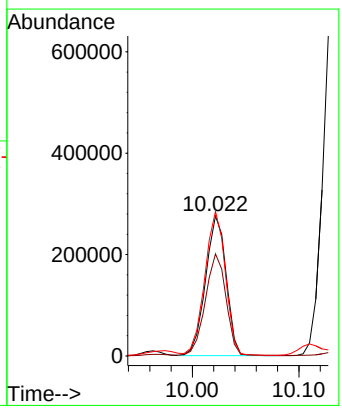


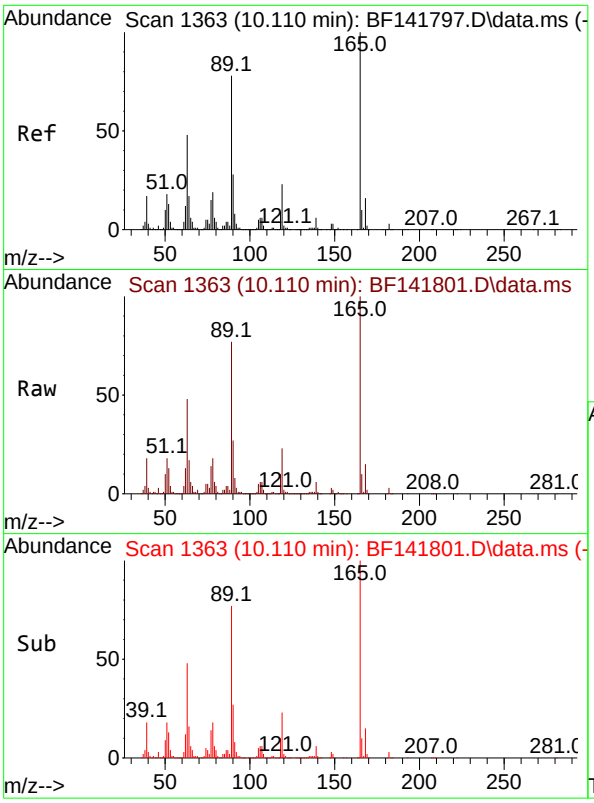




#56
4-Nitrophenol
Concen: 49.725 ng
RT: 10.022 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:139 Resp: 370704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 72.9 | 53.4 | 93.4 |
| 65 | 103.3 | 82.1 | 122.1 |



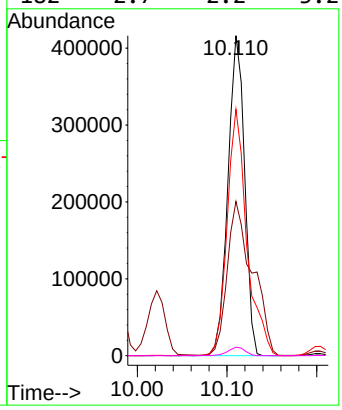


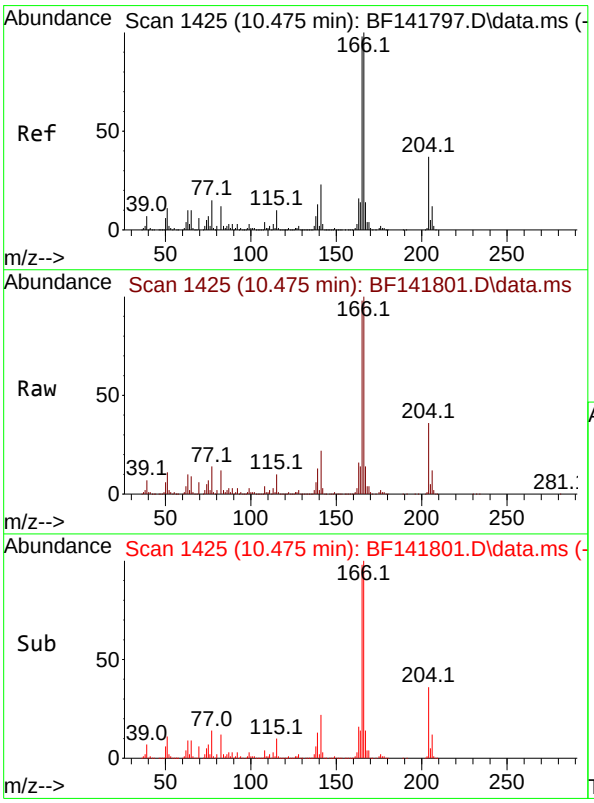

#57
2,4-Dinitrotoluene
Concen: 45.704 ng
RT: 10.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:165 Resp: 536914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 48.2 | 38.8 | 58.2 |
| 89 | 77.0 | 62.6 | 94.0 |
| 182 | 2.7 | 2.2 | 3.2 |

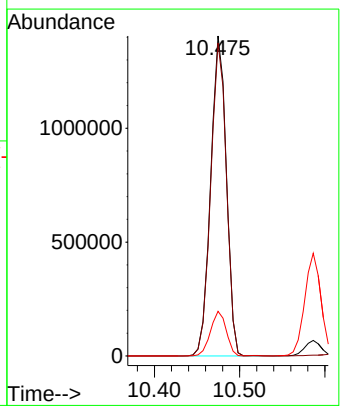


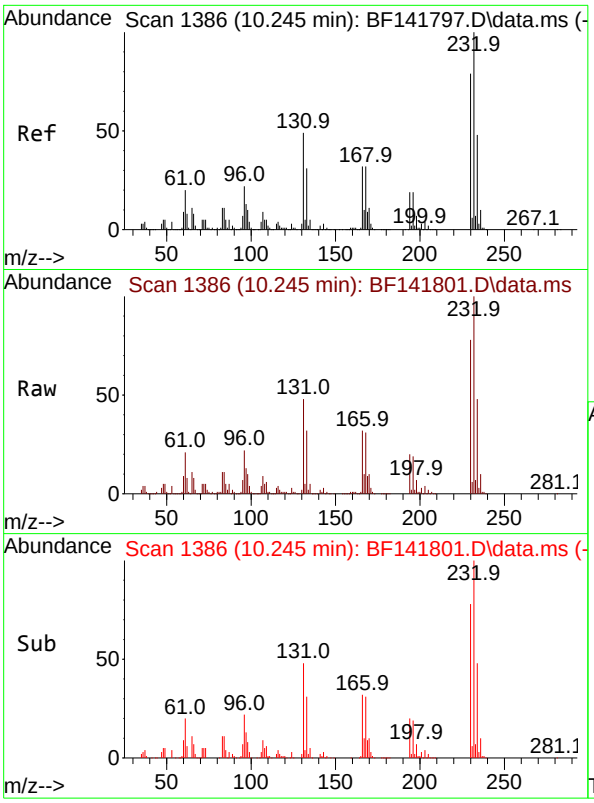




#58
Fluorene
Concen: 38.547 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:166 Resp: 1800318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.8 | 78.6 | 117.8 |
| 167 | 14.0 | 11.0 | 16.4 |



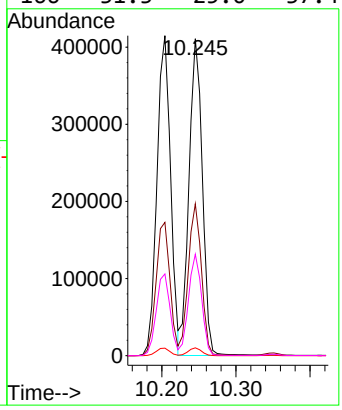


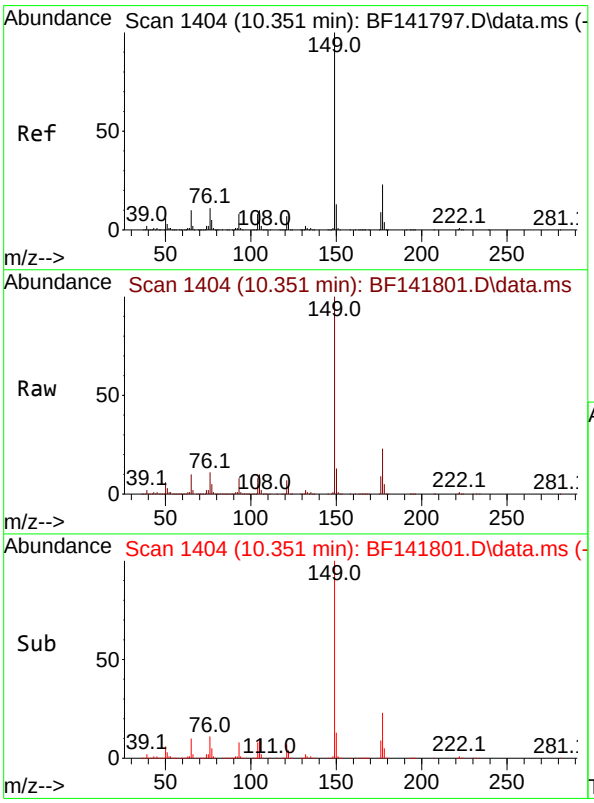

#59
2,3,4,6-Tetrachlorophenol
Concen: 42.607 ng
RT: 10.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:232 Resp: 515976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 47.1 | 37.8 | 56.8 |
| 130 | 2.5 | 2.0 | 3.0 |
| 166 | 31.3 | 25.0 | 37.4 |

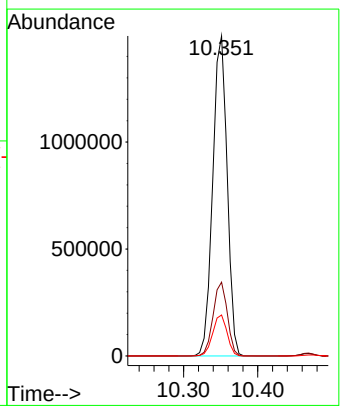


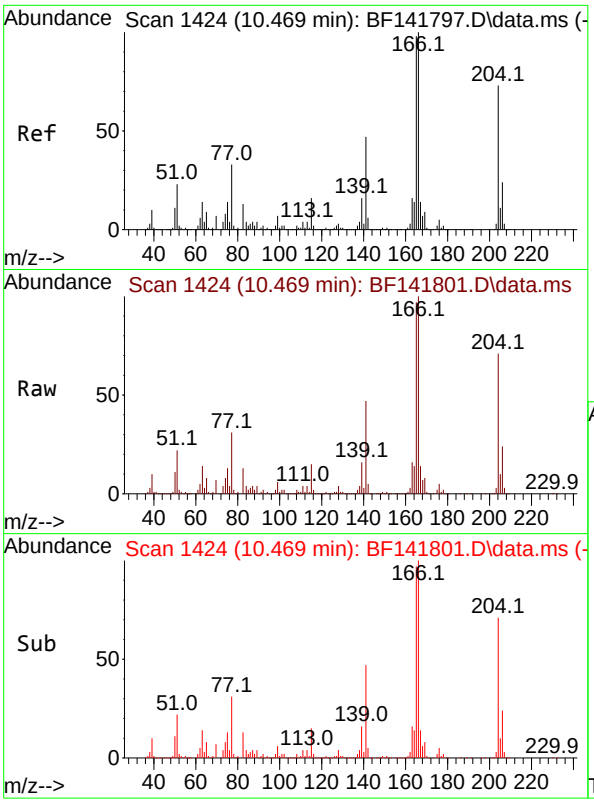




#60
Diethylphthalate
Concen: 39.896 ng
RT: 10.351 min Scan# 1404
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:149 Resp: 2018830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 23.1 | 18.3 | 27.5 |
| 150 | 12.8 | 10.3 | 15.5 |



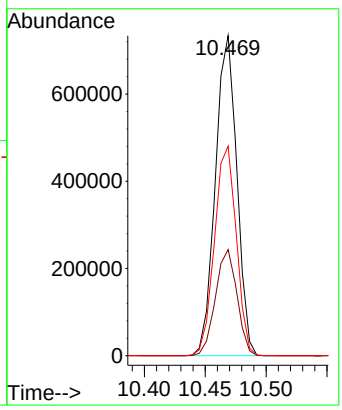


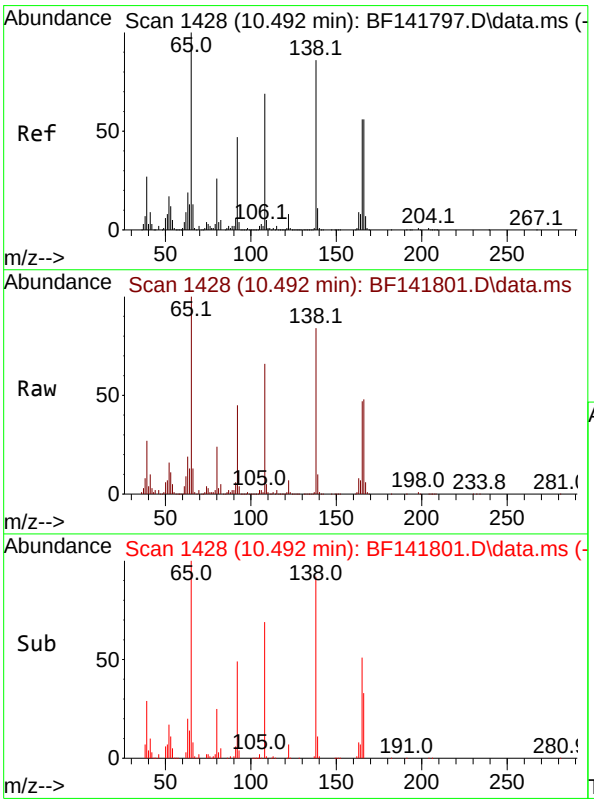

#61
4-Chlorophenyl-phenylether
Concen: 38.546 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:204 Resp: 901998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 33.2 | 26.2 | 39.4 |
| 141 | 65.4 | 51.7 | 77.5 |

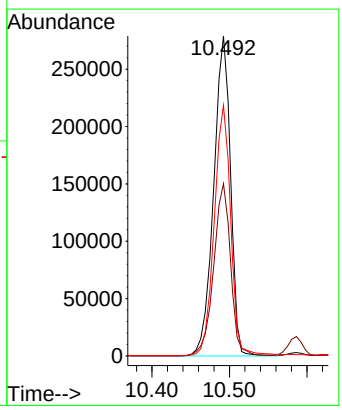


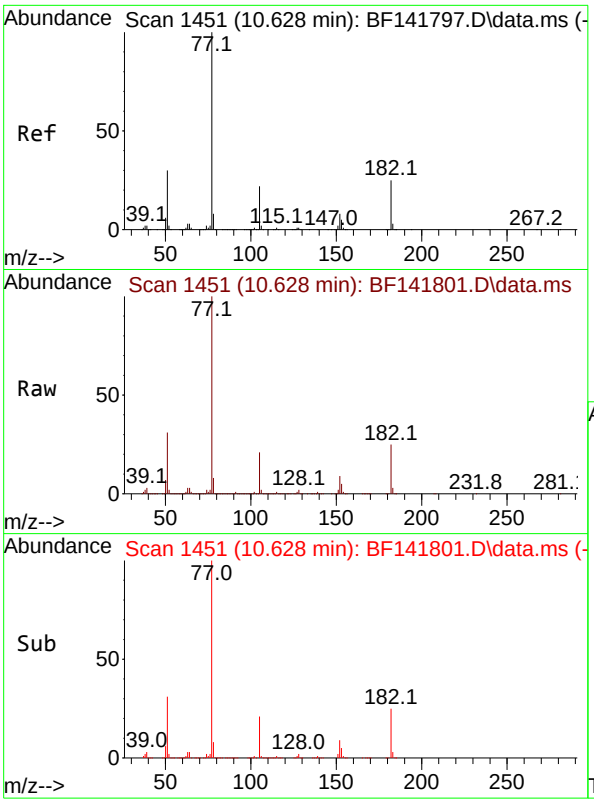




#62
4-Nitroaniline
Concen: 48.866 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:138 Resp: 421232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 53.9 | 34.9 | 74.9 |
| 108 | 78.3 | 59.6 | 99.6 |



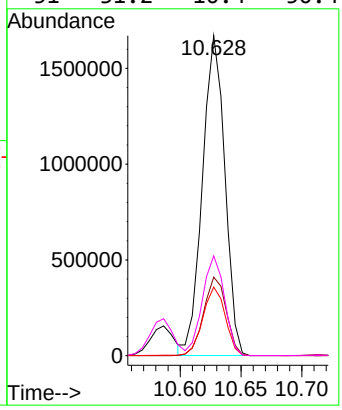


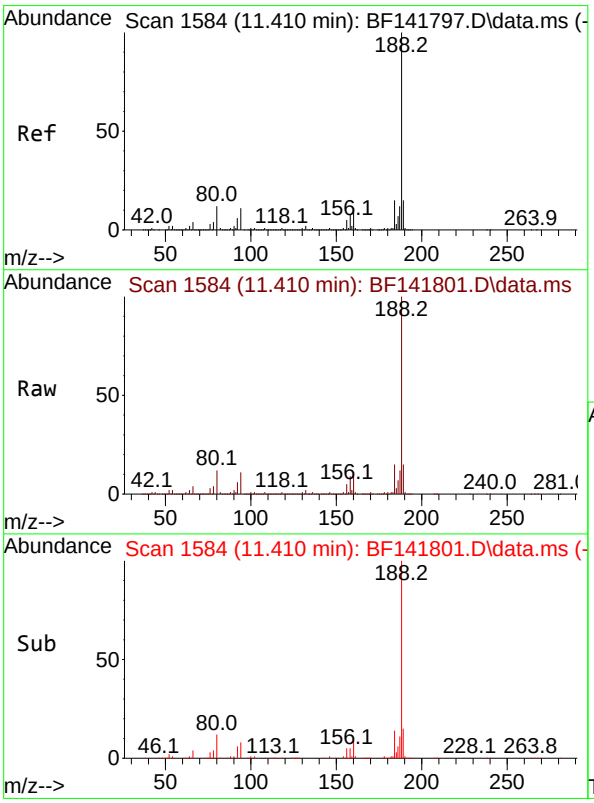

#63
Azobenzene
Concen: 40.188 ng
RT: 10.628 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion: 77 Resp: 2141198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 24.5 | 4.2 | 44.2 |
| 105 | 21.4 | 1.5 | 41.5 |
| 51 | 31.2 | 10.4 | 50.4 |

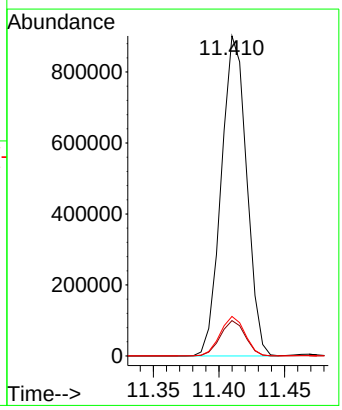


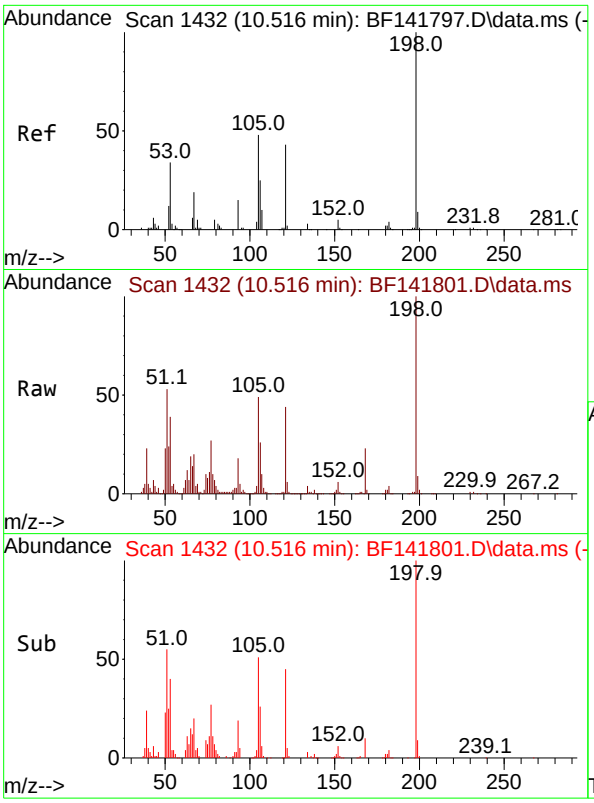




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:188 Resp: 1211382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 11.1 | 8.9 | 13.3 |
| 80 | 12.3 | 9.7 | 14.5 |



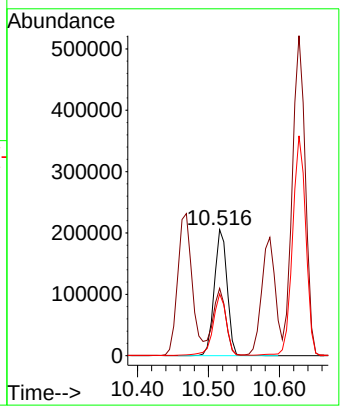


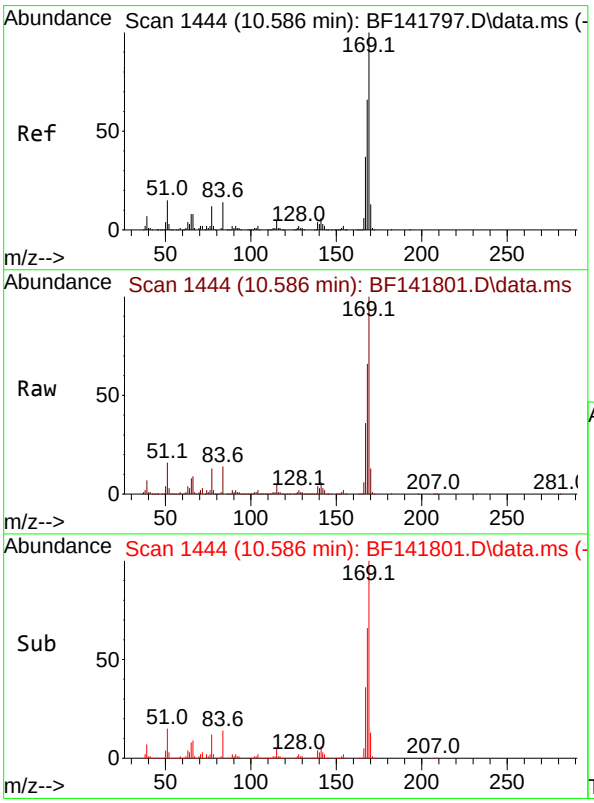

#65
4,6-Dinitro-2-methylphenol
Concen: 45.441 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:198 Resp: 256241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 53.4 | 32.1 | 72.1 |
| 105 | 49.0 | 28.5 | 68.5 |

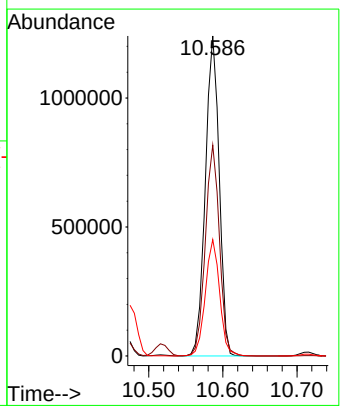


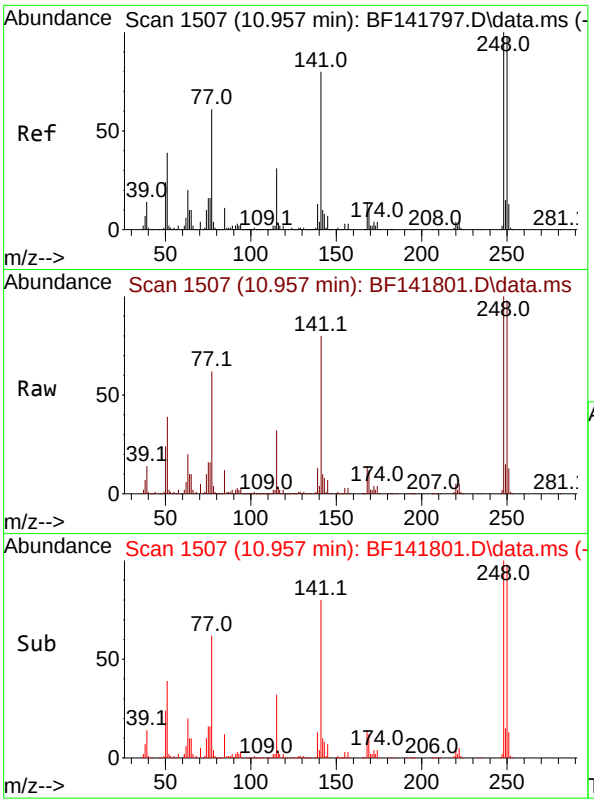




#66
n-Nitrosodiphenylamine
Concen: 40.431 ng
RT: 10.586 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:169 Resp: 1608263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 65.9 | 53.0 | 79.6 |
| 167 | 36.4 | 29.3 | 43.9 |



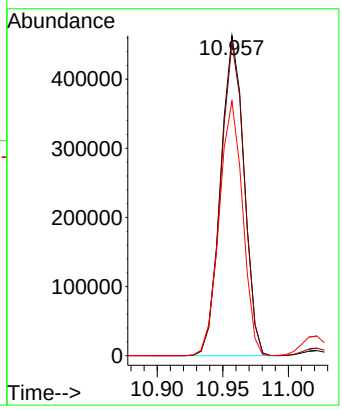


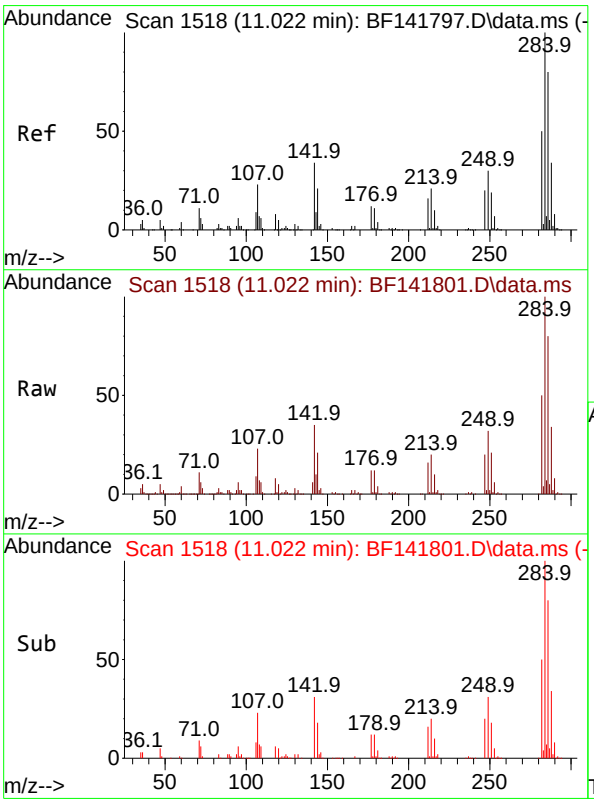

#67
4-Bromophenyl-phenylether
Concen: 40.614 ng
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:248 Resp: 574667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.7 | 78.1 | 117.1 |
| 141 | 79.5 | 64.3 | 96.5 |

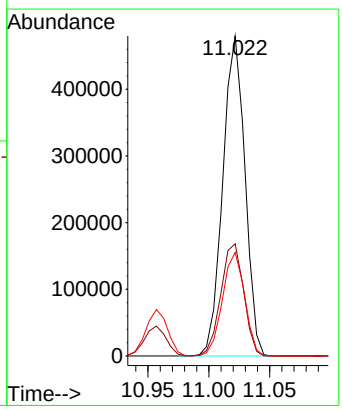


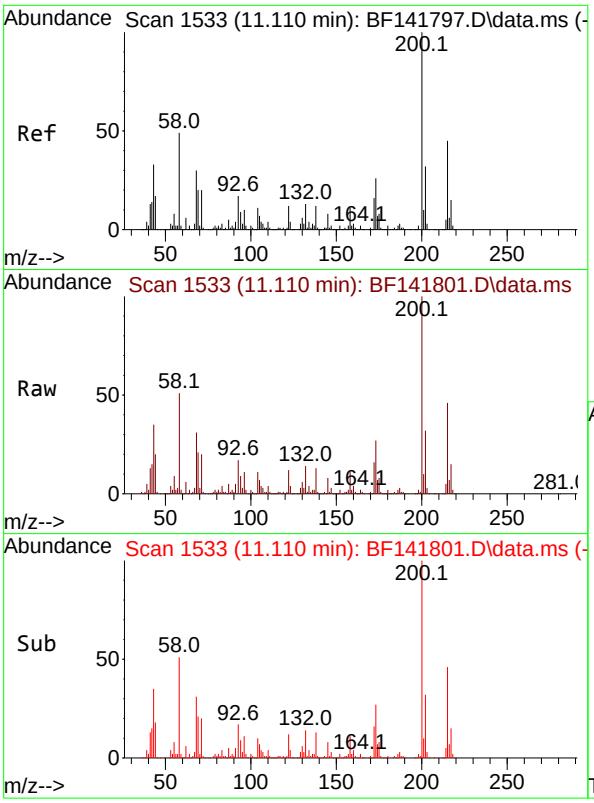




#68
Hexachlorobenzene
Concen: 40.697 ng
RT: 11.022 min Scan# 1518
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:284 Resp: 608067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 35.0 | 28.2 | 42.2 |
| 249 | 32.4 | 25.5 | 38.3 |



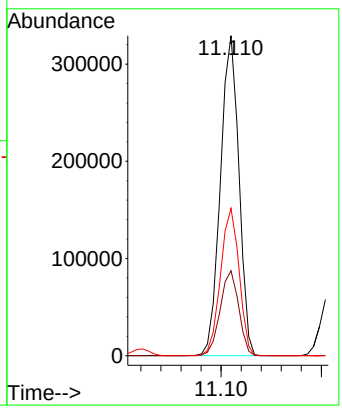


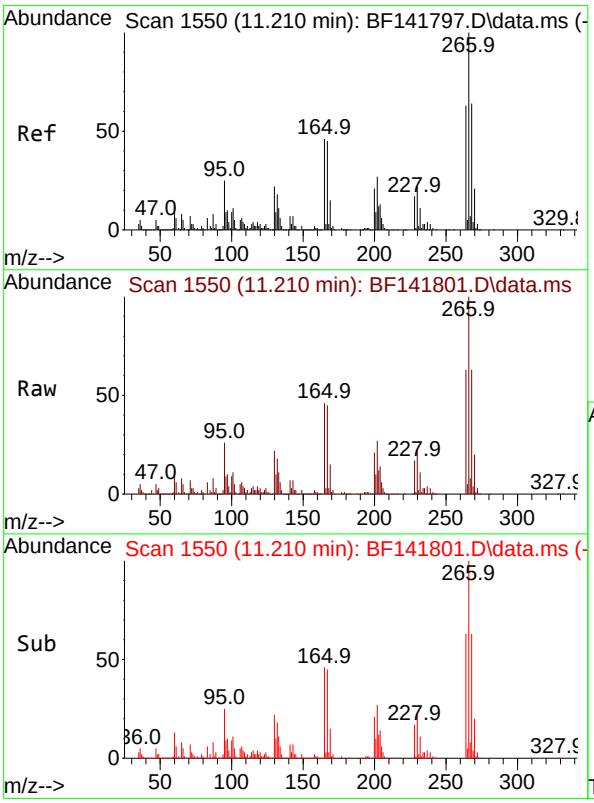

#69
Atrazine
Concen: 38.463 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:200 Resp: 420733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.5 | 5.6 | 45.6 |
| 215 | 46.1 | 25.3 | 65.3 |

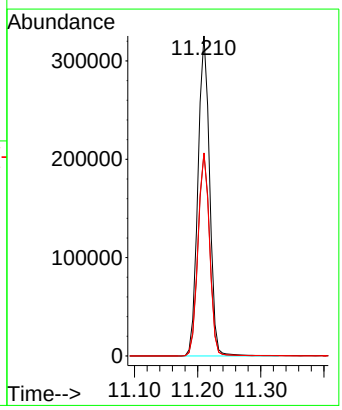


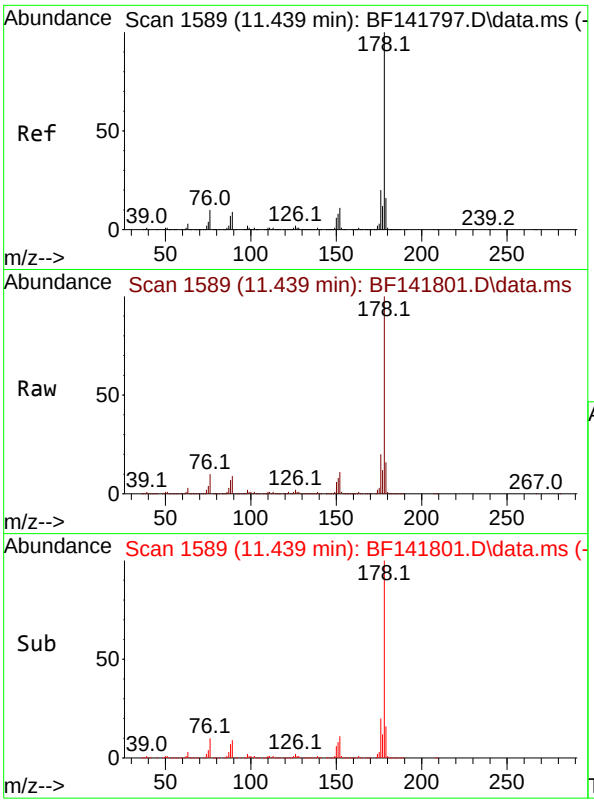




#70
Pentachlorophenol
Concen: 44.032 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:266 Resp: 417260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.5 | 50.9 | 76.3 |
| 264 | 63.4 | 50.2 | 75.4 |



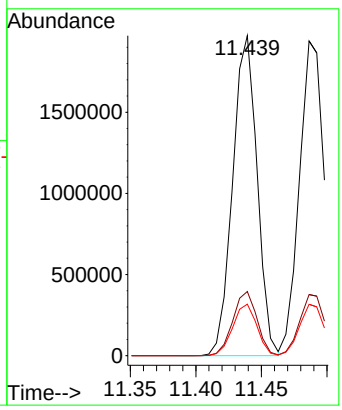


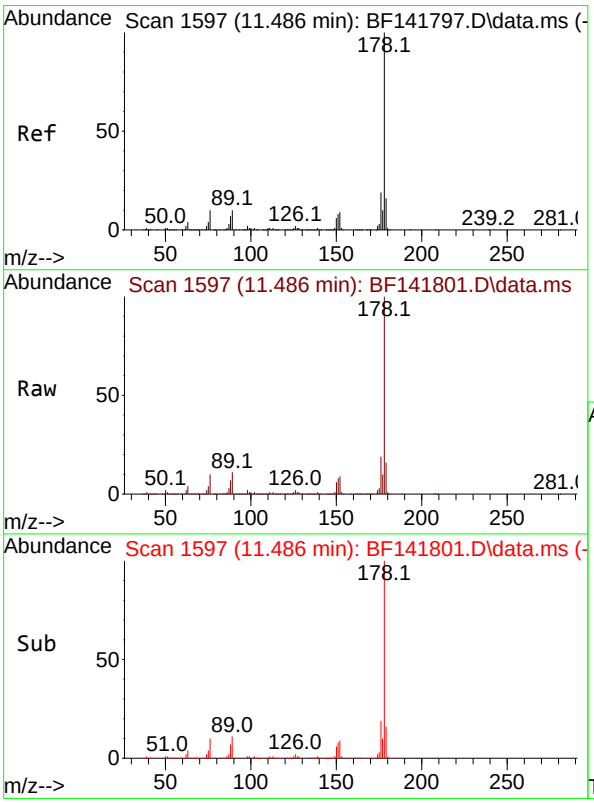

#71
Phenanthrene
Concen: 39.475 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:178 Resp: 2557877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 20.0 | 16.0 | 24.0 |
| 179 | 16.1 | 12.6 | 19.0 |

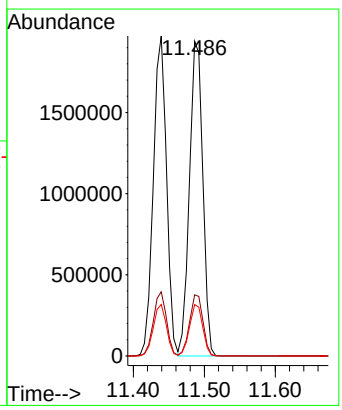


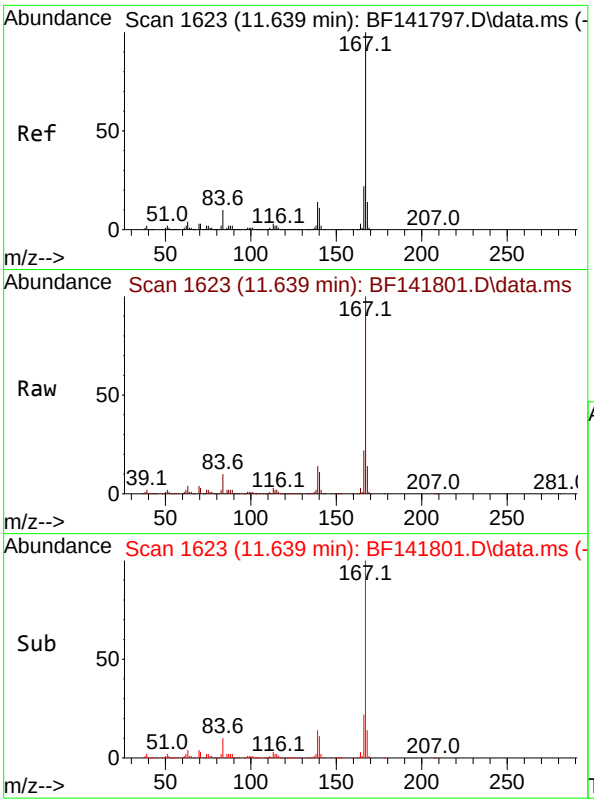




#72
Anthracene
Concen: 39.126 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:178 Resp: 2540876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 15.4 | 23.0 |
| 179 | 16.3 | 12.8 | 19.2 |



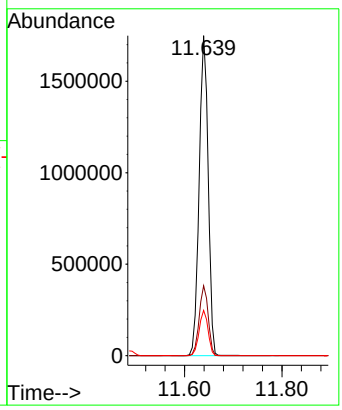


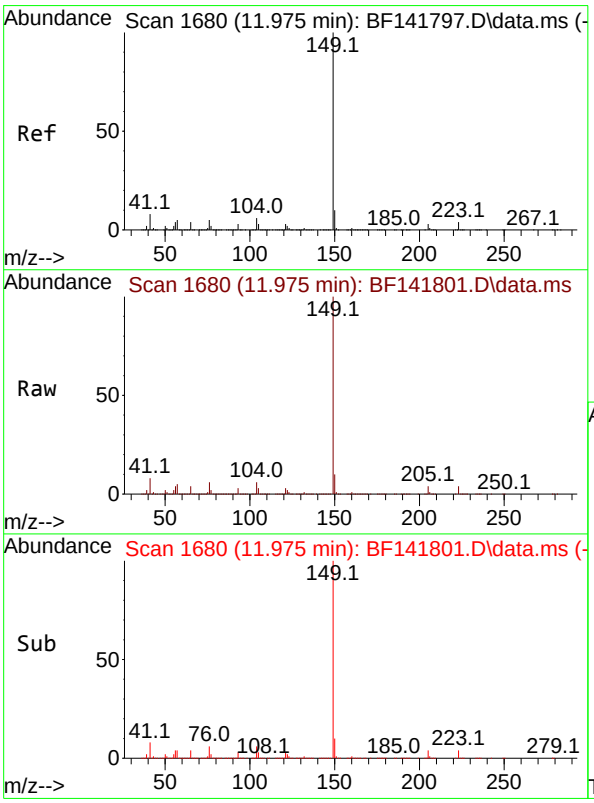

#73
Carbazole
Concen: 39.317 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:167 Resp: 2254761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.9 | 17.5 | 26.3 |
| 139 | 14.2 | 11.3 | 16.9 |

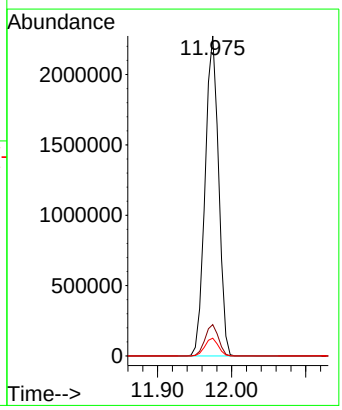


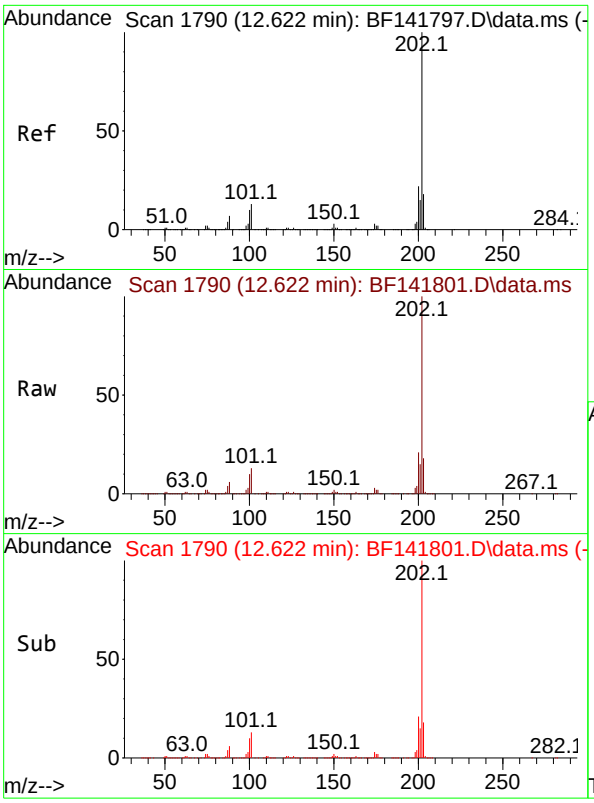




#74
Di-n-butylphthalate
Concen: 39.540 ng
RT: 11.975 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:149 Resp: 2874276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.8 | 7.7 | 11.5 |
| 104 | 5.5 | 4.4 | 6.6 |



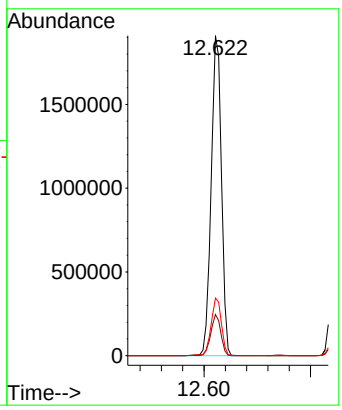


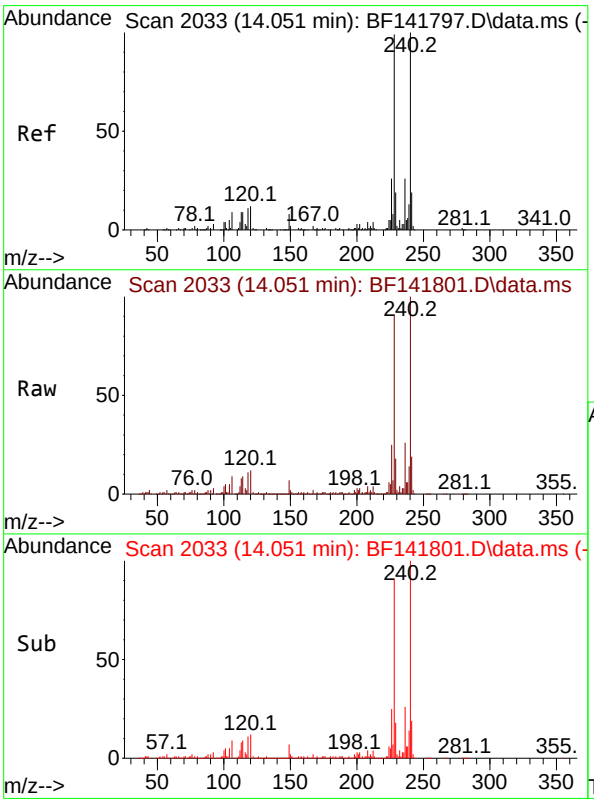

#75
Fluoranthene
Concen: 38.448 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:202 Resp: 2552790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.8 | 0.0 | 32.8 |
| 203 | 18.0 | 0.0 | 38.0 |

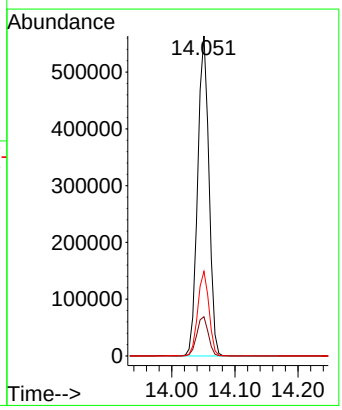


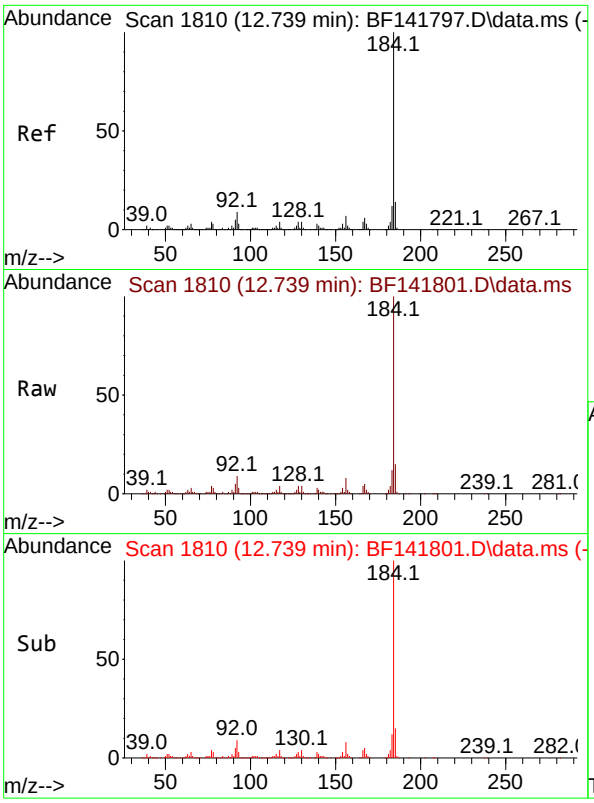




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:240 Resp: 696919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 12.2 | 9.7 | 14.5 |
| 236 | 26.5 | 21.0 | 31.4 |



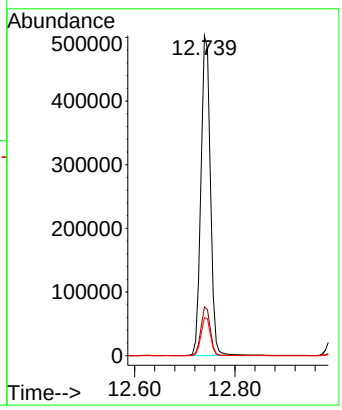


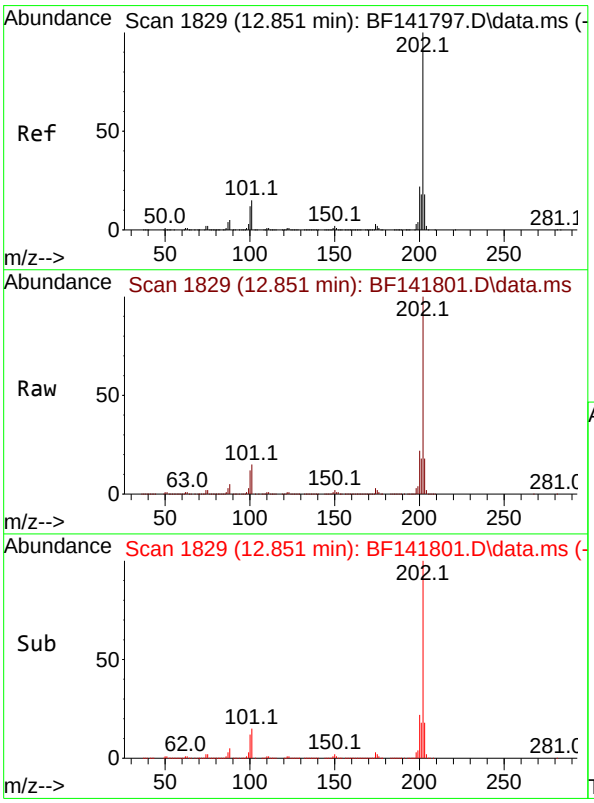

#77
Benzidine
Concen: 74.959 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:184 Resp: 657519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 15.3 | 11.6 | 17.4 |
| 183 | 11.9 | 9.4 | 14.0 |

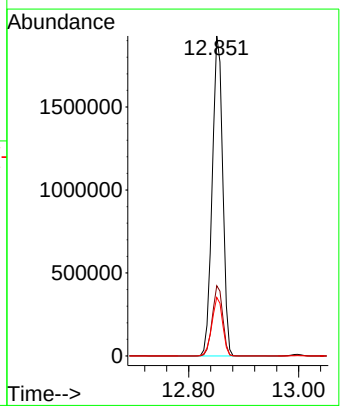


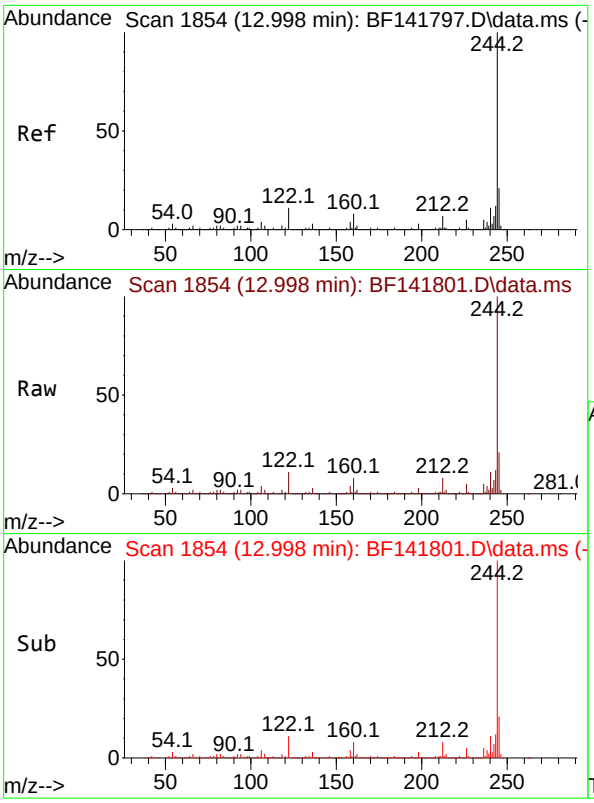




#78
Pyrene
Concen: 42.307 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:202 Resp: 2553211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 22.0 | 17.4 | 26.0 |
| 203 | 18.3 | 14.6 | 22.0 |



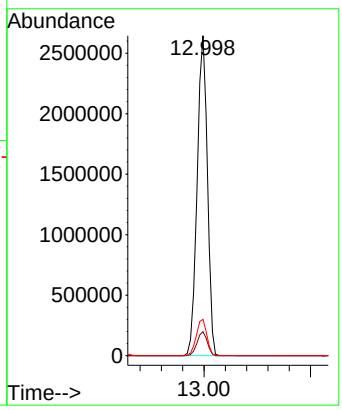


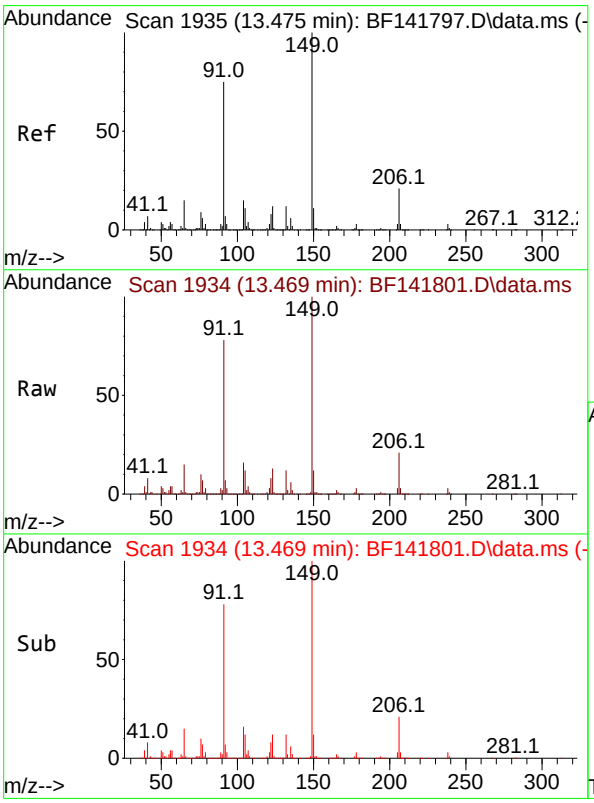

#79
Terphenyl-d14
Concen: 82.060 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:244 Resp: 3534753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.5 | 6.0 | 9.0 |
| 122 | 11.3 | 9.0 | 13.6 |

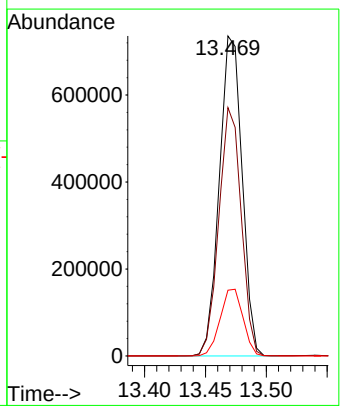


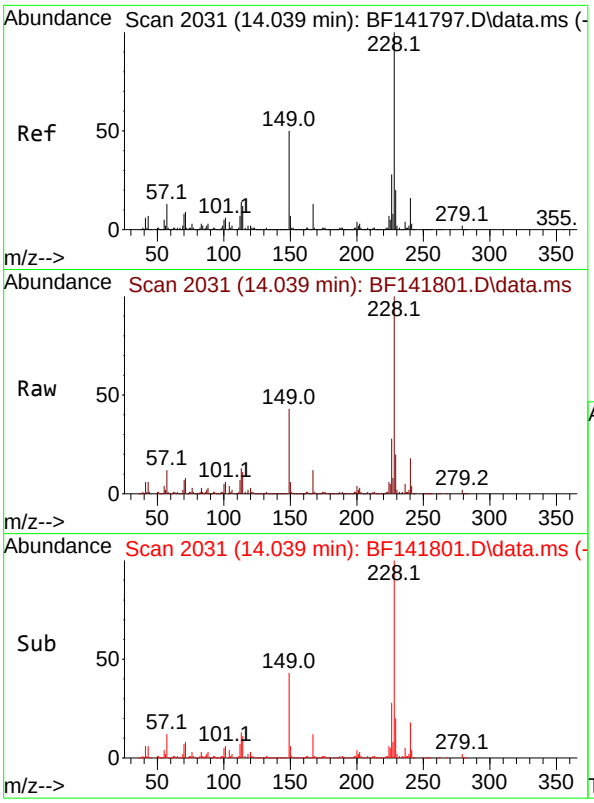




#80
Butylbenzylphthalate
Concen: 43.655 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:149 Resp: 957186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 77.6 | 60.1 | 90.1 |
| 206 | 20.5 | 16.8 | 25.2 |



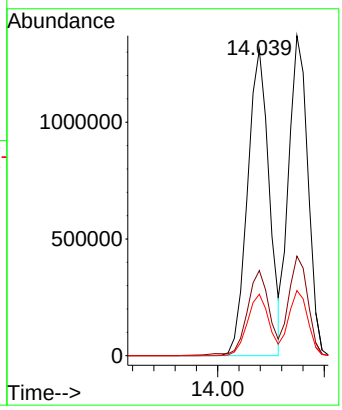


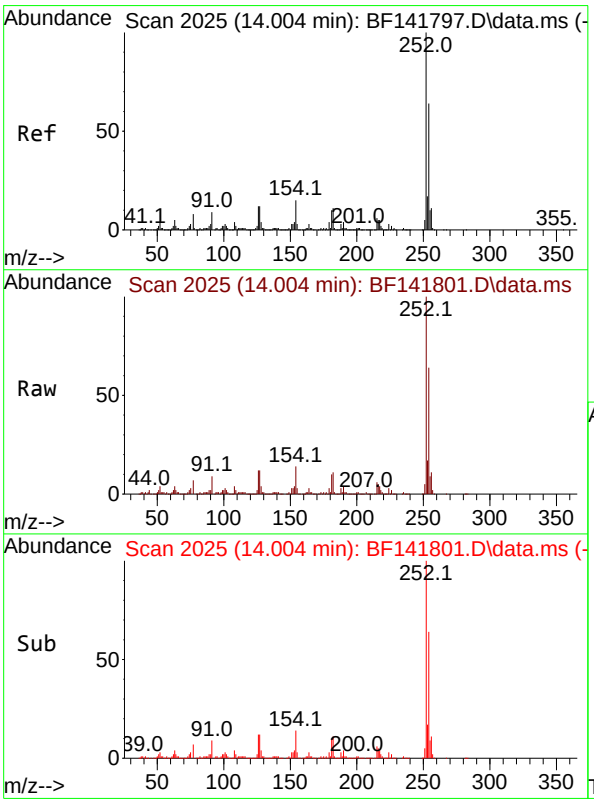

#81
Benzo(a)anthracene
Concen: 40.236 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:228 Resp: 1852195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.8 | 22.1 | 33.1 |
| 229 | 20.1 | 16.1 | 24.1 |

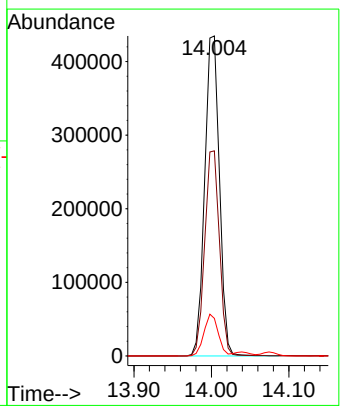


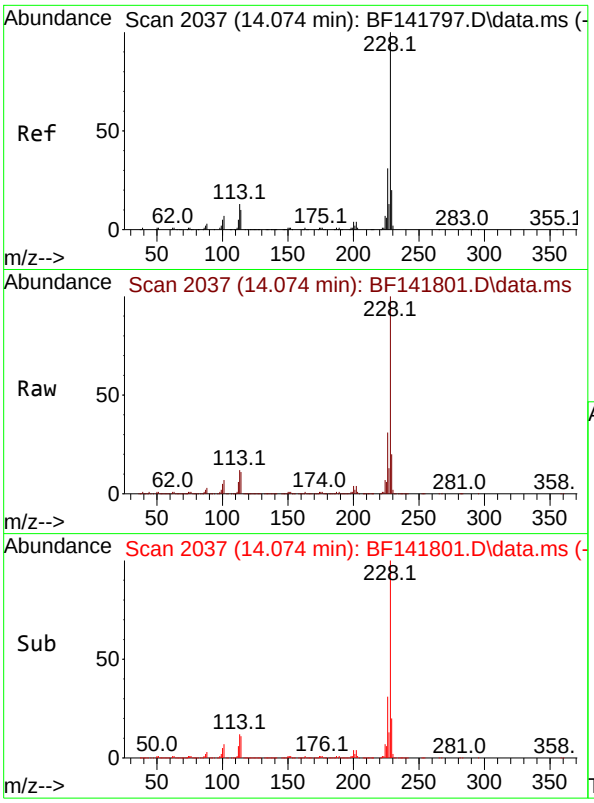




#82
3,3'-Dichlorobenzidine
Concen: 43.392 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:252 Resp: 573075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 64.1 | 51.4 | 77.0 |
| 126 | 11.8 | 9.8 | 14.6 |



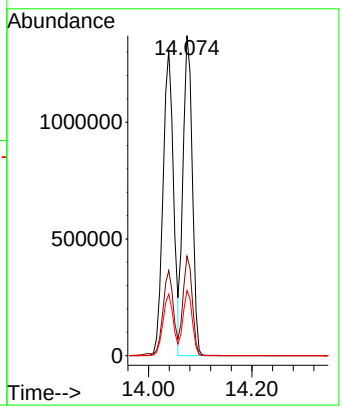


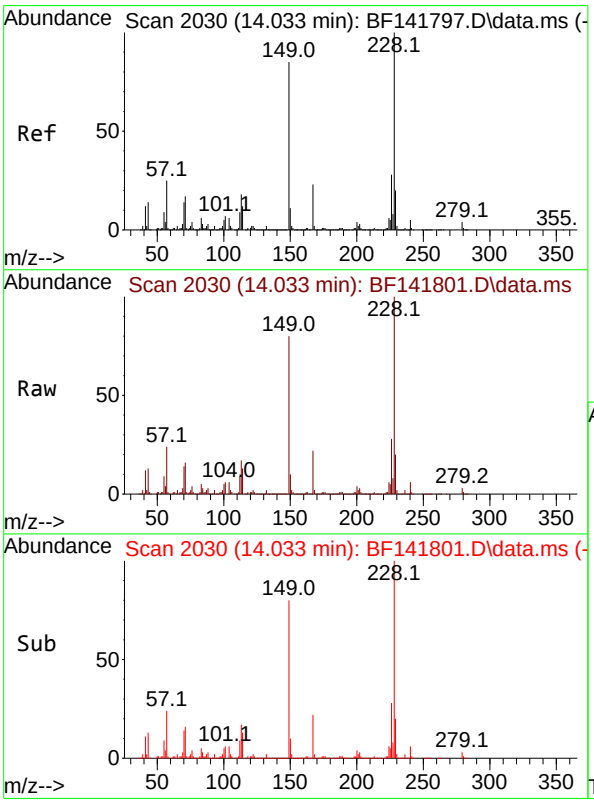

#83
Chrysene
Concen: 40.491 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:228 Resp: 1718188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 31.1 | 24.6 | 37.0 |
| 229 | 20.4 | 16.1 | 24.1 |

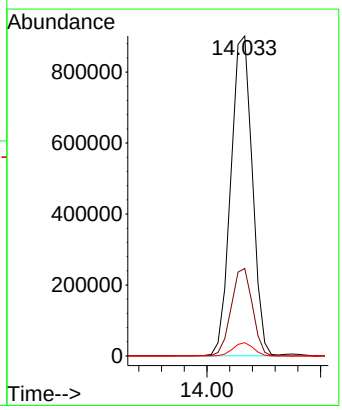


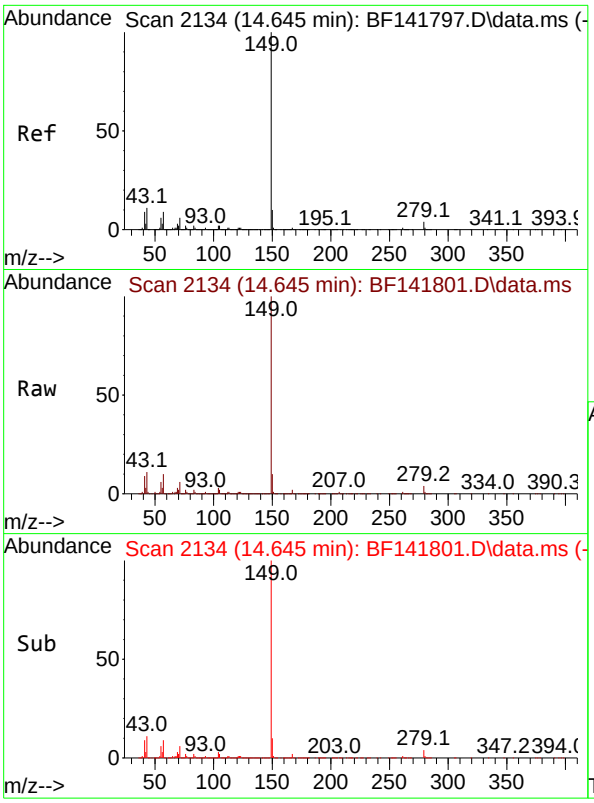




#84
Bis(2-ethylhexyl)phthalate
Concen: 43.350 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:149 Resp: 1183508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.4 | 21.2 | 31.8 |
| 279 | 4.2 | 3.3 | 4.9 |



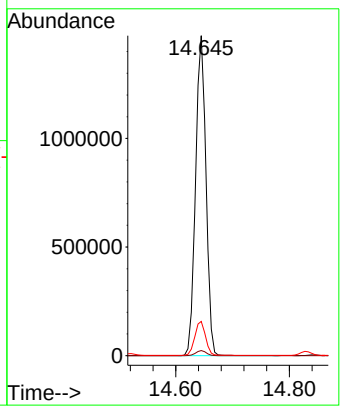


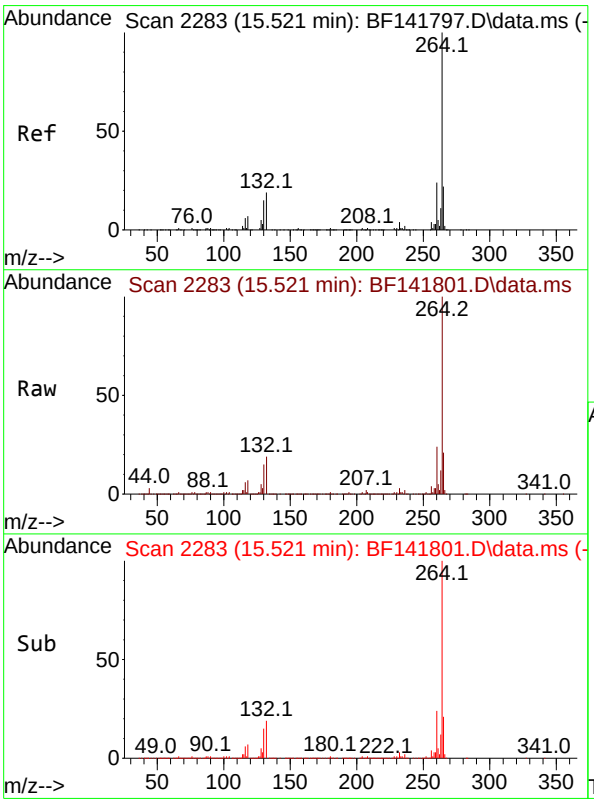

#85
Di-n-octyl phthalate
Concen: 46.033 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:149 Resp: 1881499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.2 | 1.8 |
| 43 | 11.0 | 8.6 | 12.8 |

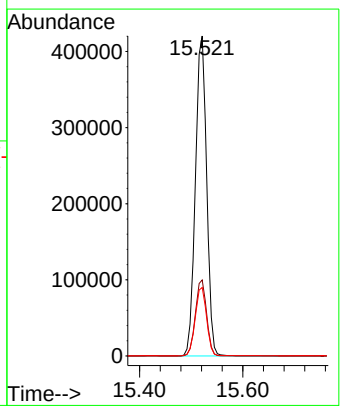


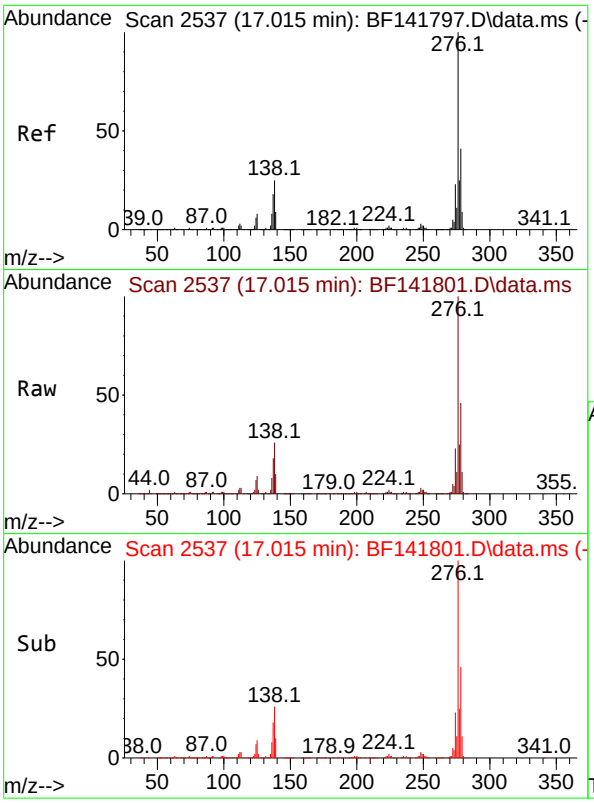




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:264 Resp: 634238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.8 | 18.9 | 28.3 |
| 265 | 21.4 | 17.4 | 26.0 |



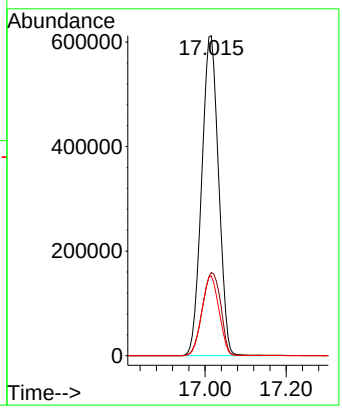


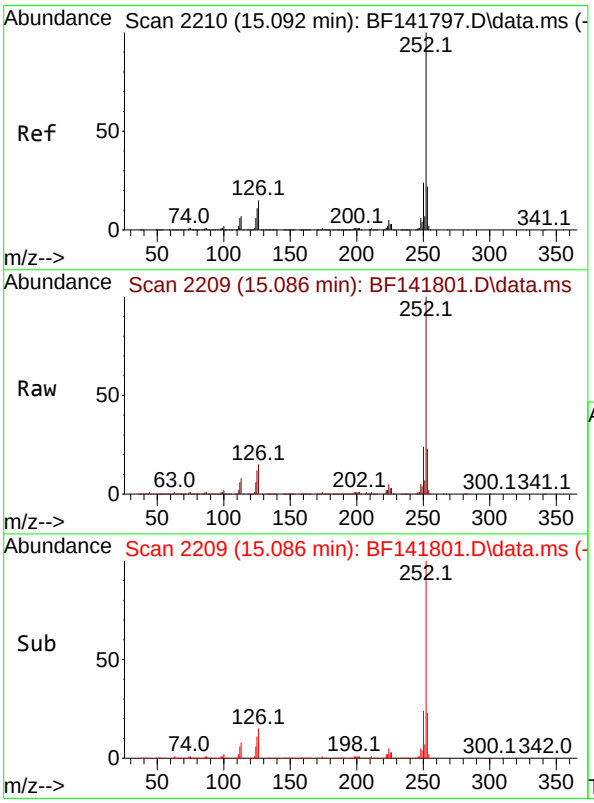

#87
Indeno(1,2,3-cd)pyrene
Concen: 43.754 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:276 Resp: 1767077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 28.3 | 22.5 | 33.7 |
| 277 | 25.3 | 20.3 | 30.5 |

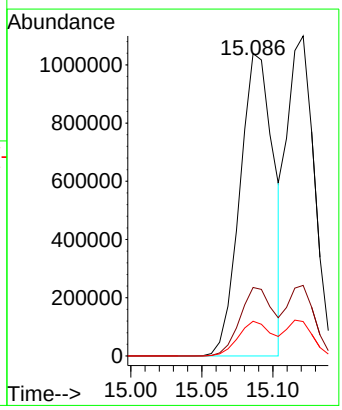


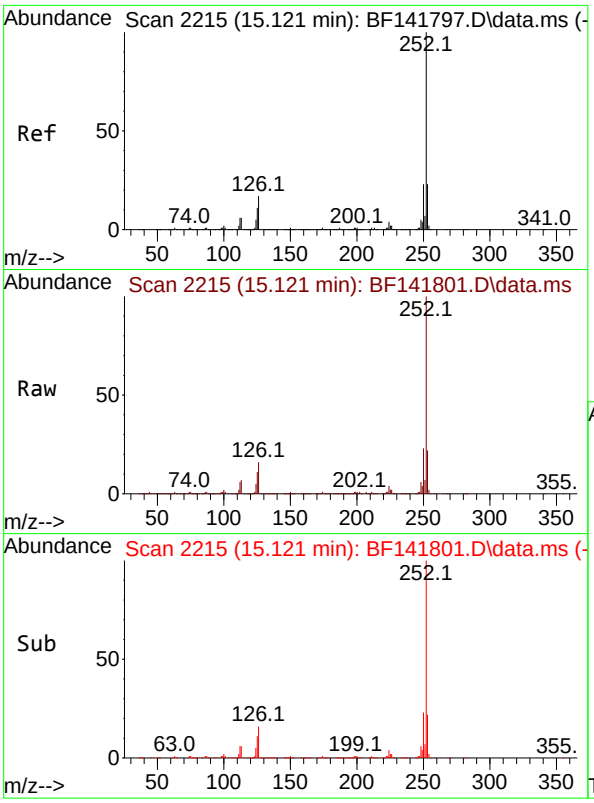




#88
Benzo(b)fluoranthene
Concen: 39.602 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:252 Resp: 1710890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.6 | 17.7 | 26.5 |
| 125 | 11.5 | 8.6 | 13.0 |



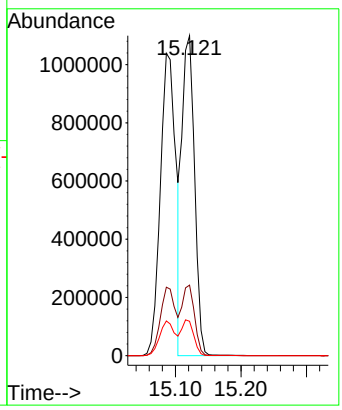


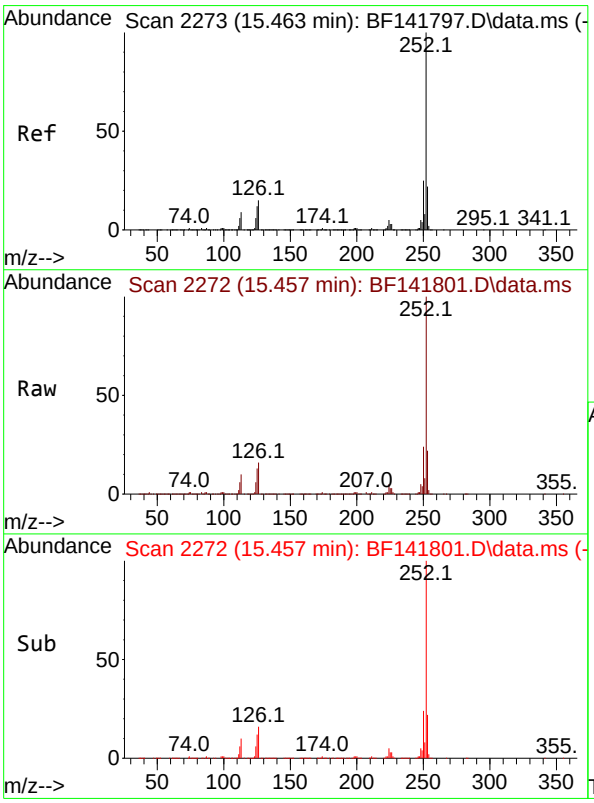

#89
Benzo(k)fluoranthene
Concen: 39.608 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:252 Resp: 1454422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 17.8 | 26.8 |
| 125 | 10.8 | 8.8 | 13.2 |

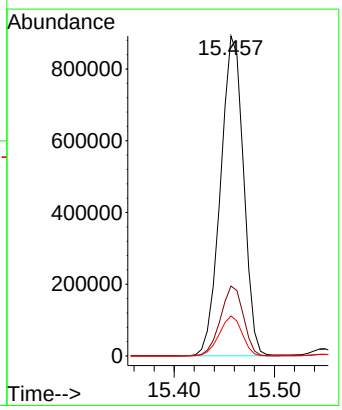


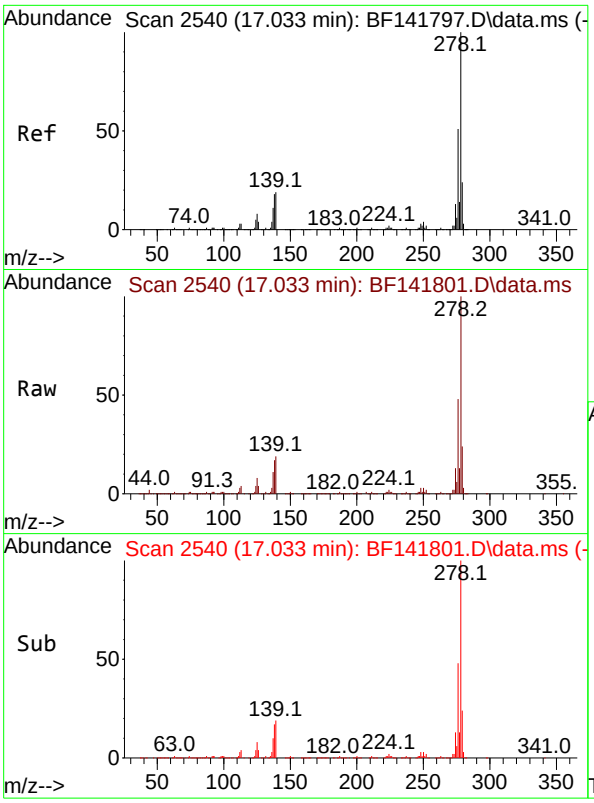




#90
Benzo(a)pyrene
Concen: 40.891 ng
RT: 15.457 min Scan# 2272
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:252 Resp: 1416788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.8 | 17.5 | 26.3 |
| 125 | 12.5 | 9.4 | 14.2 |



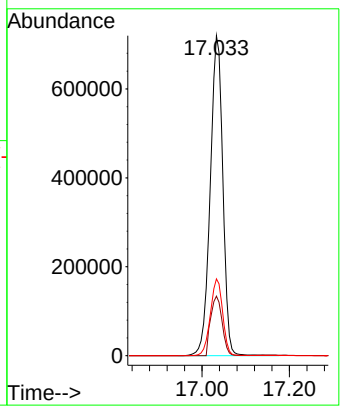


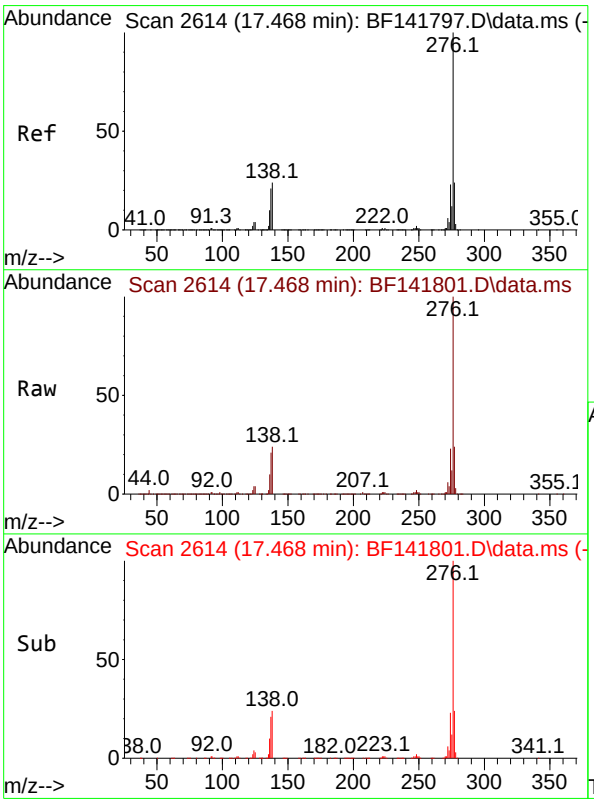

#91
Dibenzo(a,h)anthracene
Concen: 43.693 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Tgt Ion:278 Resp: 1440368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 18.6 | 14.9 | 22.3 |
| 279 | 24.0 | 19.3 | 28.9 |

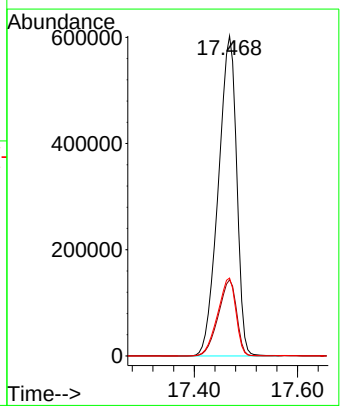



#92
Benzo(g,h,i)perylene
Concen: 43.969 ng
RT: 17.468 min Scan# 2614
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:276 Resp: 1484943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.8 | 19.4 | 29.0 |
| 138 | 24.4 | 19.3 | 28.9 |



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 | 117 | 0.00 |
| 2 | | 1,4-Dioxane | 0.568 | 0.589 | -3.7 | 116 | 0.00 |
| 3 | | Pyridine | 1.414 | 1.505 | -6.4 | 119 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.680 | 0.741 | -9.0 | 119 | 0.00 |
| 5 | S | 2-Fluorophenol | 1.252 | 1.291 | -3.1 | 117 | 0.00 |
| 6 | | Aniline | 1.695 | 1.816 | -7.1 | 117 | 0.00 |
| 7 | S | Phenol-d6 | 1.630 | 1.692 | -3.8 | 117 | 0.00 |
| 8 | | 2-Chlorophenol | 1.355 | 1.423 | -5.0 | 118 | 0.00 |
| 9 | | Benzaldehyde | 0.948 | 1.035 | -9.2 | 123 | 0.00 |
| 10 | C | Phenol | 1.742 | 1.812 | -4.0 | 116 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.328 | 1.386 | -4.4 | 121 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.451 | 1.505 | -3.7 | 117 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.462 | 1.501 | -2.7 | 116 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.365 | 1.394 | -2.1 | 116 | 0.00 |
| 15 | | Benzyl Alcohol | 1.303 | 1.386 | -6.4 | 118 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.016 | 2.151 | -6.7 | 121 | 0.00 |
| 17 | | 2-Methylphenol | 1.118 | 1.184 | -5.9 | 119 | 0.00 |
| 18 | | Hexachloroethane | 0.547 | 0.580 | -6.0 | 117 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.072 | 1.112 | -3.7 | 119 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.392 | 1.457 | -4.7 | 118 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 118 | 0.00 |
| 22 | | Acetophenone | 0.487 | 0.492 | -1.0 | 117 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.313 | 0.370 | -18.2 | 128 | 0.00 |
| 24 | | Nitrobenzene | 0.335 | 0.383 | -14.3 | 125 | 0.00 |
| 25 | | Isophorone | 0.672 | 0.688 | -2.4 | 119 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.127 | 0.169 | -33.1# | 139 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.247 | 0.259 | -4.9 | 120 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.429 | 0.433 | -0.9 | 118 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.285 | 0.300 | -5.3 | 119 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.312 | 0.318 | -1.9 | 118 | 0.00 |
| 31 | | Naphthalene | 1.028 | 1.024 | 0.4 | 116 | 0.00 |
| 32 | | Benzoic acid | 0.179 | 0.232 | -29.6# | 144 | 0.00 |
| 33 | | 4-Chloroaniline | 0.377 | 0.378 | -0.3 | 118 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.194 | 0.199 | -2.6 | 119 | 0.00 |
| 35 | | Caprolactam | 0.088 | 0.094 | -6.8 | 121 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 0.317 | 0.331 | -4.4 | 120 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.674 | 0.669 | 0.7 | 117 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.647 | 0.641 | 0.9 | 116 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 121 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.578 | 0.579 | -0.2 | 118 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.241 | 0.235 | 2.5 | 110 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.188 | 0.198 | -5.3 | 120 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.373 | 0.393 | -5.4 | 119 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.369 | 0.386 | -4.6 | 122 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 1.247 | 1.184 | 5.1 | 115 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.522 | 1.479 | 2.8 | 117 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.124 | 1.104 | 1.8 | 117 | 0.00 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 | 0.260 | 0.341 | -31.2# | 137 | 0.00 |
| 49 | | Acenaphthylene | 1.685 | 1.681 | 0.2 | 118 | 0.00 |
| 50 | | Dimethylphthalate | 1.339 | 1.348 | -0.7 | 119 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 0.226 | 0.282 | -24.8 | 132 | 0.00 |
| 52 | C | Acenaphthene | 1.137 | 1.151 | -1.2 | 121 | 0.00 |
| 53 | | 3-Nitroaniline | 0.241 | 0.298 | -23.7 | 130 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.089 | 0.117 | -31.5# | 152# | 0.00 |
| 55 | | Dibenzofuran | 1.654 | 1.629 | 1.5 | 118 | 0.00 |
| 56 | P | 4-Nitrophenol | 0.198 | 0.246 | -24.2 | 130 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 0.269 | 0.356 | -32.3# | 137 | 0.00 |
| 58 | | Fluorene | 1.239 | 1.194 | 3.6 | 117 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.321 | 0.342 | -6.5 | 122 | 0.00 |
| 60 | | Diethylphthalate | 1.343 | 1.339 | 0.3 | 117 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 0.621 | 0.598 | 3.7 | 116 | 0.00 |
| 62 | | 4-Nitroaniline | 0.229 | 0.279 | -21.8 | 126 | 0.00 |
| 63 | | Azobenzene | 1.414 | 1.420 | -0.4 | 119 | 0.00 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 117 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.081 | 0.106 | -30.9# | 143 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 0.657 | 0.664 | -1.1 | 117 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.234 | 0.237 | -1.3 | 117 | 0.00 |
| 68 | | Hexachlorobenzene | 0.247 | 0.251 | -1.6 | 117 | 0.00 |
| 69 | | Atrazine | 0.181 | 0.174 | 3.9 | 114 | 0.00 |
| 70 | C | Pentachlorophenol | 0.156 | 0.172 | -10.3 | 120 | 0.00 |
| 71 | | Phenanthrene | 1.070 | 1.056 | 1.3 | 115 | 0.00 |
| 72 | | Anthracene | 1.072 | 1.049 | 2.1 | 115 | 0.00 |
| 73 | | Carbazole | 0.947 | 0.931 | 1.7 | 114 | 0.00 |
| 74 | | Di-n-butylphthalate | 1.200 | 1.186 | 1.2 | 115 | 0.00 |
| 75 | C | Fluoranthene | 1.096 | 1.054 | 3.8 | 114 | 0.00 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 111 | 0.00 |
| 77 | | Benzidine | 0.252 | 0.472 | -87.3# | 201# | 0.00 |
| 78 | | Pyrene | 1.732 | 1.832 | -5.8 | 113 | 0.00 |
| 79 | S | Terphenyl-d14 | 1.236 | 1.268 | -2.6 | 111 | 0.00 |
| 80 | | Butylbenzylphthalate | 0.629 | 0.687 | -9.2 | 114 | 0.00 |
| 81 | | Benzo(a)anthracene | 1.321 | 1.329 | -0.6 | 112 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.379 | 0.411 | -8.4 | 116 | 0.00 |
| 83 | | Chrysene | 1.218 | 1.233 | -1.2 | 108 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.783 | 0.849 | -8.4 | 113 | 0.00 |
| 85 | c | Di-n-octyl phthalate | 1.173 | 1.350 | -15.1 | 114 | 0.00 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 112 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 1.274 | 1.393 | -9.3 | 116 | 0.00 |
| 88 | | Benzo(b)fluoranthene | 1.362 | 1.349 | 1.0 | 115 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 1.158 | 1.147 | 0.9 | 106 | 0.00 |
| 90 | C | Benzo(a)pyrene | 1.093 | 1.117 | -2.2 | 112 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 1.040 | 1.136 | -9.2 | 115 | 0.00 |
| 92 | | Benzo(g,h,i)perylene | 1.065 | 1.171 | -10.0 | 116 | 0.00 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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

# Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 | 117 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 41.486 | -3.7 | 116 | 0.00 |
| 3 | | Pyridine | 40.000 | 42.572 | -6.4 | 119 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 43.575 | -8.9 | 119 | 0.00 |
| 5 | S | 2-Fluorophenol | 80.000 | 82.443 | -3.1 | 117 | 0.00 |
| 6 | | Aniline | 40.000 | 42.857 | -7.1 | 117 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 83.039 | -3.8 | 117 | 0.00 |
| 8 | | 2-Chlorophenol | 40.000 | 42.011 | -5.0 | 118 | 0.00 |
| 9 | | Benzaldehyde | 40.000 | 43.684 | -9.2 | 123 | 0.00 |
| 10 | C | Phenol | 40.000 | 41.614 | -4.0 | 116 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 41.763 | -4.4 | 121 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 41.498 | -3.7 | 117 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 41.066 | -2.7 | 116 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 40.857 | -2.1 | 116 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 42.564 | -6.4 | 118 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 42.679 | -6.7 | 121 | 0.00 |
| 17 | | 2-Methylphenol | 40.000 | 42.365 | -5.9 | 119 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 42.366 | -5.9 | 117 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 41.525 | -3.8 | 119 | 0.00 |
| 20 | | 3+4-Methylphenols | 40.000 | 41.840 | -4.6 | 118 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 118 | 0.00 |
| 22 | | Acetophenone | 40.000 | 40.417 | -1.0 | 117 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 94.707 | -18.4 | 128 | 0.00 |
| 24 | | Nitrobenzene | 40.000 | 45.751 | -14.4 | 125 | 0.00 |
| 25 | | Isophorone | 40.000 | 40.944 | -2.4 | 119 | 0.00 |
| 26 | C | 2-Nitrophenol | 40.000 | 45.447 | -13.6 | 139 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 41.931 | -4.8 | 120 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 40.357 | -0.9 | 118 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 42.157 | -5.4 | 119 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 40.757 | -1.9 | 118 | 0.00 |
| 31 | | Naphthalene | 40.000 | 39.854 | 0.4 | 116 | 0.00 |
| 32 | | Benzoic acid | 40.000 | 45.545 | -13.9 | 144 | 0.00 |
| 33 | | 4-Chloroaniline | 40.000 | 40.096 | -0.2 | 118 | 0.00 |
| 34 | C | Hexachlorobutadiene | 40.000 | 41.042 | -2.6 | 119 | 0.00 |
| 35 | | Caprolactam | 40.000 | 42.737 | -6.8 | 121 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 41.844 | -4.6 | 120 | 0.00 |
| 37 | | 2-Methylnaphthalene | 40.000 | 39.710 | 0.7 | 117 | 0.00 |
| 38 | | 1-Methylnaphthalene | 40.000 | 39.635 | 0.9 | 116 | 0.00 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 121 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 40.086 | -0.2 | 118 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 38.975 | 2.6 | 110 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 84.321 | -5.4 | 120 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 42.156 | -5.4 | 119 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 41.806 | -4.5 | 122 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 80.000 | 75.957 | 5.1 | 115 | 0.00 |
| 46 | | 1,1'-Biphenyl | 40.000 | 38.864 | 2.8 | 117 | 0.00 |
| 47 | | 2-Chloronaphthalene | 40.000 | 39.288 | 1.8 | 117 | 0.00 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 | 44.684 | -11.7 | 137 | 0.00 |
| 49 | | Acenaphthylene | 40.000 | 39.907 | 0.2 | 118 | 0.00 |
| 50 | | Dimethylphthalate | 40.000 | 40.250 | -0.6 | 119 | 0.00 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 44.292 | -10.7 | 132 | 0.00 |
| 52 | C | Acenaphthene | 40.000 | 40.488 | -1.2 | 121 | 0.00 |
| 53 | | 3-Nitroaniline | 40.000 | 43.938 | -9.8 | 130 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 47.494 | -18.7 | 152 | 0.00 |
| 55 | | Dibenzofuran | 40.000 | 39.391 | 1.5 | 118 | 0.00 |
| 56 | P | 4-Nitrophenol | 40.000 | 49.725 | -24.3 | 130 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 45.704 | -14.3 | 137 | 0.00 |
| 58 | | Fluorene | 40.000 | 38.547 | 3.6 | 117 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 42.607 | -6.5 | 122 | 0.00 |
| 60 | | Diethylphthalate | 40.000 | 39.896 | 0.3 | 117 | 0.00 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 38.546 | 3.6 | 116 | 0.00 |
| 62 | | 4-Nitroaniline | 40.000 | 48.866 | -22.2 | 126 | 0.00 |
| 63 | | Azobenzene | 40.000 | 40.188 | -0.5 | 119 | 0.00 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 117 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 45.441 | -13.6 | 143 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 40.431 | -1.1 | 117 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 40.614 | -1.5 | 117 | 0.00 |
| 68 | | Hexachlorobenzene | 40.000 | 40.697 | -1.7 | 117 | 0.00 |
| 69 | | Atrazine | 40.000 | 38.463 | 3.8 | 114 | 0.00 |
| 70 | C | Pentachlorophenol | 40.000 | 44.032 | -10.1 | 120 | 0.00 |
| 71 | | Phenanthrene | 40.000 | 39.475 | 1.3 | 115 | 0.00 |
| 72 | | Anthracene | 40.000 | 39.126 | 2.2 | 115 | 0.00 |
| 73 | | Carbazole | 40.000 | 39.317 | 1.7 | 114 | 0.00 |
| 74 | | Di-n-butylphthalate | 40.000 | 39.540 | 1.2 | 115 | 0.00 |
| 75 | C | Fluoranthene | 40.000 | 38.448 | 3.9 | 114 | 0.00 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 111 | 0.00 |
| 77 | | Benzidine | 40.000 | 74.959 | -87.4# | 201 | 0.00 |
| 78 | | Pyrene | 40.000 | 42.307 | -5.8 | 113 | 0.00 |
| 79 | S | Terphenyl-d14 | 80.000 | 82.060 | -2.6 | 111 | 0.00 |
| 80 | | Butylbenzylphthalate | 40.000 | 43.655 | -9.1 | 114 | 0.00 |
| 81 | | Benzo(a)anthracene | 40.000 | 40.236 | -0.6 | 112 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 43.392 | -8.5 | 116 | 0.00 |
| 83 | | Chrysene | 40.000 | 40.491 | -1.2 | 108 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 43.350 | -8.4 | 113 | 0.00 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 46.033 | -15.1 | 114 | 0.00 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 112 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 40.000 | 43.754 | -9.4 | 116 | 0.00 |
| 88 | | Benzo(b)fluoranthene | 40.000 | 39.602 | 1.0 | 115 | 0.00 |
| 89 | | Benzo(k)fluoranthene | 40.000 | 39.608 | 1.0 | 106 | 0.00 |
| 90 | C | Benzo(a)pyrene | 40.000 | 40.891 | -2.2 | 112 | 0.00 |
| 91 | | Dibenzo(a,h)anthracene | 40.000 | 43.693 | -9.2 | 115 | 0.00 |
| 92 | | Benzo(g,h,i)perylene | 40.000 | 43.969 | -9.9 | 116 | 0.00 |

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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

Raw Data: **BF141835.D**

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1485 SAS No.: Q1485 SDG No.: Q1485

Instrument ID: BNA_F Calibration Date/Time: 03/05/2025 10:09

Lab File ID: BF141835.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.252 | 1.263 | | 0.9 | |
| Benzaldehyde | 0.948 | 0.834 | | -12.0 | |
| Phenol-d6 | 1.630 | 1.613 | | -1.0 | |
| Phenol | 1.742 | 1.734 | | -0.5 | 20.0 |
| bis(2-Chloroethyl)ether | 1.328 | 1.232 | | -7.2 | |
| 2-Chlorophenol | 1.355 | 1.354 | | -0.1 | |
| 2-Methylphenol | 1.118 | 1.094 | | -2.1 | |
| 2,2-oxybis(1-Chloropropane) | 2.016 | 1.771 | | -12.2 | |
| Acetophenone | 0.487 | 0.480 | | -1.4 | |
| 3+4-Methylphenols | 1.392 | 1.384 | | -0.6 | |
| n-Nitroso-di-n-propylamine | 1.072 | 0.955 | 0.050 | -10.9 | |
| Nitrobenzene-d5 | 0.313 | 0.371 | | 18.5 | |
| Hexachloroethane | 0.547 | 0.522 | | -4.6 | |
| Nitrobenzene | 0.335 | 0.375 | | 11.9 | |
| Isophorone | 0.672 | 0.633 | | -5.8 | |
| 2-Nitrophenol | 0.127 | 0.179 | | 40.9 | 20.0 |
| 2,4-Dimethylphenol | 0.247 | 0.248 | | 0.4 | |
| bis(2-Chloroethoxy)methane | 0.429 | 0.395 | | -7.9 | |
| 2,4-Dichlorophenol | 0.285 | 0.291 | | 2.1 | 20.0 |
| Naphthalene | 1.028 | 1.017 | | -1.1 | |
| 4-Chloroaniline | 0.377 | 0.378 | | 0.3 | |
| Hexachlorobutadiene | 0.194 | 0.187 | | -3.6 | 20.0 |
| Caprolactam | 0.088 | 0.098 | | 11.4 | |
| 4-Chloro-3-methylphenol | 0.317 | 0.324 | | 2.2 | 20.0 |
| 2-Methylnaphthalene | 0.674 | 0.657 | | -2.5 | |
| Hexachlorocyclopentadiene | 0.241 | 0.235 | 0.050 | -2.5 | |
| 2,4,6-Trichlorophenol | 0.373 | 0.395 | | 5.9 | 20.0 |
| 2-Fluorobiphenyl | 1.247 | 1.230 | | -1.4 | |
| 2,4,5-Trichlorophenol | 0.369 | 0.412 | | 11.7 | |
| 1,1-Biphenyl | 1.522 | 1.505 | | -1.1 | |
| 2-Chloronaphthalene | 1.124 | 1.144 | | 1.8 | |
| 2-Nitroaniline | 0.260 | 0.374 | | 43.8 | |
| Dimethylphthalate | 1.339 | 1.326 | | -1.0 | |
| Acenaphthylene | 1.685 | 1.726 | | 2.4 | |
| 2,6-Dinitrotoluene | 0.226 | 0.297 | | 31.4 | |
| 3-Nitroaniline | 0.241 | 0.328 | | 36.1 | |
| Acenaphthene | 1.137 | 1.188 | | 4.5 | 20.0 |
| 2,4-Dinitrophenol | 0.089 | 0.149 | 0.050 | 67.4 | |
| 4-Nitrophenol | 0.198 | 0.283 | 0.050 | 42.9 | |

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1485 SAS No.: Q1485 SDG No.: Q1485

Instrument ID: BNA_F Calibration Date/Time: 03/05/2025 10:09

Lab File ID: BF141835.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.654 | 1.670 | | 1.0 | |
| 2,4-Dinitrotoluene | 0.269 | 0.392 | | 45.7 | |
| Diethylphthalate | 1.343 | 1.320 | | -1.7 | |
| 4-Chlorophenyl-phenylether | 0.621 | 0.606 | | -2.4 | |
| Fluorene | 1.239 | 1.253 | | 1.1 | |
| 4-Nitroaniline | 0.229 | 0.330 | | 44.1 | |
| 4,6-Dinitro-2-methylphenol | 0.081 | 0.122 | | 50.6 | |
| n-Nitrosodiphenylamine | 0.657 | 0.638 | | -2.9 | 20.0 |
| 2,4,6-Tribromophenol | 0.188 | 0.210 | | 11.7 | |
| 4-Bromophenyl-phenylether | 0.234 | 0.223 | | -4.7 | |
| Hexachlorobenzene | 0.247 | 0.245 | | -0.8 | |
| Atrazine | 0.181 | 0.156 | | -13.8 | |
| Pentachlorophenol | 0.156 | 0.176 | | 12.8 | 20.0 |
| Phenanthrene | 1.070 | 1.082 | | 1.1 | |
| Anthracene | 1.072 | 1.088 | | 1.5 | |
| Carbazole | 0.947 | 0.990 | | 4.5 | |
| Di-n-butylphthalate | 1.200 | 1.131 | | -5.8 | |
| Fluoranthene | 1.096 | 1.157 | | 5.6 | 20.0 |
| Pyrene | 1.732 | 1.722 | | -0.6 | |
| Terphenyl-d14 | 1.236 | 1.190 | | -3.7 | |
| Butylbenzylphthalate | 0.629 | 0.646 | | 2.7 | |
| 3,3-Dichlorobenzidine | 0.379 | 0.382 | | 0.8 | |
| Benzo(a)anthracene | 1.321 | 1.308 | | -1.0 | |
| Chrysene | 1.218 | 1.190 | | -2.3 | |
| Bis(2-ethylhexyl)phthalate | 0.783 | 0.807 | | 3.1 | |
| Di-n-octyl phthalate | 1.173 | 1.132 | | -3.5 | 20.0 |
| Benzo(b)fluoranthene | 1.362 | 1.368 | | 0.4 | |
| Benzo(k)fluoranthene | 1.158 | 1.057 | | -8.7 | |
| Benzo(a)pyrene | 1.093 | 1.074 | | -1.7 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.274 | 1.310 | | 2.8 | |
| Dibenzo(a,h)anthracene | 1.040 | 1.067 | | 2.6 | |
| Benzo(g,h,i)perylene | 1.065 | 1.105 | | 3.8 | |
| 1,2,4,5-Tetrachlorobenzene | 0.578 | 0.577 | | -0.2 | |
| 1,4-Dioxane | 0.568 | 0.571 | | 0.5 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.321 | 0.351 | | 9.3 | |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.887 | 152 | 246608 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 945299 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.922 | 164 | 507589 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.404 | 188 | 873644 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.045 | 240 | 595765 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.510 | 264 | 513355 | 20.000 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.498 | 112 | 1246062 | 80.693 | ng | 0.00 |
| 7) Phenol-d6 | 6.510 | 99 | 1590960 | 79.155 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.445 | 82 | 1402310 | 94.823 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.710 | 330 | 425699 | 89.332 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.239 | 172 | 2496418 | 78.861 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.992 | 244 | 2834884 | 76.987 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.681 | 88 | 281849 | 40.225 | ng | 99 |
| 3) Pyridine | 3.452 | 79 | 705001 | 40.439 | ng | 98 |
| 4) n-Nitrosodimethylamine | 3.393 | 42 | 341742 | 40.740 | ng | 97 |
| 6) Aniline | 6.551 | 93 | 828160 | 39.633 | ng | 99 |
| 8) 2-Chlorophenol | 6.669 | 128 | 667898 | 39.983 | ng | 99 |
| 9) Benzaldehyde | 6.440 | 77 | 411185 | 35.170 | ng | 98 |
| 10) Phenol | 6.522 | 94 | 855332 | 39.824 | ng | 98 |
| 11) bis(2-Chloroethyl)ether | 6.622 | 93 | 607625 | 37.114 | ng | 99 |
| 12) 1,3-Dichlorobenzene | 6.828 | 146 | 705872 | 39.458 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 6.904 | 146 | 715372 | 39.687 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 664849 | 39.499 | ng | 100 |
| 15) Benzyl Alcohol | 7.022 | 79 | 627467 | 39.062 | ng | 100 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 873469 | 35.131 | ng | 99 |
| 17) 2-Methylphenol | 7.128 | 107 | 539412 | 39.120 | ng | 99 |
| 18) Hexachloroethane | 7.398 | 117 | 257495 | 38.167 | ng | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.298 | 70 | 470848 | 35.637 | ng | 100 |
| 20) 3+4-Methylphenols | 7.281 | 107 | 682535 | 39.753 | ng | 95 |
| 22) Acetophenone | 7.292 | 105 | 907232 | 39.406 | ng | 98 |
| 24) Nitrobenzene | 7.469 | 77 | 708702 | 44.751 | ng | 99 |
| 25) Isophorone | 7.704 | 82 | 1195819 | 37.638 | ng | 99 |
| 26) 2-Nitrophenol | 7.781 | 139 | 337701 | 47.760 | ng | 99 |
| 27) 2,4-Dimethylphenol | 7.810 | 122 | 469729 | 40.220 | ng | 100 |
| 28) bis(2-Chloroethoxy)met... | 7.916 | 93 | 747705 | 36.892 | ng | 99 |
| 29) 2,4-Dichlorophenol | 8.016 | 162 | 550338 | 40.846 | ng | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 590525 | 39.998 | ng | 99 |
| 31) Naphthalene | 8.192 | 128 | 1922662 | 39.574 | ng | 99 |
| 32) Benzoic acid | 7.922 | 122 | 468479 | 48.051 | ng | 99 |
| 33) 4-Chloroaniline | 8.234 | 127 | 714189 | 40.091 | ng | 100 |
| 34) Hexachlorobutadiene | 8.304 | 225 | 354160 | 38.603 | ng | 99 |
| 35) Caprolactam | 8.604 | 113 | 185176 | 44.676 | ng | 93 |
| 36) 4-Chloro-3-methylphenol | 8.710 | 107 | 612816 | 40.944 | ng | 97 |
| 37) 2-Methylnaphthalene | 8.881 | 142 | 1241689 | 38.964 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.981 | 142 | 1218817 | 39.860 | ng | 100 |
| 40) 1,2,4,5-Tetrachloroben... | 9.045 | 216 | 585654 | 39.950 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.034 | 237 | 238457 | 38.977 | ng | 99 |
| 43) 2,4,6-Trichlorophenol | 9.151 | 196 | 400730 | 42.317 | ng | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

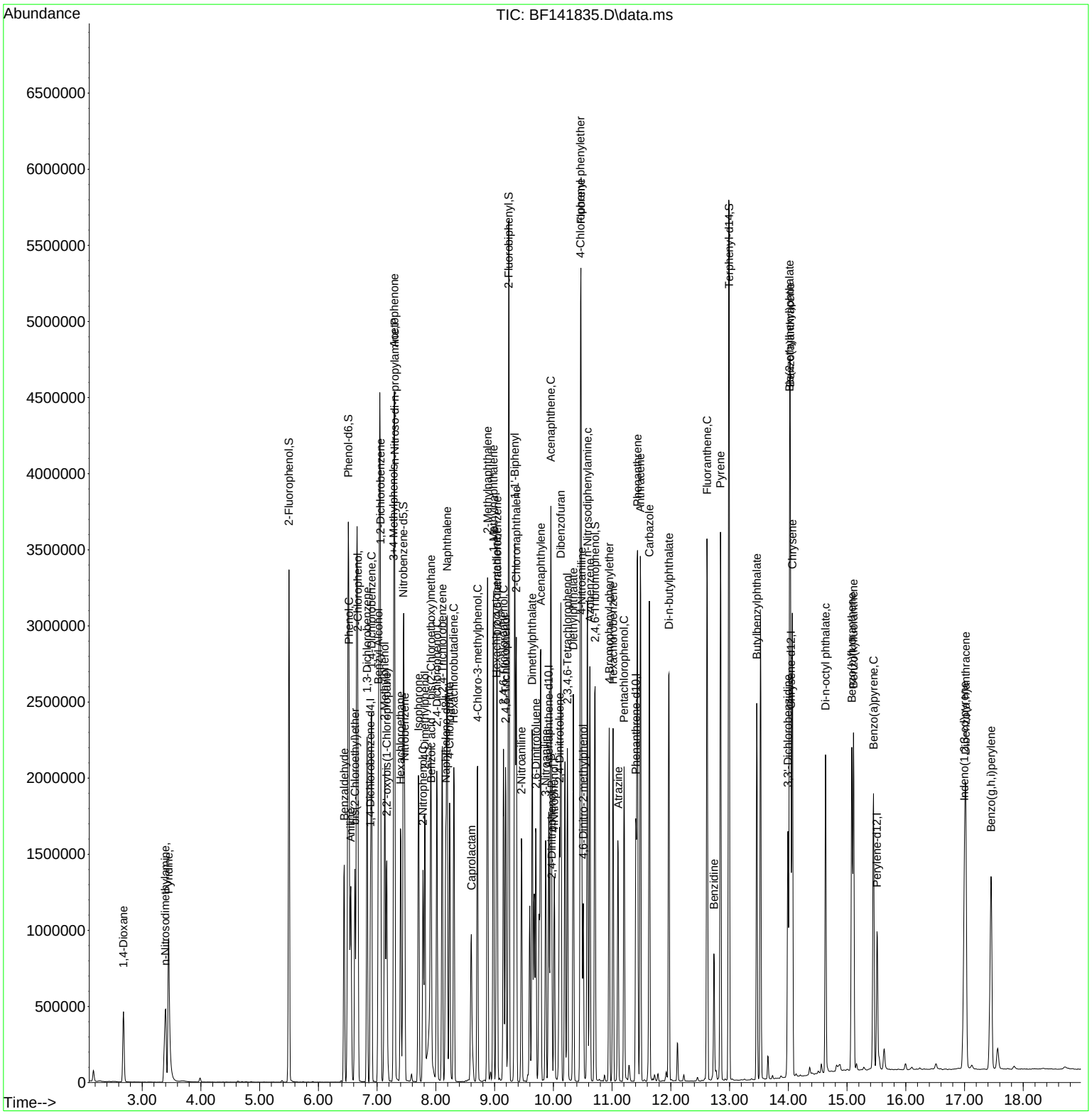
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.186 | 196 | 418618 | 44.643 | ng | | 100 |
| 46) 1,1'-Biphenyl | 9.345 | 154 | 1527684 | 39.541 | ng | | 100 |
| 47) 2-Chloronaphthalene | 9.369 | 162 | 1161554 | 40.733 | ng | | 99 |
| 48) 2-Nitroaniline | 9.457 | 65 | 379633 | 48.579 | ng | | 99 |
| 49) Acenaphthylene | 9.786 | 152 | 1752309 | 40.985 | ng | | 99 |
| 50) Dimethylphthalate | 9.639 | 163 | 1345931 | 39.595 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.704 | 165 | 301676 | 46.487 | ng | | 91 |
| 52) Acenaphthene | 9.957 | 154 | 1206437 | 41.819 | ng | | 99 |
| 53) 3-Nitroaniline | 9.869 | 138 | 332516 | 48.006 | ng | # | 96 |
| 54) 2,4-Dinitrophenol | 9.975 | 184 | 151609 | 57.060 | ng | # | 1 |
| 55) Dibenzofuran | 10.128 | 168 | 1695006 | 40.368 | ng | | 99 |
| 56) 4-Nitrophenol | 10.016 | 139 | 287143 | 57.194 | ng | | 98 |
| 57) 2,4-Dinitrotoluene | 10.104 | 165 | 398234 | 49.981 | ng | | 93 |
| 58) Fluorene | 10.469 | 166 | 1272485 | 40.458 | ng | | 99 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232 | 356479 | 43.711 | ng | | 99 |
| 60) Diethylphthalate | 10.339 | 149 | 1340314 | 39.332 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204 | 615259 | 39.043 | ng | | 99 |
| 62) 4-Nitroaniline | 10.480 | 138 | 334806 | 57.675 | ng | | 95 |
| 63) Azobenzene | 10.622 | 77 | 1373599 | 38.283 | ng | | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.510 | 198 | 213658 | 51.268 | ng | | 94 |
| 66) n-Nitrosodiphenylamine | 10.581 | 169 | 1114485 | 38.849 | ng | | 100 |
| 67) 4-Bromophenyl-phenylether | 10.951 | 248 | 389763 | 38.195 | ng | | 97 |
| 68) Hexachlorobenzene | 11.016 | 284 | 427268 | 39.651 | ng | | 99 |
| 69) Atrazine | 11.104 | 200 | 272033 | 34.483 | ng | | 98 |
| 70) Pentachlorophenol | 11.204 | 266 | 308128 | 45.085 | ng | | 99 |
| 71) Phenanthrene | 11.433 | 178 | 1890507 | 40.455 | ng | | 99 |
| 72) Anthracene | 11.480 | 178 | 1901419 | 40.598 | ng | | 99 |
| 73) Carbazole | 11.633 | 167 | 1730017 | 41.829 | ng | | 100 |
| 74) Di-n-butylphthalate | 11.969 | 149 | 1976148 | 37.694 | ng | | 99 |
| 75) Fluoranthene | 12.616 | 202 | 2021622 | 42.219 | ng | | 99 |
| 77) Benzidine | 12.733 | 184 | 455419 | 60.734 | ng | | 100 |
| 78) Pyrene | 12.845 | 202 | 2051898 | 39.773 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.463 | 149 | 769482 | 41.053 | ng | | 99 |
| 81) Benzo(a)anthracene | 14.033 | 228 | 1559065 | 39.619 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 13.992 | 252 | 454914 | 40.293 | ng | | 99 |
| 83) Chrysene | 14.069 | 228 | 1417476 | 39.076 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.021 | 149 | 961512 | 41.198 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.633 | 149 | 1348427 | 38.592 | ng | | 99 |
| 87) Indeno(1,2,3-cd)pyrene | 16.998 | 276 | 1345046 | 41.147 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 15.080 | 252 | 1404956 | 40.178 | ng | | 100 |
| 89) Benzo(k)fluoranthene | 15.110 | 252 | 1085559 | 36.524 | ng | | 100 |
| 90) Benzo(a)pyrene | 15.451 | 252 | 1102749 | 39.322 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.021 | 278 | 1095326 | 41.050 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.451 | 276 | 1134958 | 41.520 | ng | | 99 |

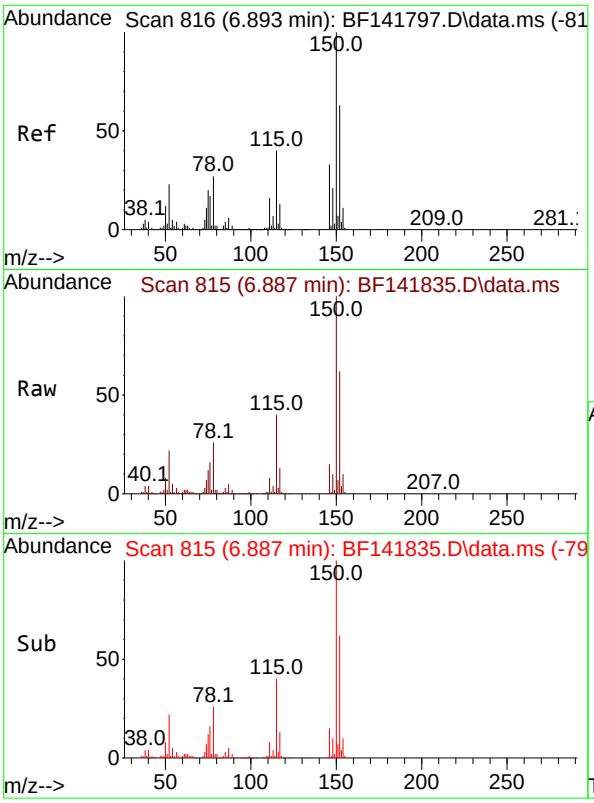
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



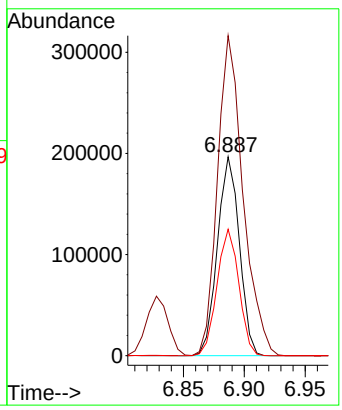


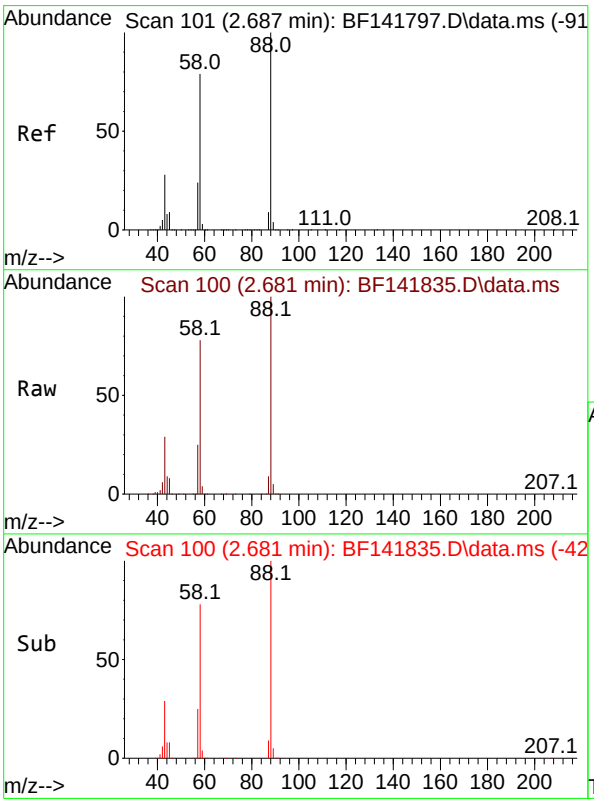

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:152 Resp: 246608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.8 | 127.5 | 191.3 |
| 115 | 63.6 | 51.4 | 77.2 |

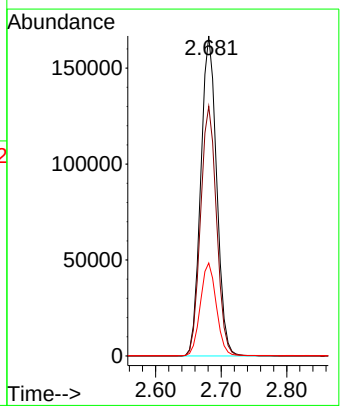


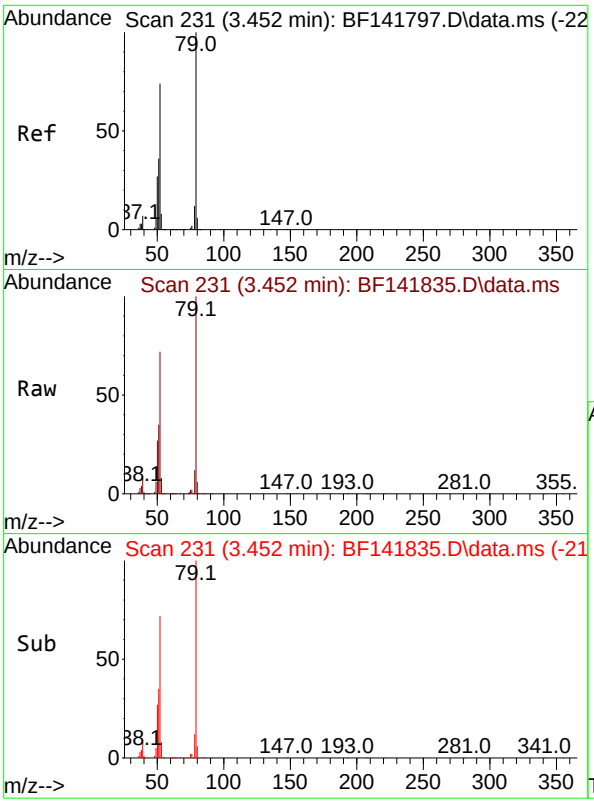




#2
1,4-Dioxane
Concen: 40.225 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 88 Resp: 281849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 78.5 | 63.9 | 95.9 |
| 43 | 28.9 | 23.0 | 34.6 |



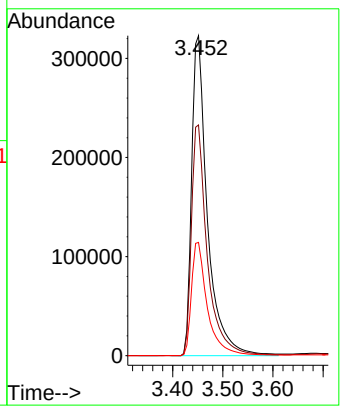


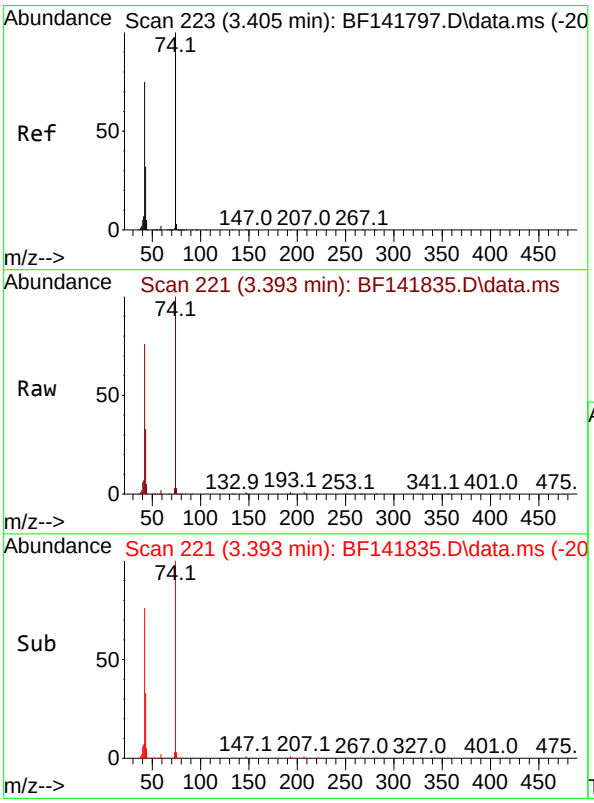

#3
Pyridine
Concen: 40.439 ng
RT: 3.452 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 79 Resp: 705001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 72.1 | 59.0 | 88.4 |
| 51 | 35.4 | 29.0 | 43.4 |

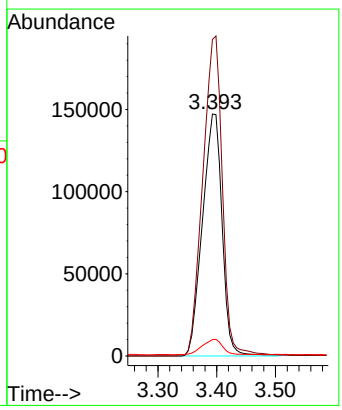


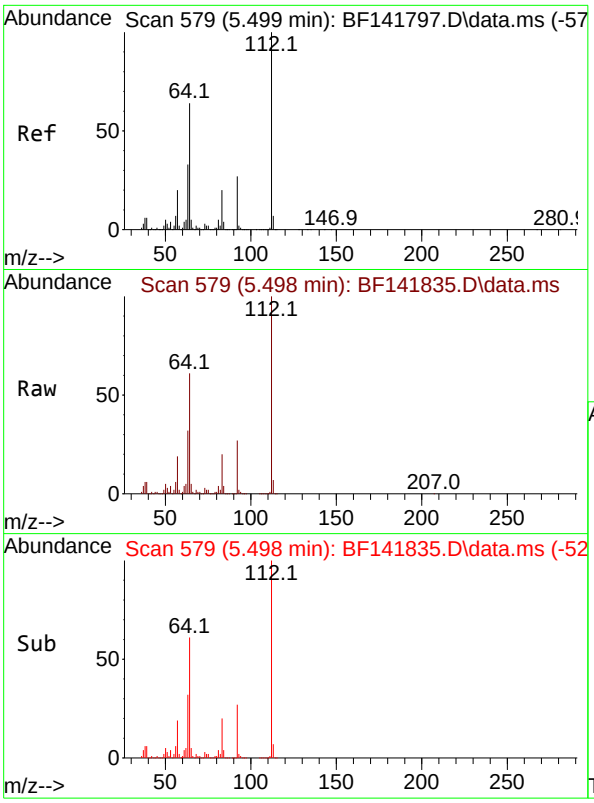




#4
n-Nitrosodimethylamine
Concen: 40.740 ng
RT: 3.393 min Scan# 221
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 42 Resp: 341742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 130.9 | 107.1 | 160.7 |
| 44 | 6.7 | 6.6 | 9.8 |



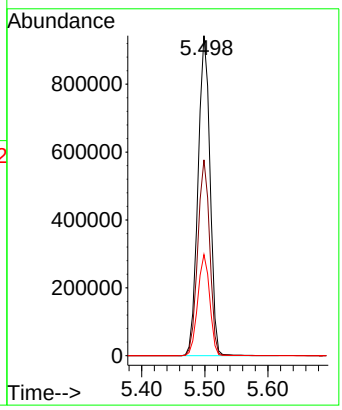


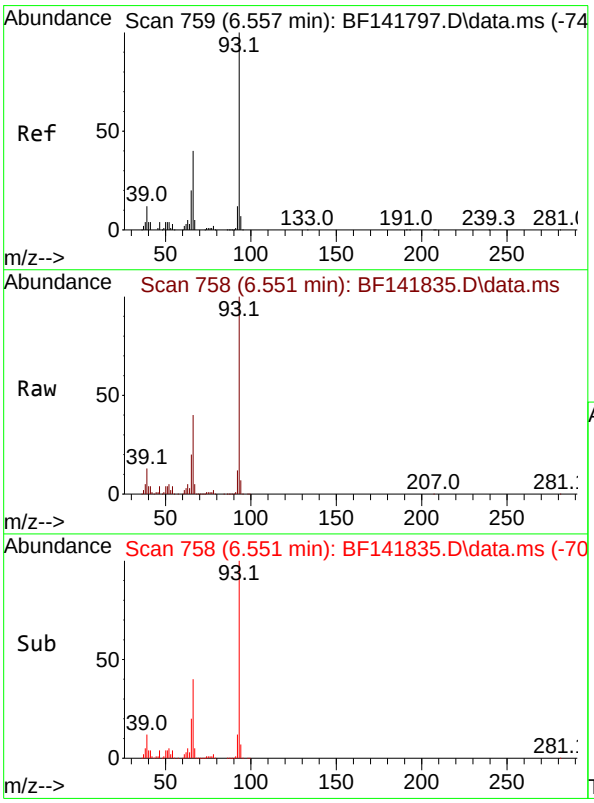

#5
2-Fluorophenol
Concen: 80.693 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:112 Resp: 1246062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 61.2 | 51.3 | 76.9 |
| 63 | 31.6 | 26.2 | 39.4 |

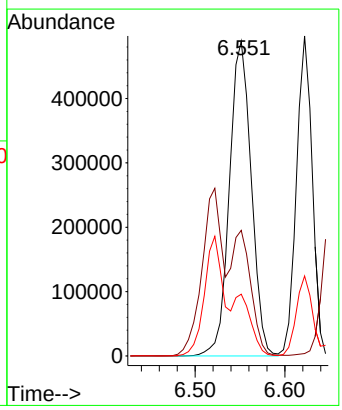


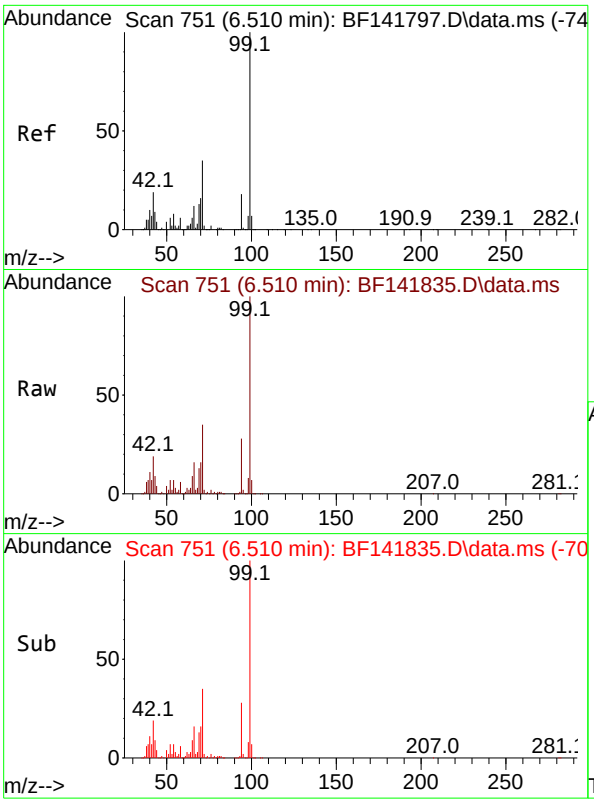




#6
Aniline
Concen: 39.633 ng
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 93 Resp: 828160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 39.9 | 32.3 | 48.5 |
| 65 | 19.6 | 15.9 | 23.9 |



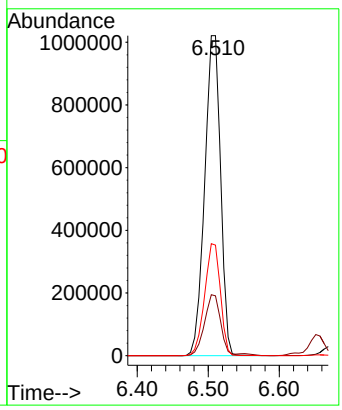


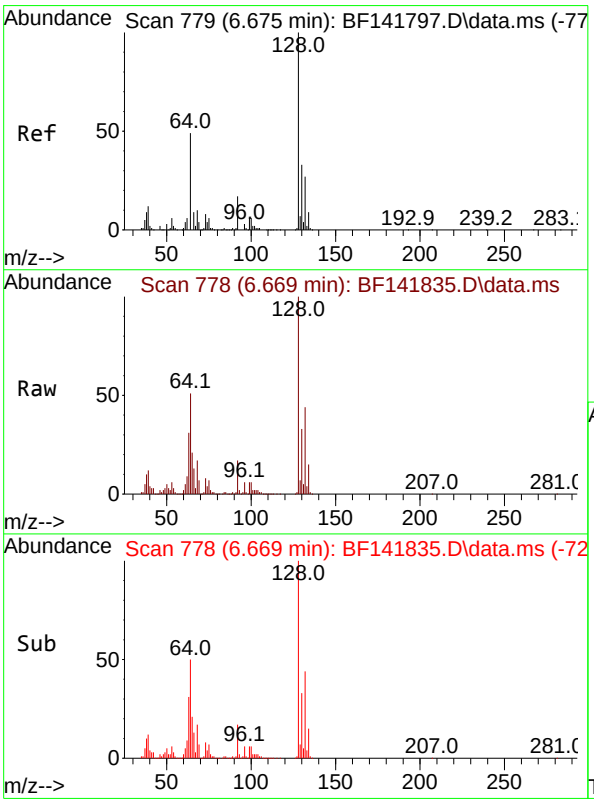

#7
Phenol-d6
Concen: 79.155 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 99 Resp: 1590960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.7 | 15.2 | 22.8 |
| 71 | 34.6 | 28.2 | 42.2 |

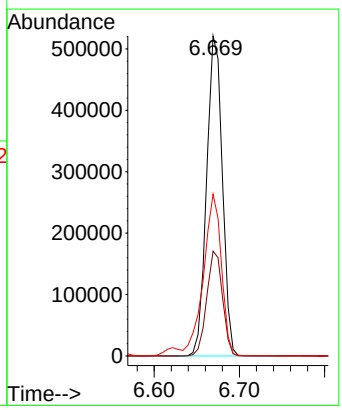


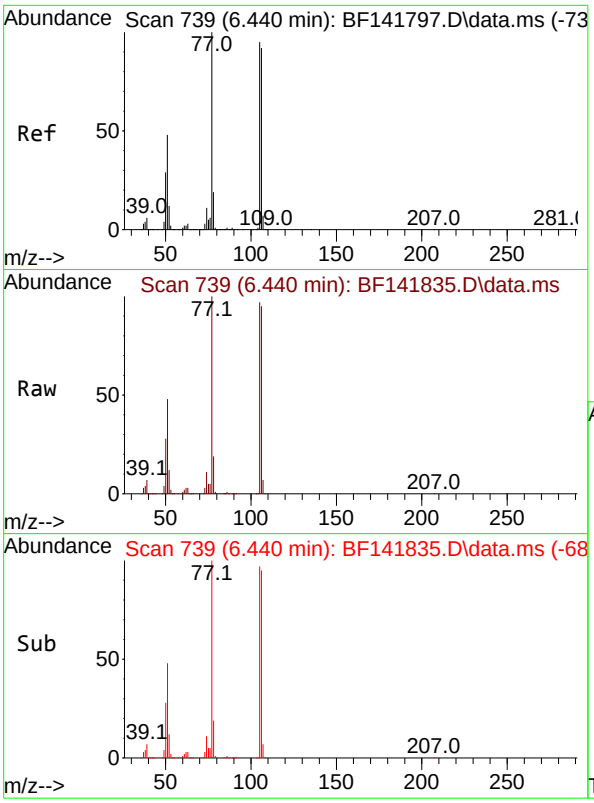




#8
2-Chlorophenol
Concen: 39.983 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:128 Resp: 667898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.8 | 12.6 | 52.6 |
| 64 | 50.5 | 31.1 | 71.1 |



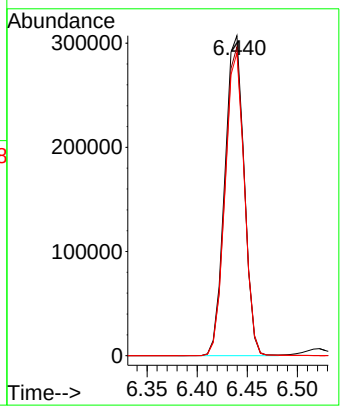


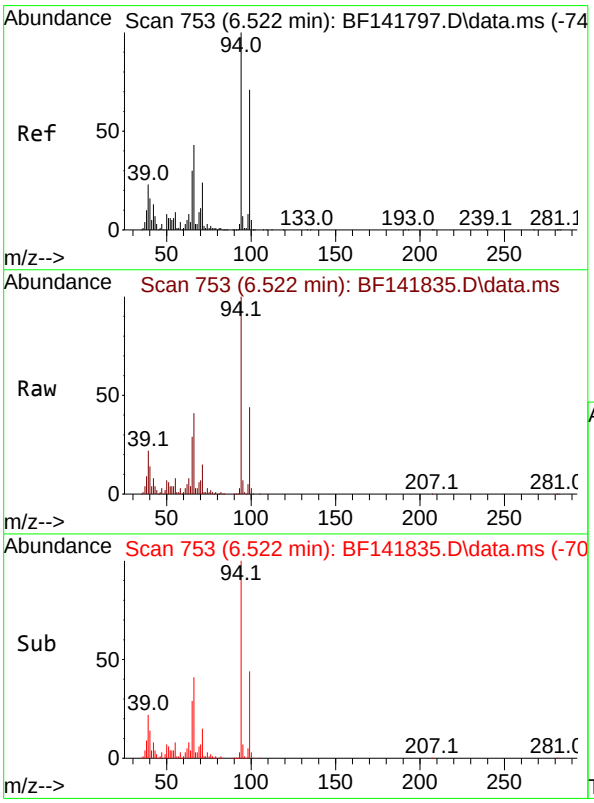

#9
Benzaldehyde
Concen: 35.170 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 77 Resp: 411185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 96.5 | 75.3 | 115.3 |
| 106 | 94.6 | 72.3 | 112.3 |

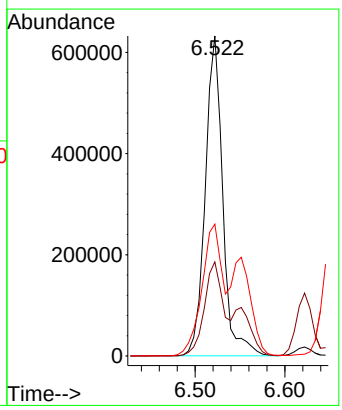


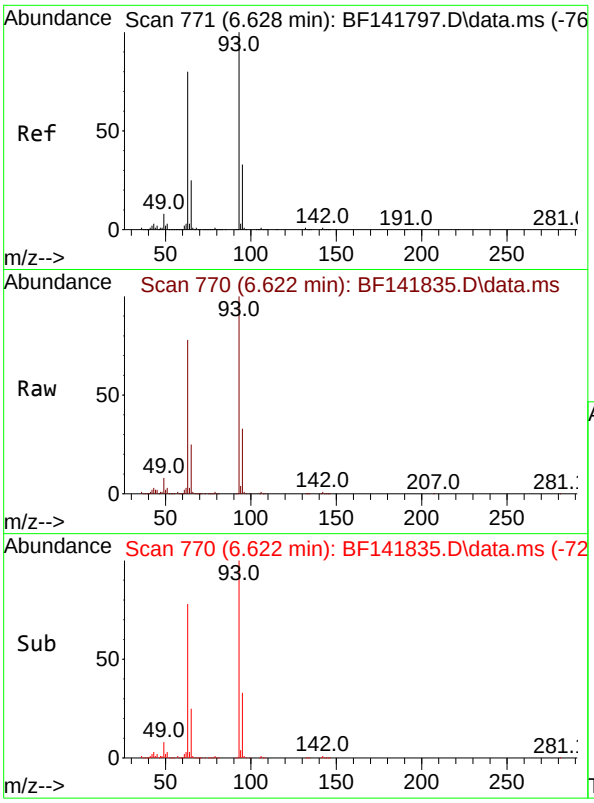




#10
Phenol
Concen: 39.824 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 94 Resp: 855332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 29.4 | 10.2 | 50.2 |
| 66 | 41.2 | 23.2 | 63.2 |



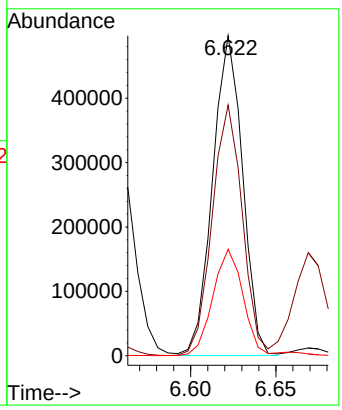


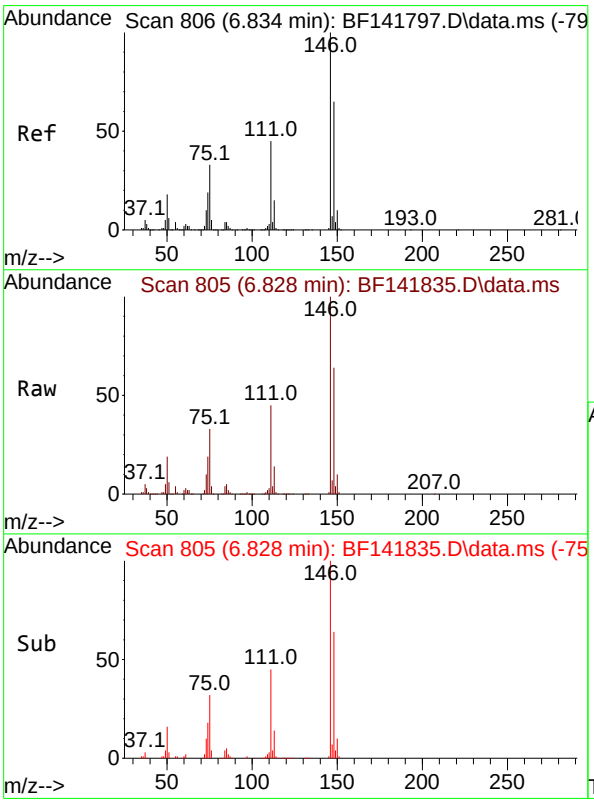

#11
bis(2-Chloroethyl)ether
Concen: 37.114 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 93 Resp: 607625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 78.3 | 59.3 | 99.3 |
| 95 | 33.2 | 13.2 | 53.2 |

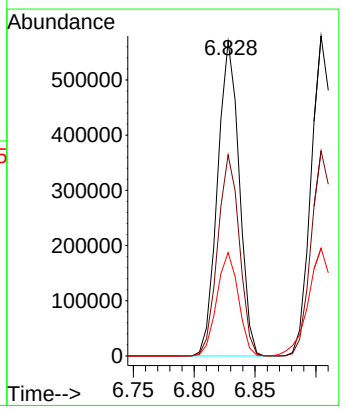


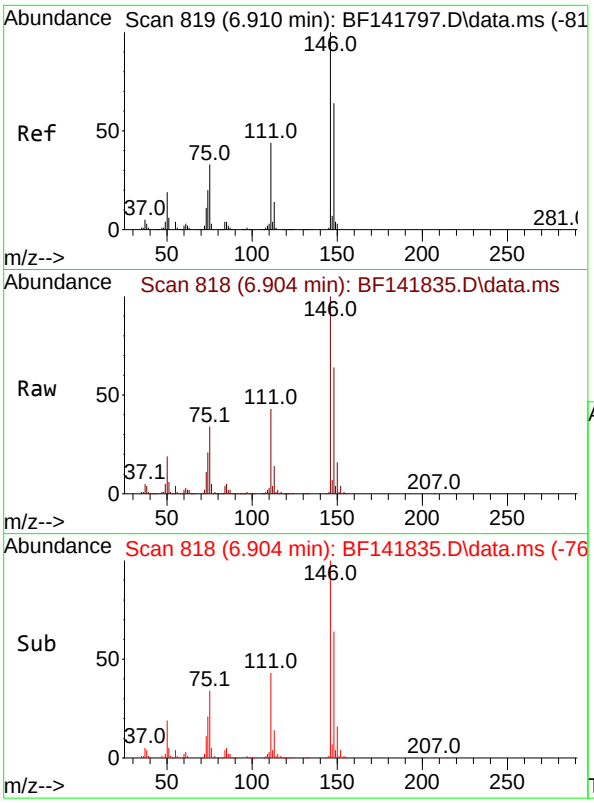




#12
1,3-Dichlorobenzene
Concen: 39.458 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:146 Resp: 705872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.9 | 51.8 | 77.6 |
| 75 | 32.9 | 26.2 | 39.4 |



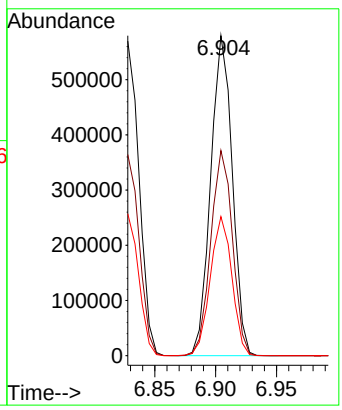


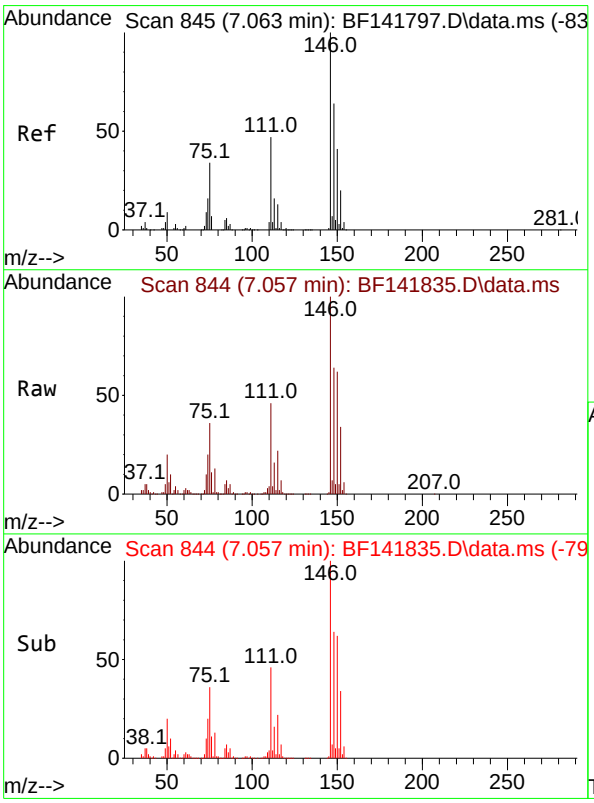

#13
1,4-Dichlorobenzene
Concen: 39.687 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:146 Resp: 715372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.1 | 51.4 | 77.2 |
| 111 | 43.5 | 35.5 | 53.3 |

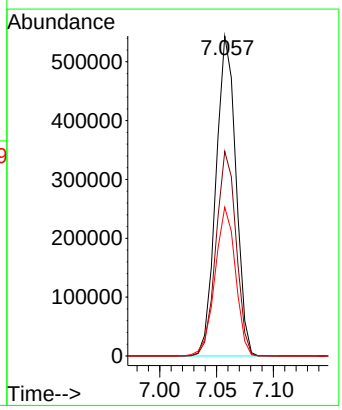


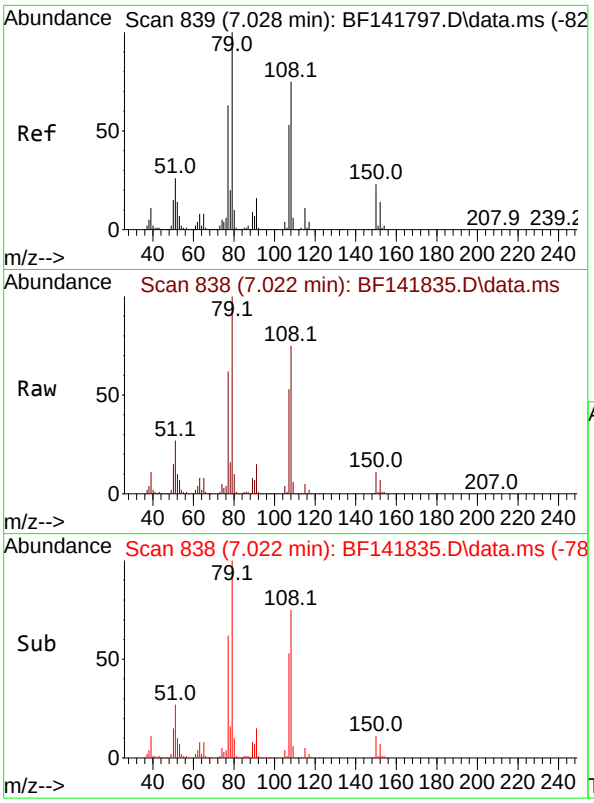




#14
1,2-Dichlorobenzene
Concen: 39.499 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:146 Resp: 664849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.9 | 51.2 | 76.8 |
| 111 | 46.5 | 37.8 | 56.6 |



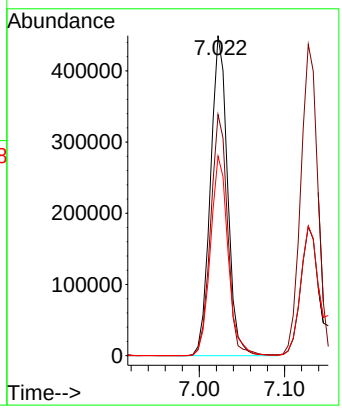


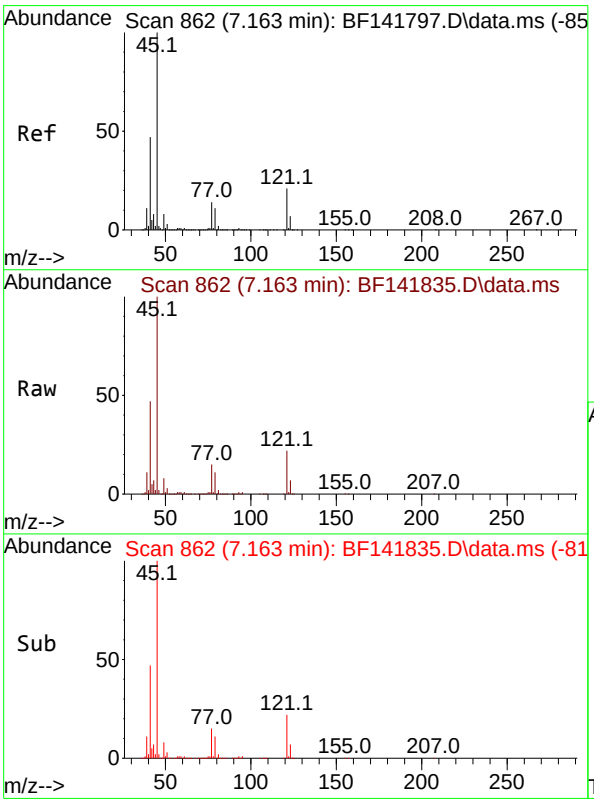

#15
Benzyl Alcohol
Concen: 39.062 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 79 Resp: 627467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 75.4 | 60.2 | 90.2 |
| 77 | 62.4 | 50.2 | 75.2 |

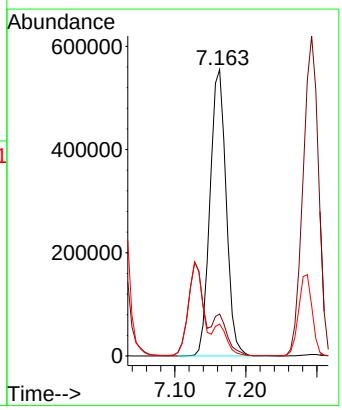


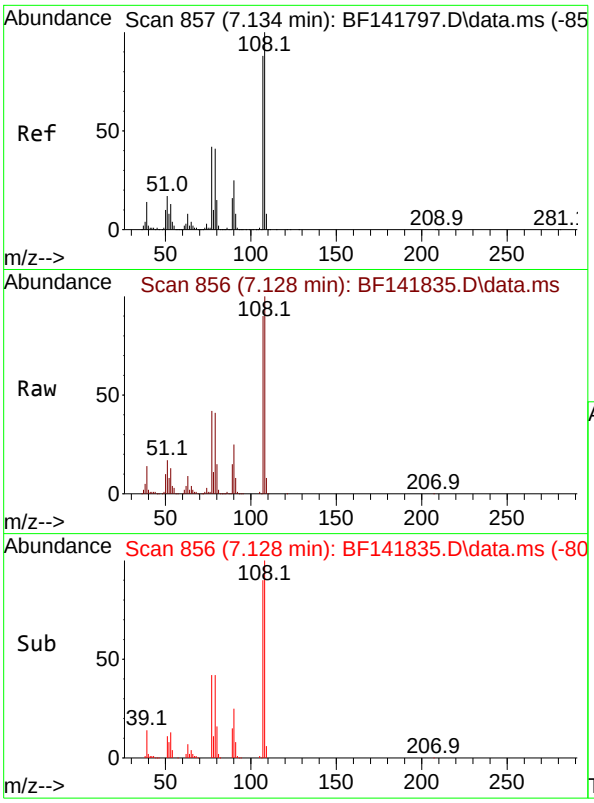




#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.131 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 45 Resp: 873469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 14.6 | 0.0 | 34.4 |
| 79 | 11.1 | 0.0 | 30.9 |



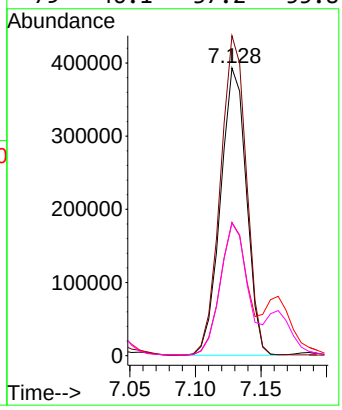


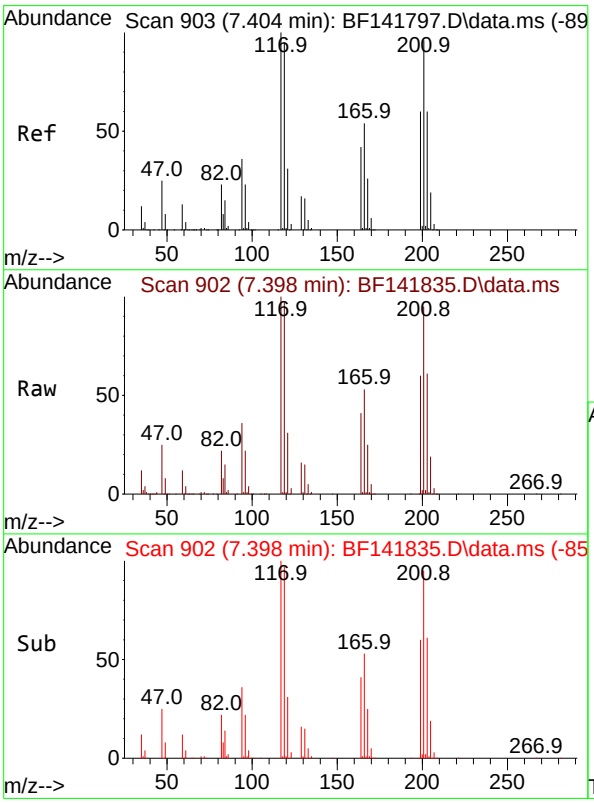

#17
2-Methylphenol
Concen: 39.120 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:107 Resp: 539412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 111.2 | 90.6 | 135.8 |
| 77 | 46.3 | 37.7 | 56.5 |
| 79 | 46.1 | 37.2 | 55.8 |

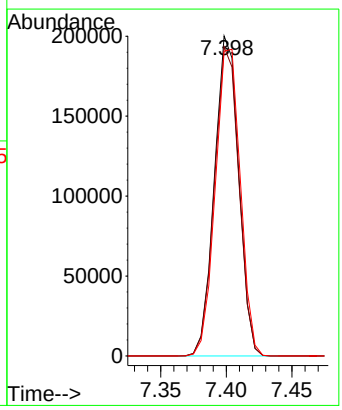


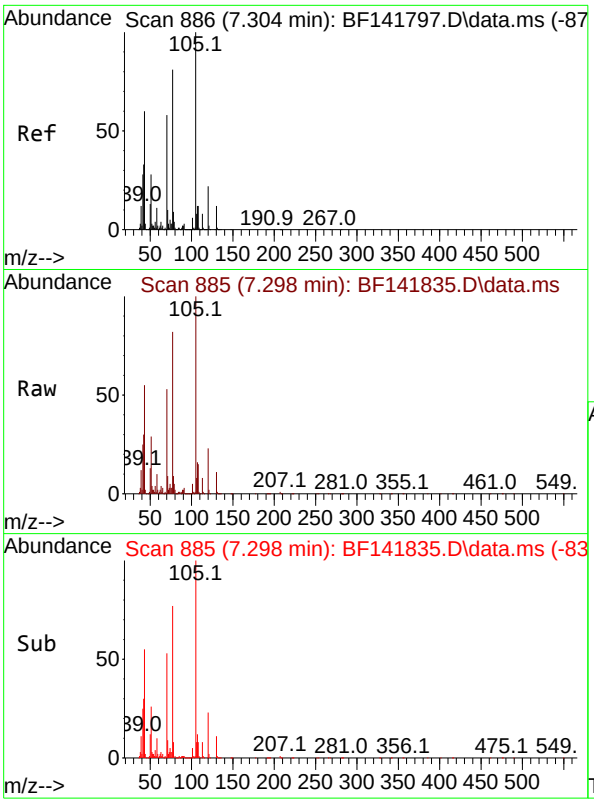




#18
Hexachloroethane
Concen: 38.167 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:117 Resp: 257495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.6 | 75.8 | 113.8 |
| 201 | 95.3 | 76.7 | 115.1 |



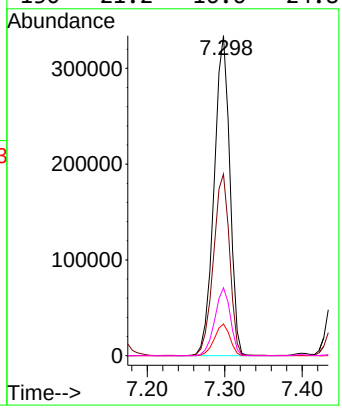


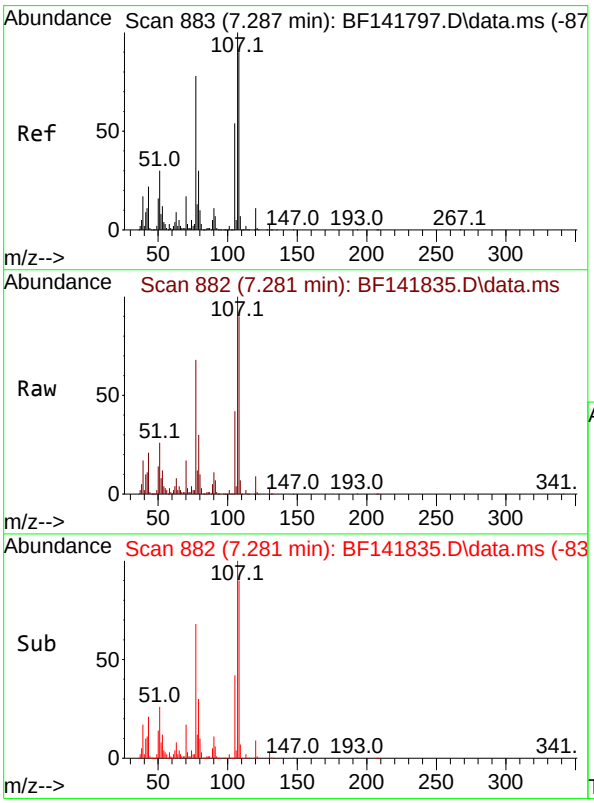

#19
n-Nitroso-di-n-propylamine
Concen: 35.637 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 70 Resp: 470848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 56.8 | 45.4 | 68.0 |
| 101 | 9.9 | 7.8 | 11.8 |
| 130 | 21.2 | 16.6 | 24.8 |

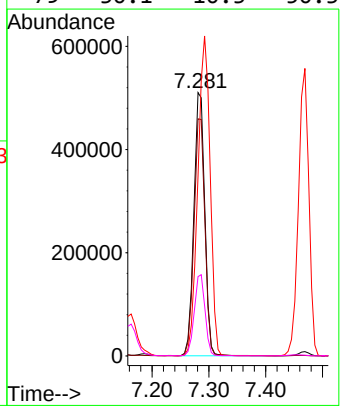


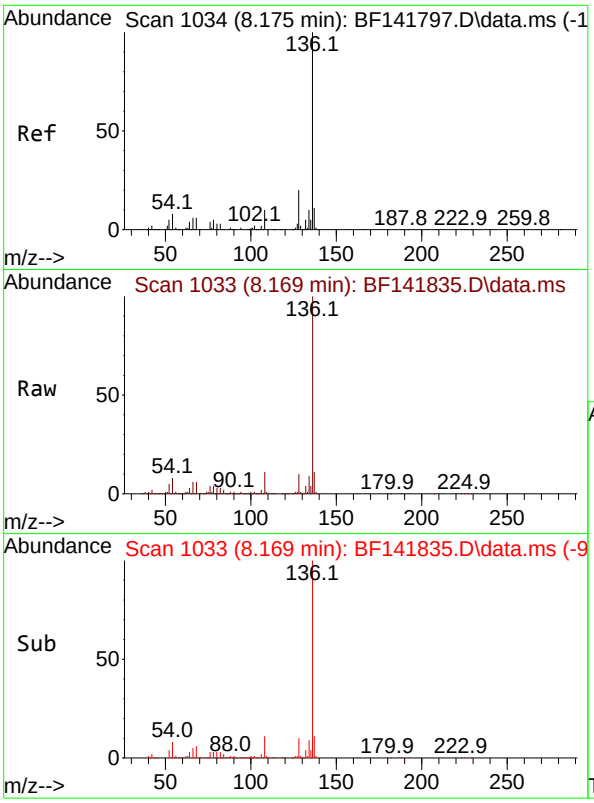




#20
3+4-Methylphenols
Concen: 39.753 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:107 Resp: 682535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 90.0 | 69.7 | 109.7 |
| 77 | 68.4 | 58.3 | 98.3 |
| 79 | 30.1 | 10.3 | 50.3 |



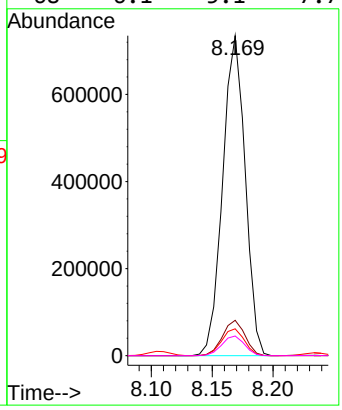


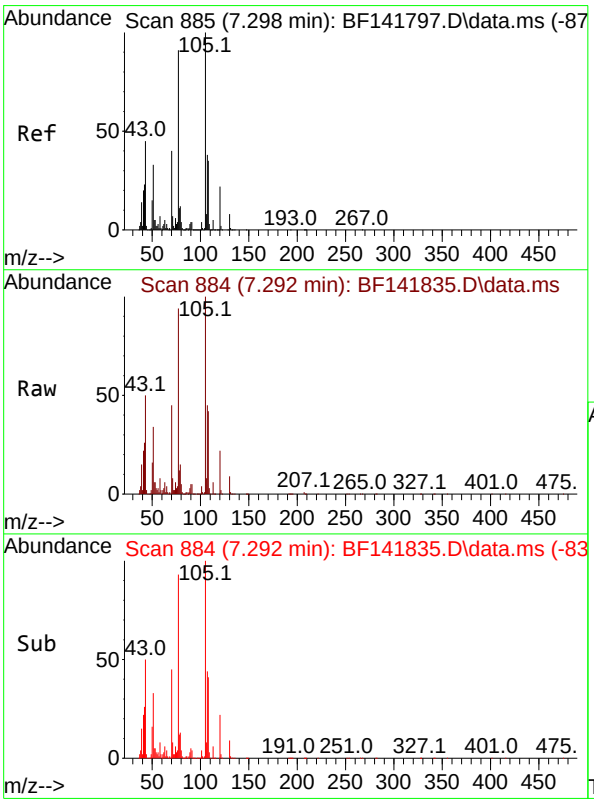

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:136 Resp: 945299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.9 | 13.3 |
| 54 | 8.4 | 6.9 | 10.3 |
| 68 | 6.1 | 5.1 | 7.7 |

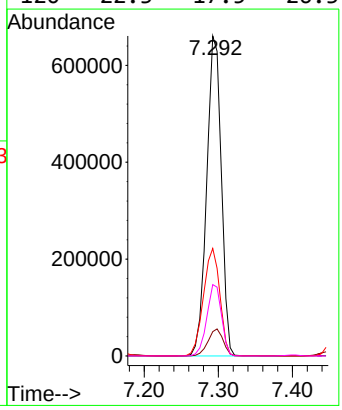


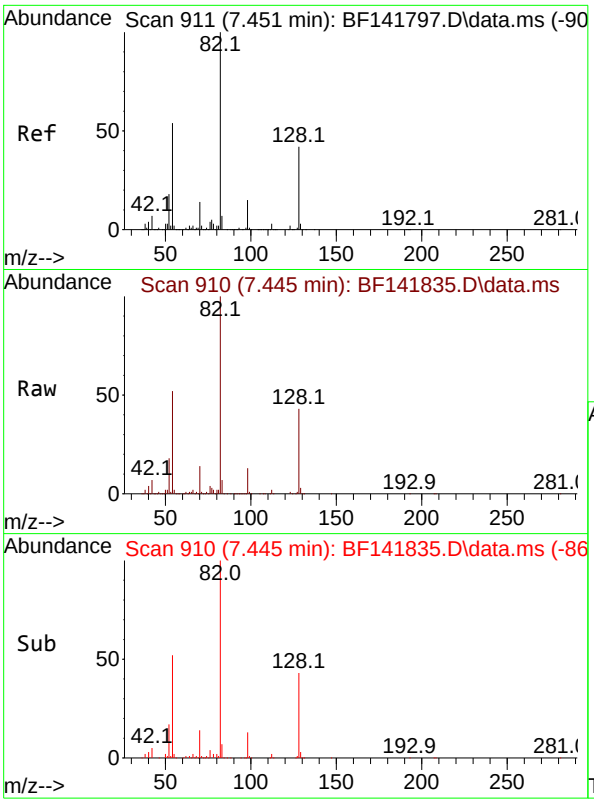




#22
Acetophenone
Concen: 39.406 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:105 Resp: 907232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 7.6 | 5.4 | 8.0 |
| 51 | 33.6 | 26.1 | 39.1 |
| 120 | 22.3 | 17.5 | 26.3 |



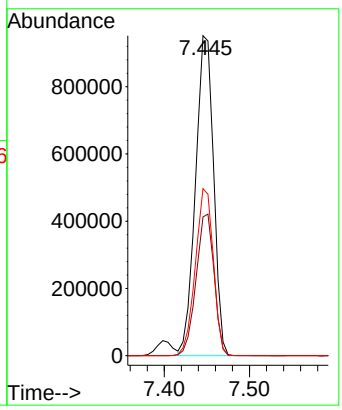


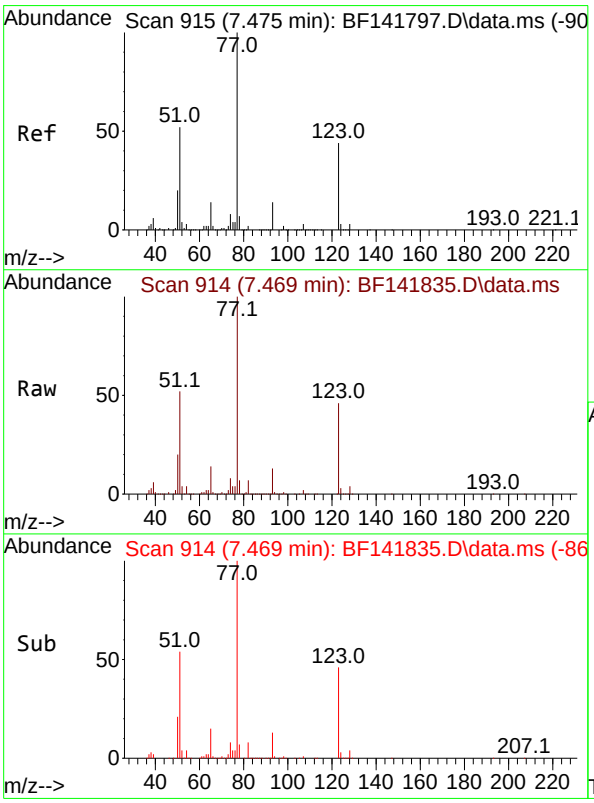

#23
Nitrobenzene-d5
Concen: 94.823 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 82 Resp: 1402310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.4 | 33.5 | 50.3 |
| 54 | 52.2 | 42.7 | 64.1 |

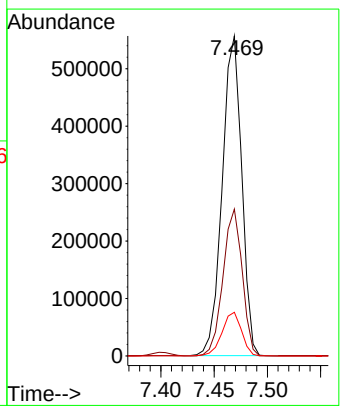


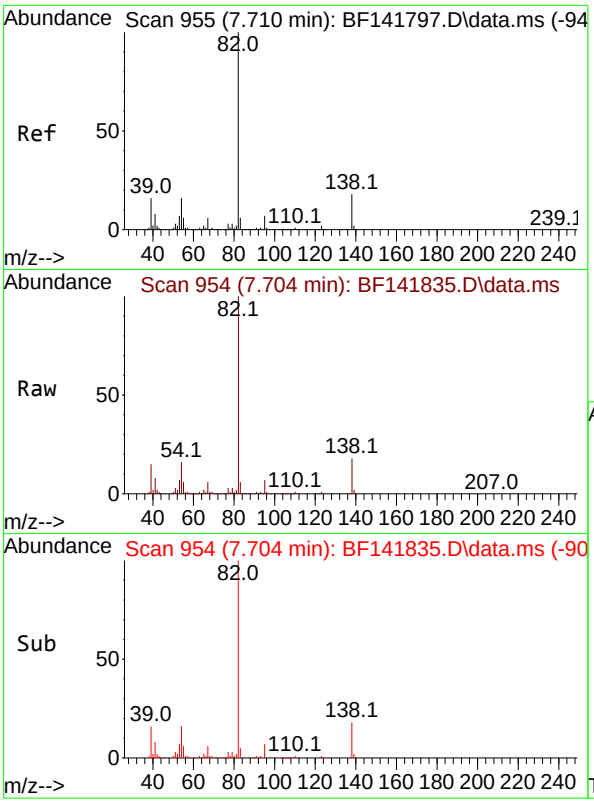




#24
Nitrobenzene
Concen: 44.751 ng
RT: 7.469 min Scan# 914
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 77 Resp: 708702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 45.9 | 35.8 | 53.8 |
| 65 | 13.7 | 11.2 | 16.8 |



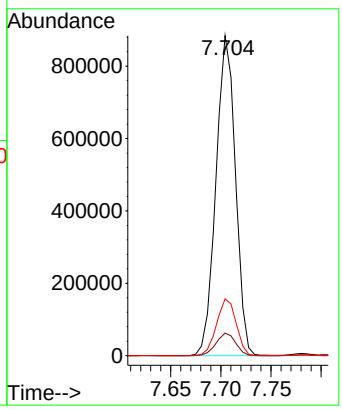


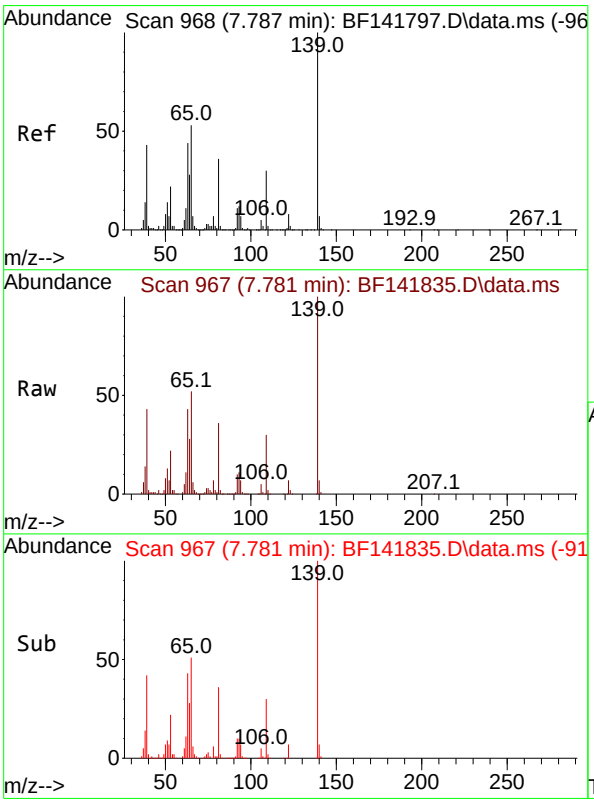

#25
Isophorone
Concen: 37.638 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 82 Resp: 1195819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.1 | 5.8 | 8.8 |
| 138 | 17.8 | 14.0 | 21.0 |

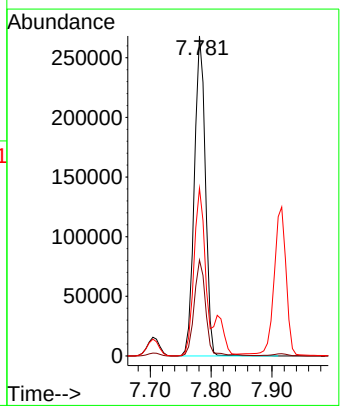


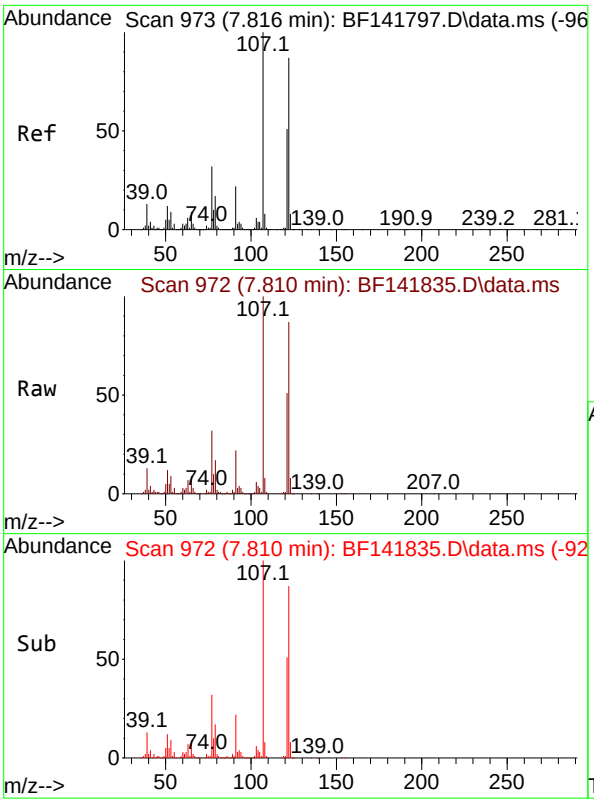




#26
2-Nitrophenol
Concen: 47.760 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:139 Resp: 337701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 29.9 | 24.1 | 36.1 |
| 65 | 52.4 | 42.3 | 63.5 |



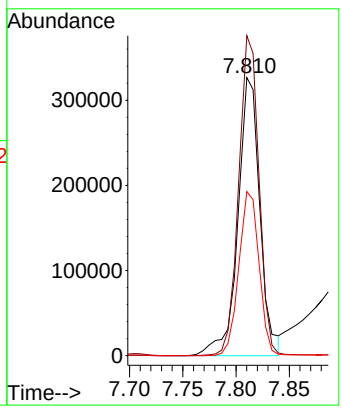


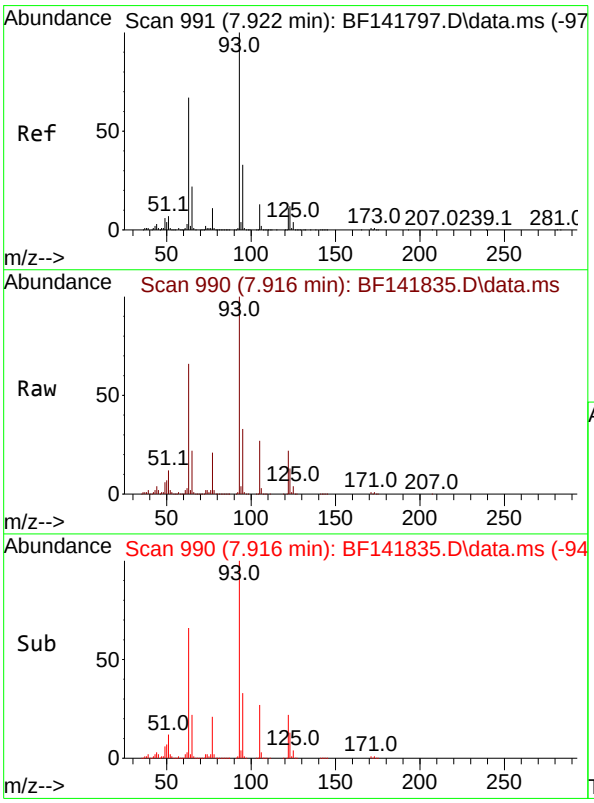

#27
2,4-Dimethylphenol
Concen: 40.220 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:122 Resp: 469729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 115.1 | 92.5 | 138.7 |
| 121 | 59.0 | 47.1 | 70.7 |

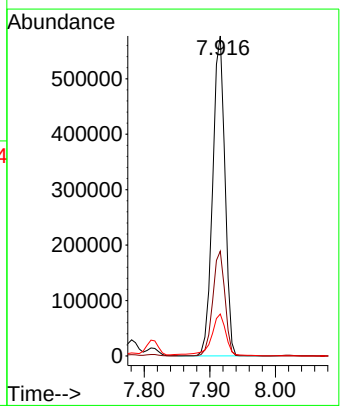


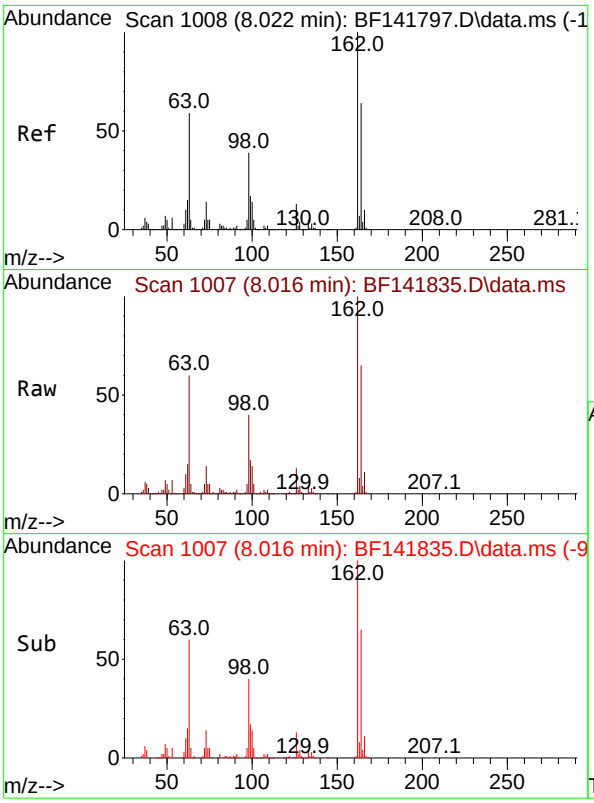




#28
bis(2-Chloroethoxy)methane
Concen: 36.892 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 93 Resp: 747705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.7 | 26.5 | 39.7 |
| 123 | 13.1 | 10.0 | 15.0 |



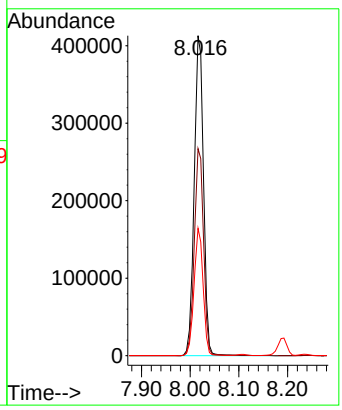


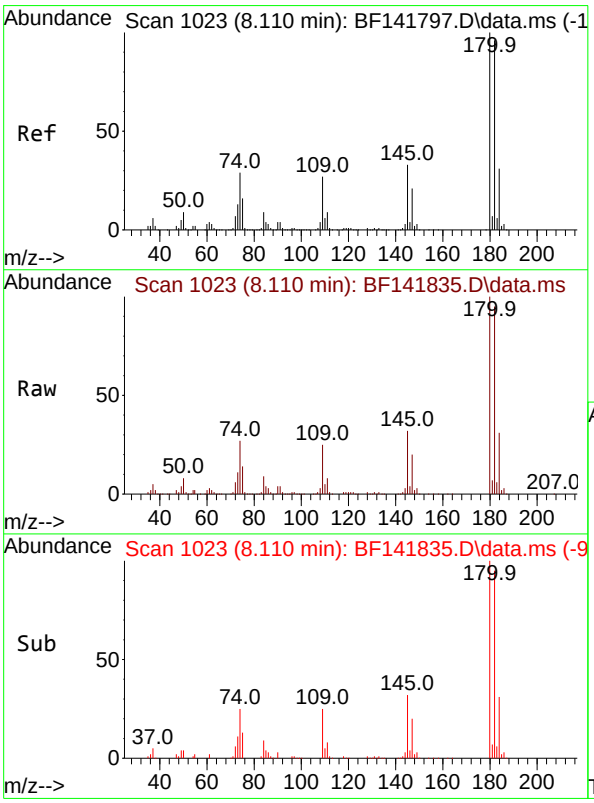

#29
2,4-Dichlorophenol
Concen: 40.846 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:162 Resp: 550338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.7 | 44.3 | 84.3 |
| 98 | 39.8 | 19.6 | 59.6 |

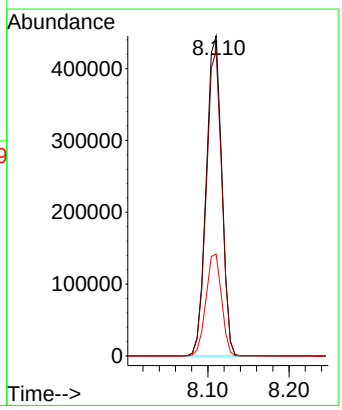


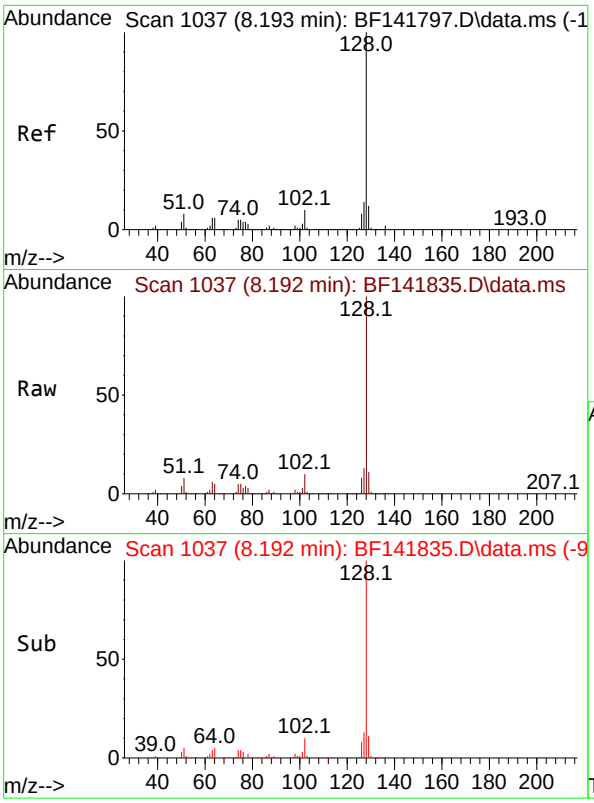




#30
1,2,4-Trichlorobenzene
Concen: 39.998 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:180 Resp: 590525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 76.8 | 115.2 |
| 145 | 31.9 | 26.4 | 39.6 |



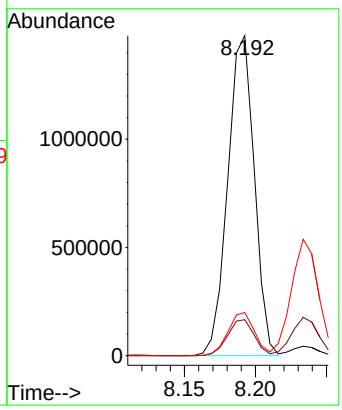


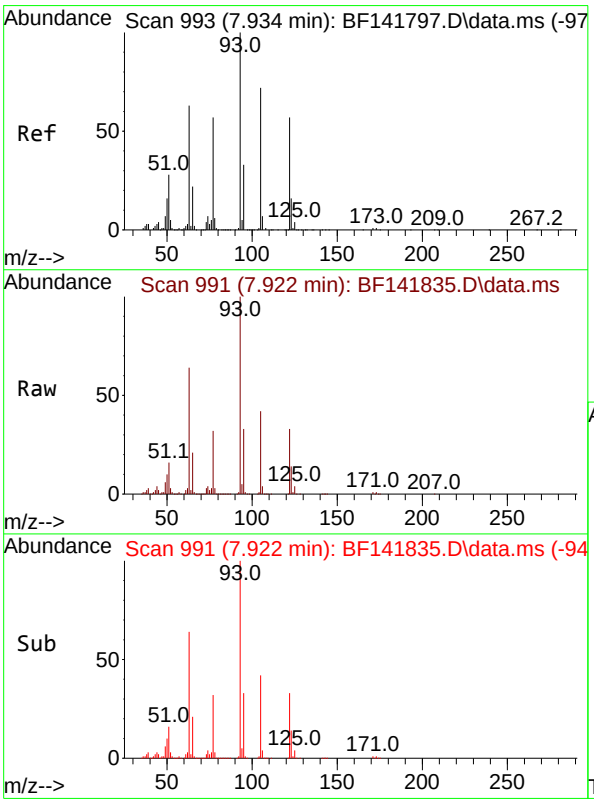

#31
Naphthalene
Concen: 39.574 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:128 Resp: 1922662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.3 | 9.2 | 13.8 |
| 127 | 13.5 | 11.0 | 16.4 |

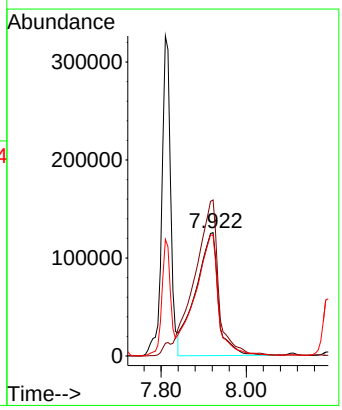


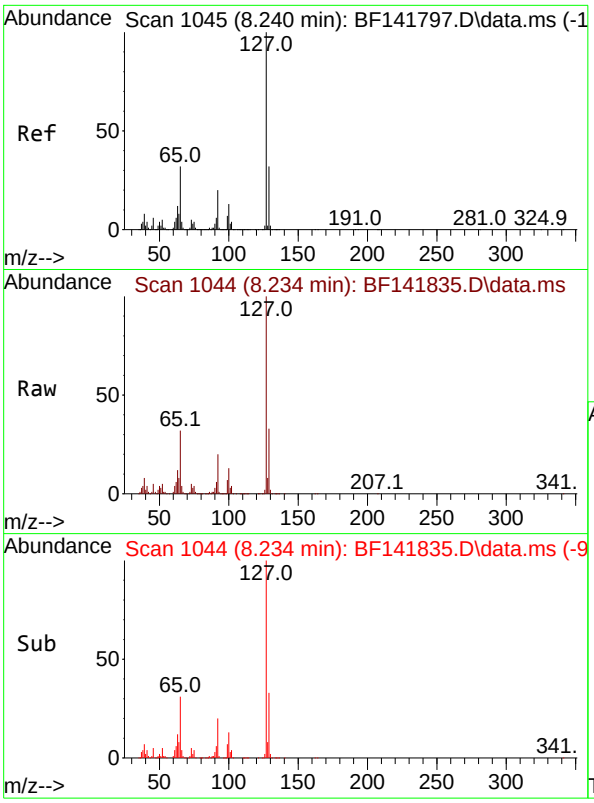




#32
Benzoic acid
Concen: 48.051 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:122 Resp: 468479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 126.5 | 105.8 | 145.8 |
| 77 | 97.8 | 79.9 | 119.9 |



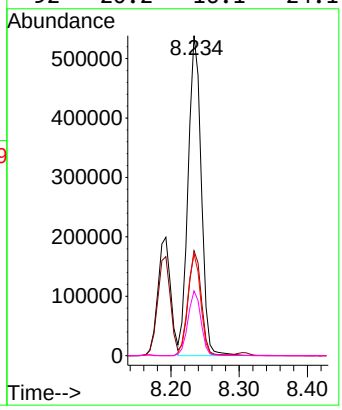


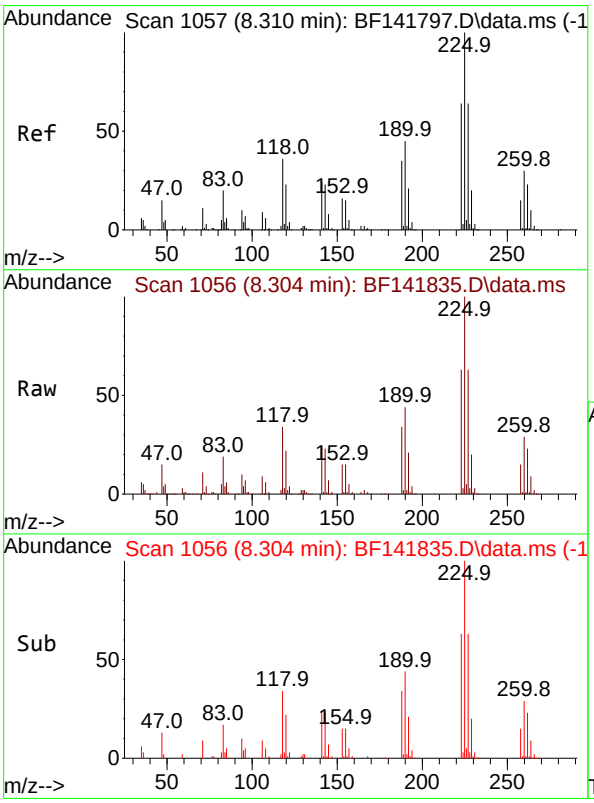

#33
4-Chloroaniline
Concen: 40.091 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:127 Resp: 714189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.8 | 26.1 | 39.1 |
| 65 | 31.7 | 25.7 | 38.5 |
| 92 | 20.2 | 16.1 | 24.1 |

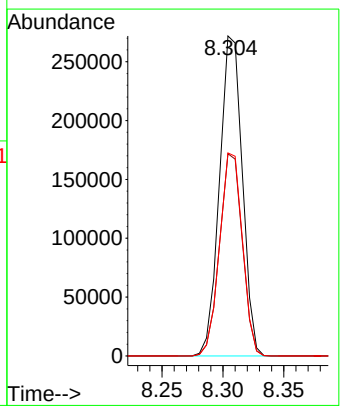


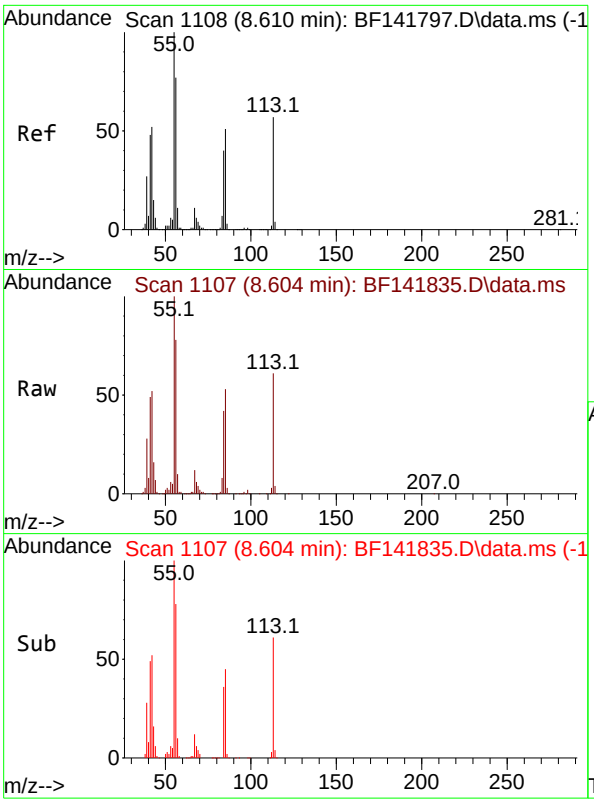




#34
Hexachlorobutadiene
Concen: 38.603 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:225 Resp: 354160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.2 | 51.4 | 77.2 |
| 227 | 63.5 | 51.6 | 77.4 |



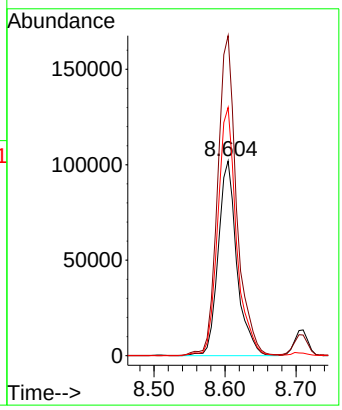


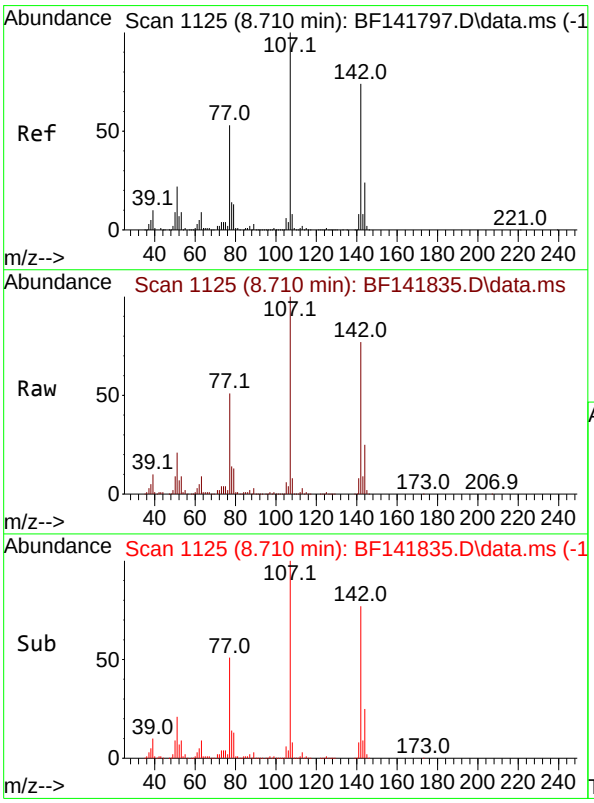

#35
Caprolactam
Concen: 44.676 ng
RT: 8.604 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:113 Resp: 185176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 164.3 | 155.6 | 195.6 |
| 56 | 127.4 | 114.6 | 154.6 |

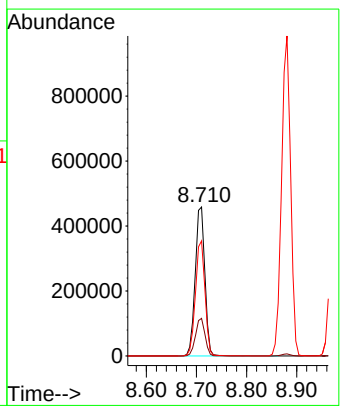


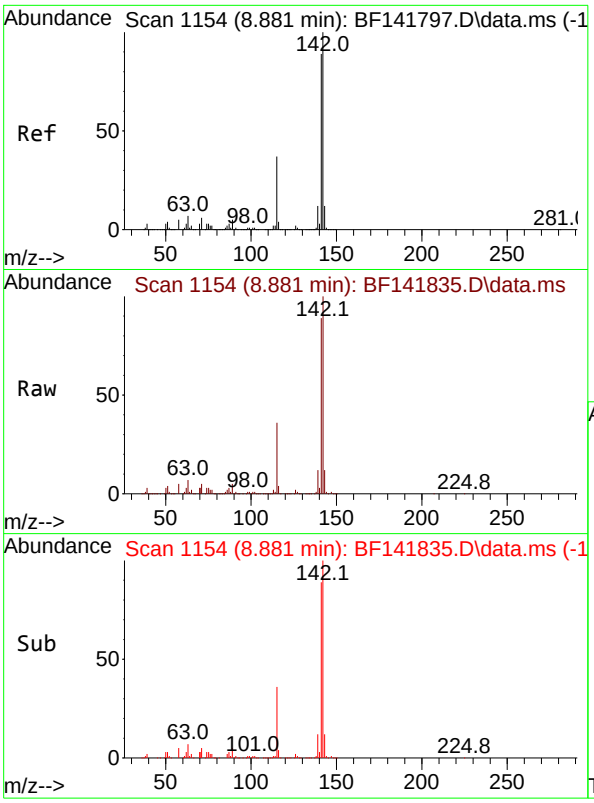




#36
4-Chloro-3-methylphenol
Concen: 40.944 ng
RT: 8.710 min Scan# 1125
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:107 Resp: 612816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 25.2 | 19.4 | 29.0 |
| 142 | 77.2 | 59.4 | 89.0 |



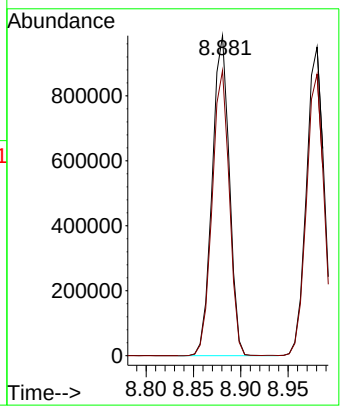


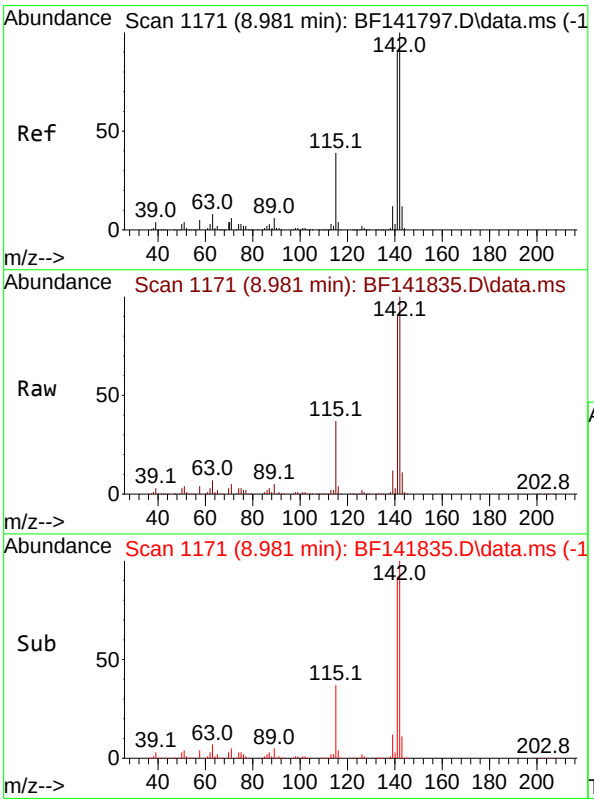

#37
2-Methylnaphthalene
Concen: 38.964 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:142 Resp: 1241689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.1 | 71.1 | 106.7 |

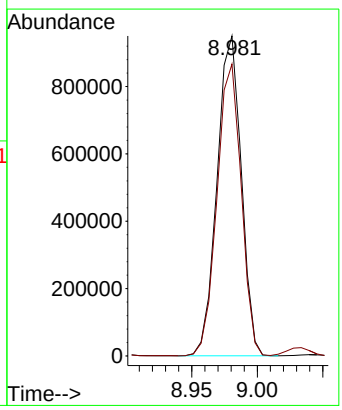


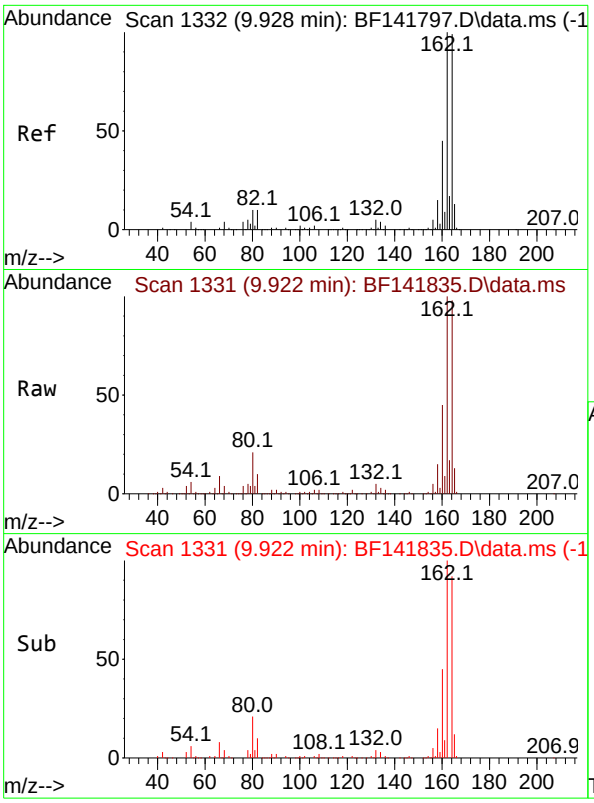




#38
1-Methylnaphthalene
Concen: 39.860 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:142 Resp: 1218817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 91.2 | 73.1 | 109.7 |



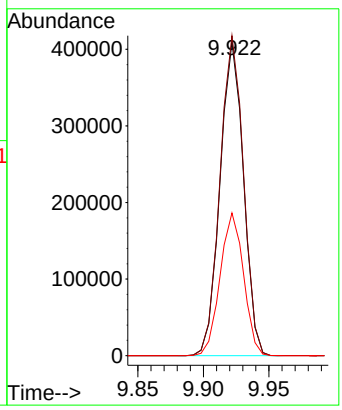


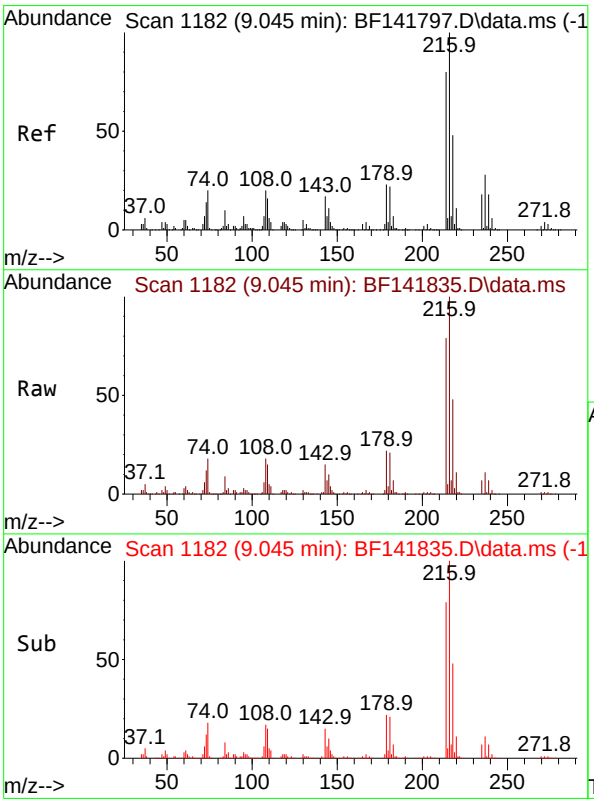

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:164 Resp: 507589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.1 | 80.6 | 120.8 |
| 160 | 45.5 | 36.3 | 54.5 |

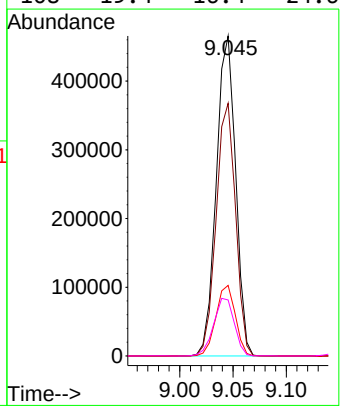


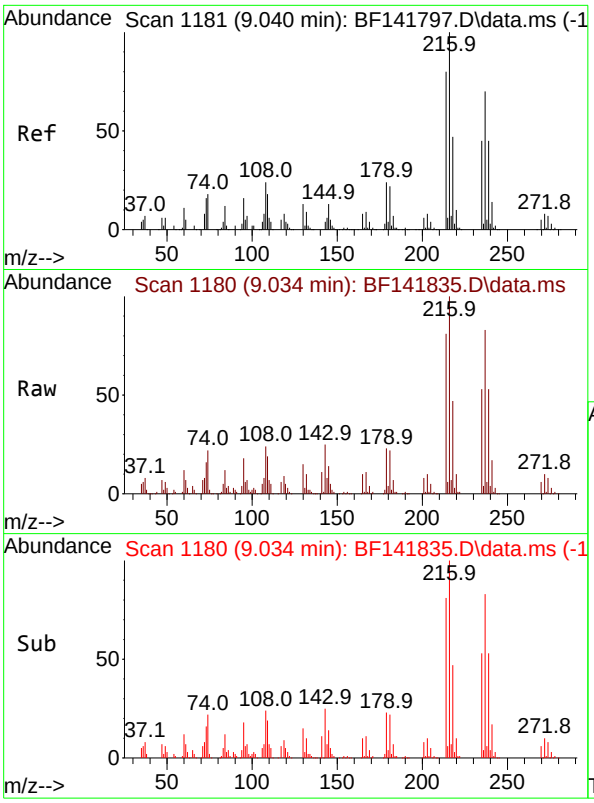




#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.950 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:216 Resp: 585654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 79.3 | 63.5 | 95.3 |
| 179 | 22.2 | 18.1 | 27.1 |
| 108 | 19.4 | 16.4 | 24.6 |



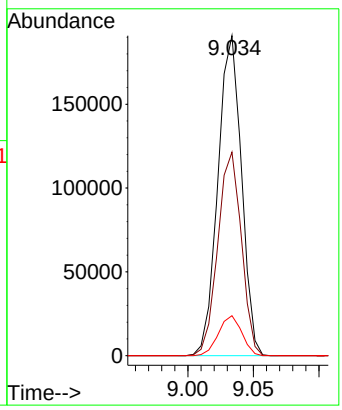


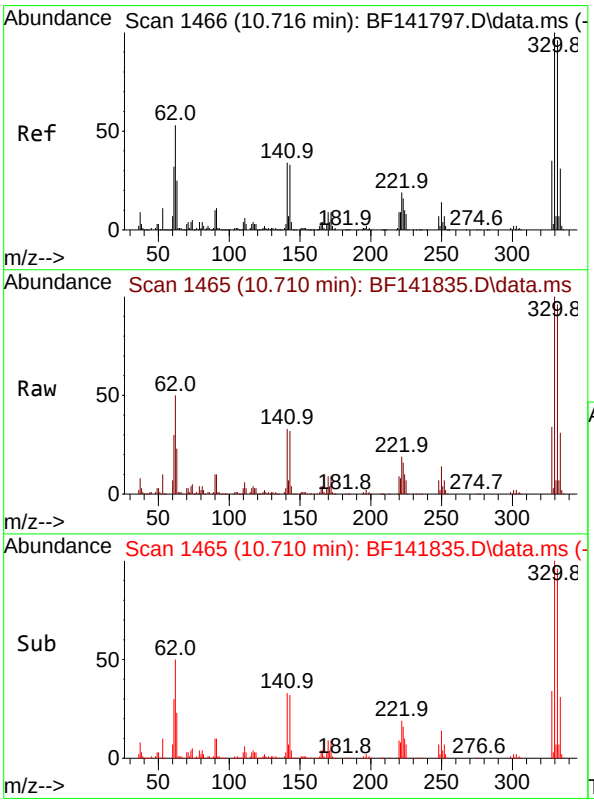

#41
Hexachlorocyclopentadiene
Concen: 38.977 ng
RT: 9.034 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:237 Resp: 238457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 63.6 | 43.3 | 83.3 |
| 272 | 12.5 | 0.0 | 31.9 |

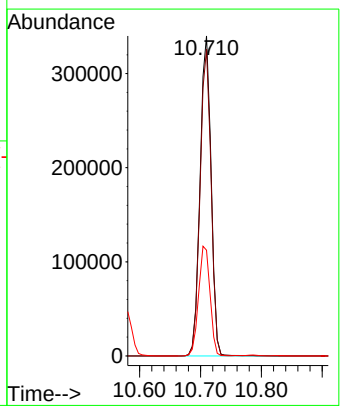


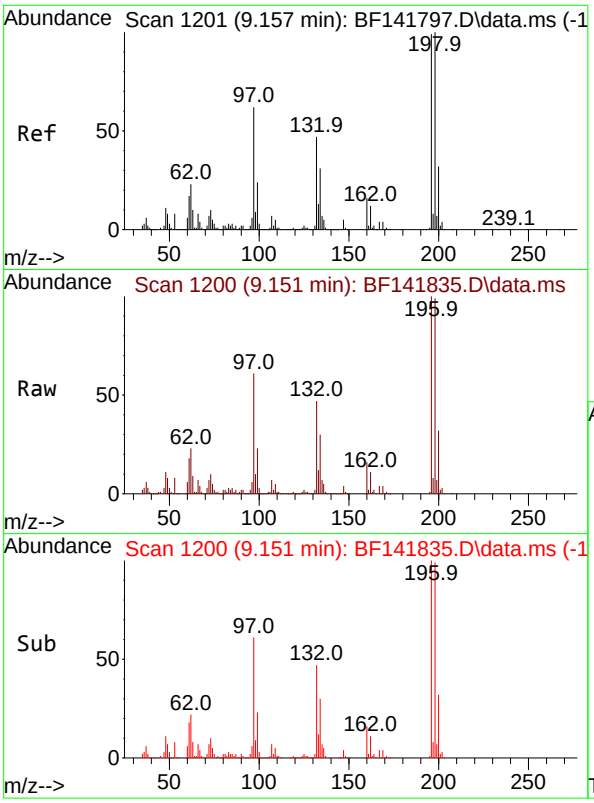




#42
2,4,6-Tribromophenol
Concen: 89.332 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:330 Resp: 425699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.9 | 76.6 | 115.0 |
| 141 | 35.7 | 29.0 | 43.4 |



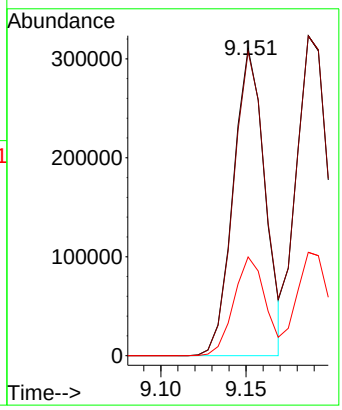


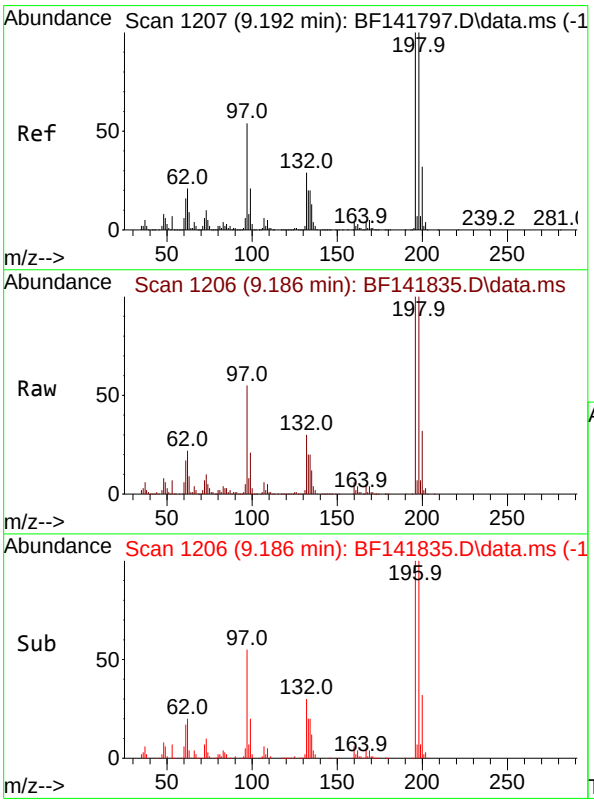

#43
2,4,6-Trichlorophenol
Concen: 42.317 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:196 Resp: 400730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 98.9 | 80.4 | 120.6 |
| 200 | 32.1 | 25.7 | 38.5 |

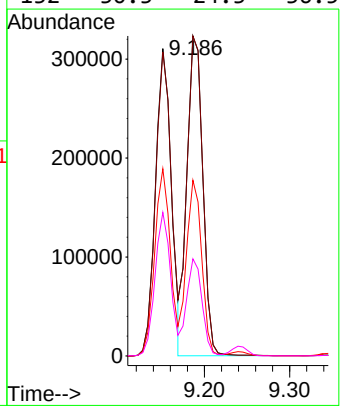


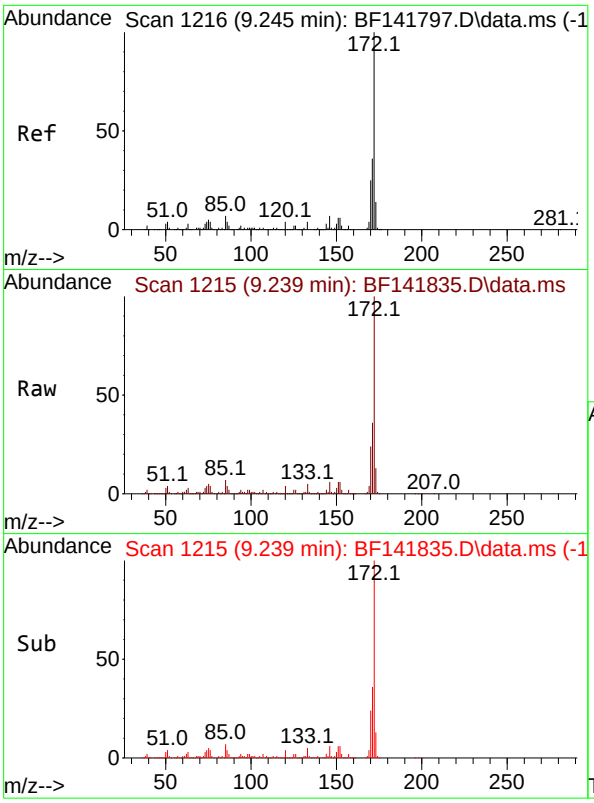




#44
2,4,5-Trichlorophenol
Concen: 44.643 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:196 Resp: 418618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 99.9 | 79.7 | 119.5 |
| 97 | 54.9 | 44.2 | 66.2 |
| 132 | 30.3 | 24.3 | 36.5 |



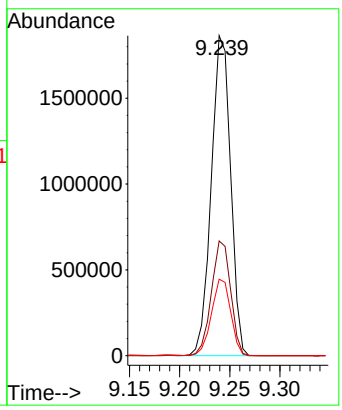


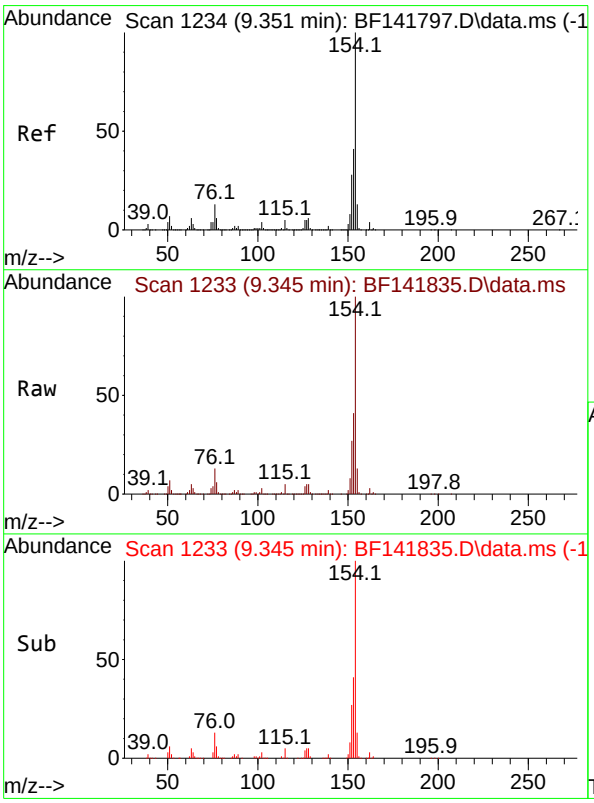

#45
2-Fluorobiphenyl
Concen: 78.861 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:172 Resp: 2496418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.9 | 29.2 | 43.8 |
| 170 | 23.9 | 19.7 | 29.5 |

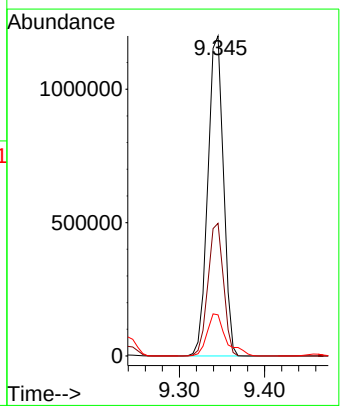


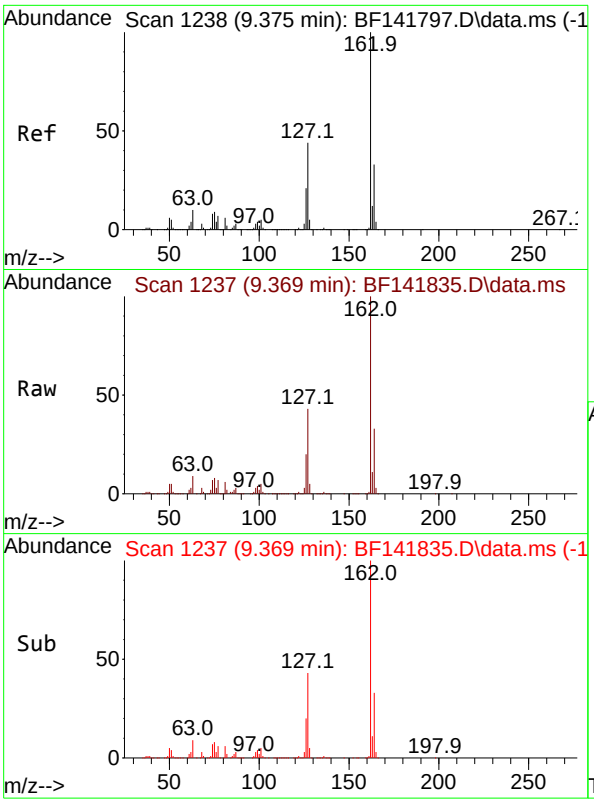




#46
1,1'-Biphenyl
Concen: 39.541 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:154 Resp: 1527684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.4 | 21.4 | 61.4 |
| 76 | 12.9 | 0.0 | 33.4 |



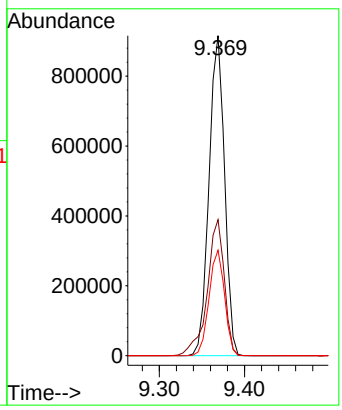


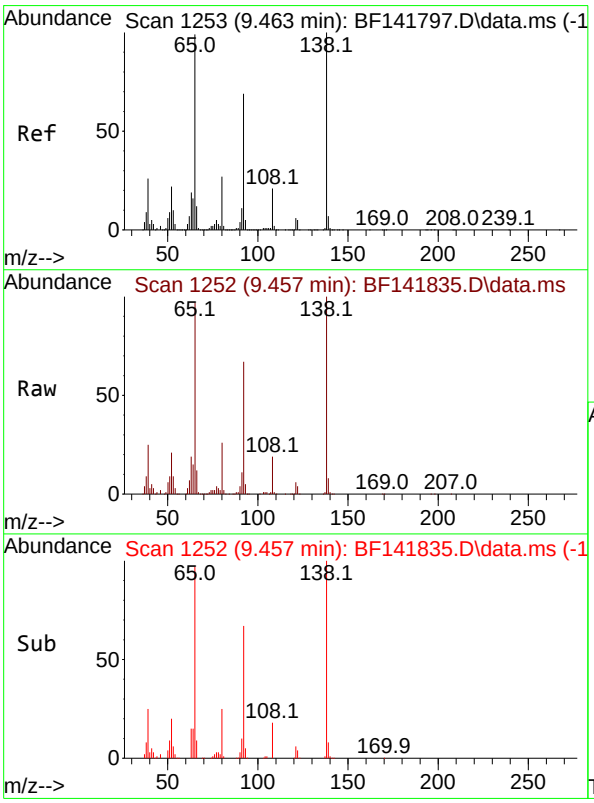

#47
2-Chloronaphthalene
Concen: 40.733 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:162 Resp: 1161554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 42.5 | 35.0 | 52.6 |
| 164 | 32.9 | 26.6 | 40.0 |

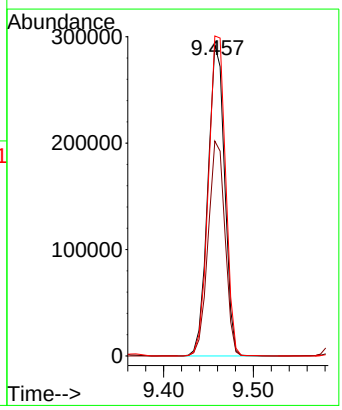


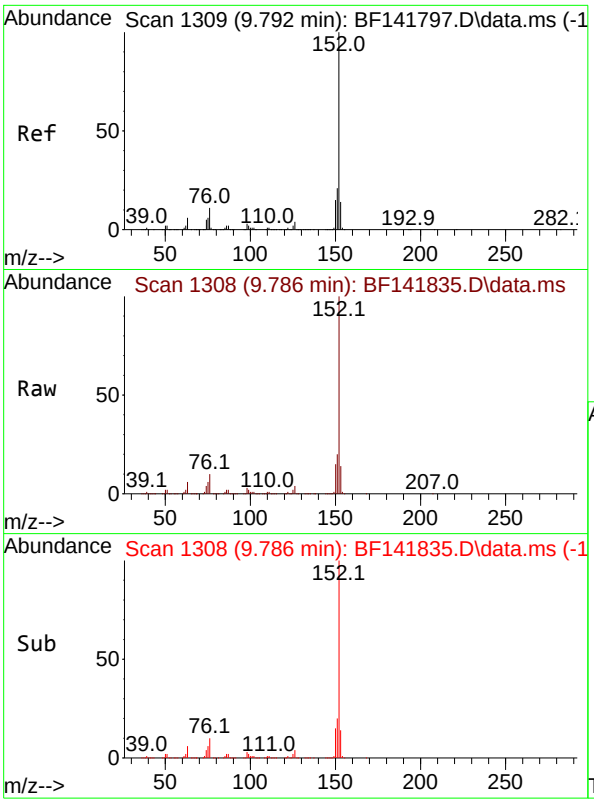




#48
2-Nitroaniline
Concen: 48.579 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 65 Resp: 379633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 69.0 | 55.7 | 83.5 |
| 138 | 102.8 | 80.6 | 121.0 |



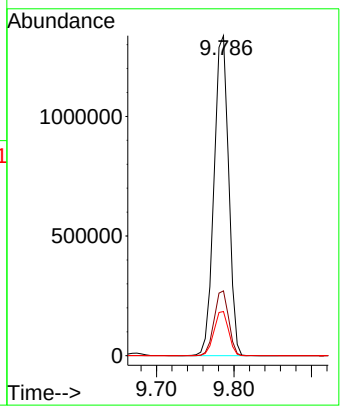


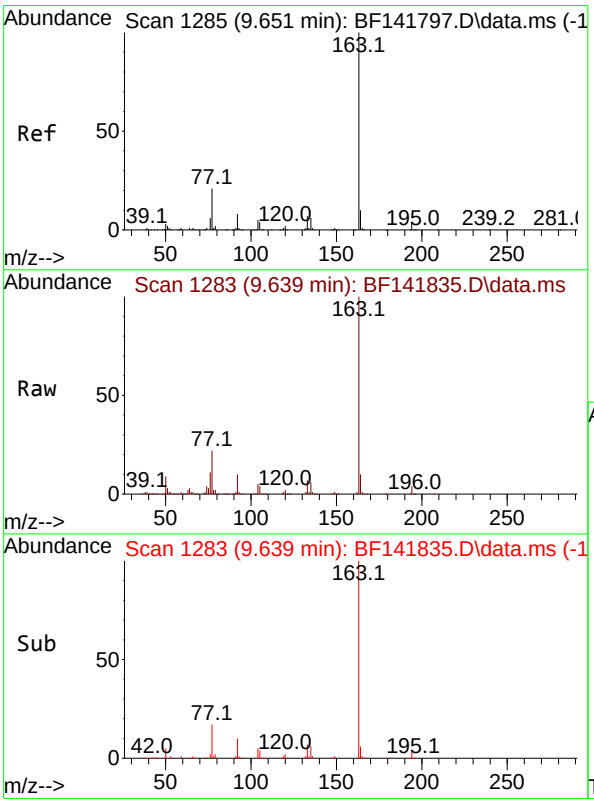

#49
Acenaphthylene
Concen: 40.985 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:152 Resp: 1752309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.3 | 16.6 | 24.8 |
| 153 | 13.8 | 11.2 | 16.8 |

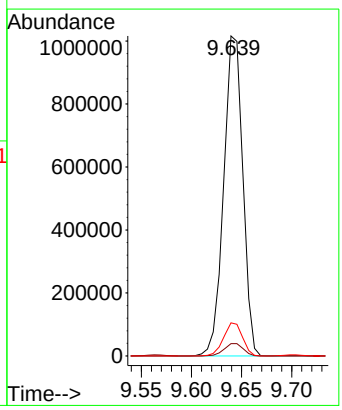


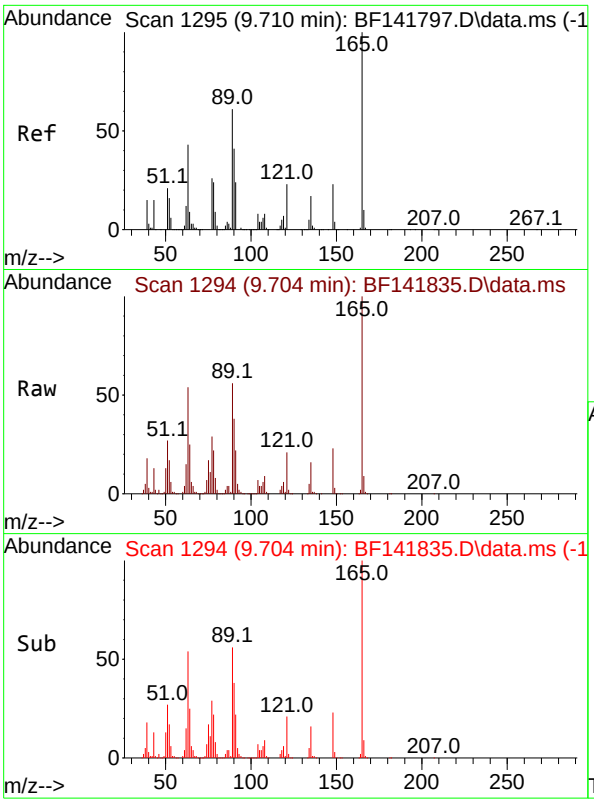




#50
Dimethylphthalate
Concen: 39.595 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:163 Resp: 1345931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 3.8 | 3.1 | 4.7 |
| 164 | 10.4 | 8.4 | 12.6 |



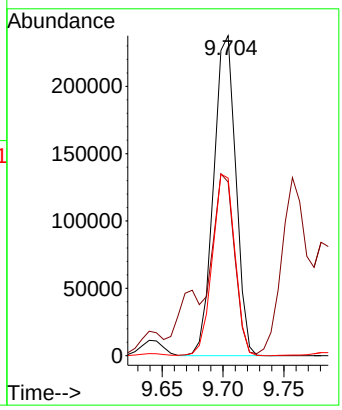


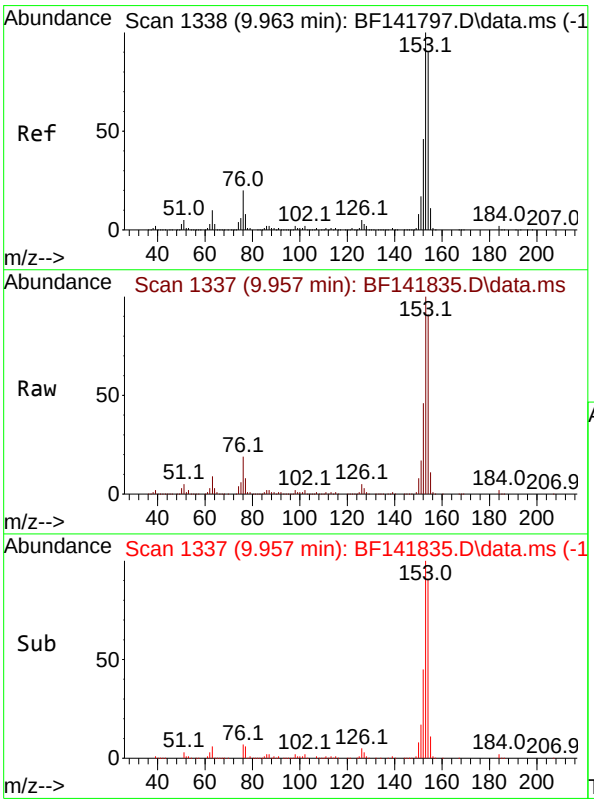

#51
2,6-Dinitrotoluene
Concen: 46.487 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:165 Resp: 301676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 54.2 | 49.5 | 74.3 |
| 89 | 55.5 | 49.0 | 73.4 |

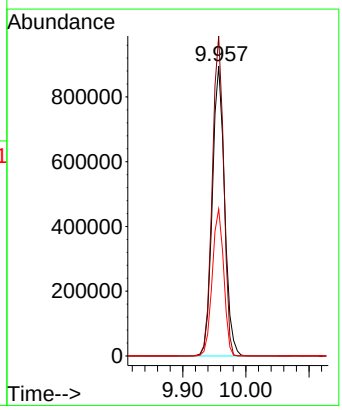


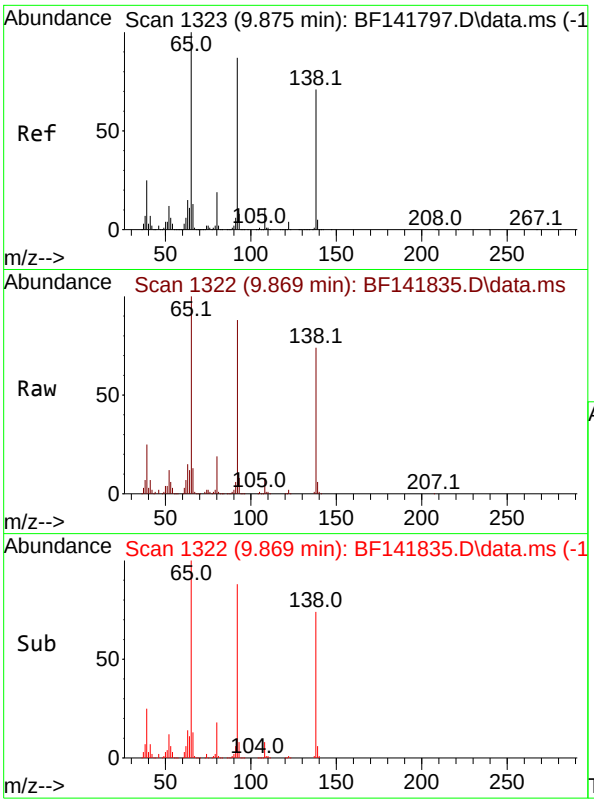




#52
Acenaphthene
Concen: 41.819 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:154 Resp: 1206437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 110.4 | 88.7 | 133.1 |
| 152 | 50.7 | 40.9 | 61.3 |



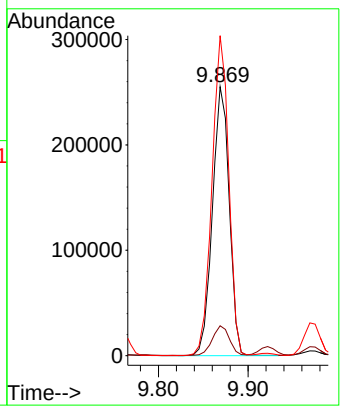


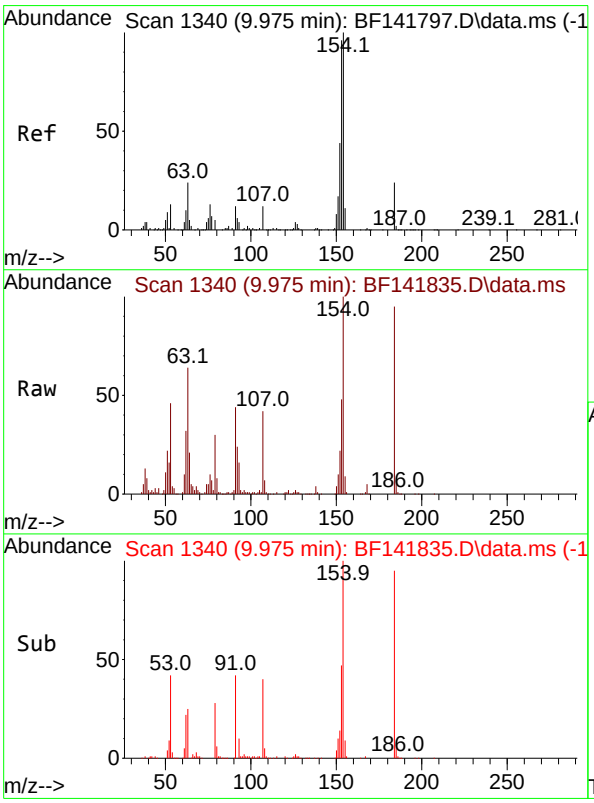

#53
3-Nitroaniline
Concen: 48.006 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:138 Resp: 332516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.1 | 12.7 | 19.1# |
| 92 | 119.0 | 97.9 | 146.9 |

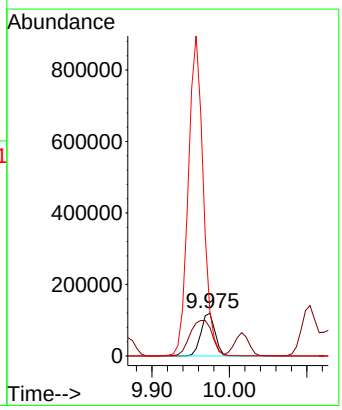


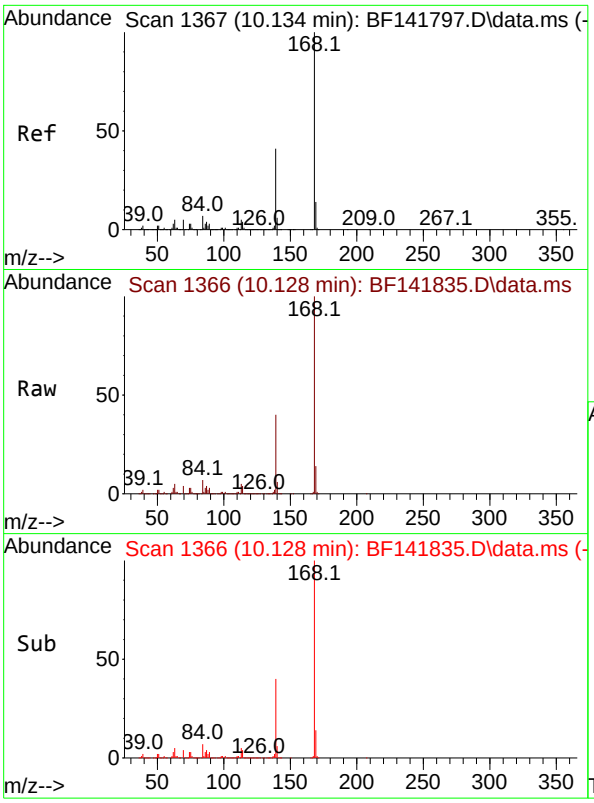




#54
2,4-Dinitrophenol
Concen: 57.060 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:184 Resp: 151609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 66.7 | 79.0 | 118.6# |
| 154 | 105.0 | 335.8 | 503.8# |



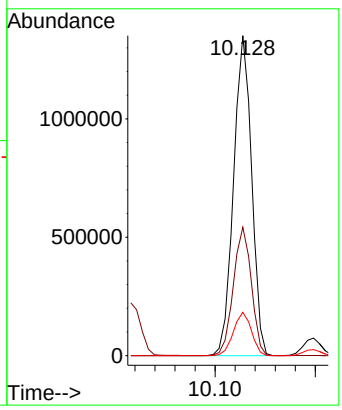


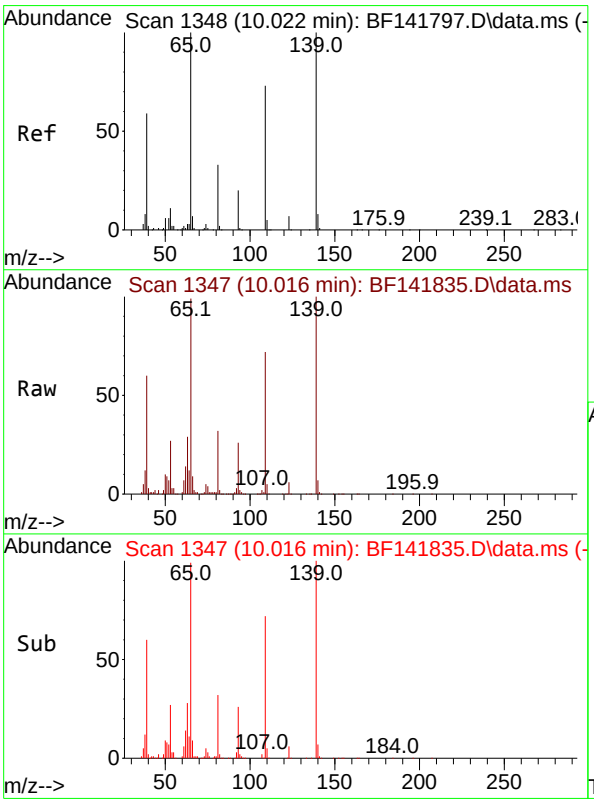

#55
Dibenzofuran
Concen: 40.368 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:168 Resp: 1695006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.2 | 32.9 | 49.3 |
| 169 | 13.5 | 11.1 | 16.7 |

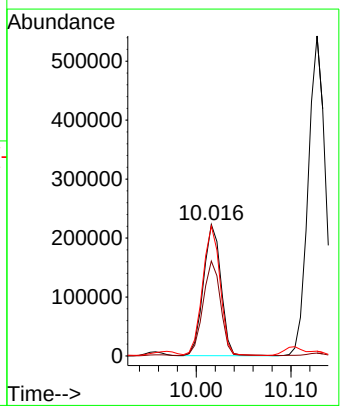


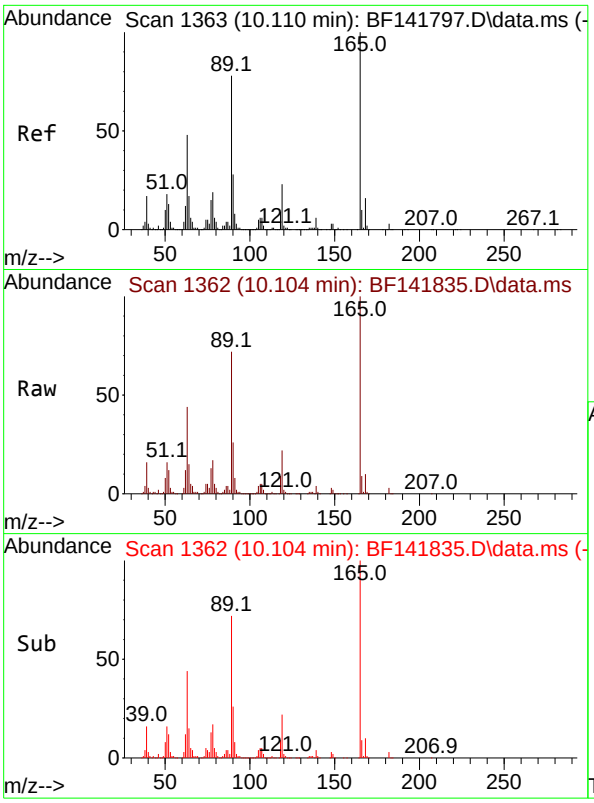




#56
4-Nitrophenol
Concen: 57.194 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:139 Resp: 287143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 72.2 | 53.4 | 93.4 |
| 65 | 98.9 | 82.1 | 122.1 |



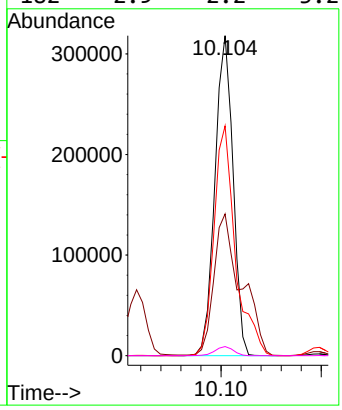


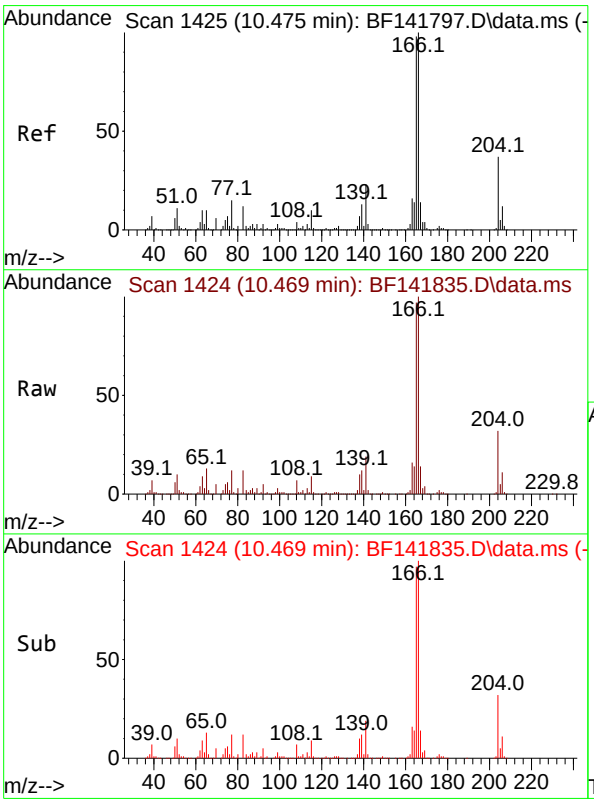

#57
2,4-Dinitrotoluene
Concen: 49.981 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:165 Resp: 398234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 44.3 | 38.8 | 58.2 |
| 89 | 71.8 | 62.6 | 94.0 |
| 182 | 2.9 | 2.2 | 3.2 |

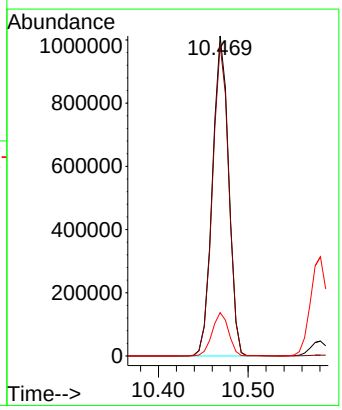


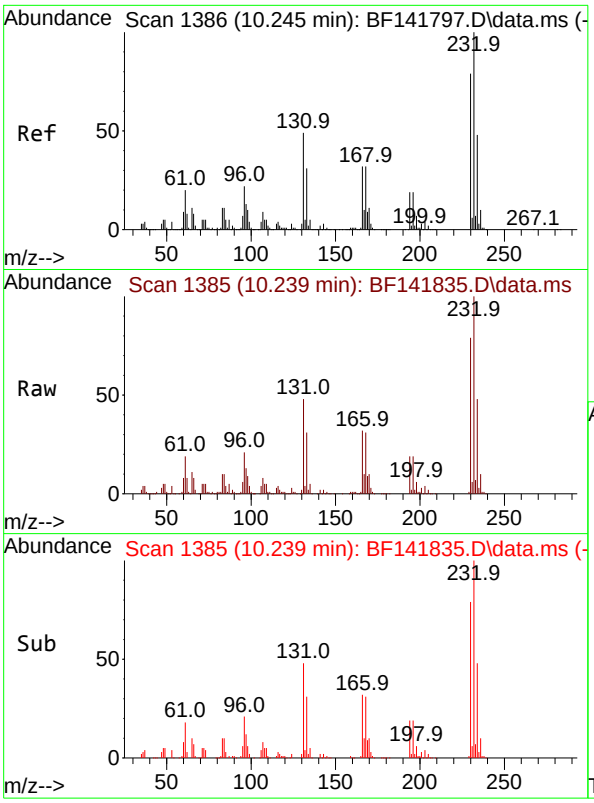




#58
Fluorene
Concen: 40.458 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:166 Resp: 1272485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.3 | 78.6 | 117.8 |
| 167 | 13.6 | 11.0 | 16.4 |



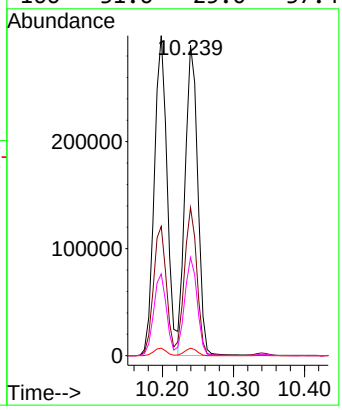


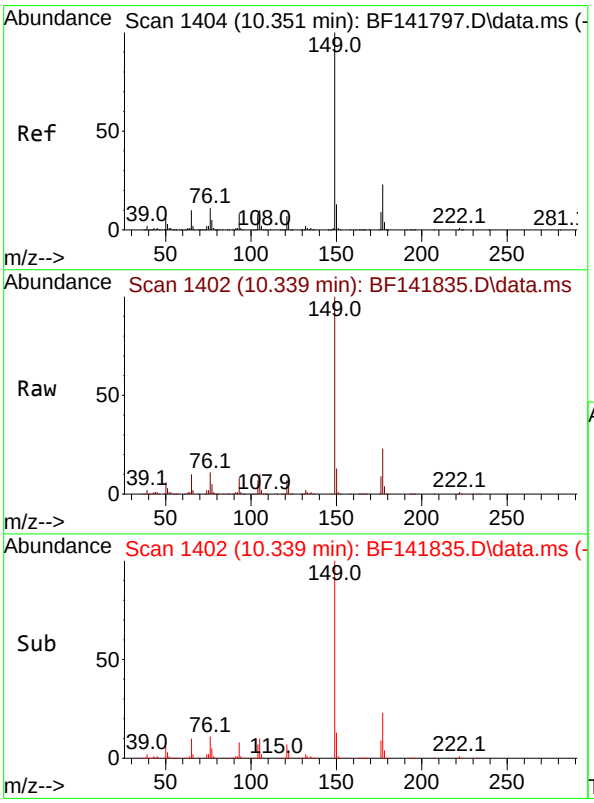

#59
2,3,4,6-Tetrachlorophenol
Concen: 43.711 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:232 Resp: 356479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 47.5 | 37.8 | 56.8 |
| 130 | 2.4 | 2.0 | 3.0 |
| 166 | 31.6 | 25.0 | 37.4 |

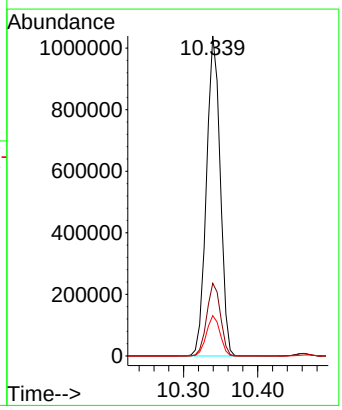


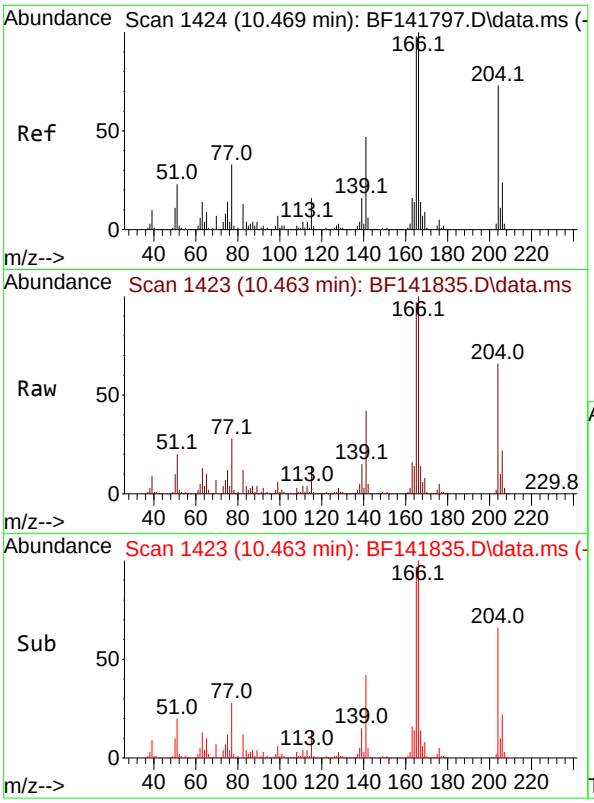




#60
Diethylphthalate
Concen: 39.332 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:149 Resp: 1340314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.7 | 18.3 | 27.5 |
| 150 | 12.6 | 10.3 | 15.5 |



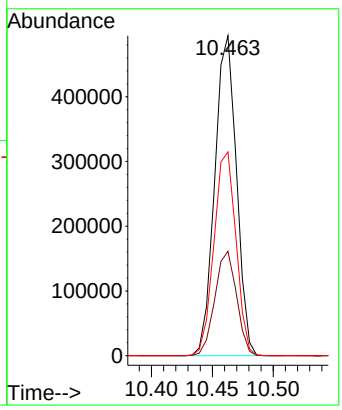


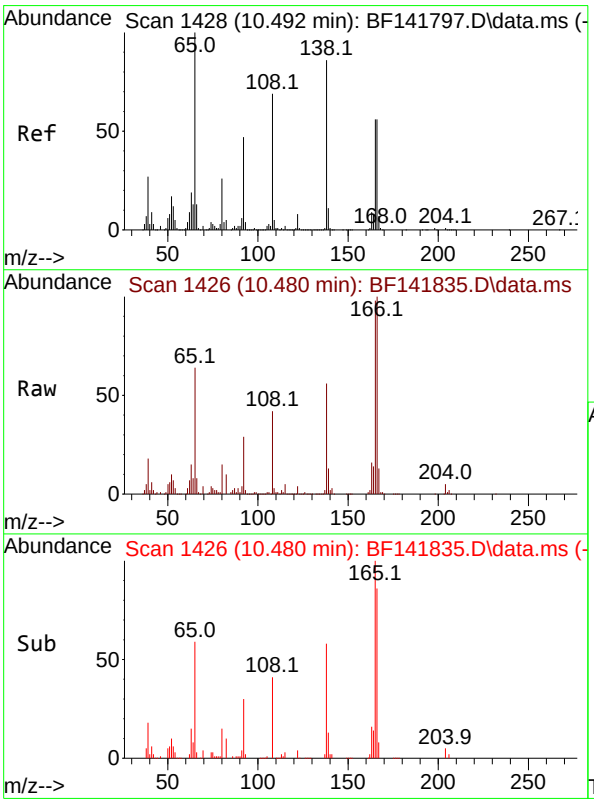

#61
4-Chlorophenyl-phenylether
Concen: 39.043 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:204 Resp: 615259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.6 | 26.2 | 39.4 |
| 141 | 63.7 | 51.7 | 77.5 |

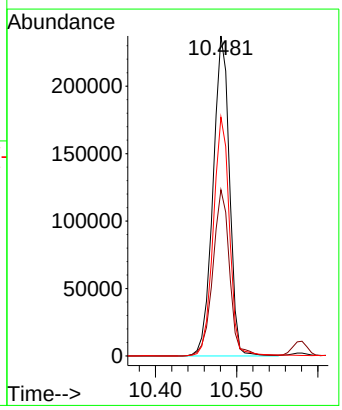


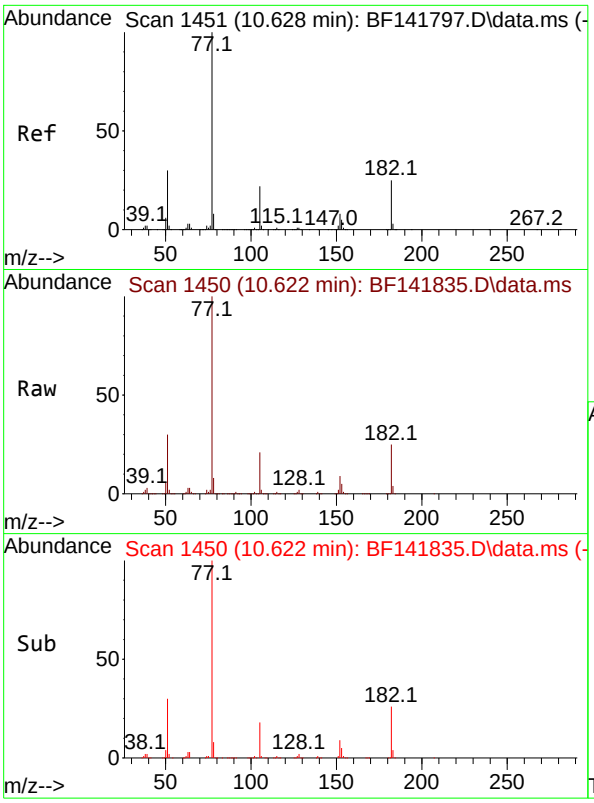




#62
4-Nitroaniline
Concen: 57.675 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:138 Resp: 334806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 52.0 | 34.9 | 74.9 |
| 108 | 74.6 | 59.6 | 99.6 |



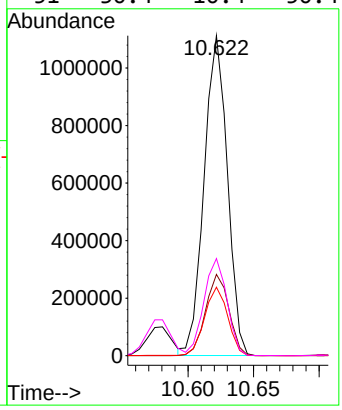


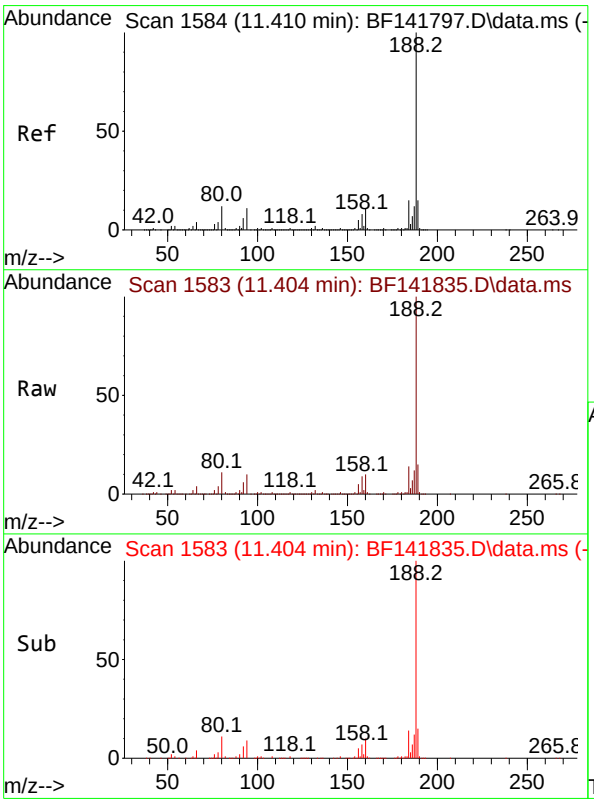

#63
Azobenzene
Concen: 38.283 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 77 Resp: 1373599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 25.4 | 4.2 | 44.2 |
| 105 | 21.4 | 1.5 | 41.5 |
| 51 | 30.4 | 10.4 | 50.4 |

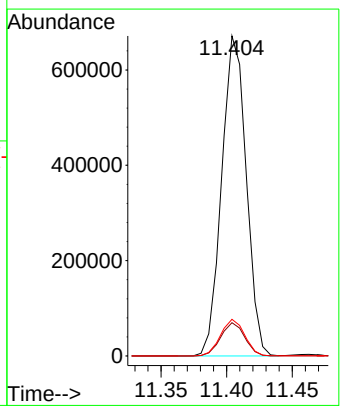


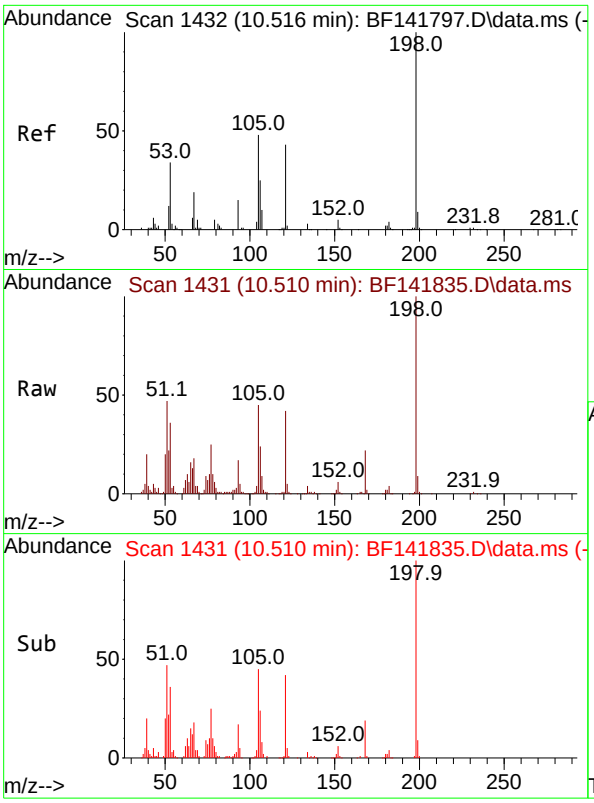




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:188 Resp: 873644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.4 | 8.9 | 13.3 |
| 80 | 11.4 | 9.7 | 14.5 |



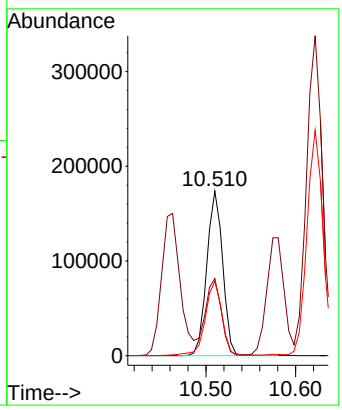


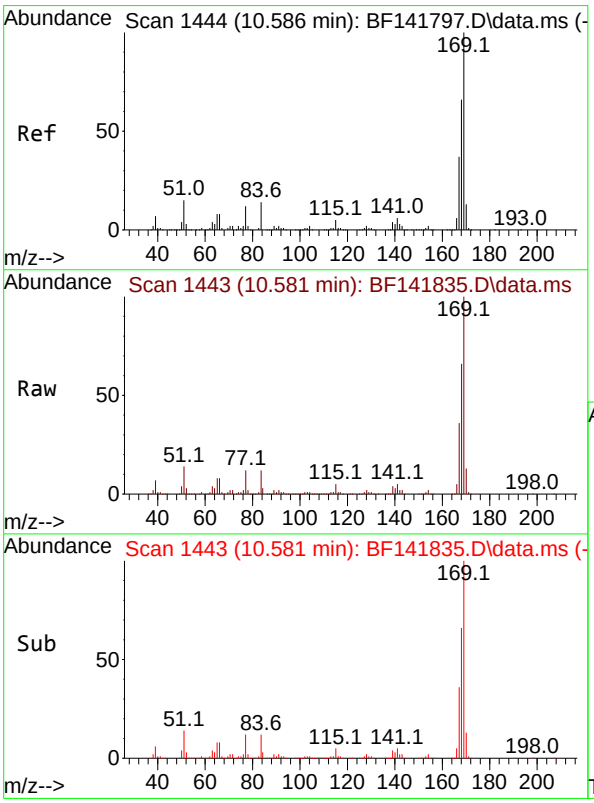

#65
4,6-Dinitro-2-methylphenol
Concen: 51.268 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:198 Resp: 213658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 46.9 | 32.1 | 72.1 |
| 105 | 45.1 | 28.5 | 68.5 |

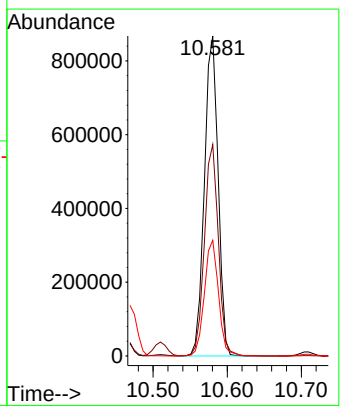


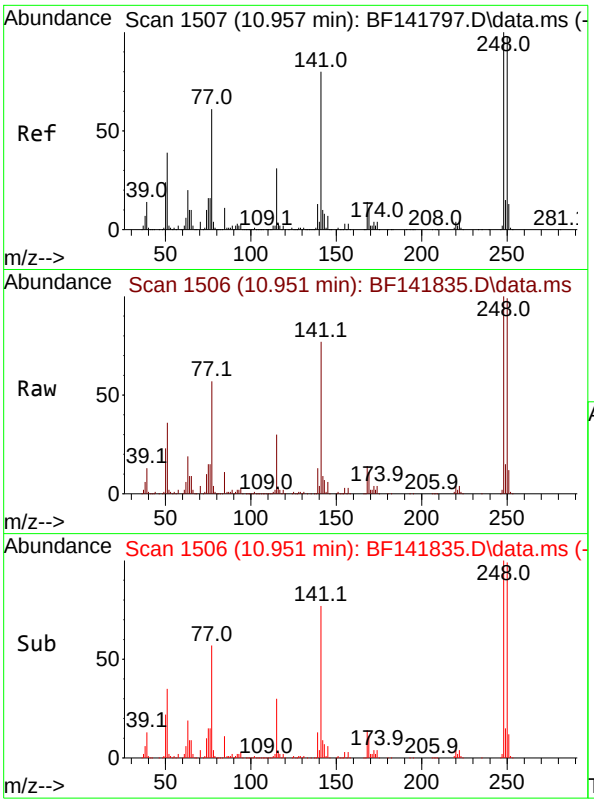




#66
n-Nitrosodiphenylamine
Concen: 38.849 ng
RT: 10.581 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:169 Resp: 1114485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.1 | 53.0 | 79.6 |
| 167 | 36.2 | 29.3 | 43.9 |



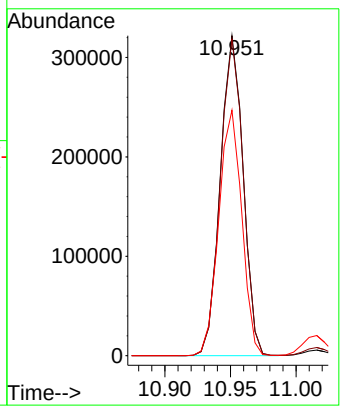


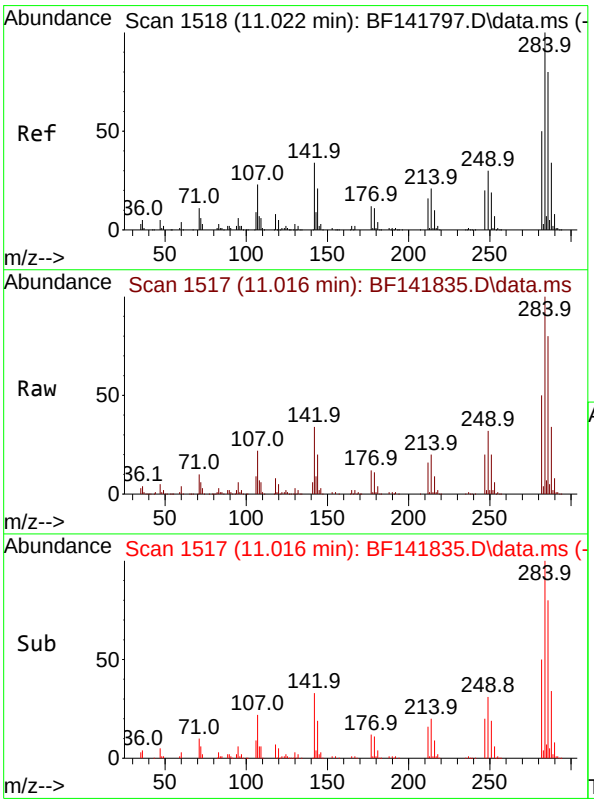

#67
4-Bromophenyl-phenylether
Concen: 38.195 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:248 Resp: 389763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 99.0 | 78.1 | 117.1 |
| 141 | 76.7 | 64.3 | 96.5 |

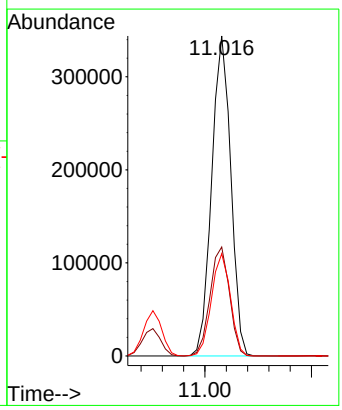


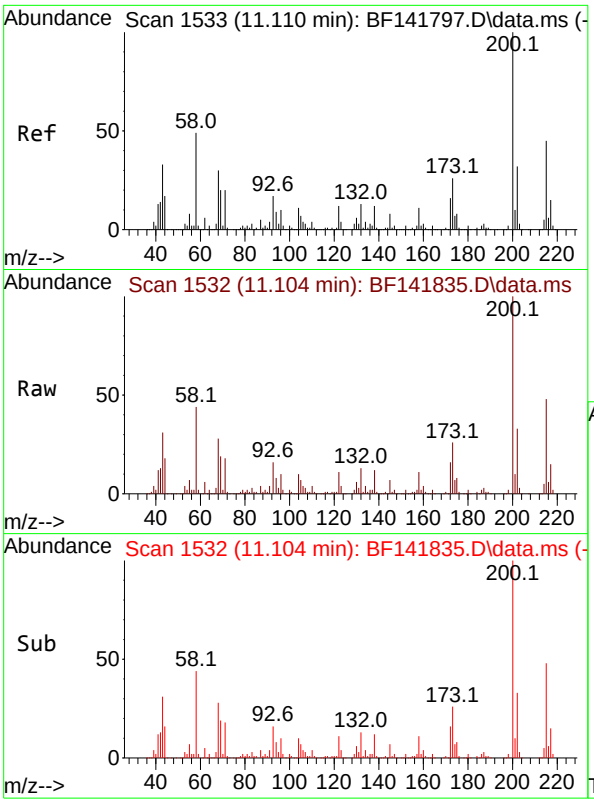




#68
Hexachlorobenzene
Concen: 39.651 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:284 Resp: 427268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 34.1 | 28.2 | 42.2 |
| 249 | 31.9 | 25.5 | 38.3 |



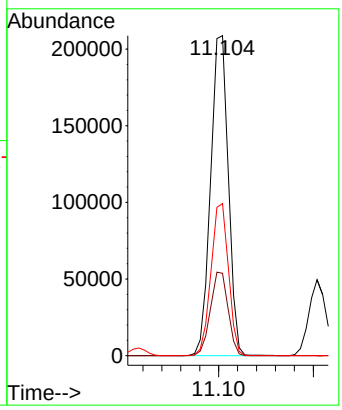


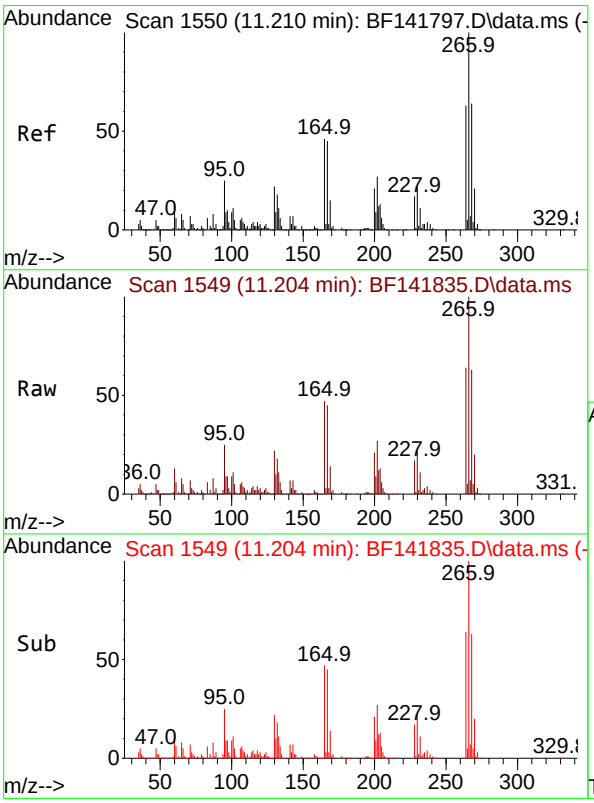

#69
Atrazine
Concen: 34.483 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:200 Resp: 272033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.8 | 5.6 | 45.6 |
| 215 | 47.6 | 25.3 | 65.3 |

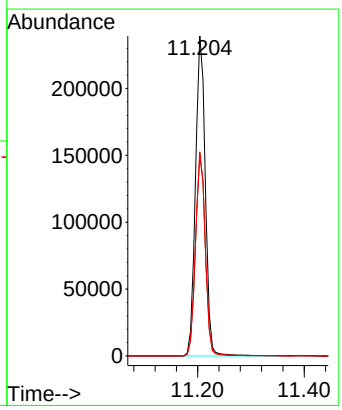


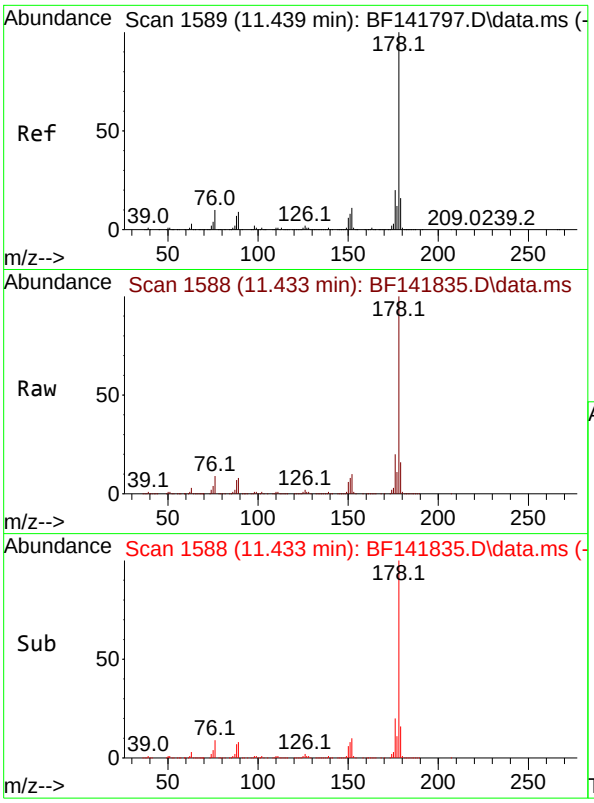




#70
Pentachlorophenol
Concen: 45.085 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:266 Resp: 308128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.0 | 50.9 | 76.3 |
| 264 | 63.8 | 50.2 | 75.4 |



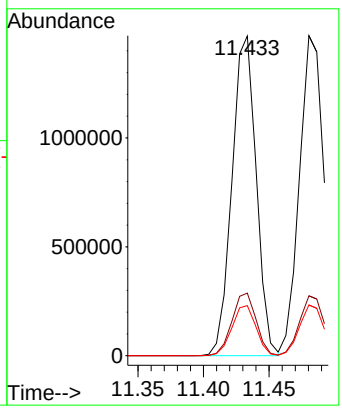


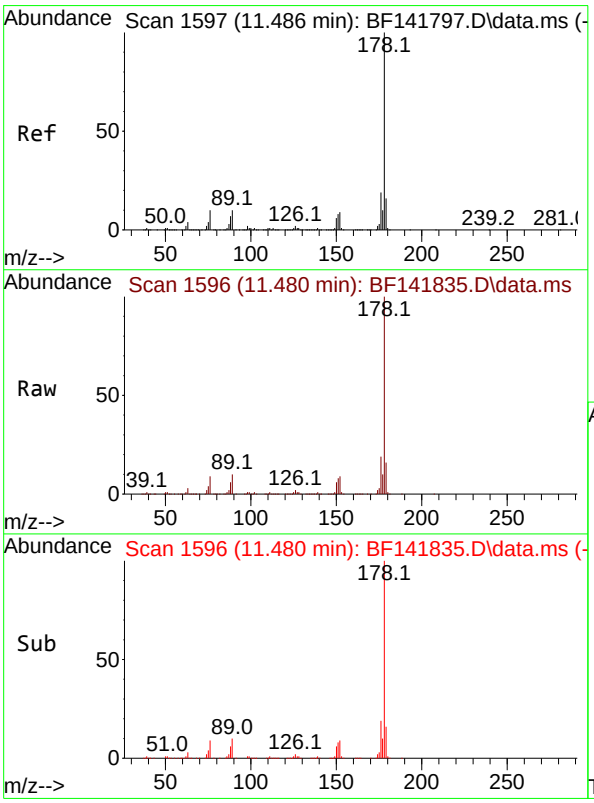

#71
Phenanthrene
Concen: 40.455 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:178 Resp: 1890507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 16.0 | 24.0 |
| 179 | 15.7 | 12.6 | 19.0 |

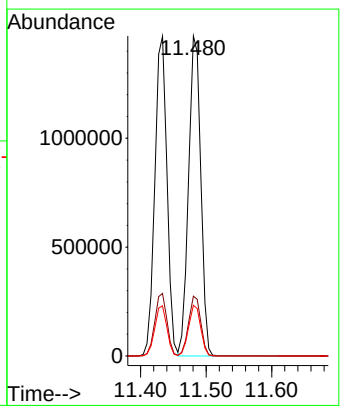


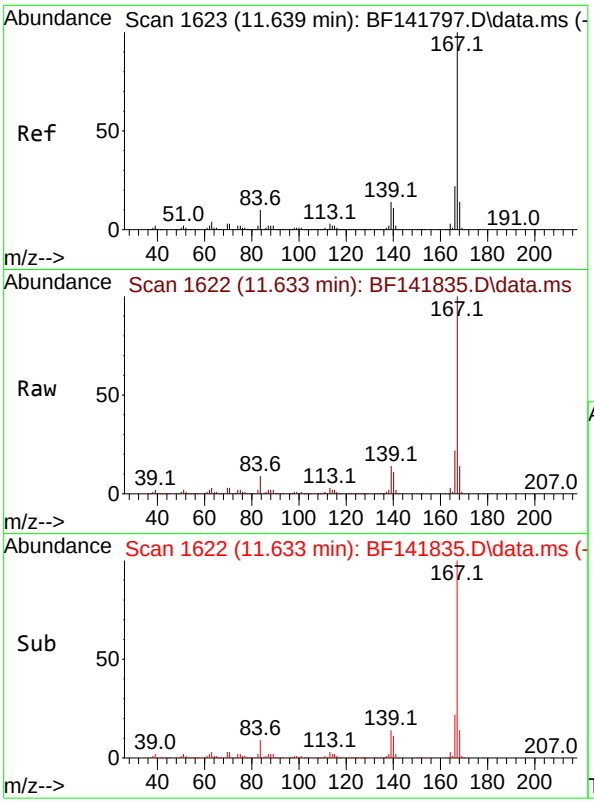




#72
Anthracene
Concen: 40.598 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:178 Resp: 1901419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.7 | 15.4 | 23.0 |
| 179 | 15.8 | 12.8 | 19.2 |



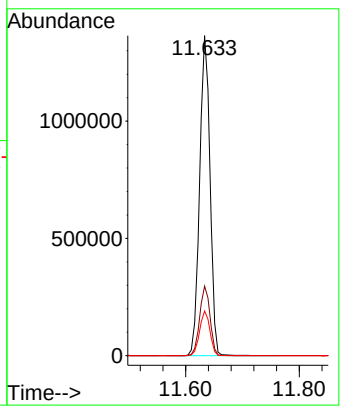


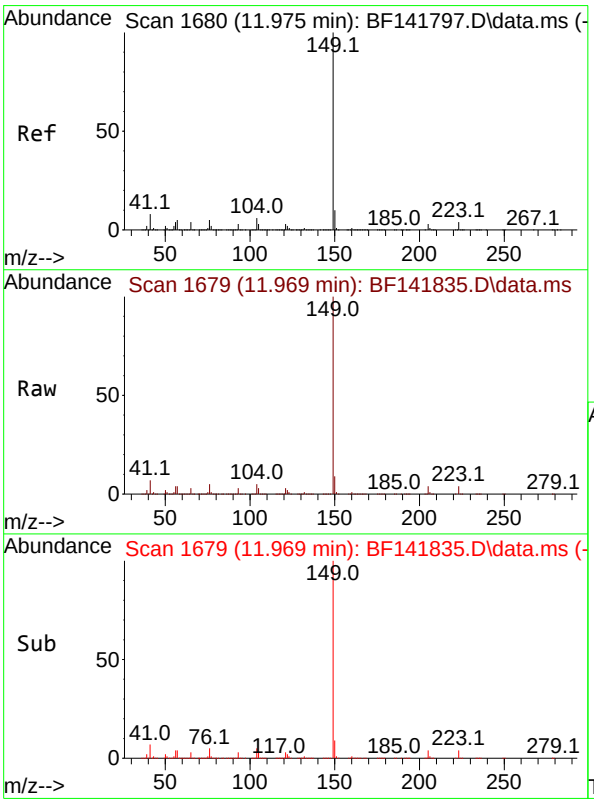

#73
Carbazole
Concen: 41.829 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:167 Resp: 1730017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.8 | 17.5 | 26.3 |
| 139 | 14.0 | 11.3 | 16.9 |

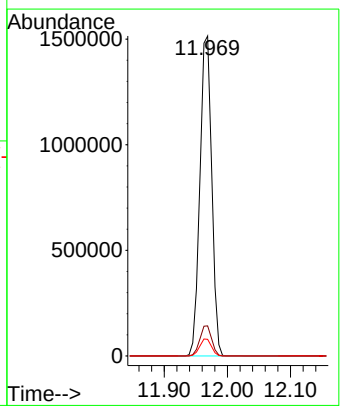


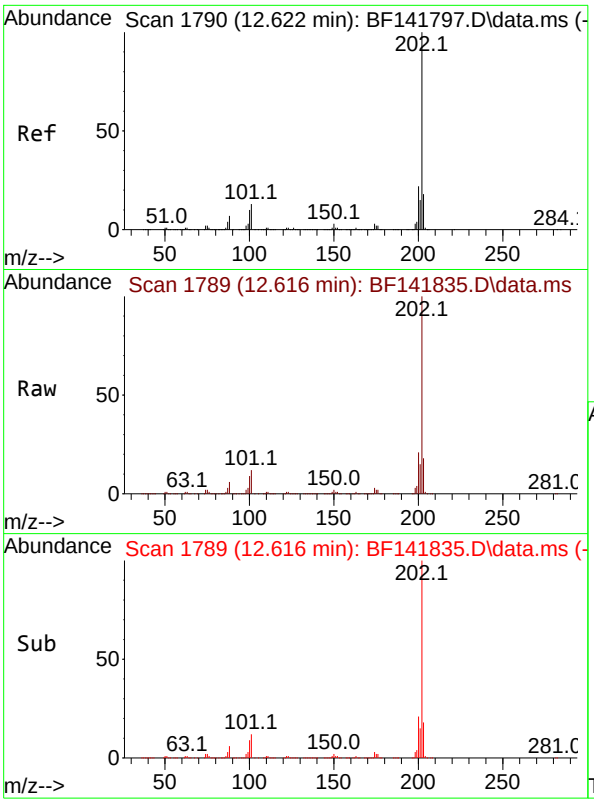




#74
Di-n-butylphthalate
Concen: 37.694 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:149 Resp: 1976148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.4 | 7.7 | 11.5 |
| 104 | 5.2 | 4.4 | 6.6 |



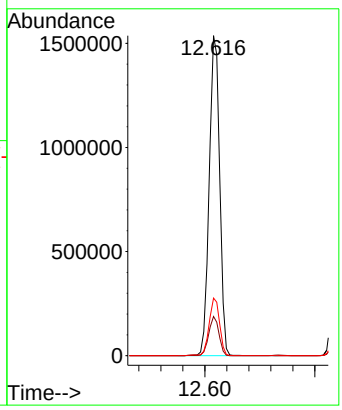


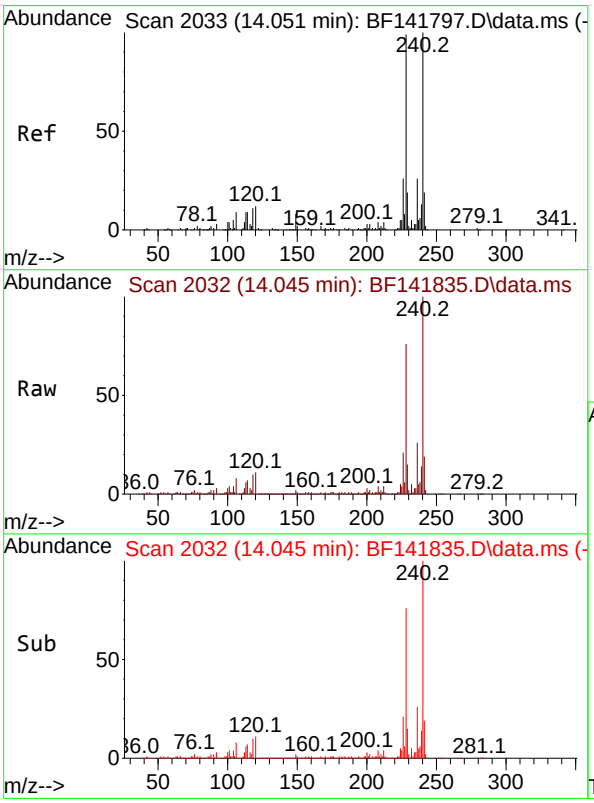

#75
Fluoranthene
Concen: 42.219 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:202 Resp: 2021622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 12.3 | 0.0 | 32.8 |
| 203 | 18.0 | 0.0 | 38.0 |

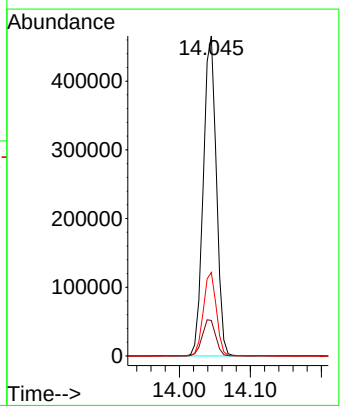


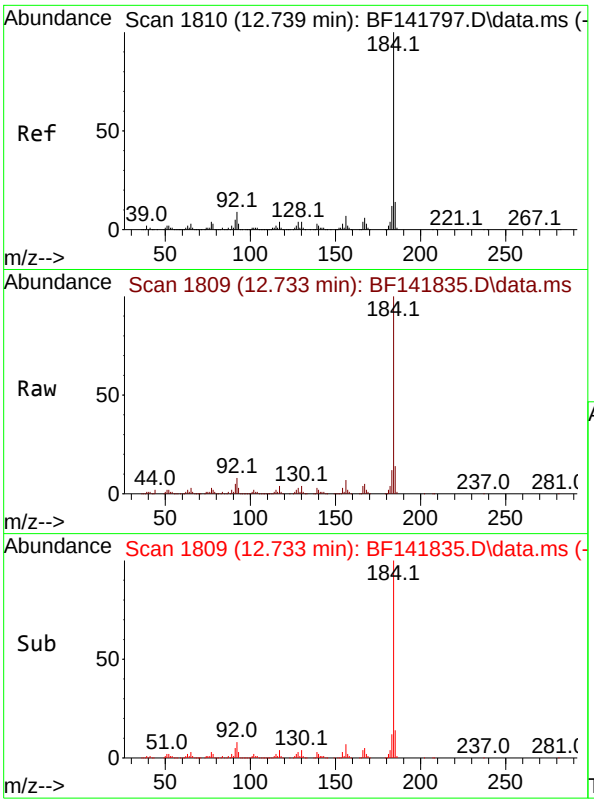




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:240 Resp: 595765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.1 | 9.7 | 14.5 |
| 236 | 26.1 | 21.0 | 31.4 |



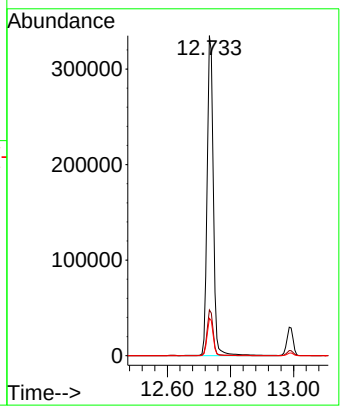


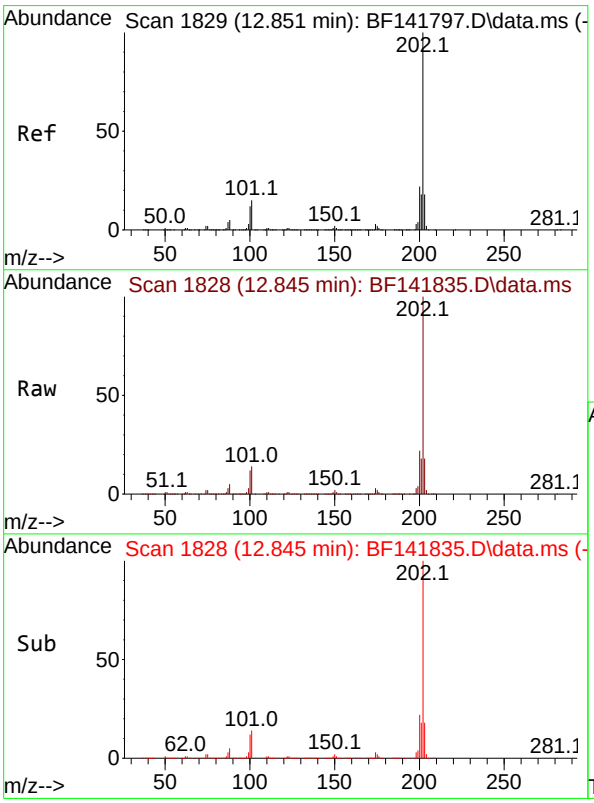

#77
Benzidine
Concen: 60.734 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:184 Resp: 455419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.3 | 11.6 | 17.4 |
| 183 | 11.7 | 9.4 | 14.0 |

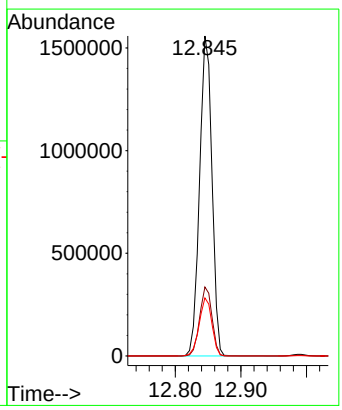


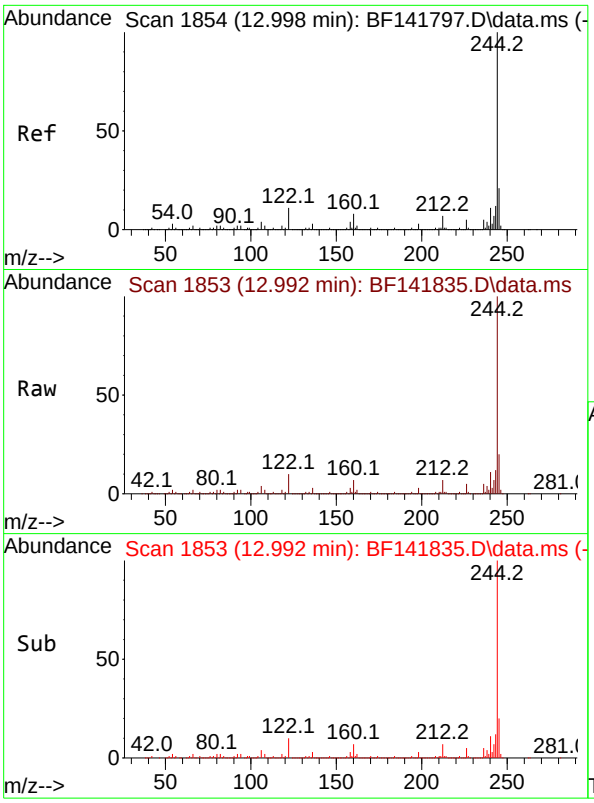




#78
Pyrene
Concen: 39.773 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:202 Resp: 2051898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.5 | 17.4 | 26.0 |
| 203 | 18.2 | 14.6 | 22.0 |



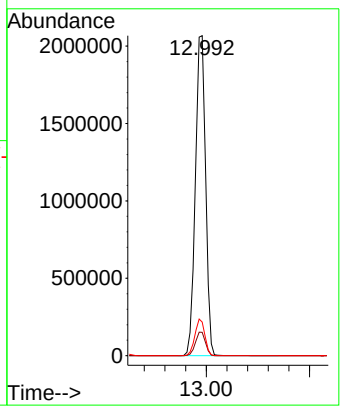


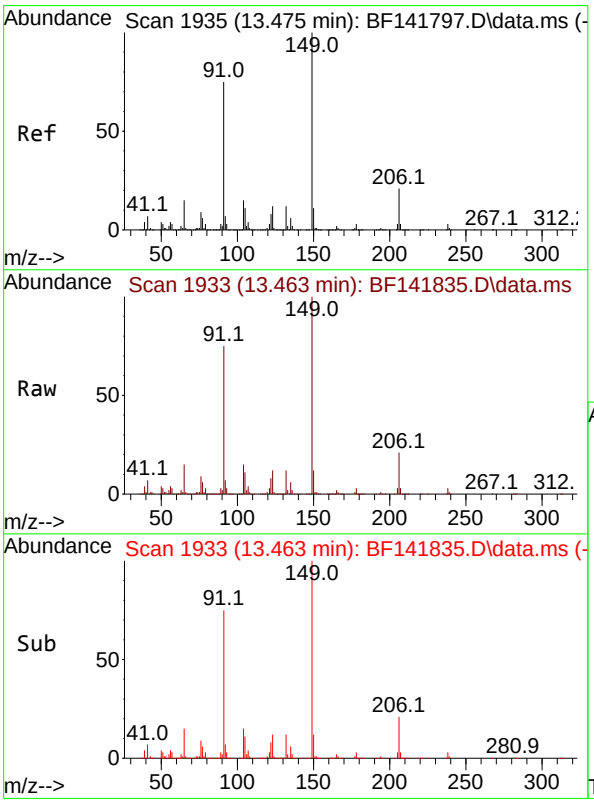

#79
Terphenyl-d14
Concen: 76.987 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:244 Resp: 2834884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.3 | 6.0 | 9.0 |
| 122 | 10.5 | 9.0 | 13.6 |

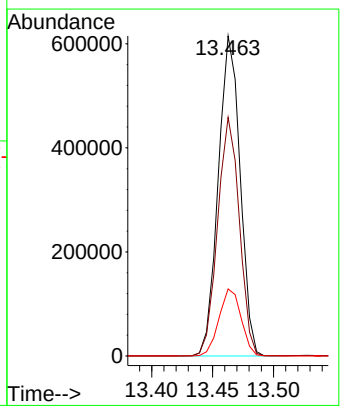


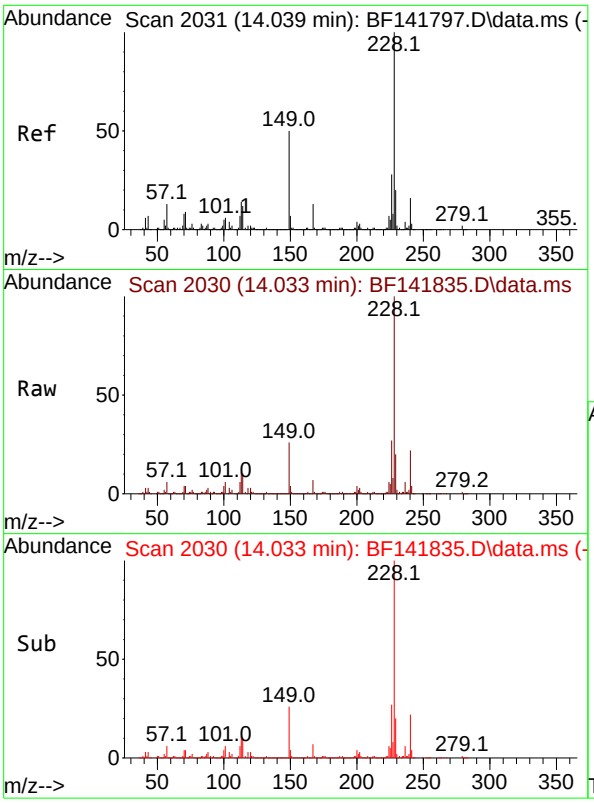




#80
Butylbenzylphthalate
Concen: 41.053 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:149 Resp: 769482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 74.5 | 60.1 | 90.1 |
| 206 | 20.9 | 16.8 | 25.2 |



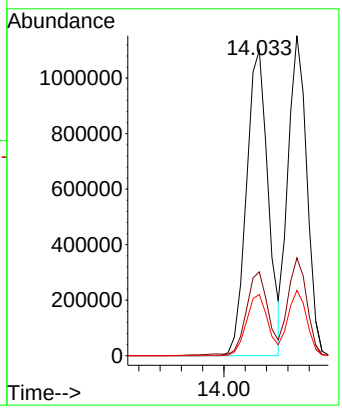


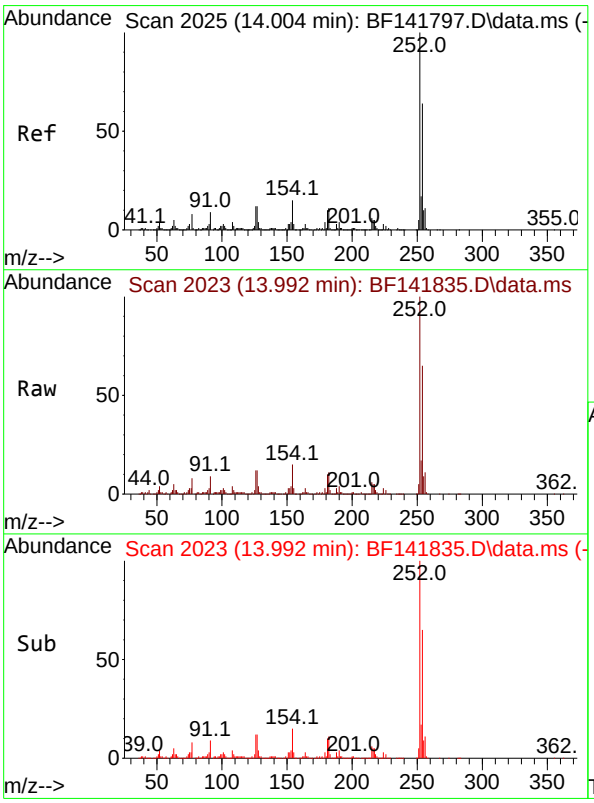

#81
Benzo(a)anthracene
Concen: 39.619 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:228 Resp: 1559065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.4 | 22.1 | 33.1 |
| 229 | 20.1 | 16.1 | 24.1 |

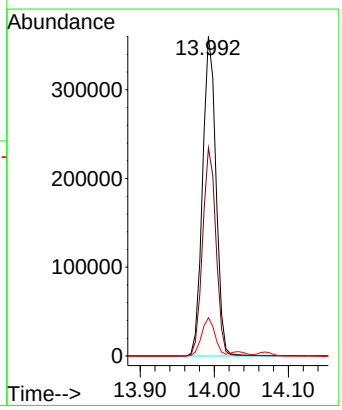


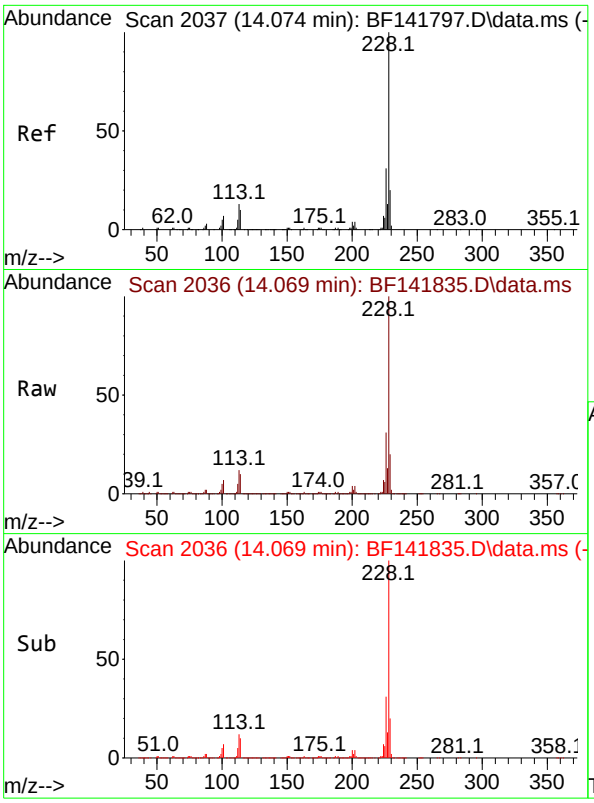




#82
3,3'-Dichlorobenzidine
Concen: 40.293 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:252 Resp: 454914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 65.0 | 51.4 | 77.0 |
| 126 | 12.0 | 9.8 | 14.6 |



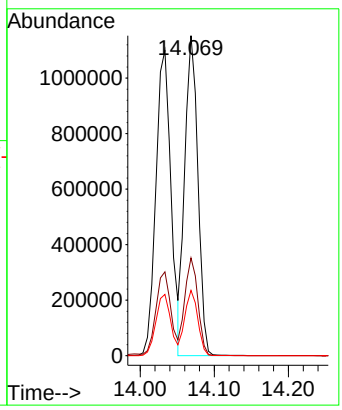


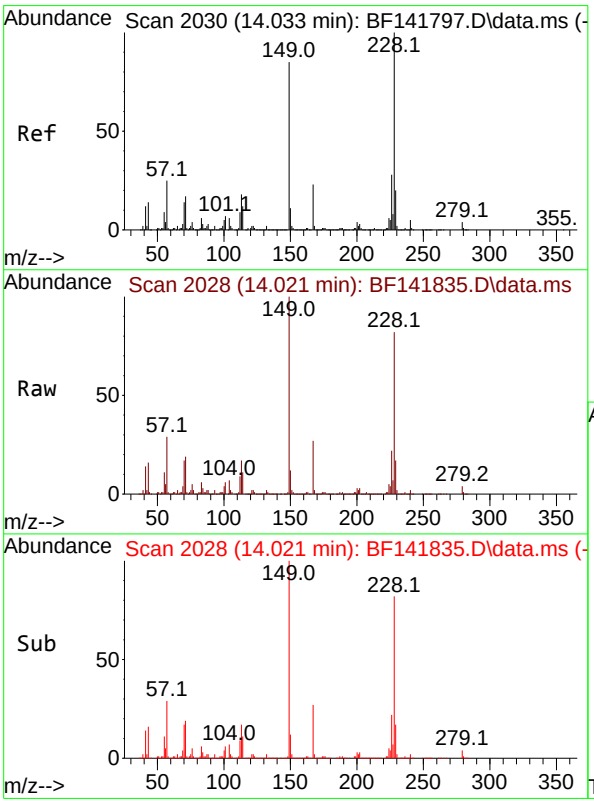

#83
Chrysene
Concen: 39.076 ng
RT: 14.069 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:228 Resp: 1417476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.6 | 24.6 | 37.0 |
| 229 | 20.4 | 16.1 | 24.1 |

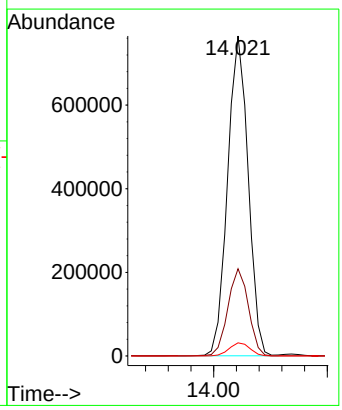


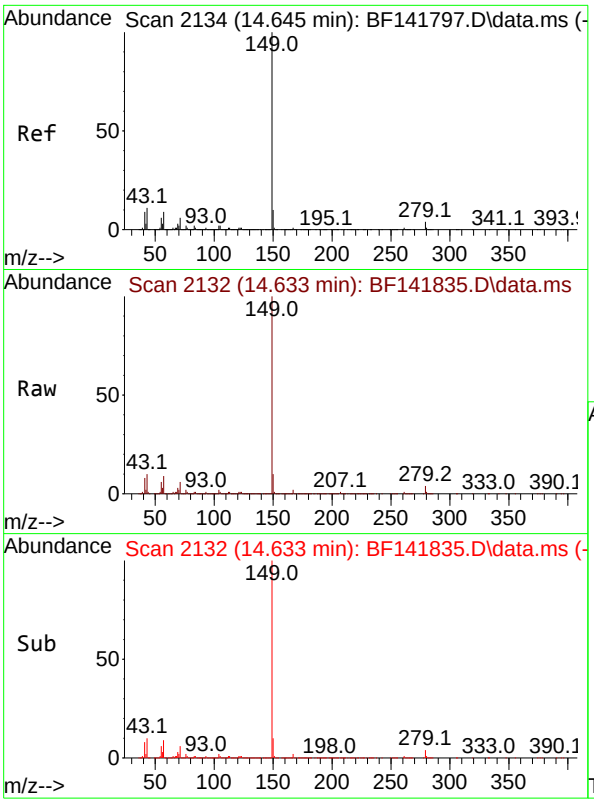




#84
Bis(2-ethylhexyl)phthalate
Concen: 41.198 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:149 Resp: 961512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.2 | 21.2 | 31.8 |
| 279 | 4.1 | 3.3 | 4.9 |



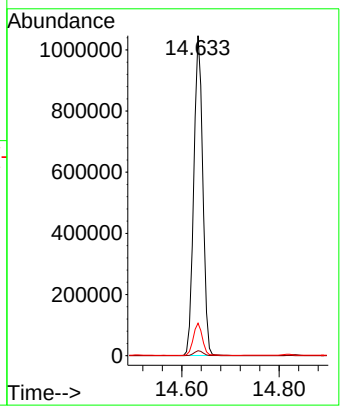


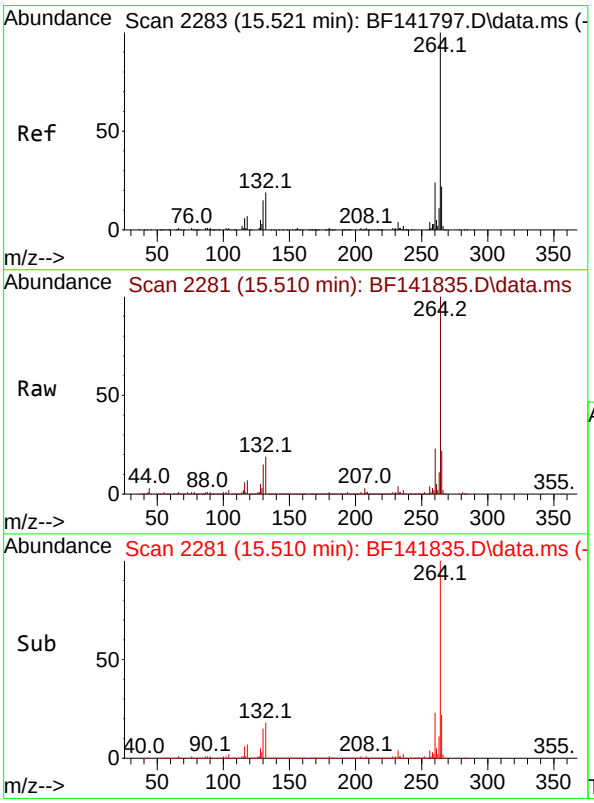

#85
Di-n-octyl phthalate
Concen: 38.592 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:149 Resp: 1348427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.7 | 1.2 | 1.8 |
| 43 | 10.1 | 8.6 | 12.8 |

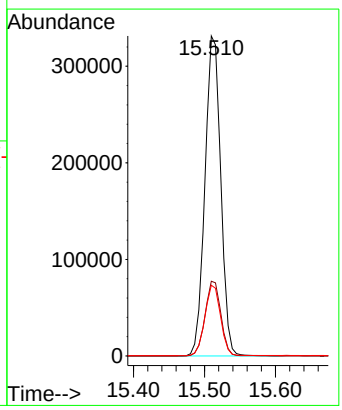


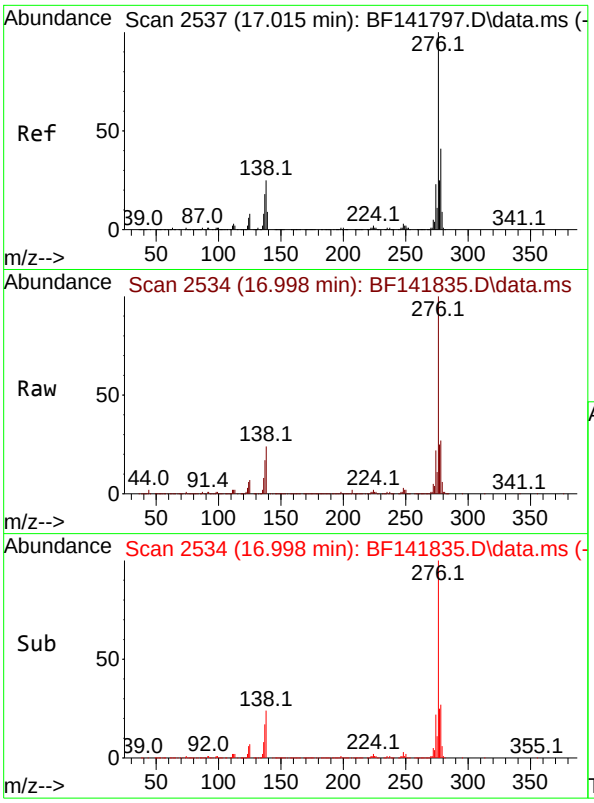




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:264 Resp: 513355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.3 | 18.9 | 28.3 |
| 265 | 22.1 | 17.4 | 26.0 |



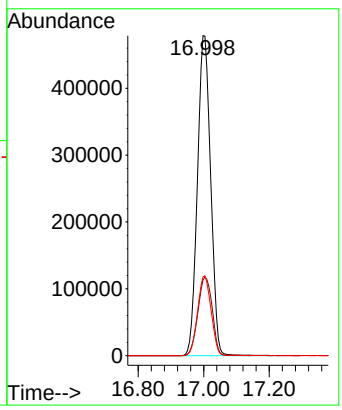


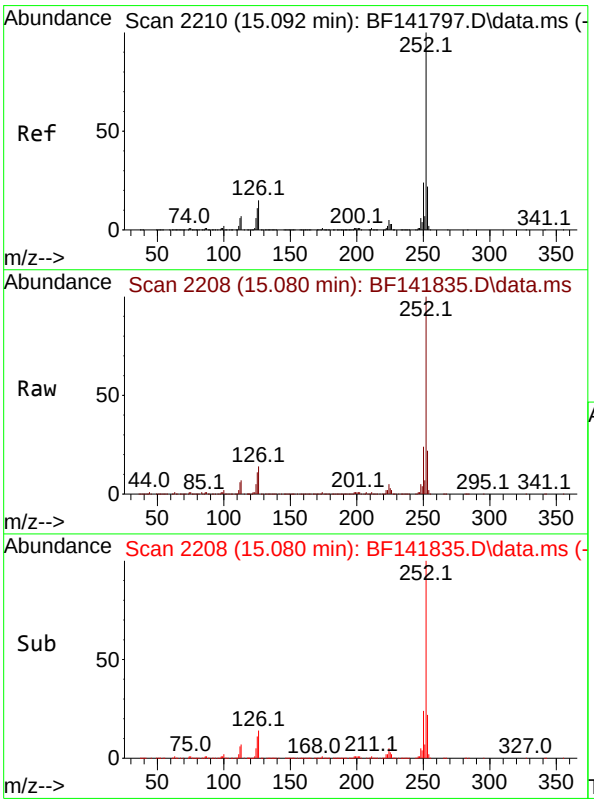

#87
Indeno(1,2,3-cd)pyrene
Concen: 41.147 ng
RT: 16.998 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:276 Resp: 1345046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.6 | 22.5 | 33.7 |
| 277 | 25.4 | 20.3 | 30.5 |

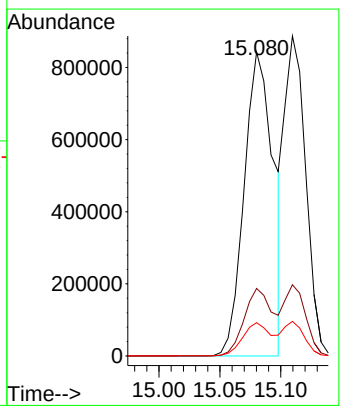


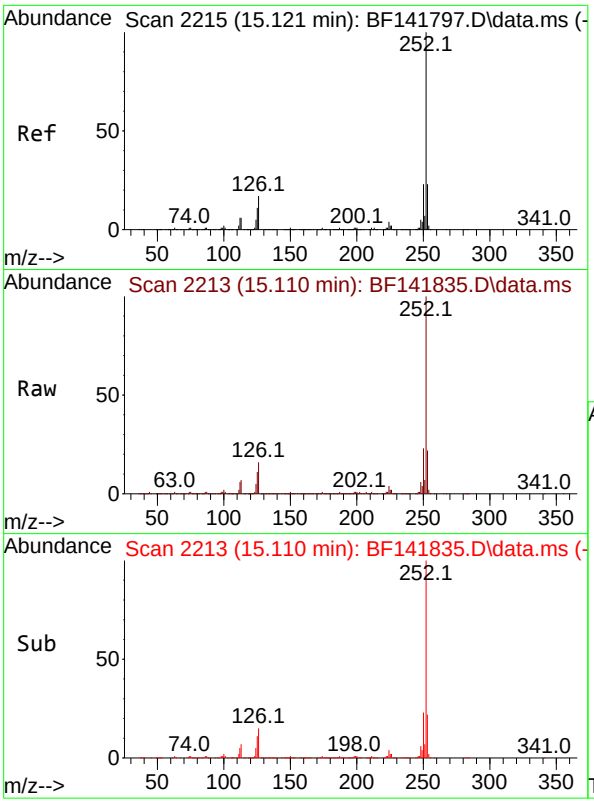




#88
Benzo(b)fluoranthene
Concen: 40.178 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:252 Resp: 1404956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.2 | 17.7 | 26.5 |
| 125 | 11.0 | 8.6 | 13.0 |



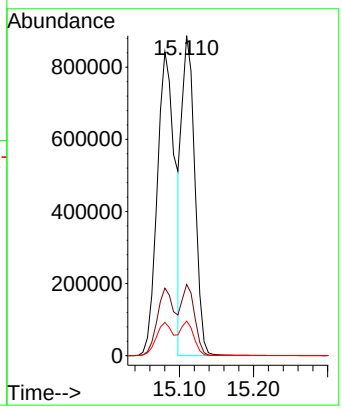


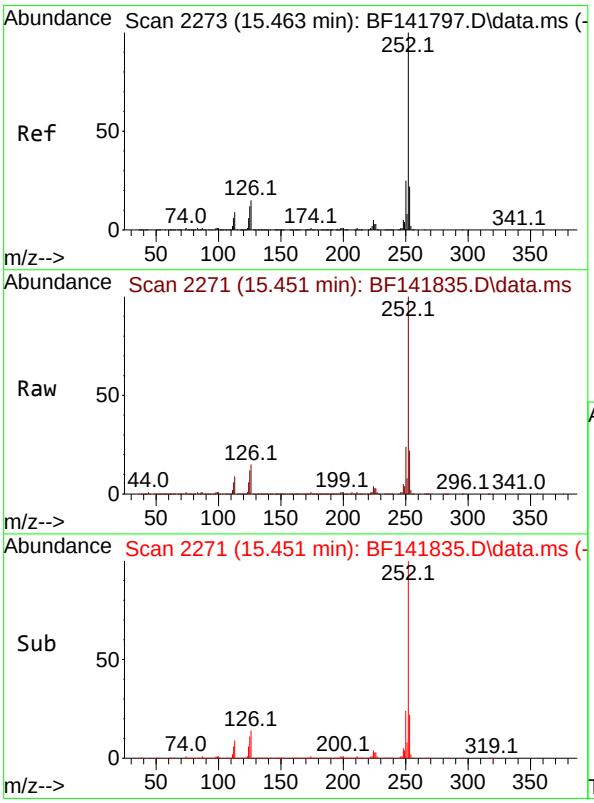

#89
Benzo(k)fluoranthene
Concen: 36.524 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:252 Resp: 1085559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.3 | 17.8 | 26.8 |
| 125 | 10.8 | 8.8 | 13.2 |

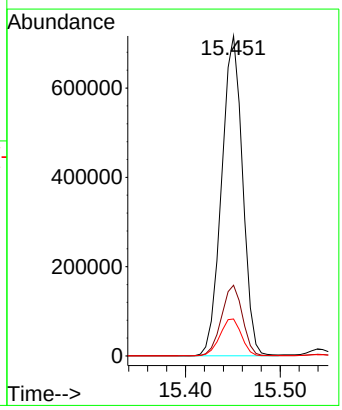


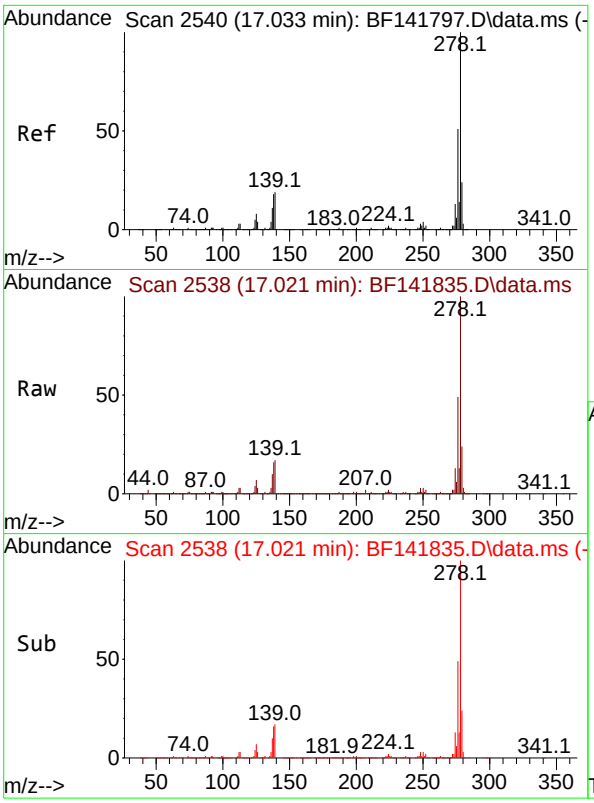




#90
Benzo(a)pyrene
Concen: 39.322 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:252 Resp: 1102749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 17.5 | 26.3 |
| 125 | 11.5 | 9.4 | 14.2 |



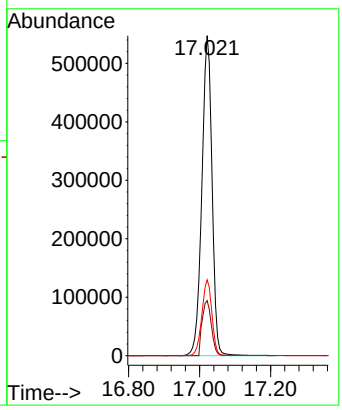


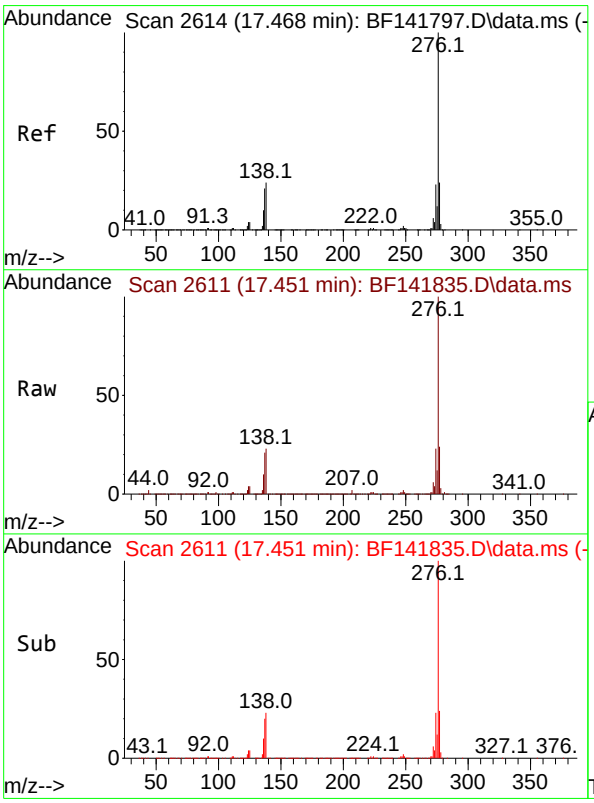

#91
Dibenzo(a,h)anthracene
Concen: 41.050 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:278 Resp: 1095326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 17.2 | 14.9 | 22.3 |
| 279 | 23.7 | 19.3 | 28.9 |

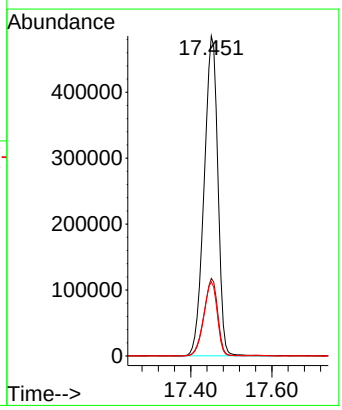



#92
Benzo(g,h,i)perylene
Concen: 41.520 ng
RT: 17.451 min Scan# 2611
Delta R.T. -0.018 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:276 Resp: 1134958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 24.3 | 19.4 | 29.0 |
| 138 | 23.2 | 19.3 | 28.9 |



Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 | 86 | 0.00 |
| 2 | | 1,4-Dioxane | 0.568 | 0.571 | -0.5 | 82 | 0.00 |
| 3 | | Pyridine | 1.414 | 1.429 | -1.1 | 83 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 0.680 | 0.693 | -1.9 | 81 | -0.01 |
| 5 | S | 2-Fluorophenol | 1.252 | 1.263 | -0.9 | 84 | 0.00 |
| 6 | | Aniline | 1.695 | 1.679 | 0.9 | 79 | 0.00 |
| 7 | S | Phenol-d6 | 1.630 | 1.613 | 1.0 | 82 | 0.00 |
| 8 | | 2-Chlorophenol | 1.355 | 1.354 | 0.1 | 82 | 0.00 |
| 9 | | Benzaldehyde | 0.948 | 0.834 | 12.0 | 73 | 0.00 |
| 10 | C | Phenol | 1.742 | 1.734 | 0.5 | 82 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.328 | 1.232 | 7.2 | 79 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.451 | 1.431 | 1.4 | 81 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.462 | 1.450 | 0.8 | 82 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.365 | 1.348 | 1.2 | 82 | 0.00 |
| 15 | | Benzyl Alcohol | 1.303 | 1.272 | 2.4 | 80 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.016 | 1.771 | 12.2 | 73 | 0.00 |
| 17 | | 2-Methylphenol | 1.118 | 1.094 | 2.1 | 80 | 0.00 |
| 18 | | Hexachloroethane | 0.547 | 0.522 | 4.6 | 77 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.072 | 0.955 | 10.9 | 75 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.392 | 1.384 | 0.6 | 82 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 82 | 0.00 |
| 22 | | Acetophenone | 0.487 | 0.480 | 1.4 | 79 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.313 | 0.371 | -18.5 | 89 | 0.00 |
| 24 | | Nitrobenzene | 0.335 | 0.375 | -11.9 | 84 | 0.00 |
| 25 | | Isophorone | 0.672 | 0.633 | 5.8 | 76 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.127 | 0.179 | -40.9# | 102 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.247 | 0.248 | -0.4 | 80 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.429 | 0.395 | 7.9 | 74 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.285 | 0.291 | -2.1 | 80 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.312 | 0.312 | 0.0 | 80 | 0.00 |
| 31 | | Naphthalene | 1.028 | 1.017 | 1.1 | 80 | 0.00 |
| 32 | | Benzoic acid | 0.179 | 0.248 | -38.5# | 106 | -0.01 |
| 33 | | 4-Chloroaniline | 0.377 | 0.378 | -0.3 | 81 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.194 | 0.187 | 3.6 | 77 | 0.00 |
| 35 | | Caprolactam | 0.088 | 0.098 | -11.4 | 88 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 0.317 | 0.324 | -2.2 | 81 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.674 | 0.657 | 2.5 | 79 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.647 | 0.645 | 0.3 | 81 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 81 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.578 | 0.577 | 0.2 | 80 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.241 | 0.235 | 2.5 | 74 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.188 | 0.210 | -11.7 | 85 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.373 | 0.395 | -5.9 | 81 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.369 | 0.412 | -11.7 | 87 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 1.247 | 1.230 | 1.4 | 81 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.522 | 1.505 | 1.1 | 80 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.124 | 1.144 | -1.8 | 82 | 0.00 |

Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 | 0.260 | 0.374 | -43.8# | 101 | 0.00 |
| 49 | | Acenaphthylene | 1.685 | 1.726 | -2.4 | 82 | 0.00 |
| 50 | | Dimethylphthalate | 1.339 | 1.326 | 1.0 | 79 | -0.01 |
| 51 | | 2,6-Dinitrotoluene | 0.226 | 0.297 | -31.4# | 94 | 0.00 |
| 52 | C | Acenaphthene | 1.137 | 1.188 | -4.5 | 84 | 0.00 |
| 53 | | 3-Nitroaniline | 0.241 | 0.328 | -36.1# | 96 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.089 | 0.149 | -67.4# | 131 | 0.00 |
| 55 | | Dibenzofuran | 1.654 | 1.670 | -1.0 | 82 | 0.00 |
| 56 | P | 4-Nitrophenol | 0.198 | 0.283 | -42.9# | 101 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 0.269 | 0.392 | -45.7# | 102 | 0.00 |
| 58 | | Fluorene | 1.239 | 1.253 | -1.1 | 83 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.321 | 0.351 | -9.3 | 84 | 0.00 |
| 60 | | Diethylphthalate | 1.343 | 1.320 | 1.7 | 77 | -0.01 |
| 61 | | 4-Chlorophenyl-phenylether | 0.621 | 0.606 | 2.4 | 79 | 0.00 |
| 62 | | 4-Nitroaniline | 0.229 | 0.330 | -44.1# | 100 | -0.01 |
| 63 | | Azobenzene | 1.414 | 1.353 | 4.3 | 76 | 0.00 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 85 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.081 | 0.122 | -50.6# | 119 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 0.657 | 0.638 | 2.9 | 81 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.234 | 0.223 | 4.7 | 79 | 0.00 |
| 68 | | Hexachlorobenzene | 0.247 | 0.245 | 0.8 | 82 | 0.00 |
| 69 | | Atrazine | 0.181 | 0.156 | 13.8 | 74 | 0.00 |
| 70 | C | Pentachlorophenol | 0.156 | 0.176 | -12.8 | 89 | 0.00 |
| 71 | | Phenanthrene | 1.070 | 1.082 | -1.1 | 85 | 0.00 |
| 72 | | Anthracene | 1.072 | 1.088 | -1.5 | 86 | 0.00 |
| 73 | | Carbazole | 0.947 | 0.990 | -4.5 | 88 | 0.00 |
| 74 | | Di-n-butylphthalate | 1.200 | 1.131 | 5.7 | 79 | 0.00 |
| 75 | C | Fluoranthene | 1.096 | 1.157 | -5.6 | 90 | 0.00 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 95 | 0.00 |
| 77 | | Benzidine | 0.252 | 0.382 | -51.6# | 139 | 0.00 |
| 78 | | Pyrene | 1.732 | 1.722 | 0.6 | 91 | 0.00 |
| 79 | S | Terphenyl-d14 | 1.236 | 1.190 | 3.7 | 89 | 0.00 |
| 80 | | Butylbenzylphthalate | 0.629 | 0.646 | -2.7 | 92 | -0.01 |
| 81 | | Benzo(a)anthracene | 1.321 | 1.308 | 1.0 | 94 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.379 | 0.382 | -0.8 | 92 | -0.01 |
| 83 | | Chrysene | 1.218 | 1.190 | 2.3 | 89 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.783 | 0.807 | -3.1 | 92 | -0.01 |
| 85 | c | Di-n-octyl phthalate | 1.173 | 1.132 | 3.5 | 82 | -0.01 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 91 | -0.01 |
| 87 | | Indeno(1,2,3-cd)pyrene | 1.274 | 1.310 | -2.8 | 88 | -0.02 |
| 88 | | Benzo(b)fluoranthene | 1.362 | 1.368 | -0.4 | 95 | -0.01 |
| 89 | | Benzo(k)fluoranthene | 1.158 | 1.057 | 8.7 | 79 | -0.01 |
| 90 | C | Benzo(a)pyrene | 1.093 | 1.074 | 1.7 | 87 | -0.01 |
| 91 | | Dibenzo(a,h)anthracene | 1.040 | 1.067 | -2.6 | 87 | -0.01 |
| 92 | | Benzo(g,h,i)perylene | 1.065 | 1.105 | -3.8 | 89 | -0.02 |

Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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

Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 | 86 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 40.225 | -0.6 | 82 | 0.00 |
| 3 | | Pyridine | 40.000 | 40.439 | -1.1 | 83 | 0.00 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 40.740 | -1.9 | 81 | -0.01 |
| 5 | S | 2-Fluorophenol | 80.000 | 80.693 | -0.9 | 84 | 0.00 |
| 6 | | Aniline | 40.000 | 39.633 | 0.9 | 79 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 79.155 | 1.1 | 82 | 0.00 |
| 8 | | 2-Chlorophenol | 40.000 | 39.983 | 0.0 | 82 | 0.00 |
| 9 | | Benzaldehyde | 40.000 | 35.170 | 12.1 | 73 | 0.00 |
| 10 | C | Phenol | 40.000 | 39.824 | 0.4 | 82 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 37.114 | 7.2 | 79 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 39.458 | 1.4 | 81 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 39.687 | 0.8 | 82 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 39.499 | 1.3 | 82 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 39.062 | 2.3 | 80 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 35.131 | 12.2 | 73 | 0.00 |
| 17 | | 2-Methylphenol | 40.000 | 39.120 | 2.2 | 80 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 38.167 | 4.6 | 77 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 35.637 | 10.9 | 75 | 0.00 |
| 20 | | 3+4-Methylphenols | 40.000 | 39.753 | 0.6 | 82 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 82 | 0.00 |
| 22 | | Acetophenone | 40.000 | 39.406 | 1.5 | 79 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 94.823 | -18.5 | 89 | 0.00 |
| 24 | | Nitrobenzene | 40.000 | 44.751 | -11.9 | 84 | 0.00 |
| 25 | | Isophorone | 40.000 | 37.638 | 5.9 | 76 | 0.00 |
| 26 | C | 2-Nitrophenol | 40.000 | 47.760 | -19.4 | 102 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 40.220 | -0.5 | 80 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 36.892 | 7.8 | 74 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 40.846 | -2.1 | 80 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 39.998 | 0.0 | 80 | 0.00 |
| 31 | | Naphthalene | 40.000 | 39.574 | 1.1 | 80 | 0.00 |
| 32 | | Benzoic acid | 40.000 | 48.051 | -20.1 | 106 | -0.01 |
| 33 | | 4-Chloroaniline | 40.000 | 40.091 | -0.2 | 81 | 0.00 |
| 34 | C | Hexachlorobutadiene | 40.000 | 38.603 | 3.5 | 77 | 0.00 |
| 35 | | Caprolactam | 40.000 | 44.676 | -11.7 | 88 | 0.00 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 40.944 | -2.4 | 81 | 0.00 |
| 37 | | 2-Methylnaphthalene | 40.000 | 38.964 | 2.6 | 79 | 0.00 |
| 38 | | 1-Methylnaphthalene | 40.000 | 39.860 | 0.4 | 81 | 0.00 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 81 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 39.950 | 0.1 | 80 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 38.977 | 2.6 | 74 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 89.332 | -11.7 | 85 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 42.317 | -5.8 | 81 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 44.643 | -11.6 | 87 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 80.000 | 78.861 | 1.4 | 81 | 0.00 |
| 46 | | 1,1'-Biphenyl | 40.000 | 39.541 | 1.1 | 80 | 0.00 |
| 47 | | 2-Chloronaphthalene | 40.000 | 40.733 | -1.8 | 82 | 0.00 |

Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 | 48.579 | -21.4 | 101 | 0.00 |
| 49 | | Acenaphthylene | 40.000 | 40.985 | -2.5 | 82 | 0.00 |
| 50 | | Dimethylphthalate | 40.000 | 39.595 | 1.0 | 79 | -0.01 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 46.487 | -16.2 | 94 | 0.00 |
| 52 | C | Acenaphthene | 40.000 | 41.819 | -4.5 | 84 | 0.00 |
| 53 | | 3-Nitroaniline | 40.000 | 48.006 | -20.0 | 96 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 57.060 | -42.7# | 131 | 0.00 |
| 55 | | Dibenzofuran | 40.000 | 40.368 | -0.9 | 82 | 0.00 |
| 56 | P | 4-Nitrophenol | 40.000 | 57.194 | -43.0# | 101 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 49.981 | -25.0 | 102 | 0.00 |
| 58 | | Fluorene | 40.000 | 40.458 | -1.1 | 83 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 43.711 | -9.3 | 84 | 0.00 |
| 60 | | Diethylphthalate | 40.000 | 39.332 | 1.7 | 77 | -0.01 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 39.043 | 2.4 | 79 | 0.00 |
| 62 | | 4-Nitroaniline | 40.000 | 57.675 | -44.2# | 100 | -0.01 |
| 63 | | Azobenzene | 40.000 | 38.283 | 4.3 | 76 | 0.00 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 85 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 51.268 | -28.2# | 119 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 38.849 | 2.9 | 81 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 38.195 | 4.5 | 79 | 0.00 |
| 68 | | Hexachlorobenzene | 40.000 | 39.651 | 0.9 | 82 | 0.00 |
| 69 | | Atrazine | 40.000 | 34.483 | 13.8 | 74 | 0.00 |
| 70 | C | Pentachlorophenol | 40.000 | 45.085 | -12.7 | 89 | 0.00 |
| 71 | | Phenanthrene | 40.000 | 40.455 | -1.1 | 85 | 0.00 |
| 72 | | Anthracene | 40.000 | 40.598 | -1.5 | 86 | 0.00 |
| 73 | | Carbazole | 40.000 | 41.829 | -4.6 | 88 | 0.00 |
| 74 | | Di-n-butylphthalate | 40.000 | 37.694 | 5.8 | 79 | 0.00 |
| 75 | C | Fluoranthene | 40.000 | 42.219 | -5.5 | 90 | 0.00 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 95 | 0.00 |
| 77 | | Benzidine | 40.000 | 60.734 | -51.8# | 139 | 0.00 |
| 78 | | Pyrene | 40.000 | 39.773 | 0.6 | 91 | 0.00 |
| 79 | S | Terphenyl-d14 | 80.000 | 76.987 | 3.8 | 89 | 0.00 |
| 80 | | Butylbenzylphthalate | 40.000 | 41.053 | -2.6 | 92 | -0.01 |
| 81 | | Benzo(a)anthracene | 40.000 | 39.619 | 1.0 | 94 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 40.293 | -0.7 | 92 | -0.01 |
| 83 | | Chrysene | 40.000 | 39.076 | 2.3 | 89 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 41.198 | -3.0 | 92 | -0.01 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 38.592 | 3.5 | 82 | -0.01 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 91 | -0.01 |
| 87 | | Indeno(1,2,3-cd)pyrene | 40.000 | 41.147 | -2.9 | 88 | -0.02 |
| 88 | | Benzo(b)fluoranthene | 40.000 | 40.178 | -0.4 | 95 | -0.01 |
| 89 | | Benzo(k)fluoranthene | 40.000 | 36.524 | 8.7 | 79 | -0.01 |
| 90 | C | Benzo(a)pyrene | 40.000 | 39.322 | 1.7 | 87 | -0.01 |
| 91 | | Dibenzo(a,h)anthracene | 40.000 | 41.050 | -2.6 | 87 | -0.01 |
| 92 | | Benzo(g,h,i)perylene | 40.000 | 41.520 | -3.8 | 89 | -0.02 |

Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1485 SAS No.: Q1485 SDG No.: Q1485

Instrument ID: BNA_F Calibration Date/Time: 03/06/2025 09:52

Lab File ID: BF141858.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| 2-Fluorophenol | 1.252 | 1.263 | | 0.9 | |
| Benzaldehyde | 0.948 | 0.847 | | -10.7 | |
| Phenol-d6 | 1.630 | 1.584 | | -2.8 | |
| Phenol | 1.742 | 1.692 | | -2.9 | 20.0 |
| bis(2-Chloroethyl)ether | 1.328 | 1.246 | | -6.2 | |
| 2-Chlorophenol | 1.355 | 1.366 | | 0.8 | |
| 2-Methylphenol | 1.118 | 1.076 | | -3.8 | |
| 2,2-oxybis(1-Chloropropane) | 2.016 | 1.664 | | -17.5 | |
| Acetophenone | 0.487 | 0.490 | | 0.6 | |
| 3+4-Methylphenols | 1.392 | 1.366 | | -1.9 | |
| n-Nitroso-di-n-propylamine | 1.072 | 0.946 | 0.050 | -11.8 | |
| Nitrobenzene-d5 | 0.313 | 0.382 | | 22.0 | |
| Hexachloroethane | 0.547 | 0.554 | | 1.3 | |
| Nitrobenzene | 0.335 | 0.382 | | 14.0 | |
| Isophorone | 0.672 | 0.635 | | -5.5 | |
| 2-Nitrophenol | 0.127 | 0.188 | | 48.0 | 20.0 |
| 2,4-Dimethylphenol | 0.247 | 0.253 | | 2.4 | |
| bis(2-Chloroethoxy)methane | 0.429 | 0.412 | | -4.0 | |
| 2,4-Dichlorophenol | 0.285 | 0.305 | | 7.0 | 20.0 |
| Naphthalene | 1.028 | 1.054 | | 2.5 | |
| 4-Chloroaniline | 0.377 | 0.374 | | -0.8 | |
| Hexachlorobutadiene | 0.194 | 0.208 | | 7.2 | 20.0 |
| Caprolactam | 0.088 | 0.093 | | 5.7 | |
| 4-Chloro-3-methylphenol | 0.317 | 0.330 | | 4.1 | 20.0 |
| 2-Methylnaphthalene | 0.674 | 0.684 | | 1.5 | |
| Hexachlorocyclopentadiene | 0.241 | 0.266 | 0.050 | 10.4 | |
| 2,4,6-Trichlorophenol | 0.373 | 0.399 | | 7.0 | 20.0 |
| 2-Fluorobiphenyl | 1.247 | 1.292 | | 3.6 | |
| 2,4,5-Trichlorophenol | 0.369 | 0.413 | | 11.9 | |
| 1,1-Biphenyl | 1.522 | 1.560 | | 2.5 | |
| 2-Chloronaphthalene | 1.124 | 1.157 | | 2.9 | |
| 2-Nitroaniline | 0.260 | 0.356 | | 36.9 | |
| Dimethylphthalate | 1.339 | 1.363 | | 1.8 | |
| Acenaphthylene | 1.685 | 1.735 | | 3.0 | |
| 2,6-Dinitrotoluene | 0.226 | 0.300 | | 32.7 | |
| 3-Nitroaniline | 0.241 | 0.314 | | 30.3 | |
| Acenaphthene | 1.137 | 1.209 | | 6.3 | 20.0 |
| 2,4-Dinitrophenol | 0.089 | 0.159 | 0.050 | 78.7 | |
| 4-Nitrophenol | 0.198 | 0.262 | 0.050 | 32.3 | |

Raw Data: **BF141858.D**

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1485 SAS No.: Q1485 SDG No.: Q1485

Instrument ID: BNA_F Calibration Date/Time: 03/06/2025 09:52

Lab File ID: BF141858.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

GC Column: DB-UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF040 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dibenzofuran | 1.654 | 1.682 | | 1.7 | |
| 2,4-Dinitrotoluene | 0.269 | 0.396 | | 47.2 | |
| Diethylphthalate | 1.343 | 1.344 | | 0.1 | |
| 4-Chlorophenyl-phenylether | 0.621 | 0.640 | | 3.1 | |
| Fluorene | 1.239 | 1.270 | | 2.5 | |
| 4-Nitroaniline | 0.229 | 0.307 | | 34.1 | |
| 4,6-Dinitro-2-methylphenol | 0.081 | 0.132 | | 63.0 | |
| n-Nitrosodiphenylamine | 0.657 | 0.670 | | 2.0 | 20.0 |
| 2,4,6-Tribromophenol | 0.188 | 0.224 | | 19.1 | |
| 4-Bromophenyl-phenylether | 0.234 | 0.243 | | 3.8 | |
| Hexachlorobenzene | 0.247 | 0.266 | | 7.7 | |
| Atrazine | 0.181 | 0.155 | | -14.4 | |
| Pentachlorophenol | 0.156 | 0.186 | | 19.2 | 20.0 |
| Phenanthrene | 1.070 | 1.115 | | 4.2 | |
| Anthracene | 1.072 | 1.115 | | 4.0 | |
| Carbazole | 0.947 | 0.988 | | 4.3 | |
| Di-n-butylphthalate | 1.200 | 1.188 | | -1.0 | |
| Fluoranthene | 1.096 | 1.142 | | 4.2 | 20.0 |
| Pyrene | 1.732 | 1.820 | | 5.1 | |
| Terphenyl-d14 | 1.236 | 1.301 | | 5.3 | |
| Butylbenzylphthalate | 0.629 | 0.650 | | 3.3 | |
| 3,3-Dichlorobenzidine | 0.379 | 0.405 | | 6.9 | |
| Benzo(a)anthracene | 1.321 | 1.360 | | 3.0 | |
| Chrysene | 1.218 | 1.218 | | 0.0 | |
| Bis(2-ethylhexyl)phthalate | 0.783 | 0.799 | | 2.0 | |
| Di-n-octyl phthalate | 1.173 | 1.163 | | -0.9 | 20.0 |
| Benzo(b)fluoranthene | 1.362 | 1.388 | | 1.9 | |
| Benzo(k)fluoranthene | 1.158 | 1.073 | | -7.3 | |
| Benzo(a)pyrene | 1.093 | 1.113 | | 1.8 | 20.0 |
| Indeno(1,2,3-cd)pyrene | 1.274 | 1.507 | | 18.3 | |
| Dibenzo(a,h)anthracene | 1.040 | 1.220 | | 17.3 | |
| Benzo(g,h,i)perylene | 1.065 | 1.282 | | 20.4 | |
| 1,2,4,5-Tetrachlorobenzene | 0.578 | 0.607 | | 5.0 | |
| 1,4-Dioxane | 0.568 | 0.556 | | -2.1 | 20.0 |
| 2,3,4,6-Tetrachlorophenol | 0.321 | 0.362 | | 12.8 | |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.887 | 152 | 207866 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 779725 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.922 | 164 | 422269 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.404 | 188 | 691934 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.045 | 240 | 434521 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.515 | 264 | 382575 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.498 | 112 | 1050190 | 80.684 | ng | 0.00 |
| 7) Phenol-d6 | 6.510 | 99 | 1317214 | 77.750 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.445 | 82 | 1192671 | 97.772 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.710 | 330 | 378753 | 95.540 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.239 | 172 | 2181831 | 82.849 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.986 | 244 | 2261369 | 84.201 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.663 | 88 | 231018 | 39.116 | ng | 97 |
| 3) Pyridine | 3.434 | 79 | 570443 | 38.819 | ng | 97 |
| 4) n-Nitrosodimethylamine | 3.381 | 42 | 275112 | 38.909 | ng | 98 |
| 6) Aniline | 6.551 | 93 | 662584 | 37.619 | ng | 99 |
| 8) 2-Chlorophenol | 6.669 | 128 | 567877 | 40.331 | ng | 99 |
| 9) Benzaldehyde | 6.439 | 77 | 351965 | 35.716 | ng | 96 |
| 10) Phenol | 6.522 | 94 | 703333 | 38.850 | ng | 99 |
| 11) bis(2-Chloroethyl)ether | 6.622 | 93 | 517816 | 37.524 | ng | 97 |
| 12) 1,3-Dichlorobenzene | 6.828 | 146 | 605732 | 40.171 | ng | 100 |
| 13) 1,4-Dichlorobenzene | 6.904 | 146 | 625404 | 41.163 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 568001 | 40.035 | ng | 99 |
| 15) Benzyl Alcohol | 7.022 | 79 | 524097 | 38.708 | ng | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.163 | 45 | 691607 | 33.001 | ng | 97 |
| 17) 2-Methylphenol | 7.128 | 107 | 447215 | 38.479 | ng | 99 |
| 18) Hexachloroethane | 7.398 | 117 | 230292 | 40.497 | ng | 98 |
| 19) n-Nitroso-di-n-propyla... | 7.298 | 70 | 393107 | 35.298 | ng | 98 |
| 20) 3+4-Methylphenols | 7.281 | 107 | 568081 | 39.253 | ng | 95 |
| 22) Acetophenone | 7.292 | 105 | 764218 | 40.243 | ng | 100 |
| 24) Nitrobenzene | 7.469 | 77 | 596360 | 45.653 | ng | 97 |
| 25) Isophorone | 7.704 | 82 | 990974 | 37.814 | ng | 98 |
| 26) 2-Nitrophenol | 7.781 | 139 | 292782 | 49.968 | ng | 99 |
| 27) 2,4-Dimethylphenol | 7.810 | 122 | 394540 | 40.956 | ng | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.916 | 93 | 642746 | 38.448 | ng | 99 |
| 29) 2,4-Dichlorophenol | 8.016 | 162 | 475671 | 42.802 | ng | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.110 | 180 | 518388 | 42.568 | ng | 99 |
| 31) Naphthalene | 8.192 | 128 | 1644085 | 41.026 | ng | 99 |
| 32) Benzoic acid | 7.916 | 122 | 390032 | 48.428 | ng | 98 |
| 33) 4-Chloroaniline | 8.233 | 127 | 583547 | 39.713 | ng | 99 |
| 34) Hexachlorobutadiene | 8.304 | 225 | 324659 | 42.902 | ng | 99 |
| 35) Caprolactam | 8.598 | 113 | 144396 | 42.235 | ng | 89 |
| 36) 4-Chloro-3-methylphenol | 8.704 | 107 | 514325 | 41.661 | ng | 99 |
| 37) 2-Methylnaphthalene | 8.880 | 142 | 1066438 | 40.571 | ng | 99 |
| 38) 1-Methylnaphthalene | 8.980 | 142 | 1024218 | 40.609 | ng | 98 |
| 40) 1,2,4,5-Tetrachloroben... | 9.045 | 216 | 513015 | 42.066 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.033 | 237 | 224284 | 44.067 | ng | 100 |
| 43) 2,4,6-Trichlorophenol | 9.151 | 196 | 336951 | 42.772 | ng | 100 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

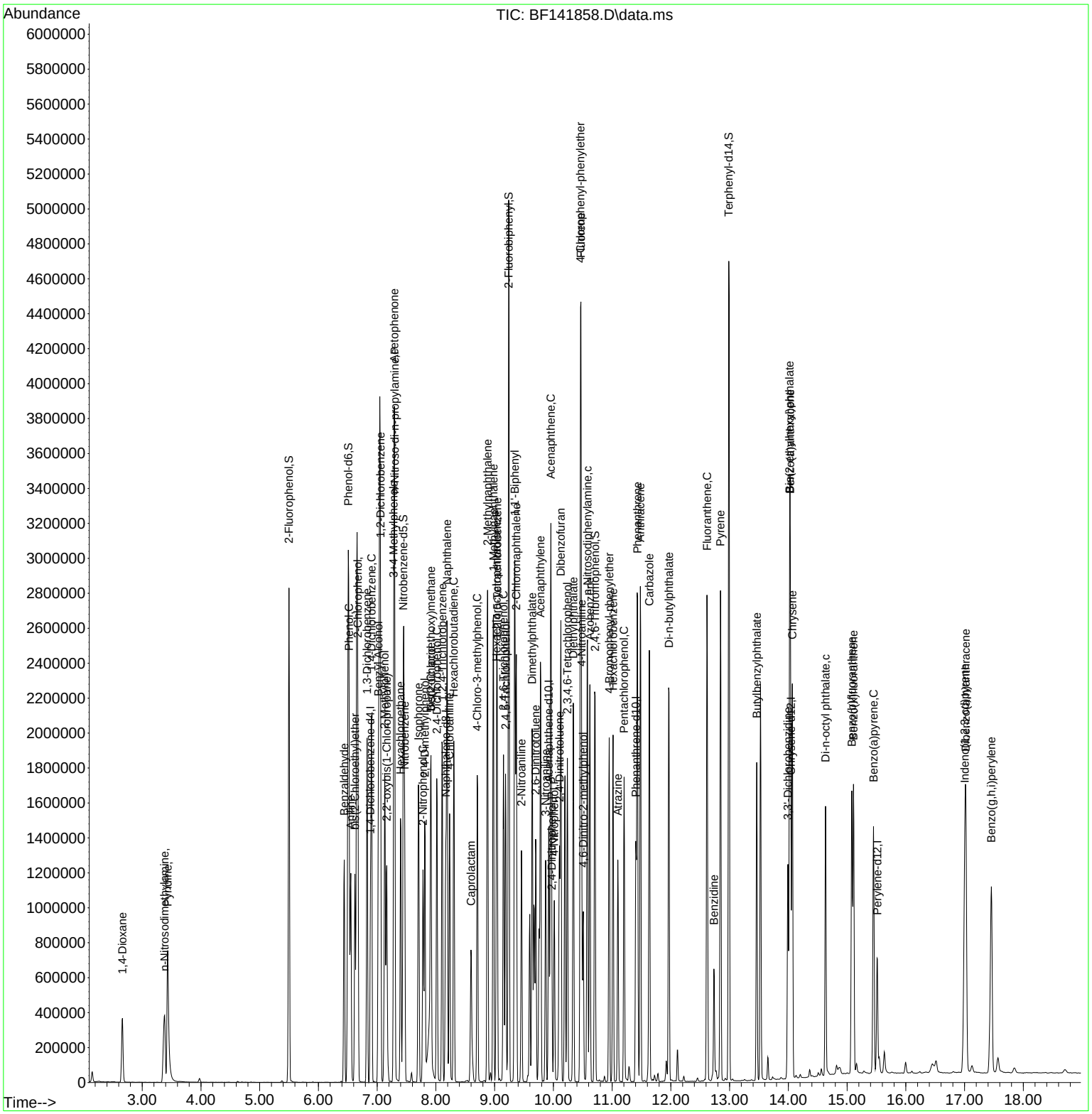
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.186 | 196 | 349000 | 44.739 | ng | | 98 |
| 46) 1,1'-Biphenyl | 9.345 | 154 | 1317612 | 40.994 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.369 | 162 | 977366 | 41.199 | ng | | 99 |
| 48) 2-Nitroaniline | 9.457 | 65 | 301038 | 46.508 | ng | | 95 |
| 49) Acenaphthylene | 9.780 | 152 | 1465550 | 41.204 | ng | | 99 |
| 50) Dimethylphthalate | 9.639 | 163 | 1150740 | 40.693 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.698 | 165 | 253007 | 46.842 | ng | | 96 |
| 52) Acenaphthene | 9.957 | 154 | 1020635 | 42.527 | ng | | 99 |
| 53) 3-Nitroaniline | 9.869 | 138 | 265149 | 46.137 | ng | # | 95 |
| 54) 2,4-Dinitrophenol | 9.975 | 184 | 134035 | 59.722 | ng | # | 1 |
| 55) Dibenzofuran | 10.127 | 168 | 1420674 | 40.671 | ng | | 100 |
| 56) 4-Nitrophenol | 10.016 | 139 | 221169 | 52.954 | ng | | 97 |
| 57) 2,4-Dinitrotoluene | 10.104 | 165 | 334417 | 50.419 | ng | | 90 |
| 58) Fluorene | 10.469 | 166 | 1072855 | 41.003 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232 | 306137 | 45.123 | ng | | 100 |
| 60) Diethylphthalate | 10.339 | 149 | 1135424 | 40.052 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204 | 540721 | 41.246 | ng | | 98 |
| 62) 4-Nitroaniline | 10.480 | 138 | 259275 | 53.688 | ng | | 97 |
| 63) Azobenzene | 10.622 | 77 | 1146863 | 38.422 | ng | | 98 |
| 65) 4,6-Dinitro-2-methylph... | 10.510 | 198 | 182658 | 54.694 | ng | | 90 |
| 66) n-Nitrosodiphenylamine | 10.580 | 169 | 927726 | 40.832 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.951 | 248 | 336262 | 41.606 | ng | | 98 |
| 68) Hexachlorobenzene | 11.016 | 284 | 367747 | 43.090 | ng | | 98 |
| 69) Atrazine | 11.098 | 200 | 214392 | 34.313 | ng | | 98 |
| 70) Pentachlorophenol | 11.204 | 266 | 256754 | 47.434 | ng | | 99 |
| 71) Phenanthrene | 11.433 | 178 | 1542542 | 41.677 | ng | | 99 |
| 72) Anthracene | 11.480 | 178 | 1542354 | 41.580 | ng | | 99 |
| 73) Carbazole | 11.633 | 167 | 1367611 | 41.751 | ng | | 100 |
| 74) Di-n-butylphthalate | 11.969 | 149 | 1643939 | 39.592 | ng | | 99 |
| 75) Fluoranthene | 12.616 | 202 | 1579732 | 41.655 | ng | | 98 |
| 77) Benzidine | 12.733 | 184 | 350744 | 64.132 | ng | | 100 |
| 78) Pyrene | 12.845 | 202 | 1581543 | 42.032 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.463 | 149 | 565050 | 41.333 | ng | | 97 |
| 81) Benzo(a)anthracene | 14.033 | 228 | 1181513 | 41.166 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.992 | 252 | 352265 | 42.780 | ng | | 100 |
| 83) Chrysene | 14.068 | 228 | 1058301 | 40.001 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.021 | 149 | 694013 | 40.771 | ng | | 99 |
| 85) Di-n-octyl phthalate | 14.633 | 149 | 1010509 | 39.653 | ng | | 97 |
| 87) Indeno(1,2,3-cd)pyrene | 17.003 | 276 | 1152756 | 47.319 | ng | | 97 |
| 88) Benzo(b)fluoranthene | 15.080 | 252 | 1062079 | 40.755 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.110 | 252 | 821007 | 37.066 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.451 | 252 | 851884 | 40.761 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.021 | 278 | 933839 | 46.962 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.456 | 276 | 980552 | 48.133 | ng | | 97 |

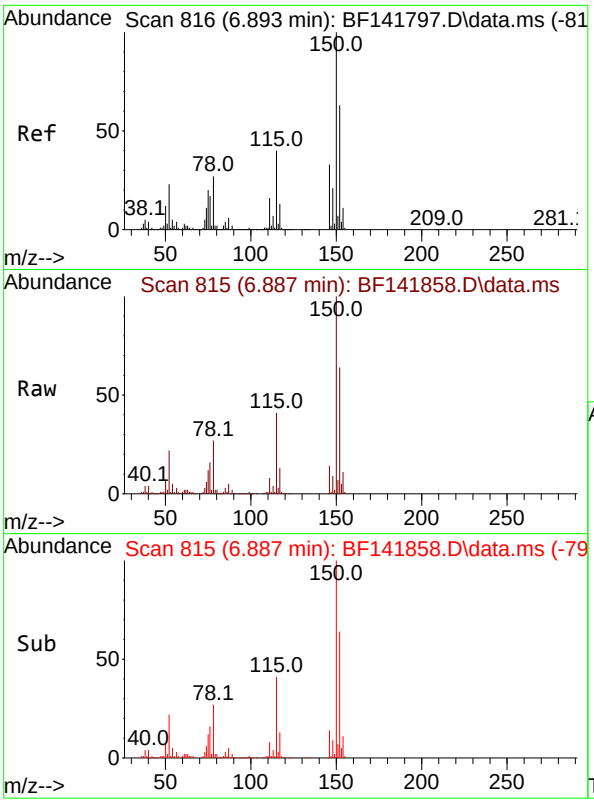
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



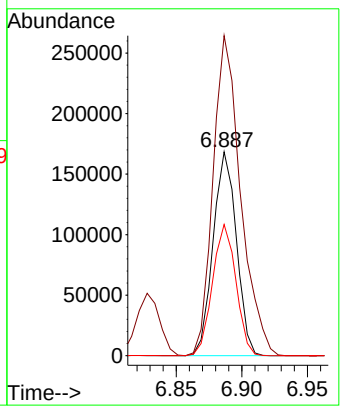


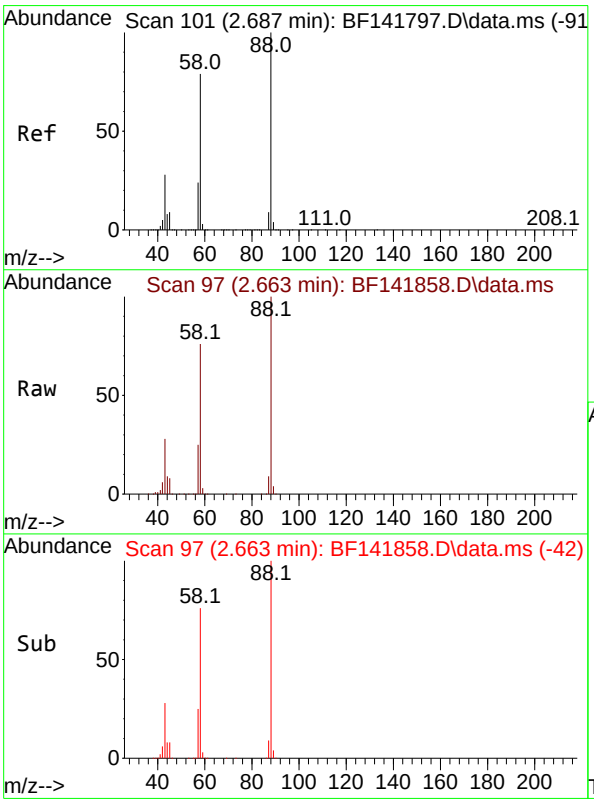

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:152 Resp: 207866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.0 | 127.5 | 191.3 |
| 115 | 64.3 | 51.4 | 77.2 |

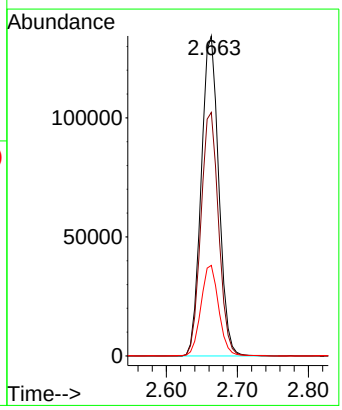


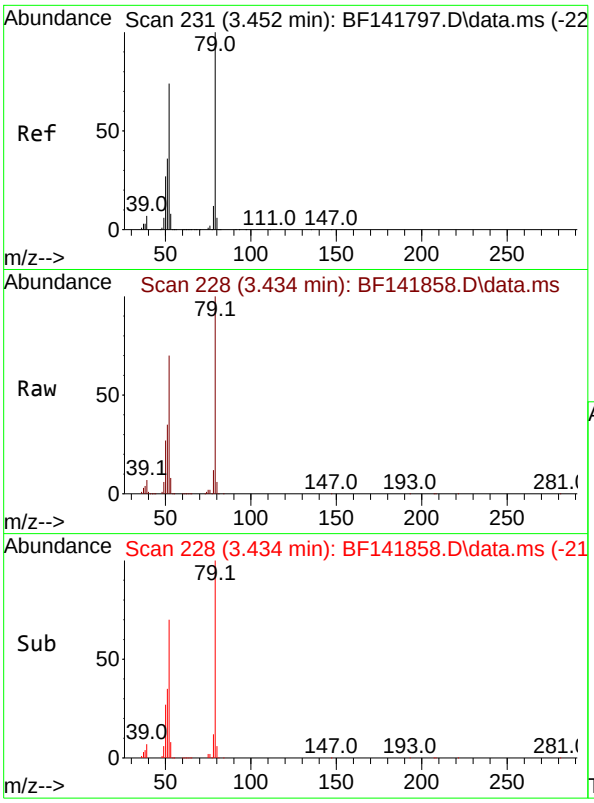




#2
1,4-Dioxane
Concen: 39.116 ng
RT: 2.663 min Scan# 97
Delta R.T. -0.024 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 88 Resp: 231018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 76.7 | 63.9 | 95.9 |
| 43 | 28.9 | 23.0 | 34.6 |



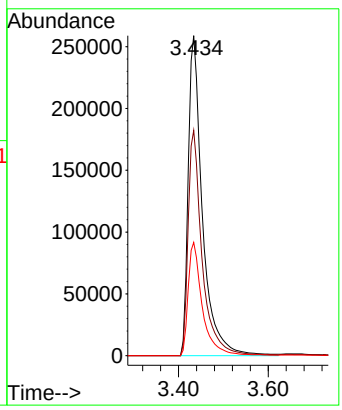


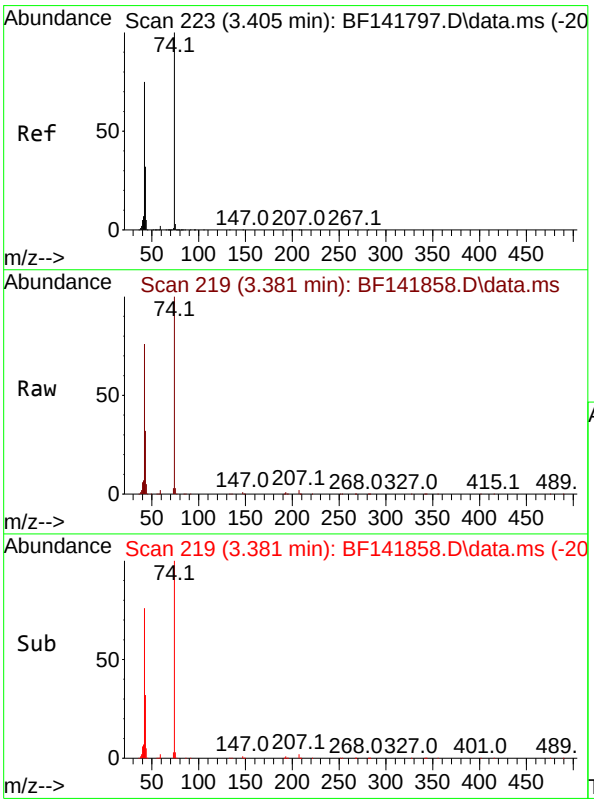

#3
Pyridine
Concen: 38.819 ng
RT: 3.434 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 79 Resp: 570443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 70.4 | 59.0 | 88.4 |
| 51 | 35.4 | 29.0 | 43.4 |

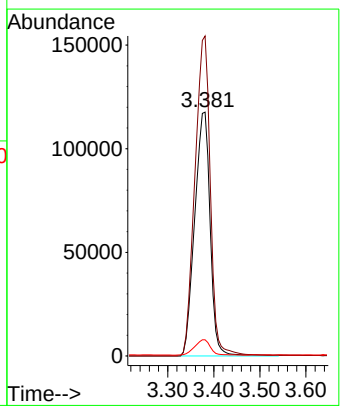


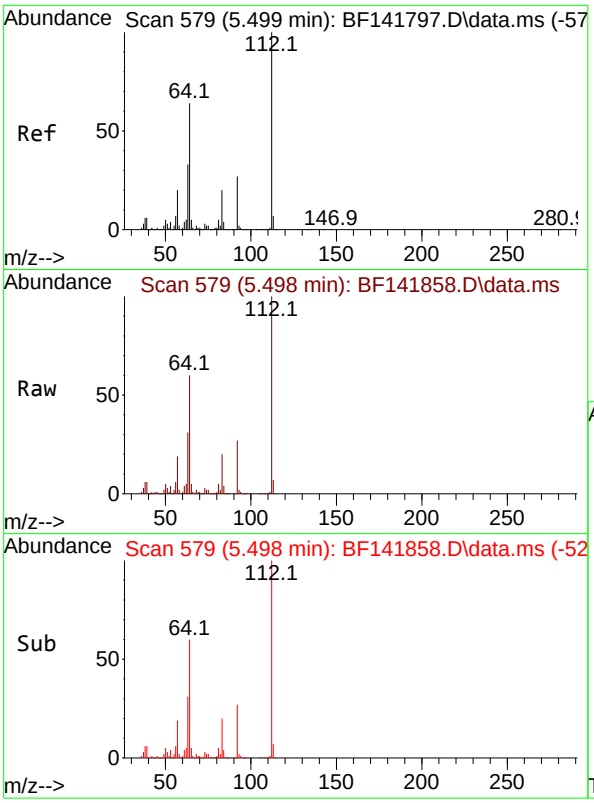




#4
n-Nitrosodimethylamine
Concen: 38.909 ng
RT: 3.381 min Scan# 219
Delta R.T. -0.024 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 42 Resp: 275112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 131.2 | 107.1 | 160.7 |
| 44 | 6.6 | 6.6 | 9.8 |



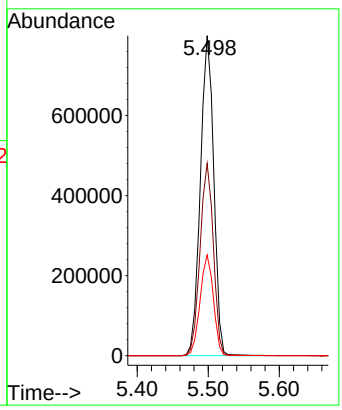


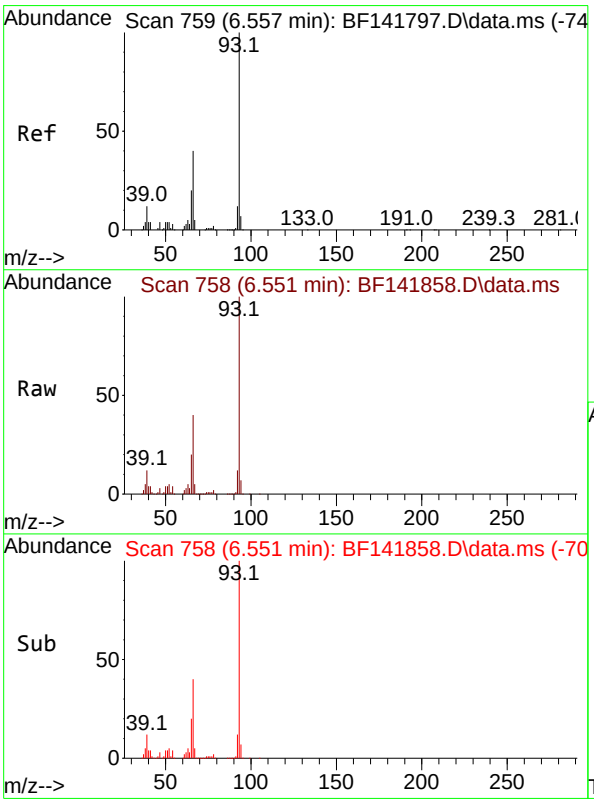

#5
2-Fluorophenol
Concen: 80.684 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:112 Resp: 1050190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 60.0 | 51.3 | 76.9 |
| 63 | 31.5 | 26.2 | 39.4 |

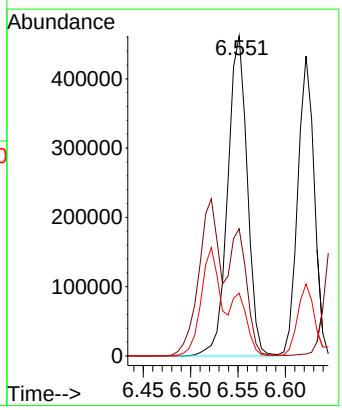


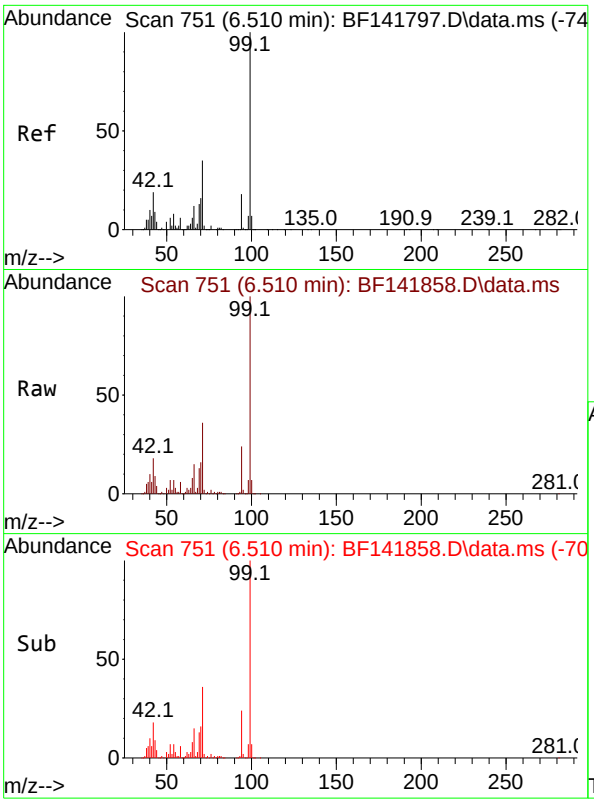




#6
Aniline
Concen: 37.619 ng
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 93 Resp: 662584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 39.7 | 32.3 | 48.5 |
| 65 | 19.6 | 15.9 | 23.9 |



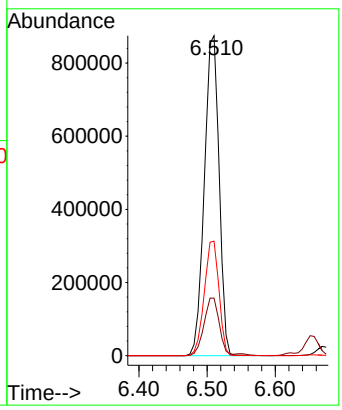


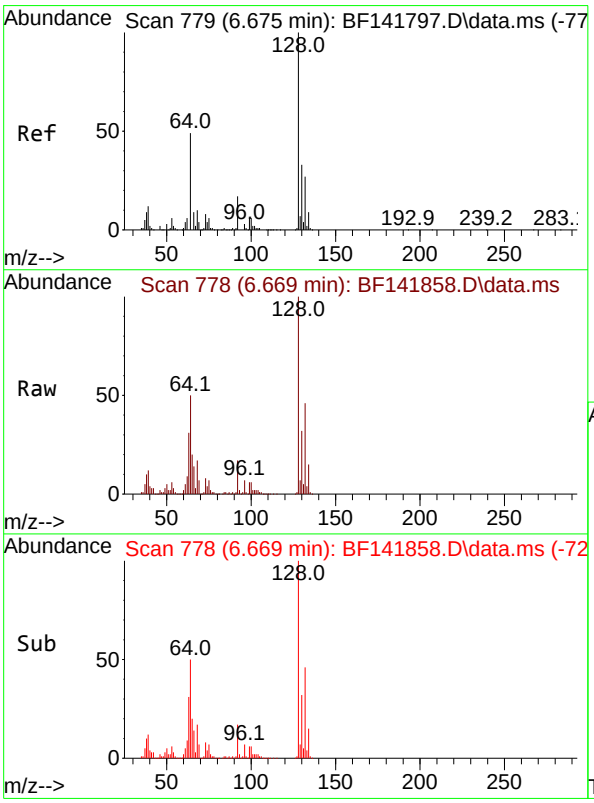

#7
Phenol-d6
Concen: 77.750 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 99 Resp: 1317214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.0 | 15.2 | 22.8 |
| 71 | 35.8 | 28.2 | 42.2 |

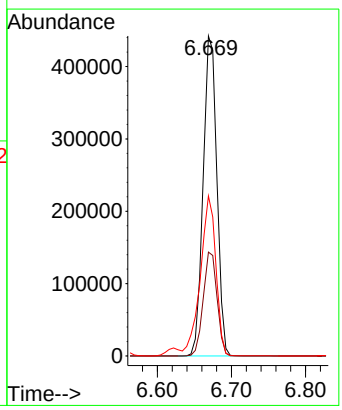


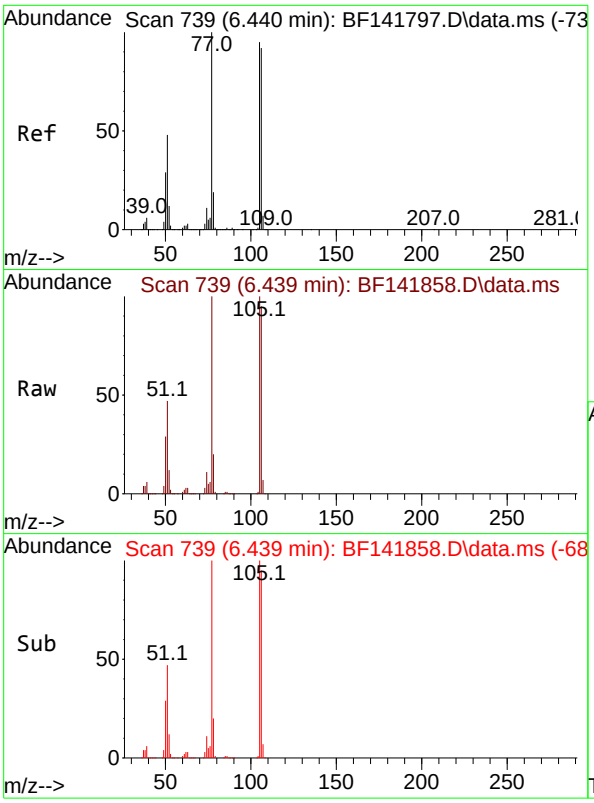




#8
2-Chlorophenol
Concen: 40.331 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:128 Resp: 567877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.5 | 12.6 | 52.6 |
| 64 | 50.0 | 31.1 | 71.1 |



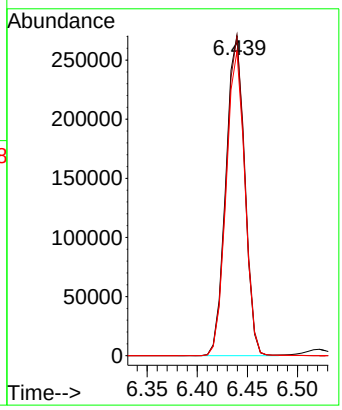


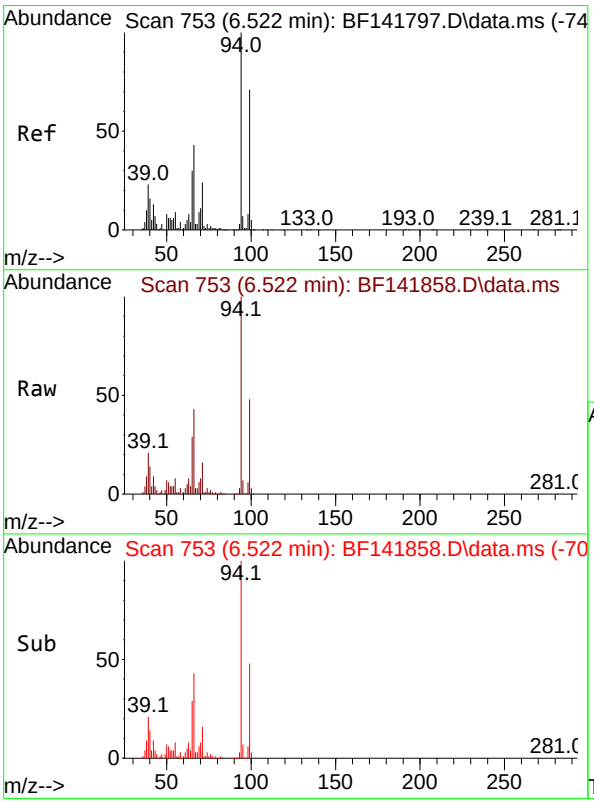

#9
Benzaldehyde
Concen: 35.716 ng
RT: 6.439 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 77 Resp: 351965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 99.8 | 75.3 | 115.3 |
| 106 | 95.1 | 72.3 | 112.3 |

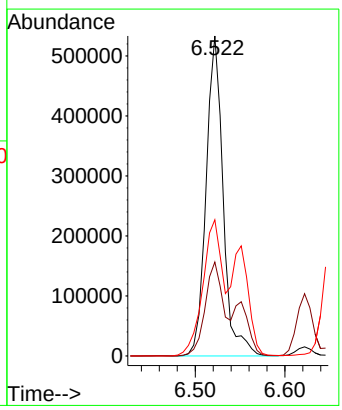


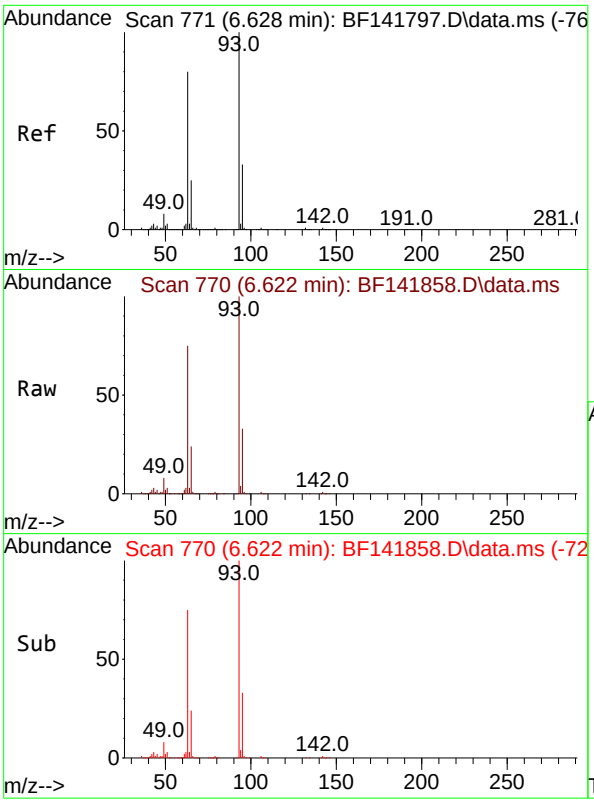




#10
Phenol
Concen: 38.850 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 94 Resp: 703333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 29.3 | 10.2 | 50.2 |
| 66 | 42.5 | 23.2 | 63.2 |



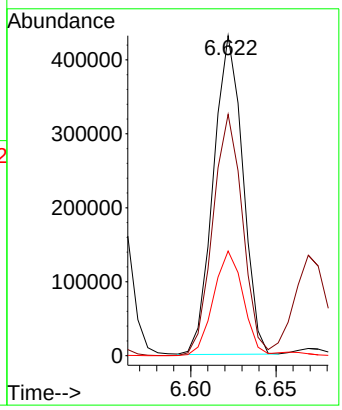


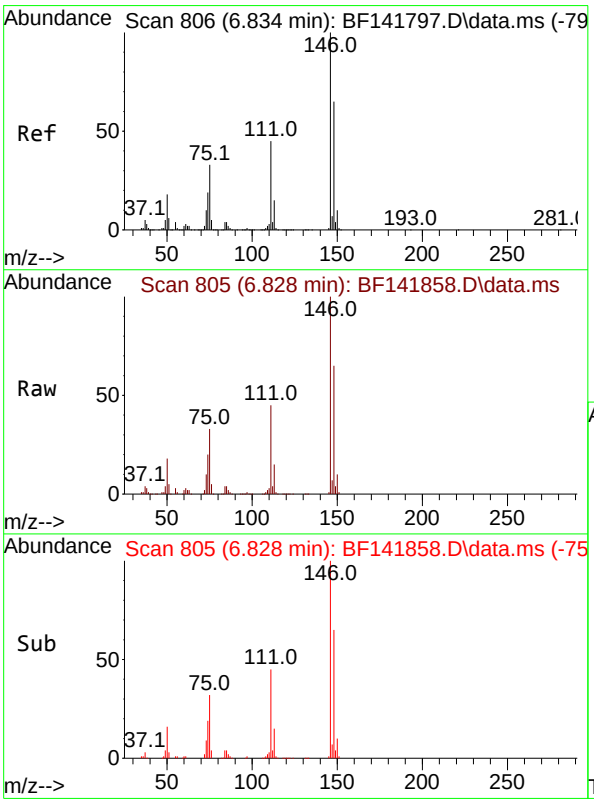

#11
bis(2-Chloroethyl)ether
Concen: 37.524 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 93 Resp: 517816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.4 | 59.3 | 99.3 |
| 95 | 32.7 | 13.2 | 53.2 |

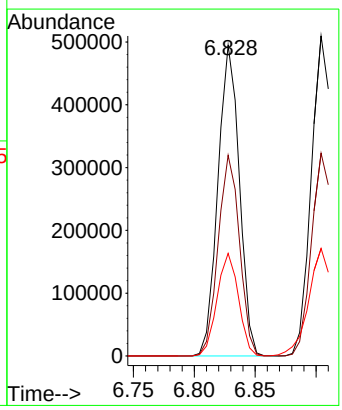


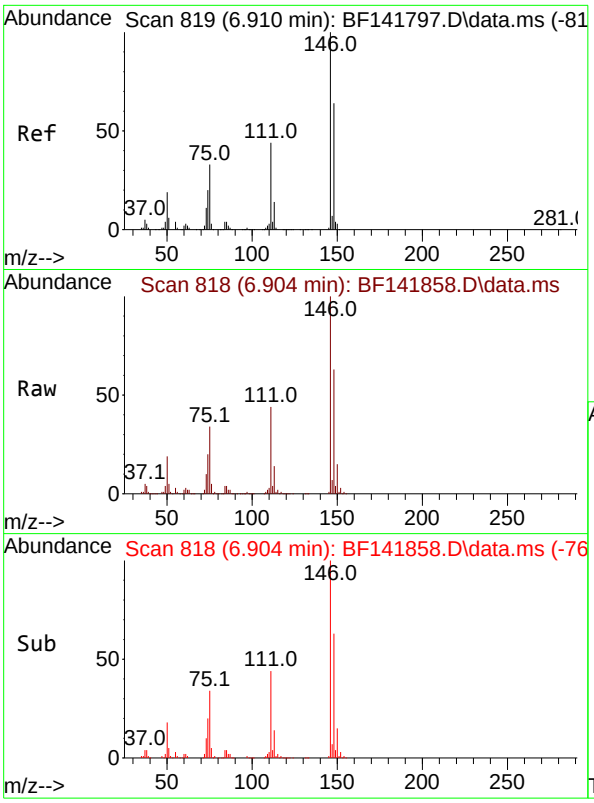




#12
1,3-Dichlorobenzene
Concen: 40.171 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:146 Resp: 605732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.5 | 51.8 | 77.6 |
| 75 | 33.0 | 26.2 | 39.4 |



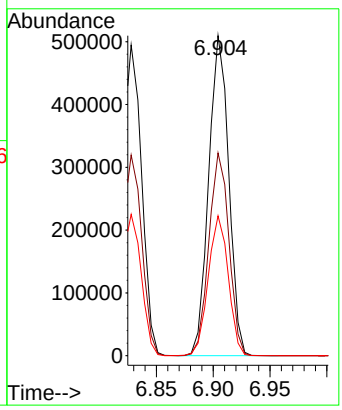


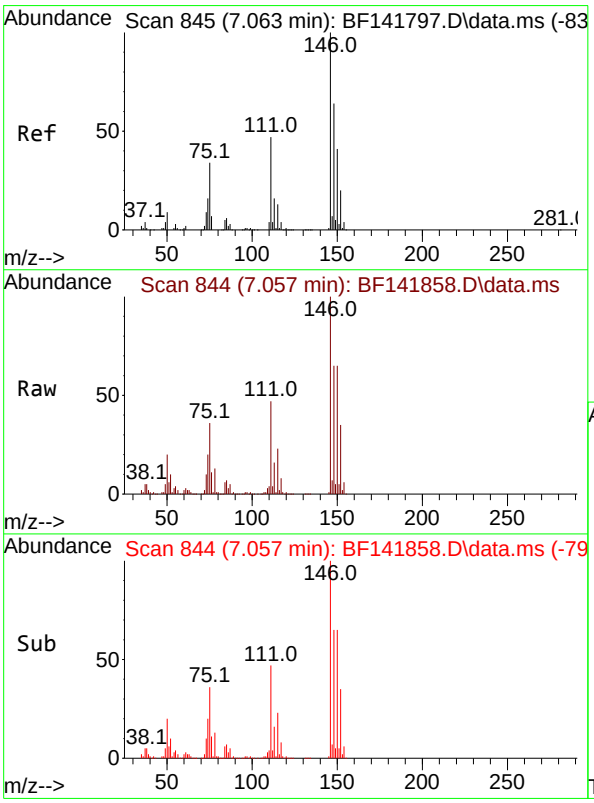

#13
1,4-Dichlorobenzene
Concen: 41.163 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:146 Resp: 625404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.4 | 51.4 | 77.2 |
| 111 | 43.7 | 35.5 | 53.3 |

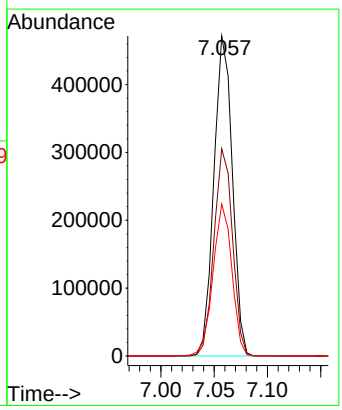


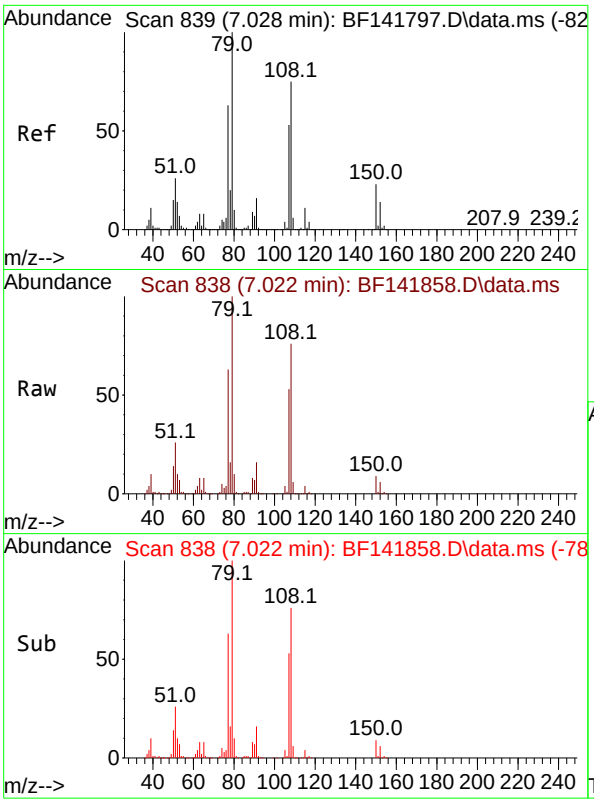




#14
1,2-Dichlorobenzene
Concen: 40.035 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:146 Resp: 568001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.7 | 51.2 | 76.8 |
| 111 | 47.5 | 37.8 | 56.6 |



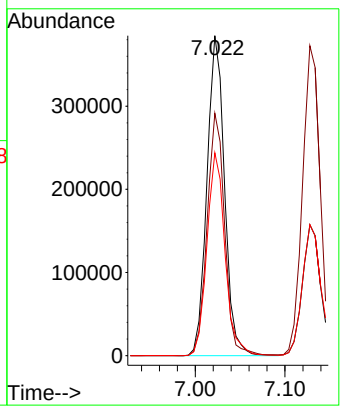


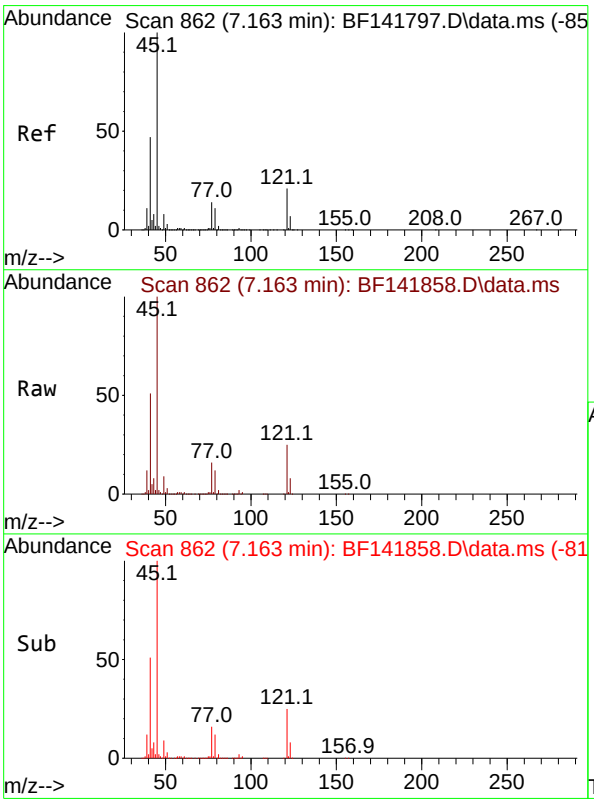

#15
Benzyl Alcohol
Concen: 38.708 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 79 Resp: 524097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 75.8 | 60.2 | 90.2 |
| 77 | 63.4 | 50.2 | 75.2 |

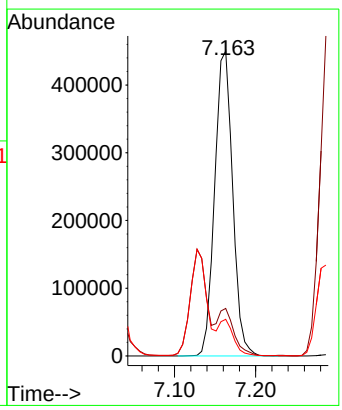


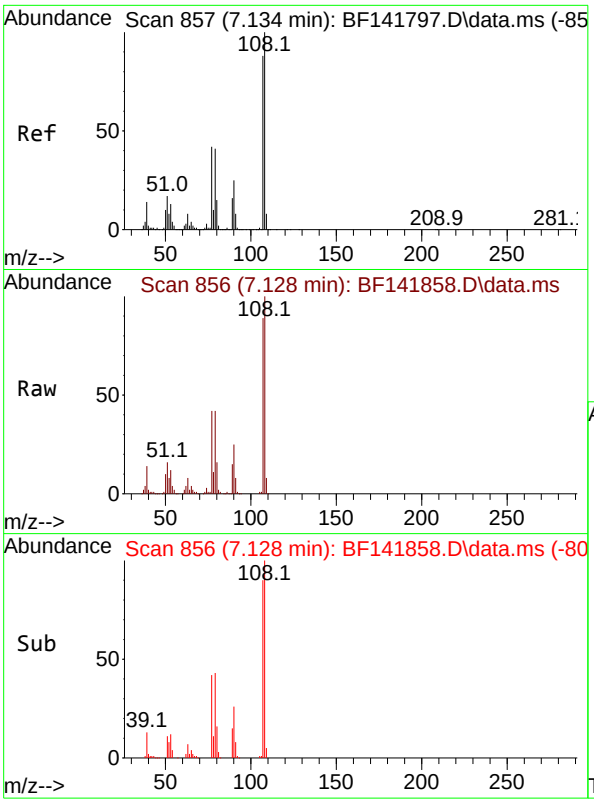




#16
2,2'-oxybis(1-Chloropropane)
Concen: 33.001 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 45 Resp: 691607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 15.6 | 0.0 | 34.4 |
| 79 | 12.0 | 0.0 | 30.9 |



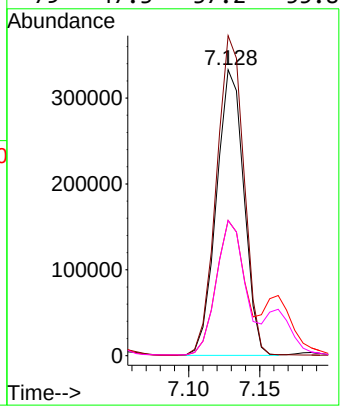


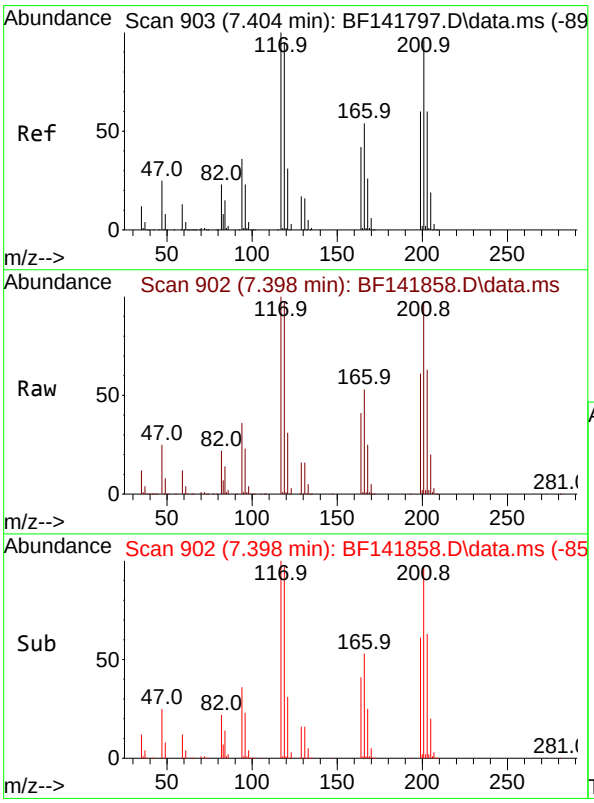

#17
2-Methylphenol
Concen: 38.479 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:107 Resp: 447215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 111.9 | 90.6 | 135.8 |
| 77 | 47.3 | 37.7 | 56.5 |
| 79 | 47.3 | 37.2 | 55.8 |

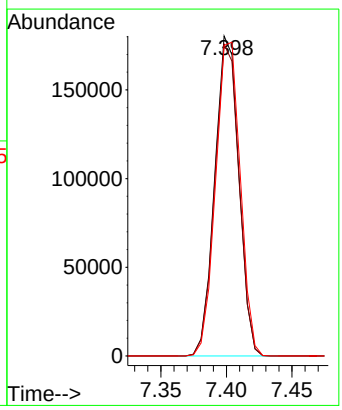


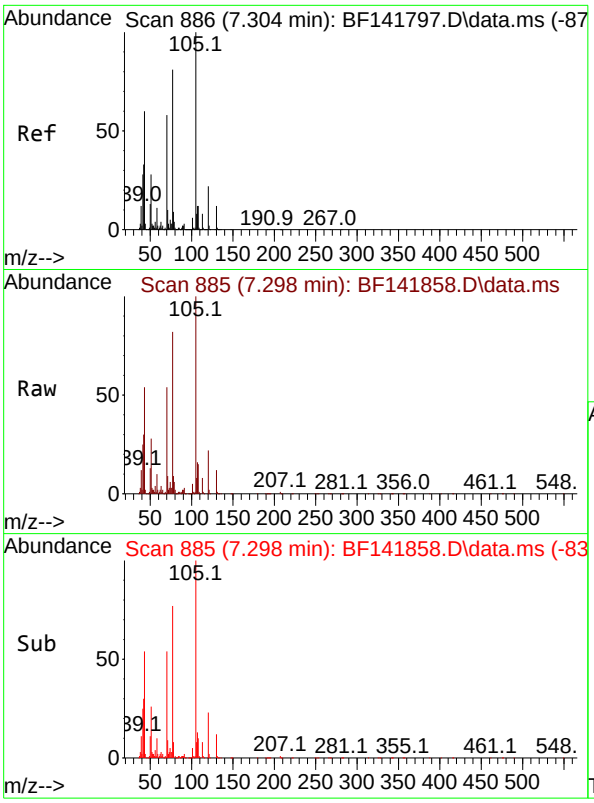




#18
Hexachloroethane
Concen: 40.497 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:117 Resp: 230292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.4 | 75.8 | 113.8 |
| 201 | 97.1 | 76.7 | 115.1 |



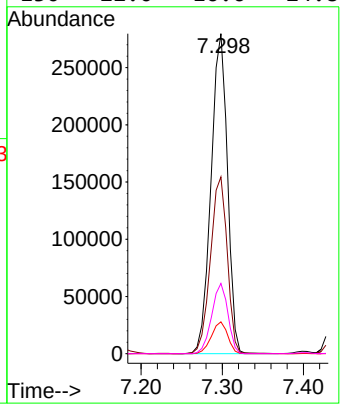


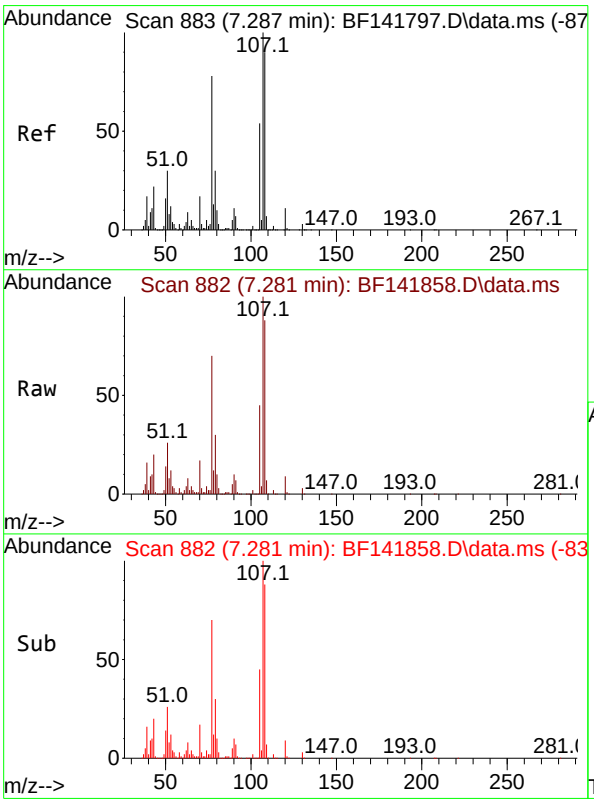

#19
n-Nitroso-di-n-propylamine
Concen: 35.298 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 70 Resp: 393107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 55.3 | 45.4 | 68.0 |
| 101 | 10.0 | 7.8 | 11.8 |
| 130 | 22.0 | 16.6 | 24.8 |

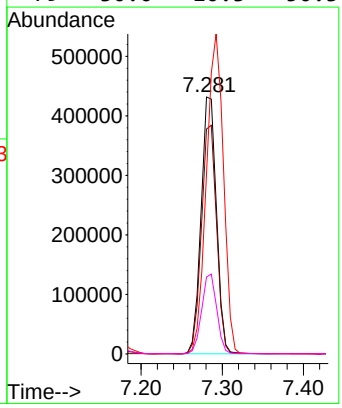


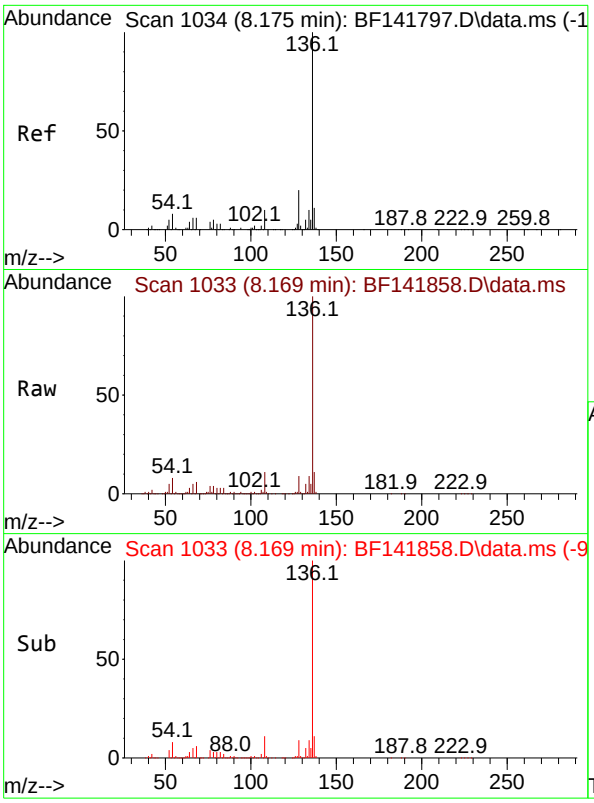




#20
3+4-Methylphenols
Concen: 39.253 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:107 Resp: 568081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 87.5 | 69.7 | 109.7 |
| 77 | 70.1 | 58.3 | 98.3 |
| 79 | 30.0 | 10.3 | 50.3 |



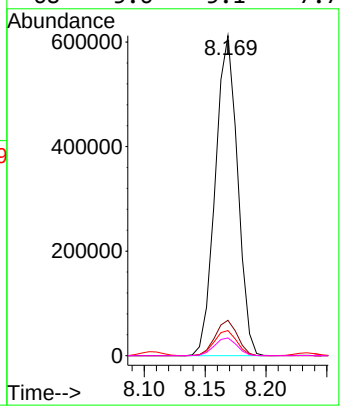


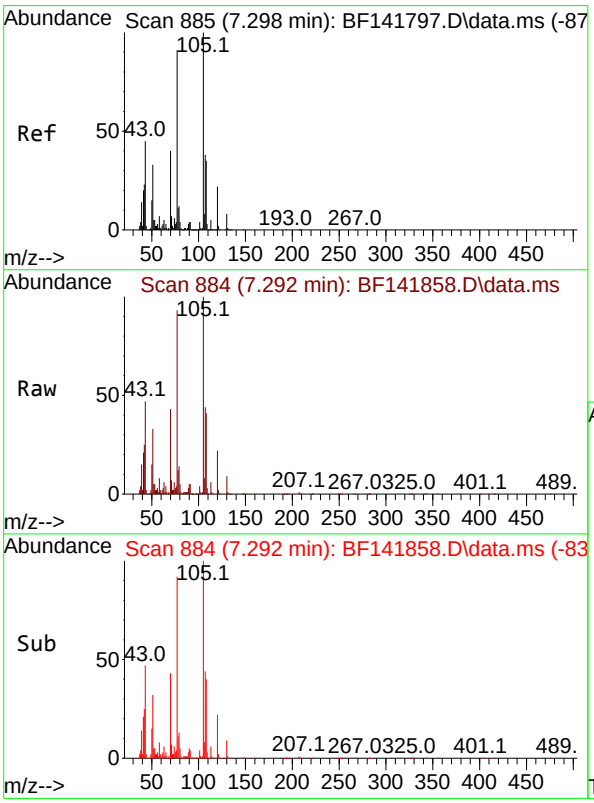

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:136 Resp: 779725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.9 | 13.3 |
| 54 | 7.9 | 6.9 | 10.3 |
| 68 | 5.6 | 5.1 | 7.7 |

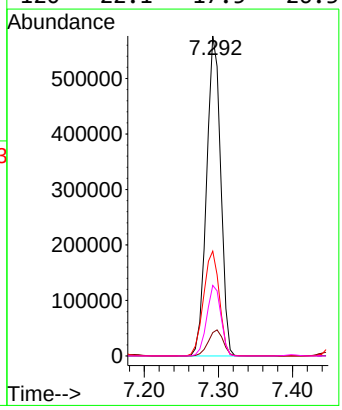


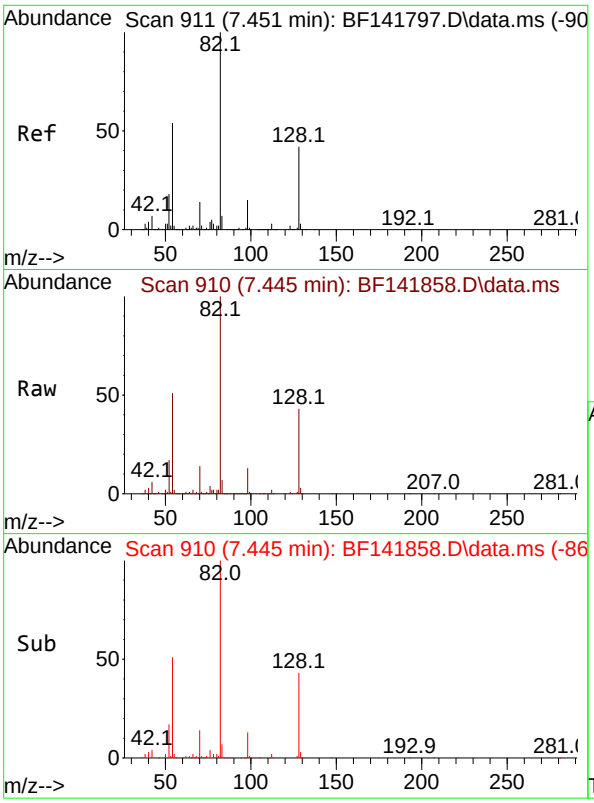




#22
Acetophenone
Concen: 40.243 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:105 Resp: 764218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 7.3 | 5.4 | 8.0 |
| 51 | 32.8 | 26.1 | 39.1 |
| 120 | 22.1 | 17.5 | 26.3 |



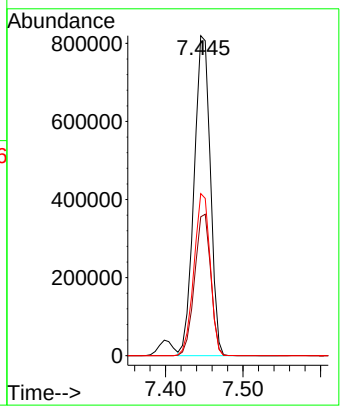


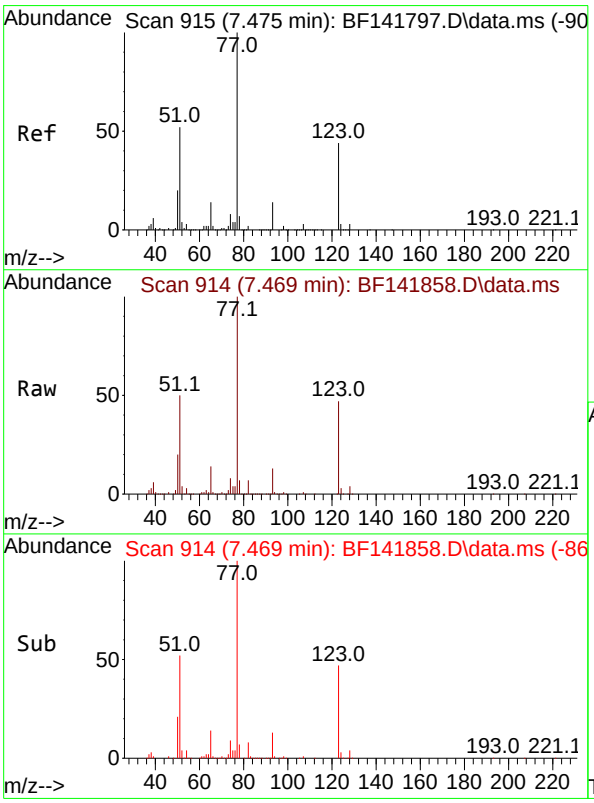

#23
Nitrobenzene-d5
Concen: 97.772 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 82 Resp: 1192671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 43.4 | 33.5 | 50.3 |
| 54 | 50.7 | 42.7 | 64.1 |

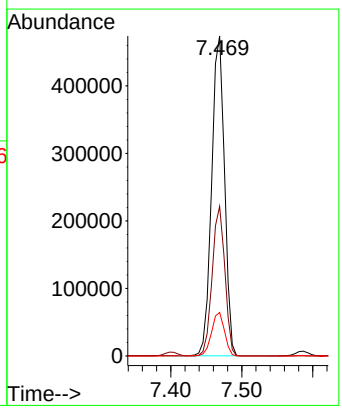


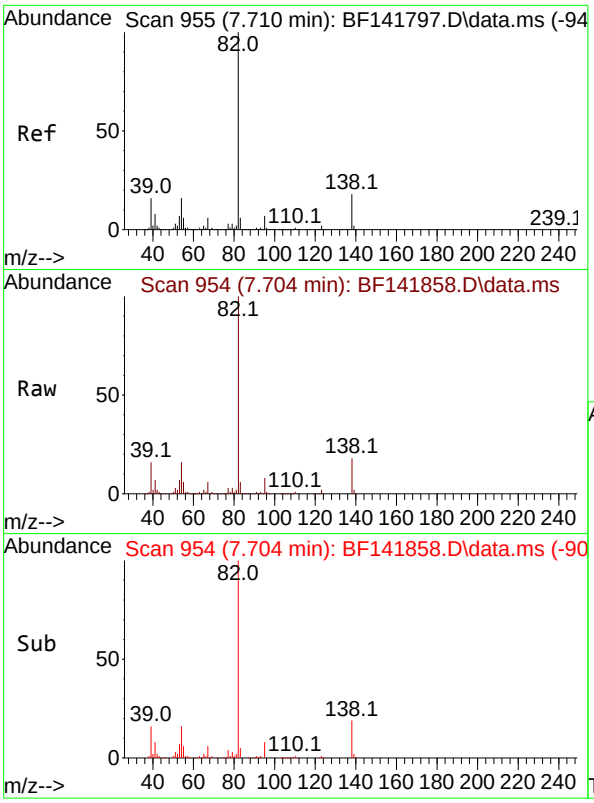




#24
Nitrobenzene
Concen: 45.653 ng
RT: 7.469 min Scan# 914
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 77 Resp: 596360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 46.8 | 35.8 | 53.8 |
| 65 | 13.6 | 11.2 | 16.8 |



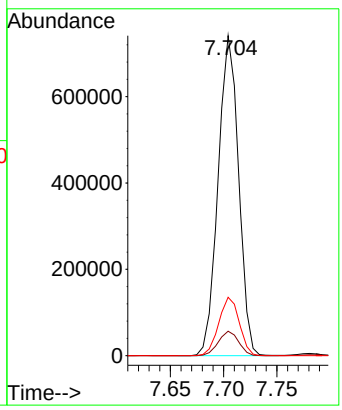


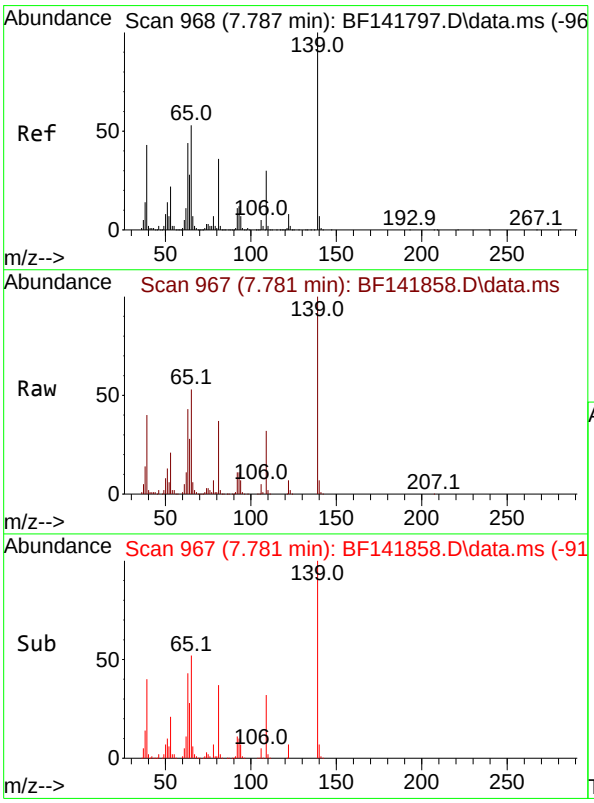

#25
Isophorone
Concen: 37.814 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 82 Resp: 990974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.6 | 5.8 | 8.8 |
| 138 | 18.3 | 14.0 | 21.0 |

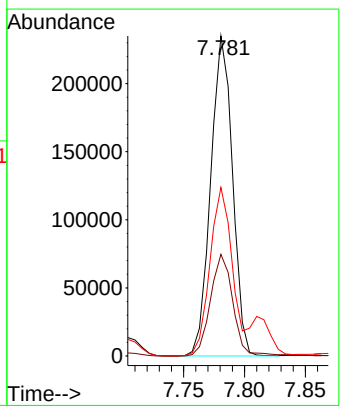


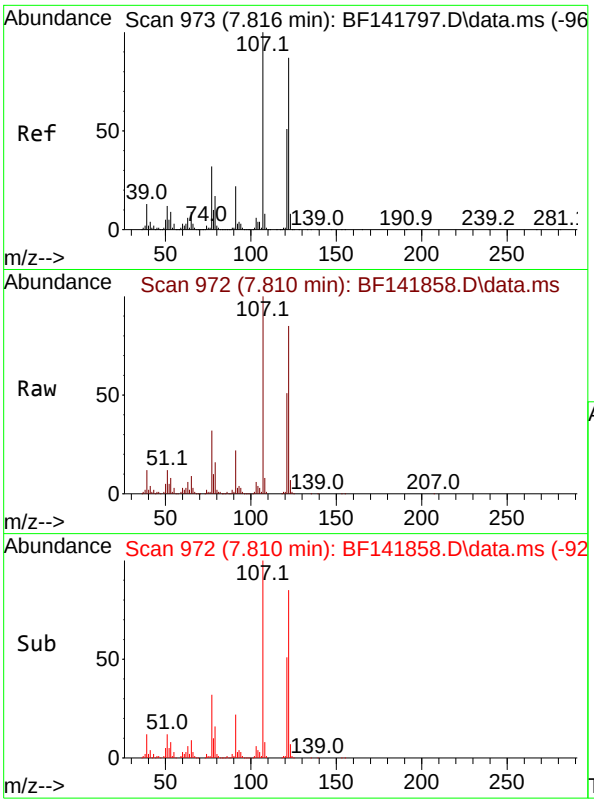




#26
2-Nitrophenol
Concen: 49.968 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:139 Resp: 292782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 31.8 | 24.1 | 36.1 |
| 65 | 52.6 | 42.3 | 63.5 |



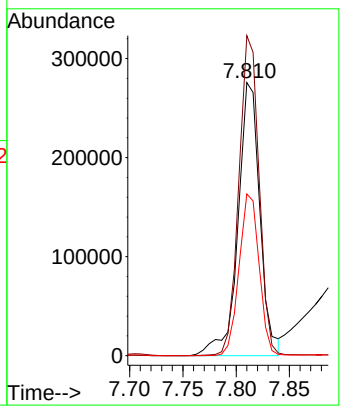


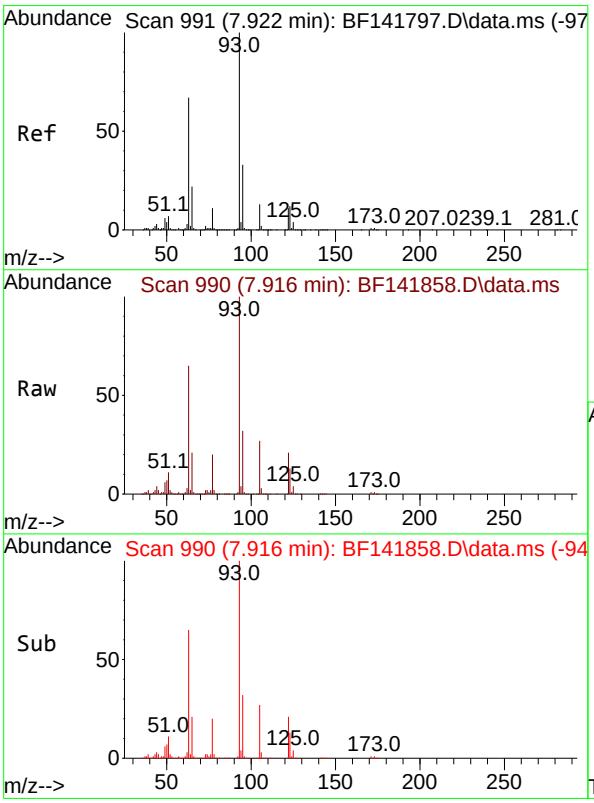

#27
2,4-Dimethylphenol
Concen: 40.956 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:122 Resp: 394540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 117.1 | 92.5 | 138.7 |
| 121 | 59.2 | 47.1 | 70.7 |

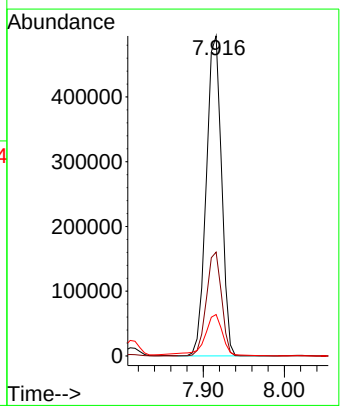


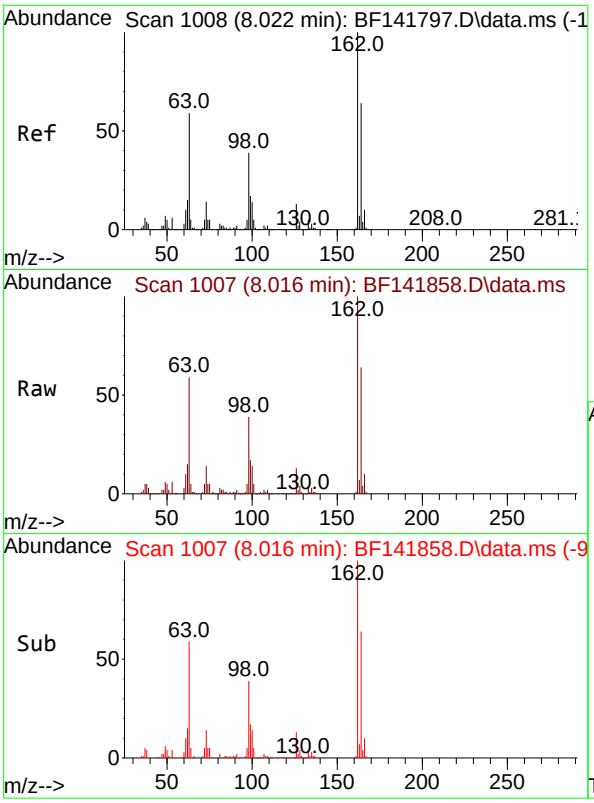




#28
bis(2-Chloroethoxy)methane
Concen: 38.448 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 93 Resp: 642746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.4 | 26.5 | 39.7 |
| 123 | 13.0 | 10.0 | 15.0 |



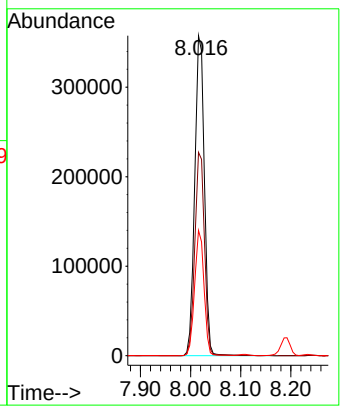


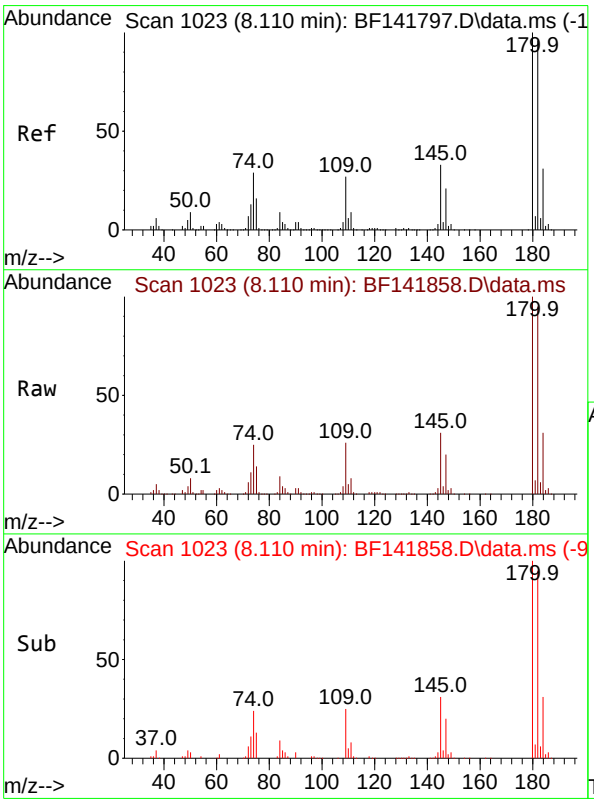

#29
2,4-Dichlorophenol
Concen: 42.802 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:162 Resp: 475671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 63.5 | 44.3 | 84.3 |
| 98 | 39.1 | 19.6 | 59.6 |

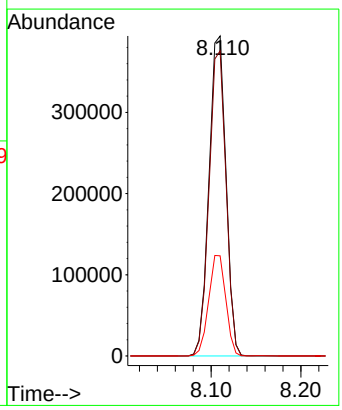


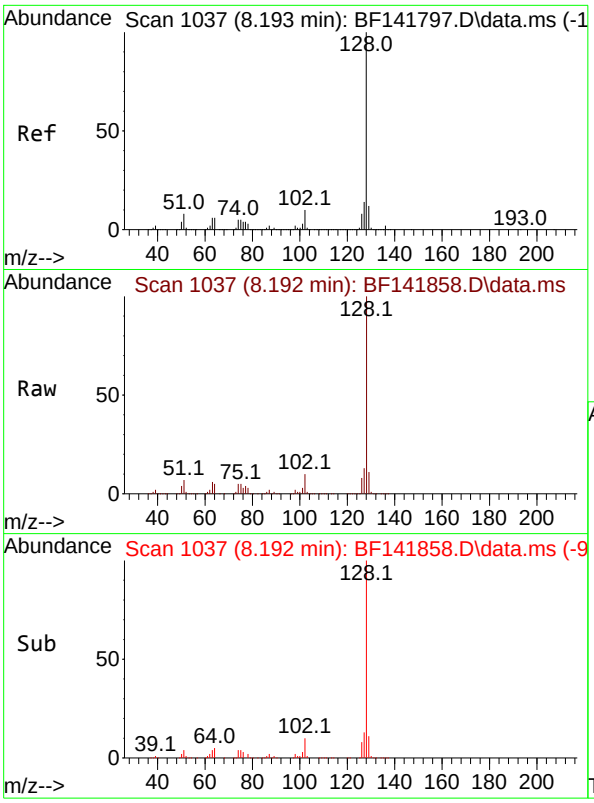




#30
1,2,4-Trichlorobenzene
Concen: 42.568 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:180 Resp: 518388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 76.8 | 115.2 |
| 145 | 31.3 | 26.4 | 39.6 |



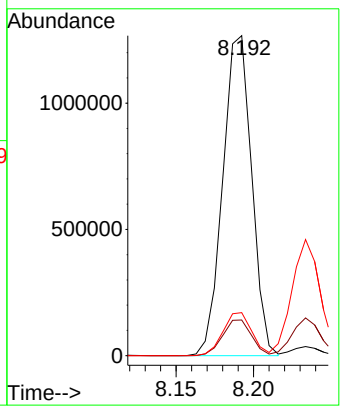


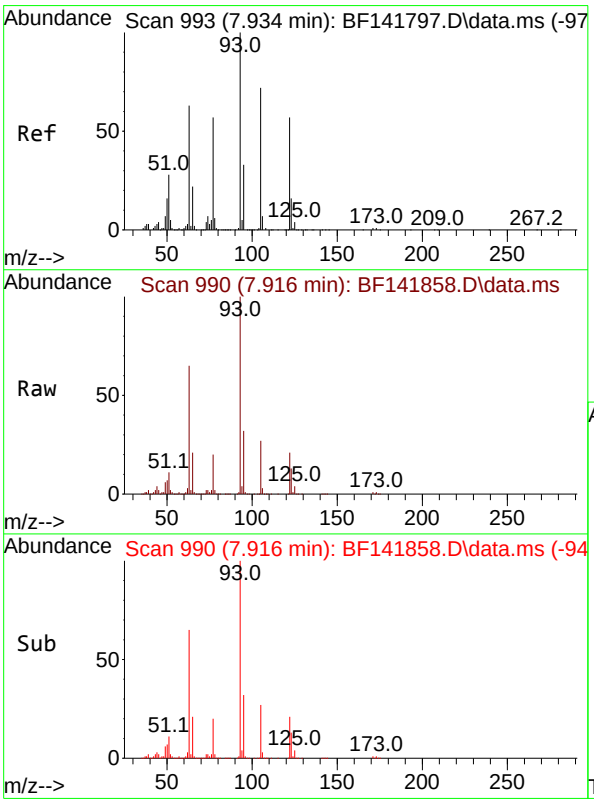

#31
Naphthalene
Concen: 41.026 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:128 Resp: 1644085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.2 | 9.2 | 13.8 |
| 127 | 13.4 | 11.0 | 16.4 |

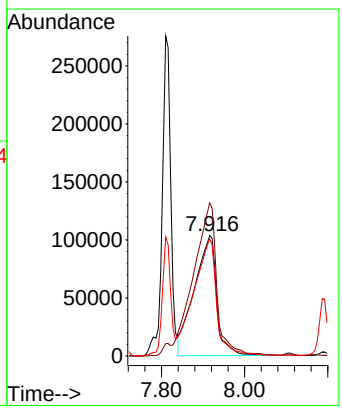


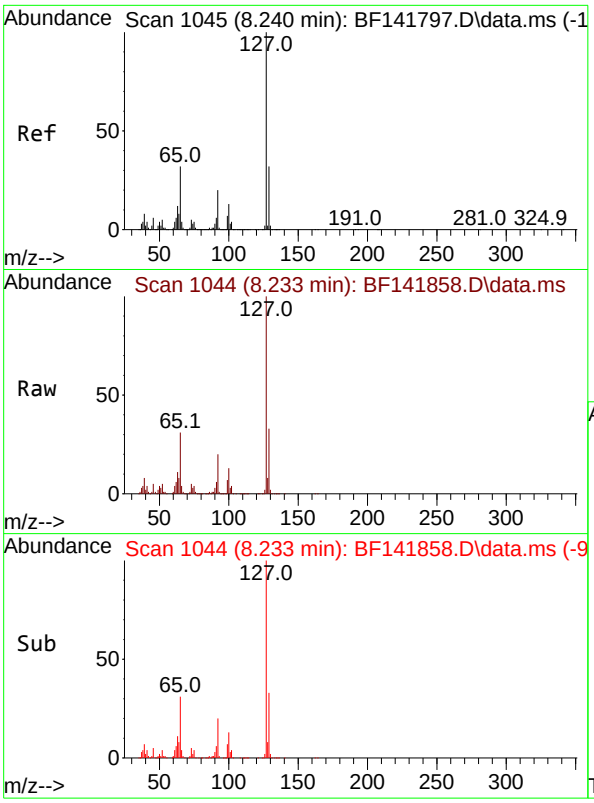




#32
Benzoic acid
Concen: 48.428 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.018 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:122 Resp: 390032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 127.1 | 105.8 | 145.8 |
| 77 | 97.3 | 79.9 | 119.9 |



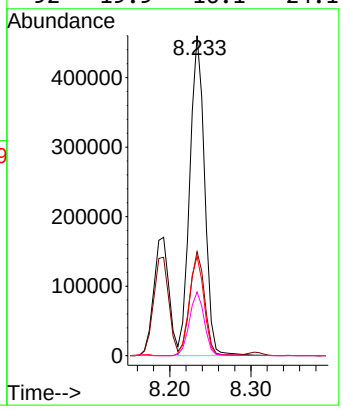


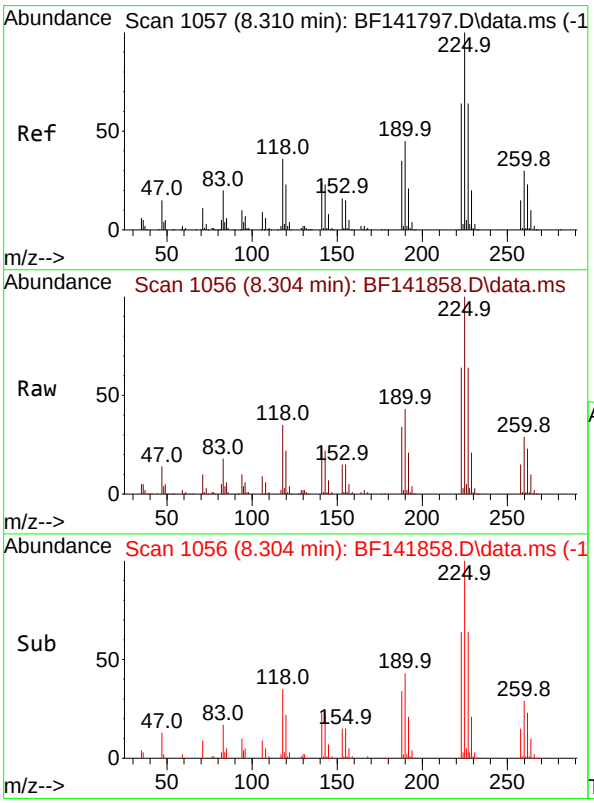

#33
4-Chloroaniline
Concen: 39.713 ng
RT: 8.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:127 Resp: 583547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.5 | 26.1 | 39.1 |
| 65 | 31.0 | 25.7 | 38.5 |
| 92 | 19.9 | 16.1 | 24.1 |

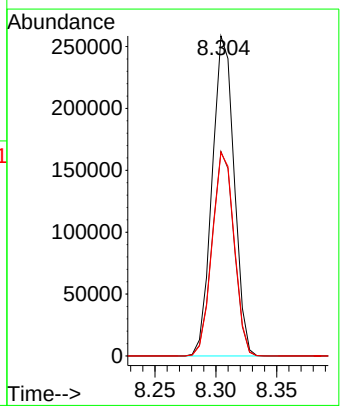


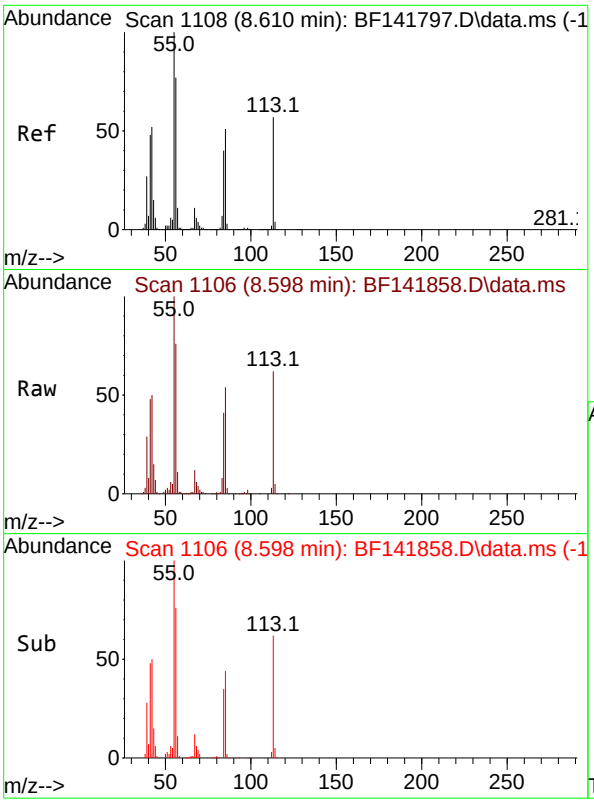




#34
Hexachlorobutadiene
Concen: 42.902 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:225 Resp: 324659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.9 | 51.4 | 77.2 |
| 227 | 63.6 | 51.6 | 77.4 |



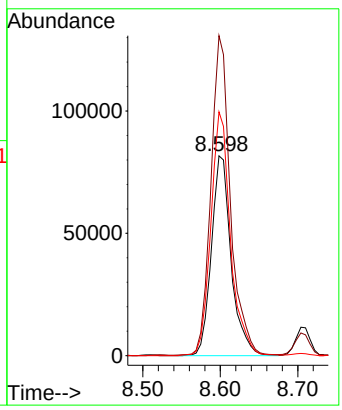


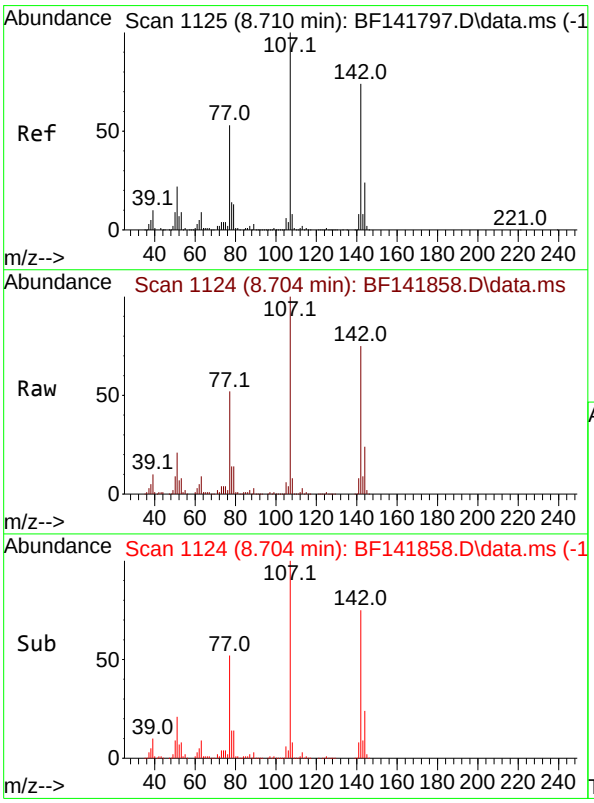

#35
Caprolactam
Concen: 42.235 ng
RT: 8.598 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:113 Resp: 144396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 160.1 | 155.6 | 195.6 |
| 56 | 122.0 | 114.6 | 154.6 |

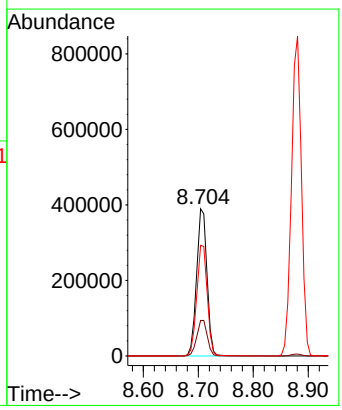


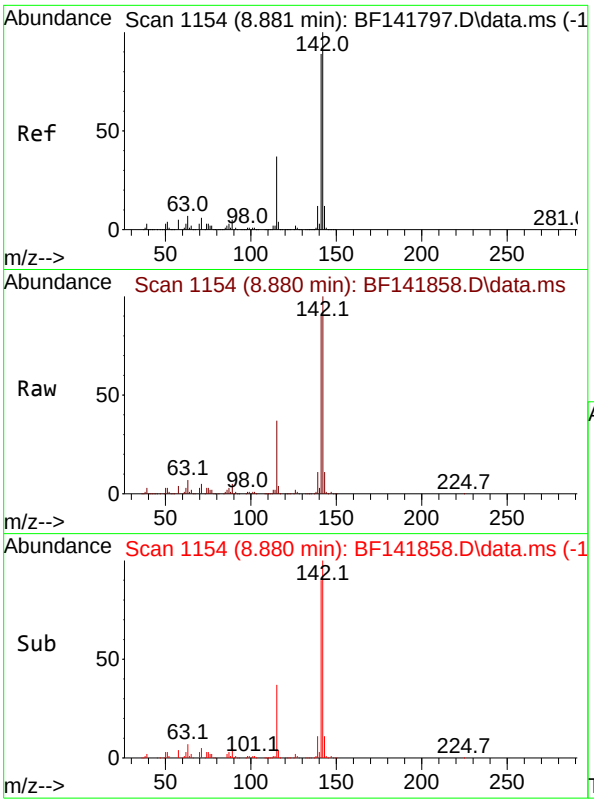




#36
4-Chloro-3-methylphenol
Concen: 41.661 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:107 Resp: 514325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 24.1 | 19.4 | 29.0 |
| 142 | 75.1 | 59.4 | 89.0 |



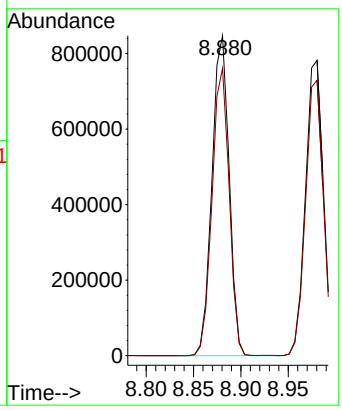


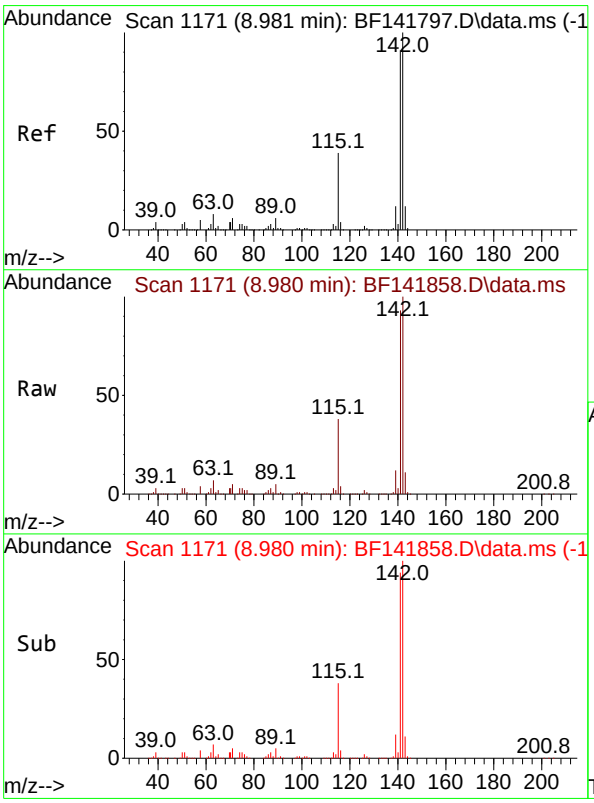

#37
2-Methylnaphthalene
Concen: 40.571 ng
RT: 8.880 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:142 Resp: 1066438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.8 | 71.1 | 106.7 |

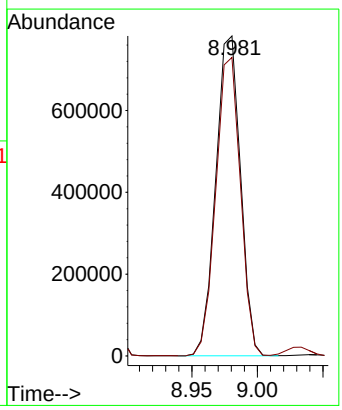


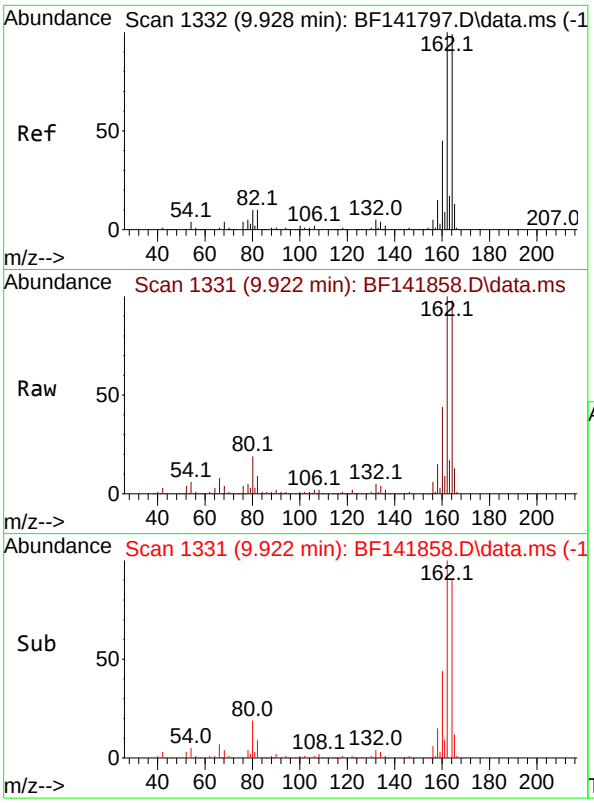




#38
1-Methylnaphthalene
Concen: 40.609 ng
RT: 8.980 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:142 Resp: 1024218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 93.3 | 73.1 | 109.7 |



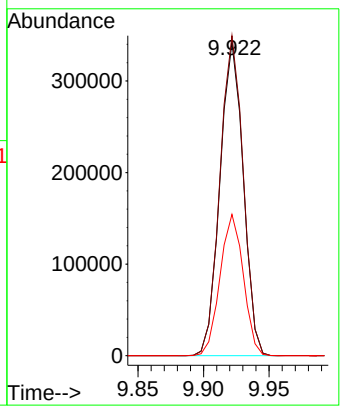


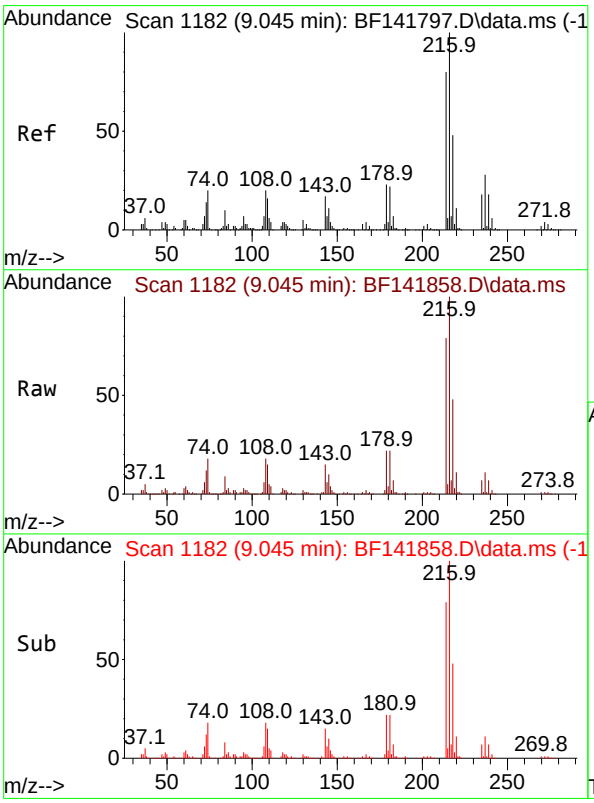

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:164 Resp: 422269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.2 | 80.6 | 120.8 |
| 160 | 45.1 | 36.3 | 54.5 |

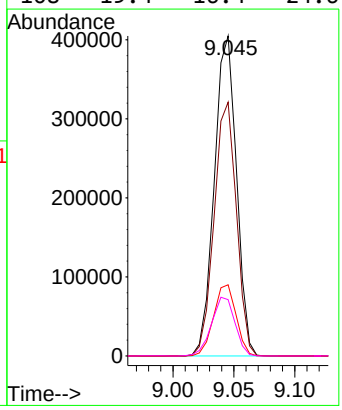


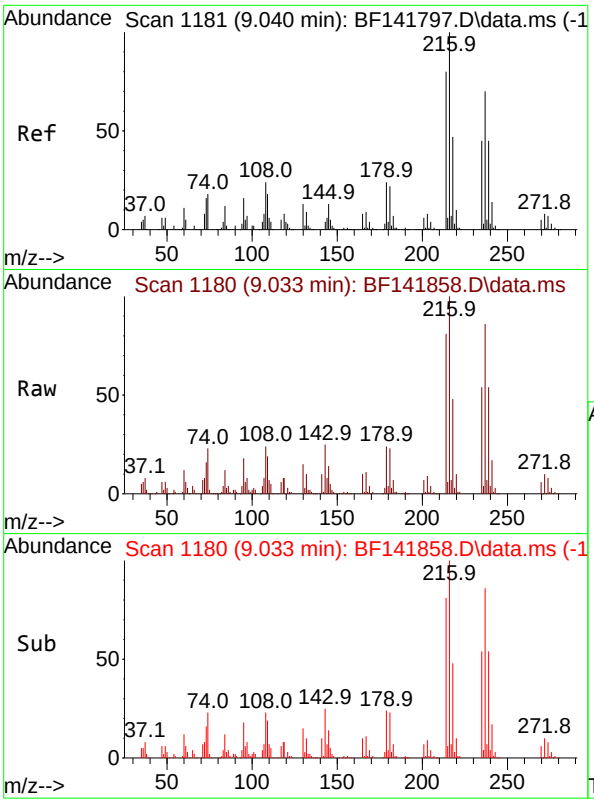




#40
1,2,4,5-Tetrachlorobenzene
Concen: 42.066 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:216 Resp: 513015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 79.6 | 63.5 | 95.3 |
| 179 | 22.6 | 18.1 | 27.1 |
| 108 | 19.4 | 16.4 | 24.6 |



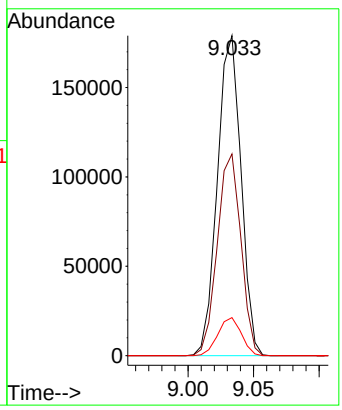


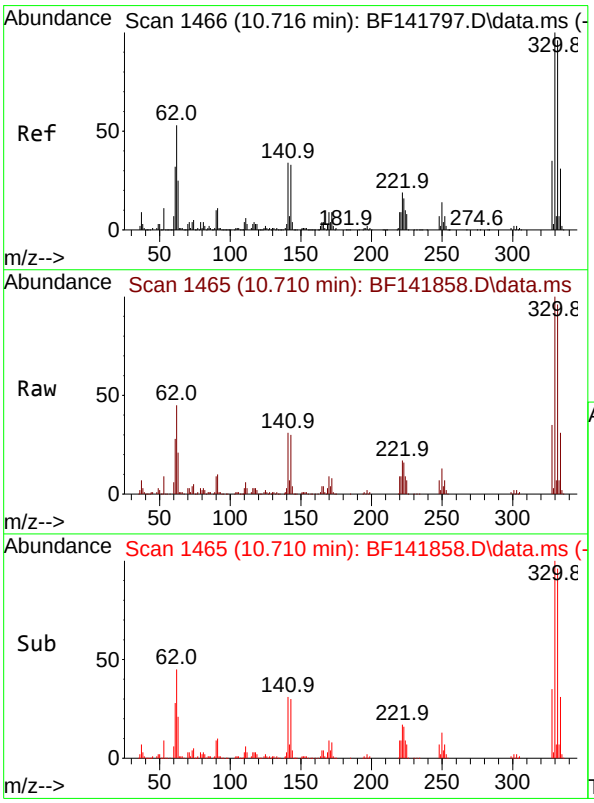

#41
Hexachlorocyclopentadiene
Concen: 44.067 ng
RT: 9.033 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:237 Resp: 224284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 63.0 | 43.3 | 83.3 |
| 272 | 11.9 | 0.0 | 31.9 |

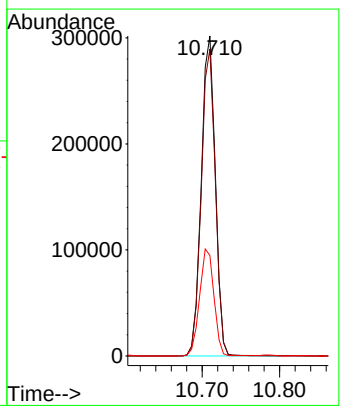


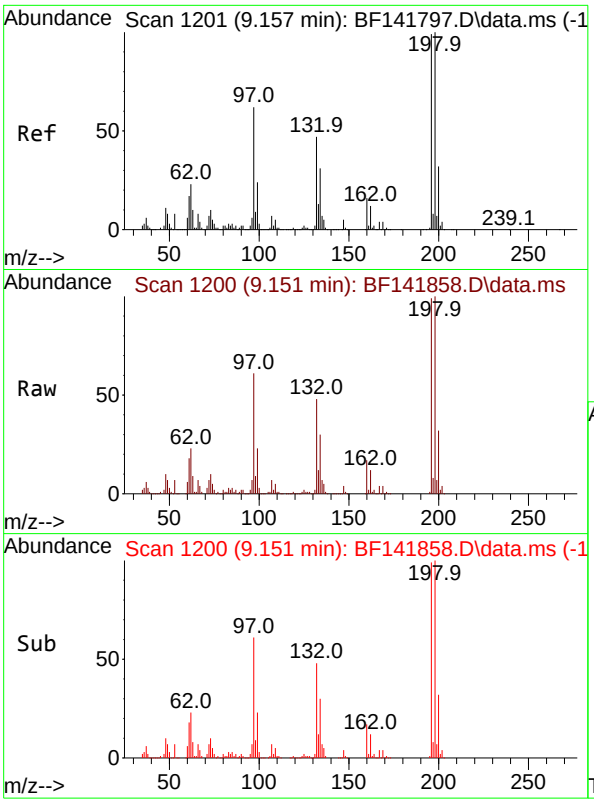




#42
2,4,6-Tribromophenol
Concen: 95.540 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:330 Resp: 378753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.1 | 76.6 | 115.0 |
| 141 | 34.3 | 29.0 | 43.4 |



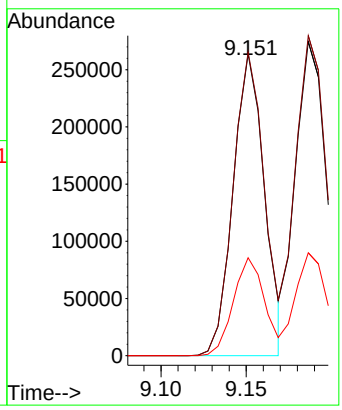


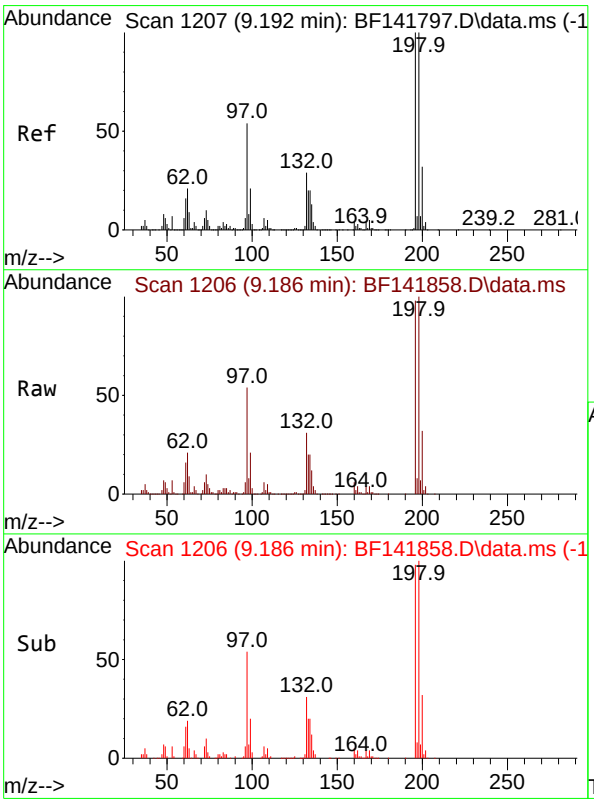

#43
2,4,6-Trichlorophenol
Concen: 42.772 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:196 Resp: 336951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.7 | 80.4 | 120.6 |
| 200 | 32.4 | 25.7 | 38.5 |

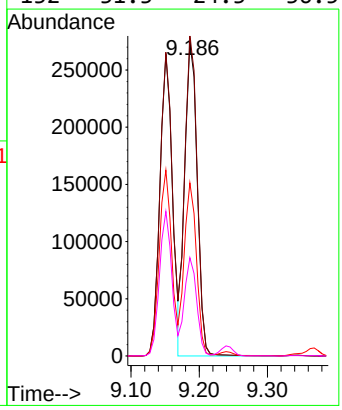


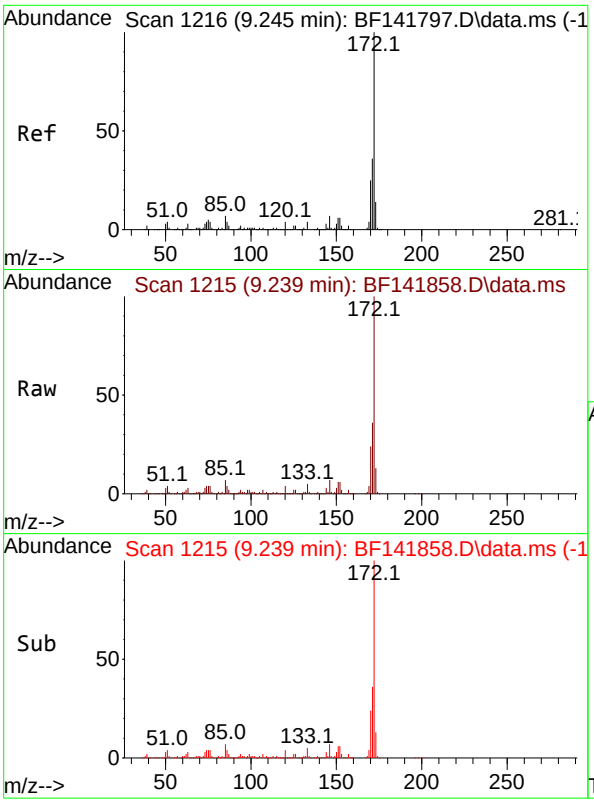




#44
2,4,5-Trichlorophenol
Concen: 44.739 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:196 Resp: 349000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 101.9 | 79.7 | 119.5 |
| 97 | 55.1 | 44.2 | 66.2 |
| 132 | 31.3 | 24.3 | 36.5 |



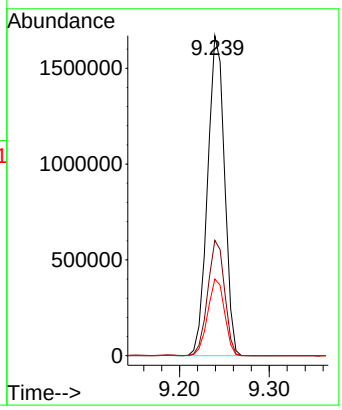


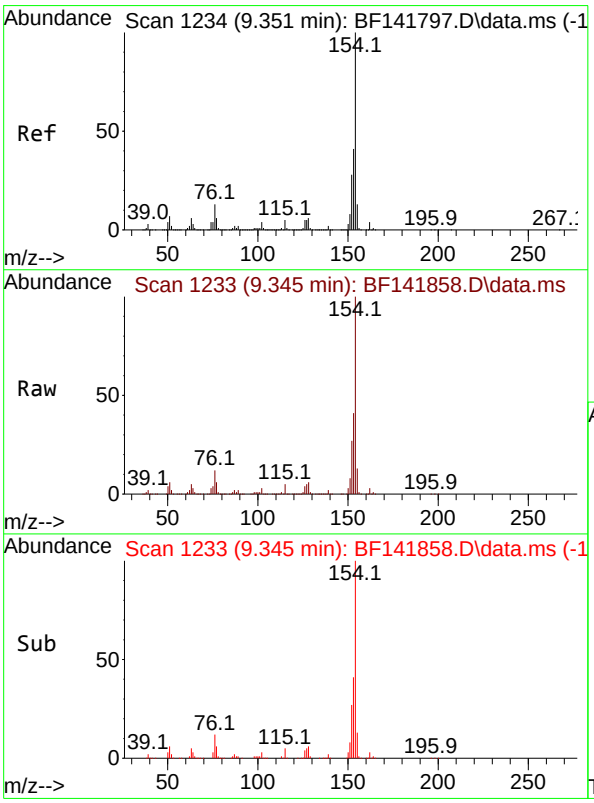

#45
2-Fluorobiphenyl
Concen: 82.849 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:172 Resp: 2181831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.1 | 29.2 | 43.8 |
| 170 | 24.0 | 19.7 | 29.5 |

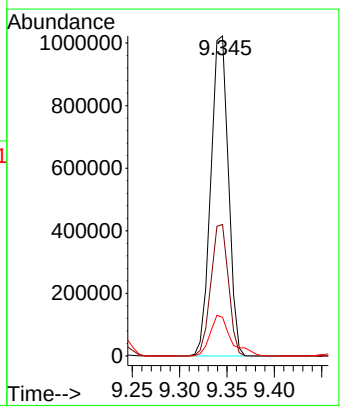


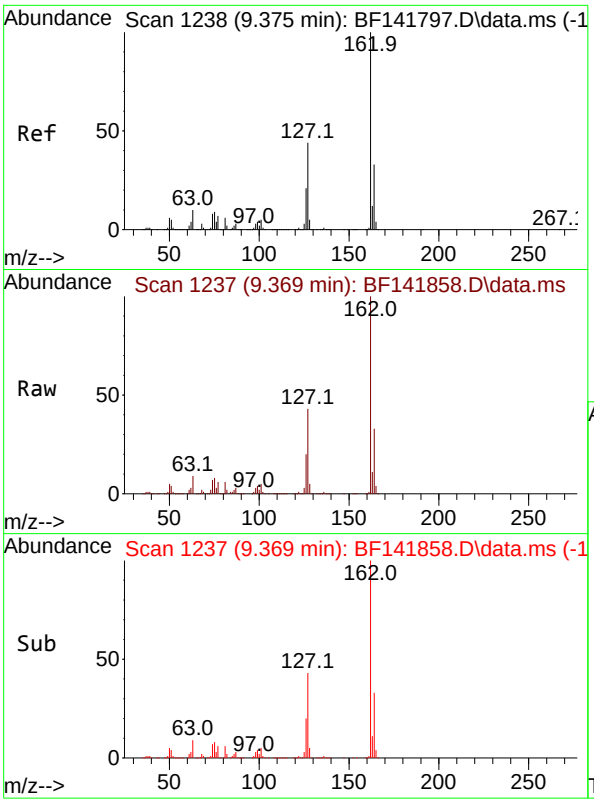




#46
1,1'-Biphenyl
Concen: 40.994 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:154 Resp: 1317612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 41.1 | 21.4 | 61.4 |
| 76 | 12.1 | 0.0 | 33.4 |



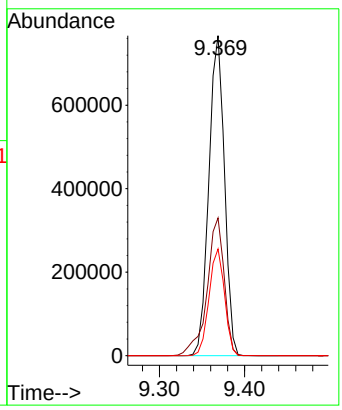


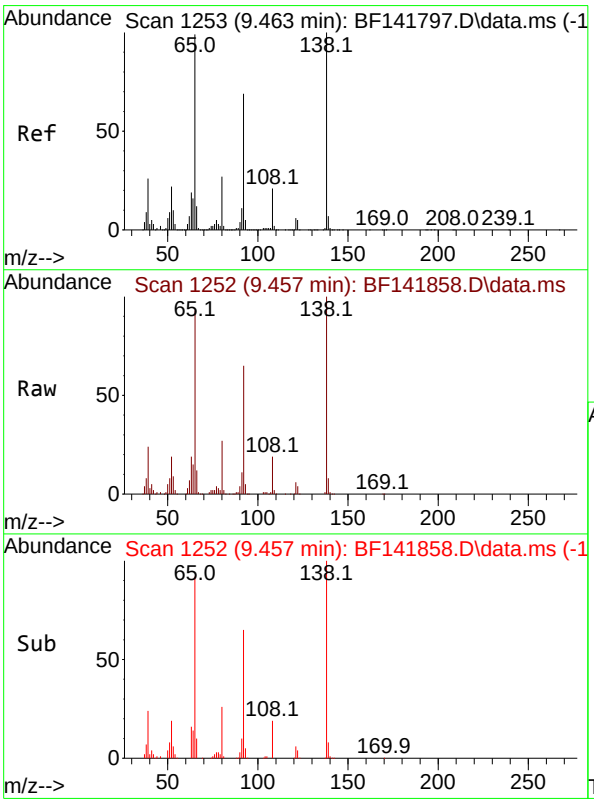

#47
2-Chloronaphthalene
Concen: 41.199 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:162 Resp: 977366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 43.1 | 35.0 | 52.6 |
| 164 | 33.4 | 26.6 | 40.0 |

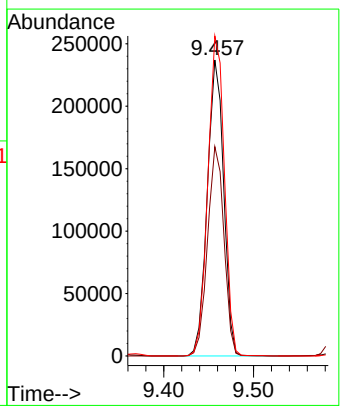


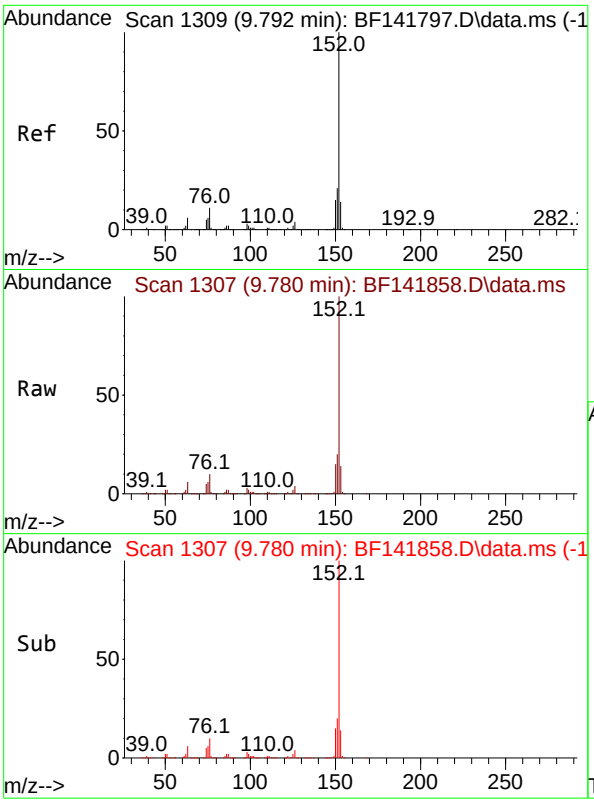




#48
2-Nitroaniline
Concen: 46.508 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 65 Resp: 301038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 70.7 | 55.7 | 83.5 |
| 138 | 108.1 | 80.6 | 121.0 |



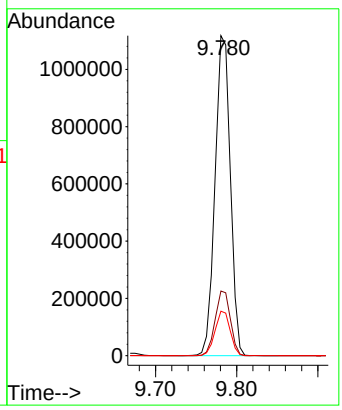


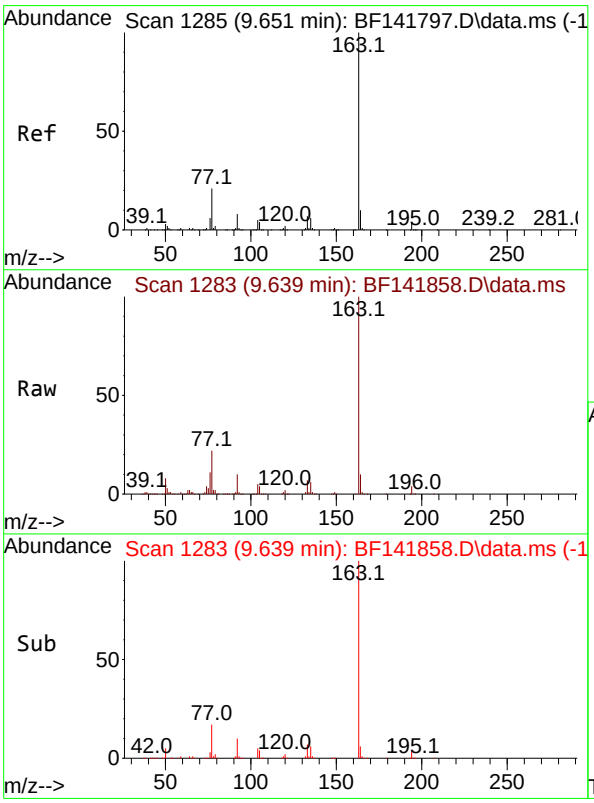

#49
Acenaphthylene
Concen: 41.204 ng
RT: 9.780 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:152 Resp: 1465550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.6 | 24.8 |
| 153 | 13.9 | 11.2 | 16.8 |

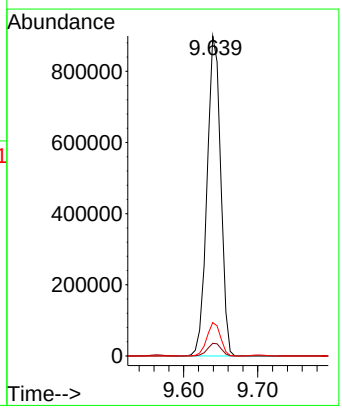


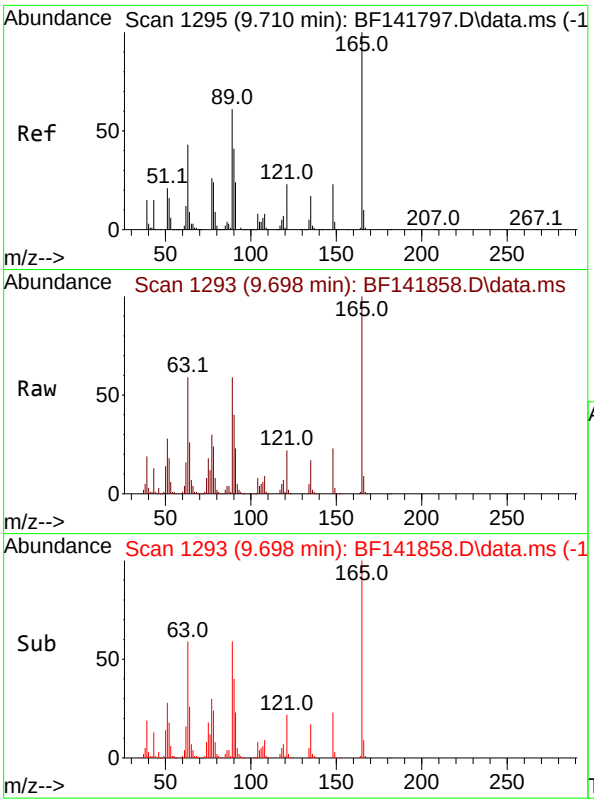




#50
Dimethylphthalate
Concen: 40.693 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:163 Resp: 1150740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.0 | 3.1 | 4.7 |
| 164 | 10.5 | 8.4 | 12.6 |



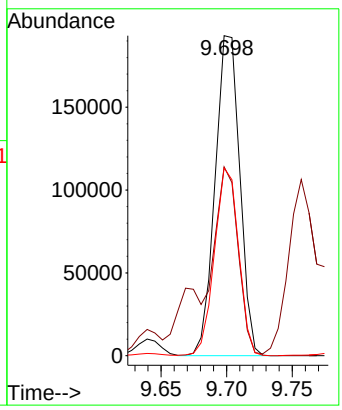


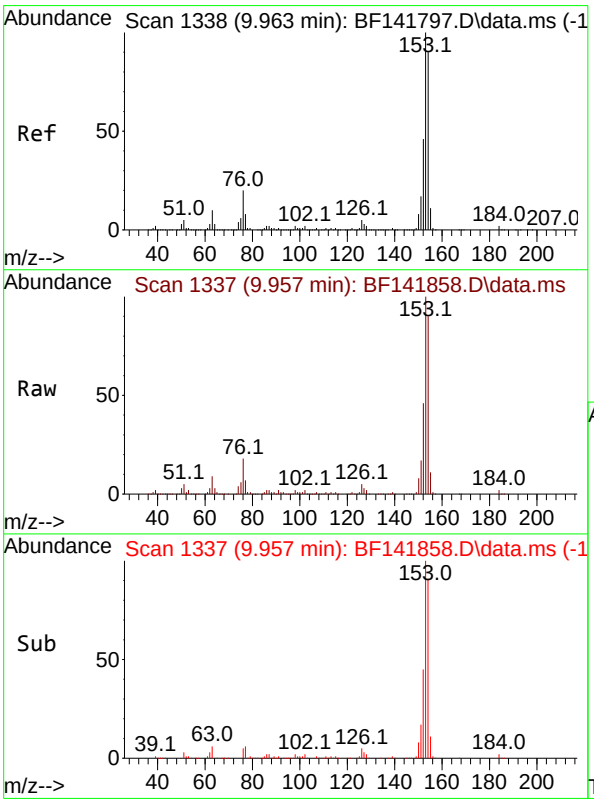

#51
2,6-Dinitrotoluene
Concen: 46.842 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:165 Resp: 253007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 59.0 | 49.5 | 74.3 |
| 89 | 58.7 | 49.0 | 73.4 |

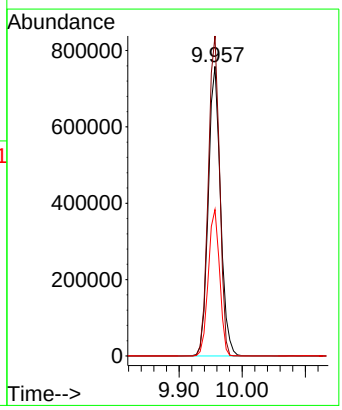


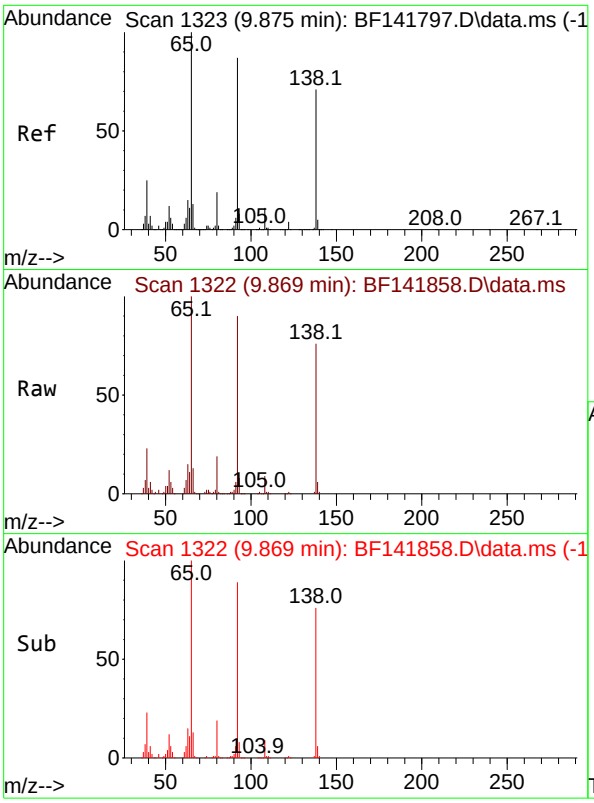




#52
Acenaphthene
Concen: 42.527 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:154 Resp: 1020635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 110.5 | 88.7 | 133.1 |
| 152 | 50.5 | 40.9 | 61.3 |



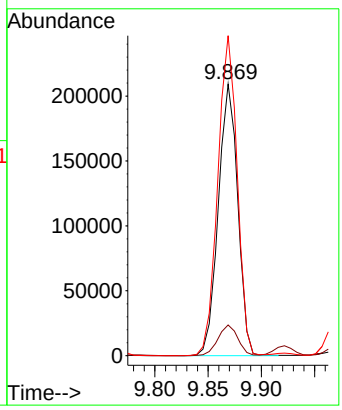


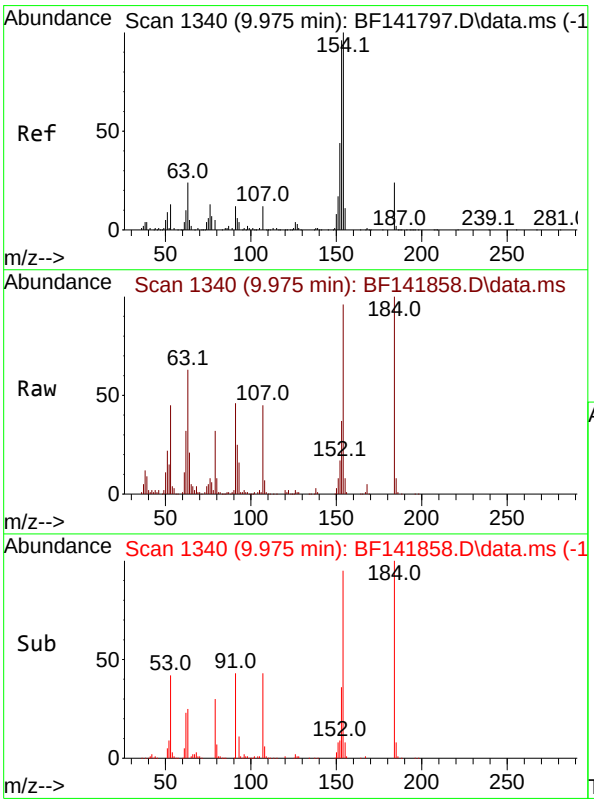

#53
3-Nitroaniline
Concen: 46.137 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:138 Resp: 265149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.3 | 12.7 | 19.1# |
| 92 | 117.8 | 97.9 | 146.9 |

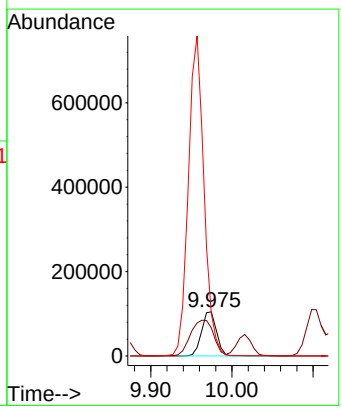


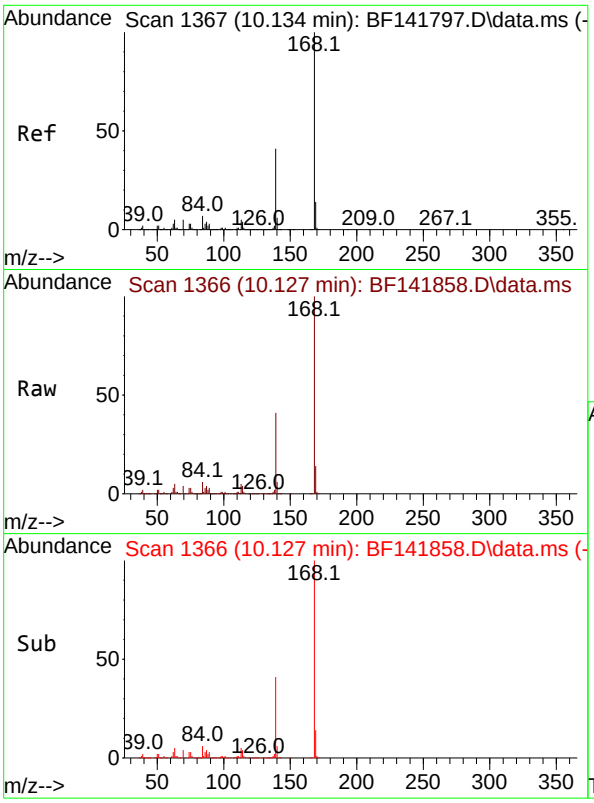




#54
2,4-Dinitrophenol
Concen: 59.722 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:184 Resp: 134035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 63.5 | 79.0 | 118.6# |
| 154 | 95.7 | 335.8 | 503.8# |



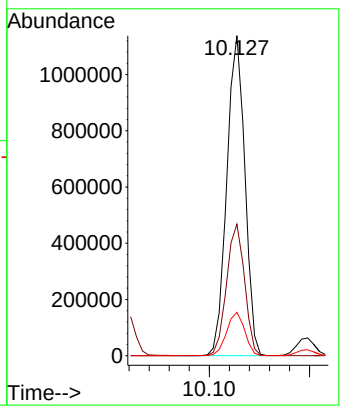


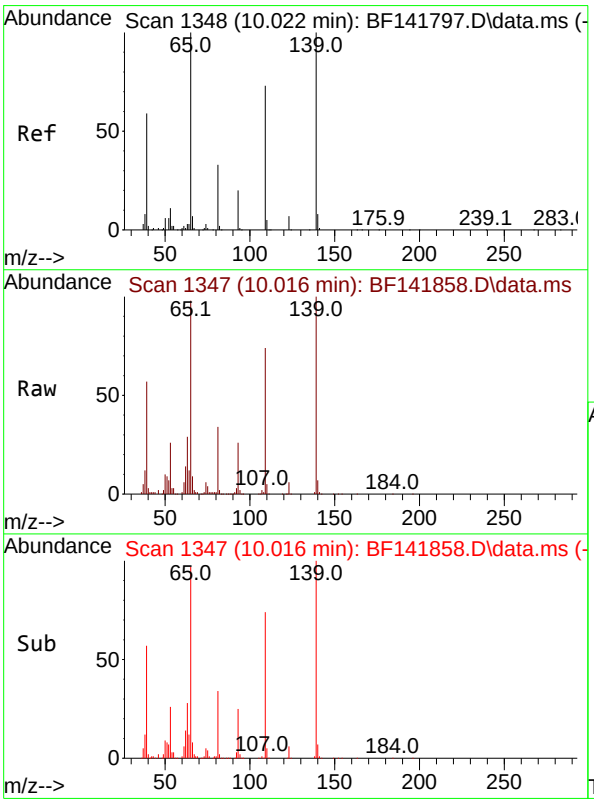

#55
Dibenzofuran
Concen: 40.671 ng
RT: 10.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:168 Resp: 1420674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 41.1 | 32.9 | 49.3 |
| 169 | 13.5 | 11.1 | 16.7 |

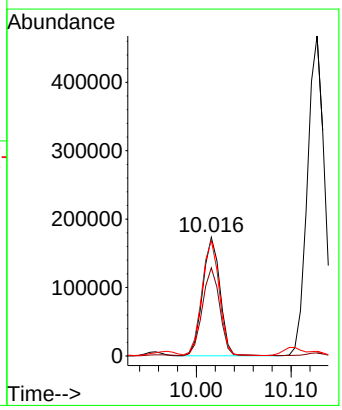


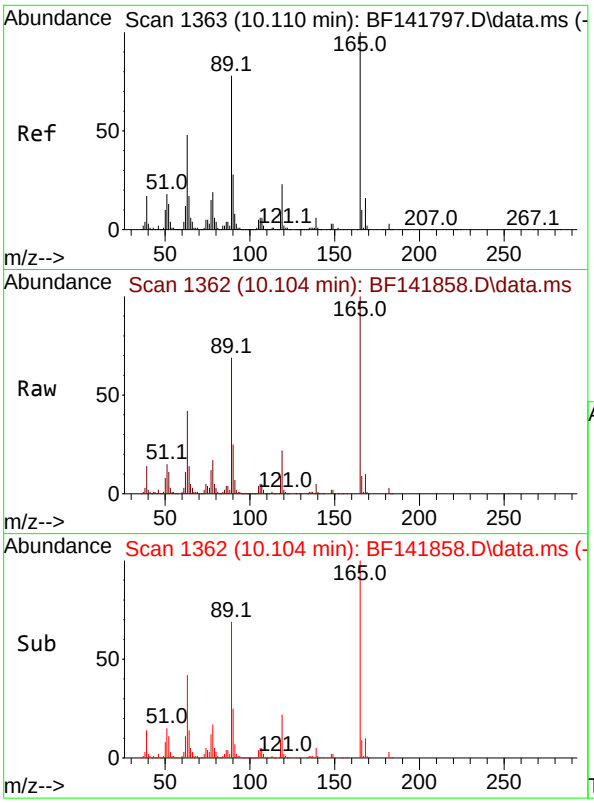




#56
4-Nitrophenol
Concen: 52.954 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:139 Resp: 221169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 74.4 | 53.4 | 93.4 |
| 65 | 97.6 | 82.1 | 122.1 |



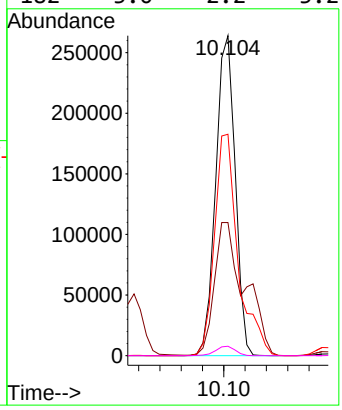


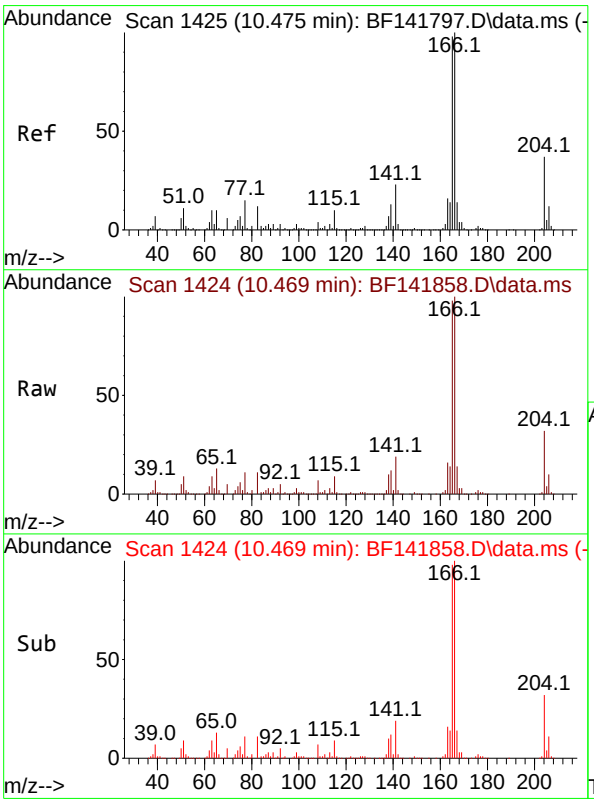

#57
2,4-Dinitrotoluene
Concen: 50.419 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:165 Resp: 334417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 41.6 | 38.8 | 58.2 |
| 89 | 69.2 | 62.6 | 94.0 |
| 182 | 3.0 | 2.2 | 3.2 |

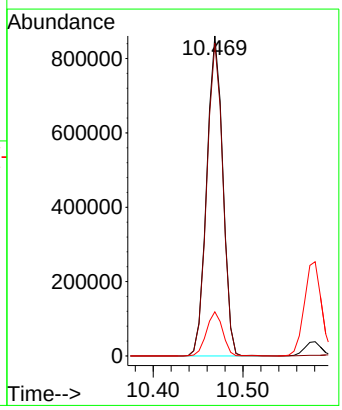


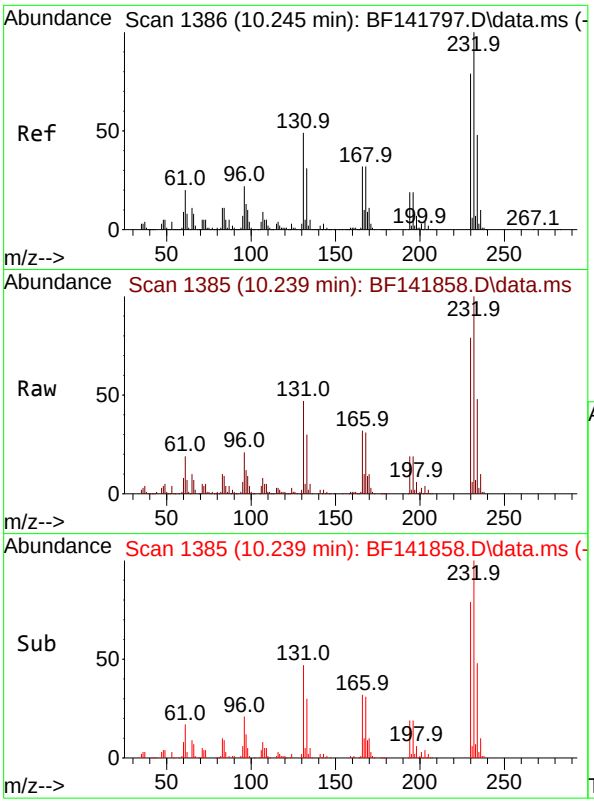




#58
Fluorene
Concen: 41.003 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:166 Resp: 1072855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 97.7 | 78.6 | 117.8 |
| 167 | 13.8 | 11.0 | 16.4 |



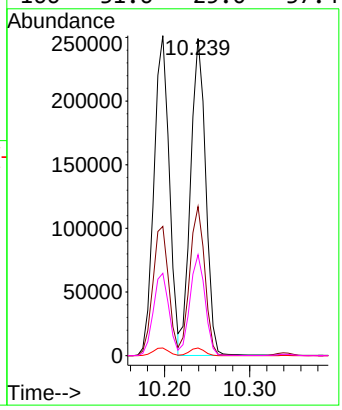


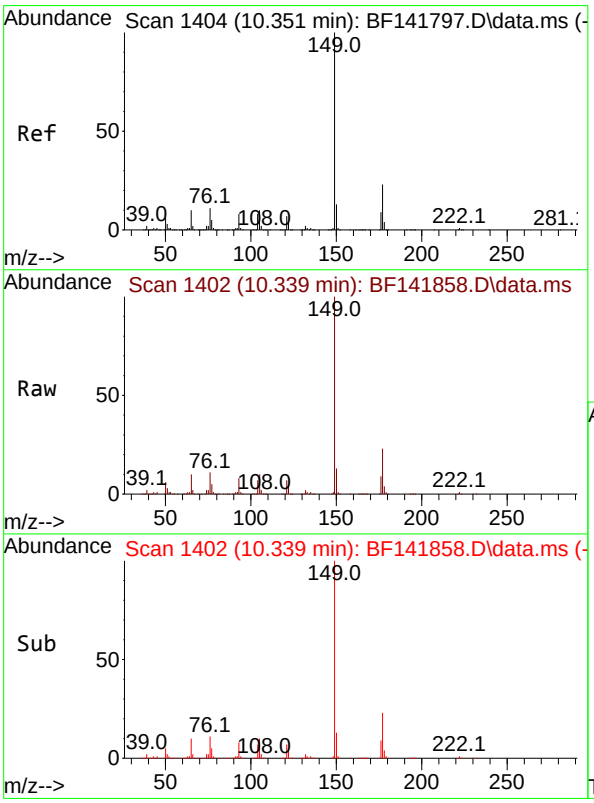

#59
2,3,4,6-Tetrachlorophenol
Concen: 45.123 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:232 Resp: 306137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 47.1 | 37.8 | 56.8 |
| 130 | 2.4 | 2.0 | 3.0 |
| 166 | 31.6 | 25.0 | 37.4 |

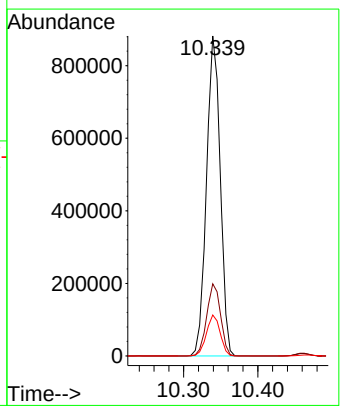


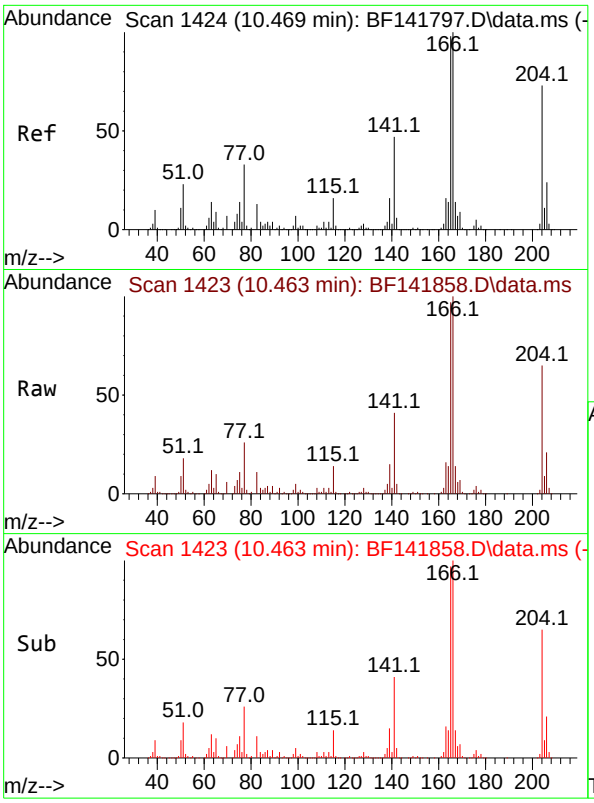




#60
Diethylphthalate
Concen: 40.052 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:149 Resp: 1135424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.5 | 18.3 | 27.5 |
| 150 | 12.8 | 10.3 | 15.5 |



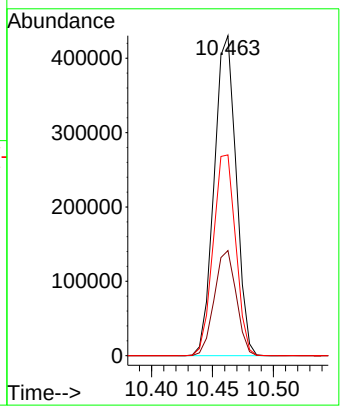


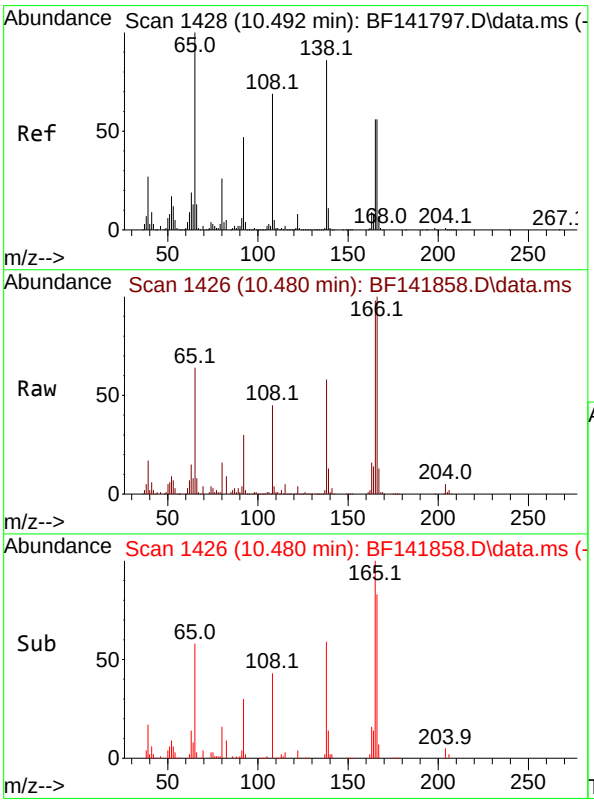

#61
4-Chlorophenyl-phenylether
Concen: 41.246 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:204 Resp: 540721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.9 | 26.2 | 39.4 |
| 141 | 62.8 | 51.7 | 77.5 |

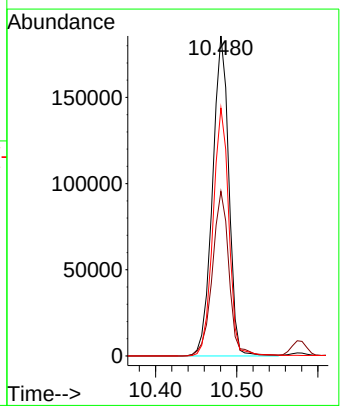


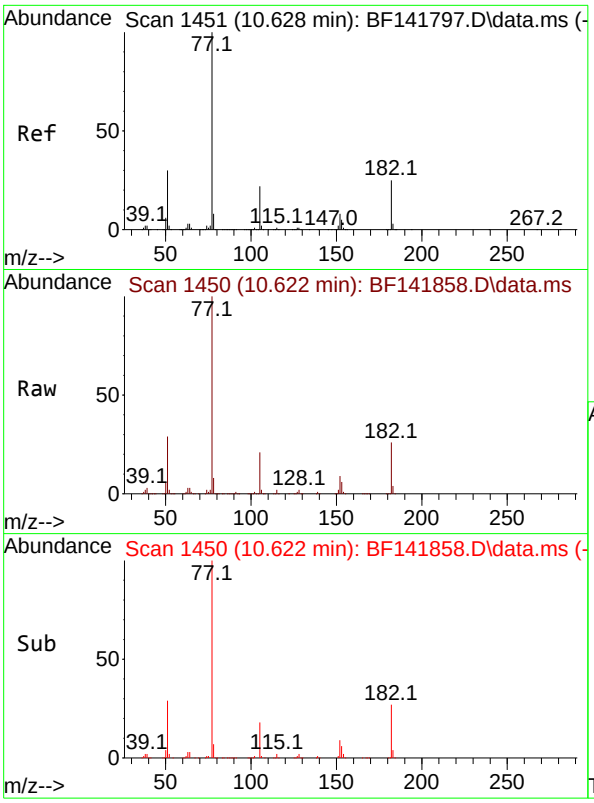




#62
4-Nitroaniline
Concen: 53.688 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:138 Resp: 259275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 51.4 | 34.9 | 74.9 |
| 108 | 77.5 | 59.6 | 99.6 |



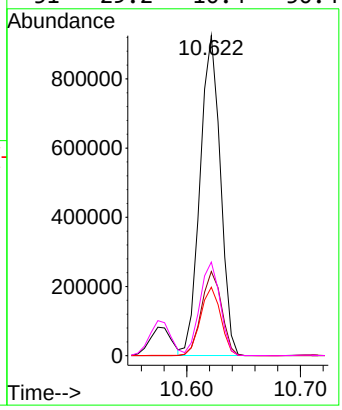


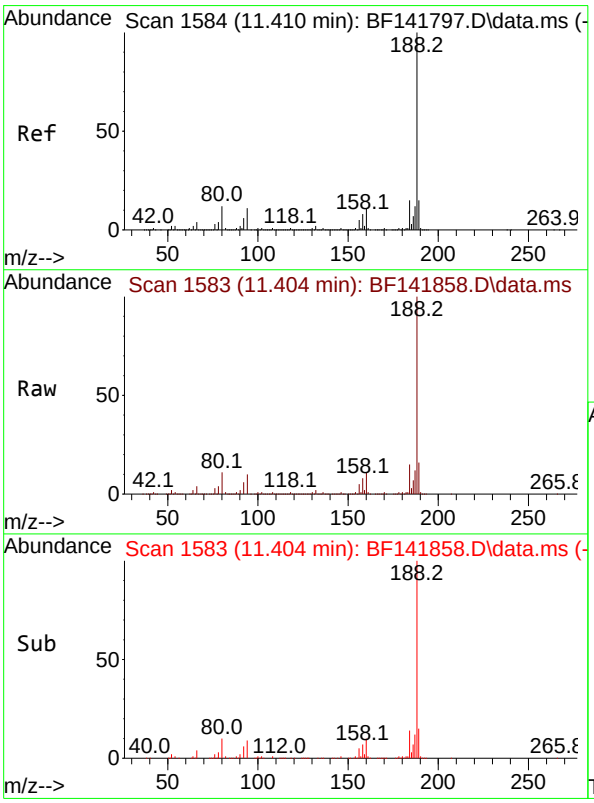

#63
Azobenzene
Concen: 38.422 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion: 77 Resp: 1146863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 26.3 | 4.2 | 44.2 |
| 105 | 21.4 | 1.5 | 41.5 |
| 51 | 29.2 | 10.4 | 50.4 |

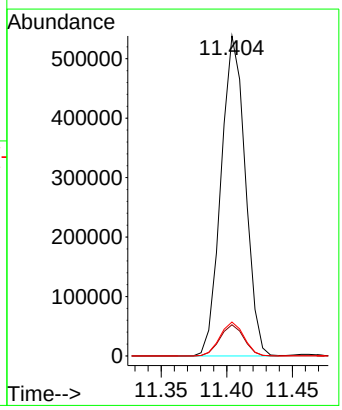


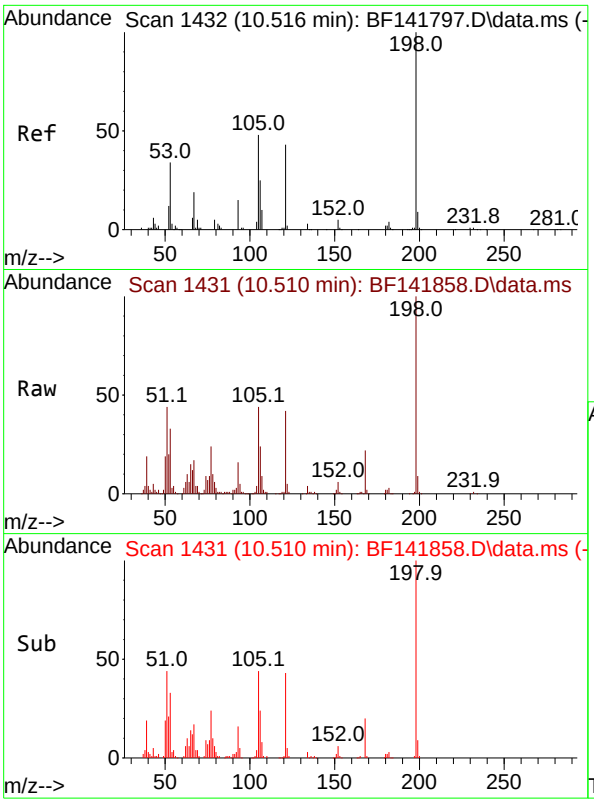




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:188 Resp: 691934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.8 | 8.9 | 13.3 |
| 80 | 10.6 | 9.7 | 14.5 |



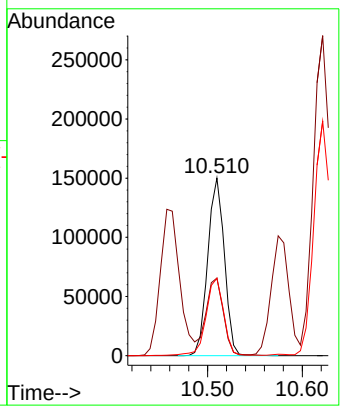


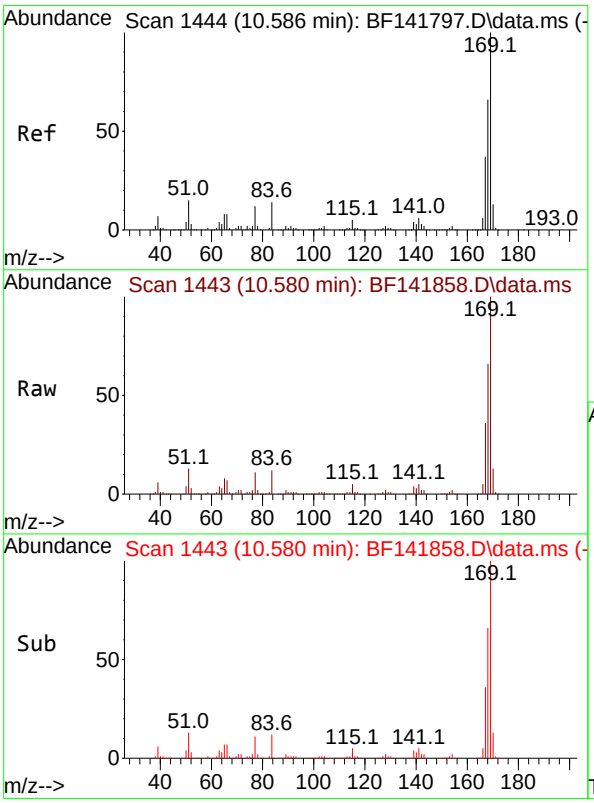

#65
4,6-Dinitro-2-methylphenol
Concen: 54.694 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:198 Resp: 182658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 43.7 | 32.1 | 72.1 |
| 105 | 43.6 | 28.5 | 68.5 |

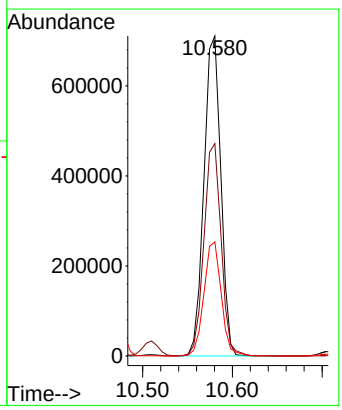


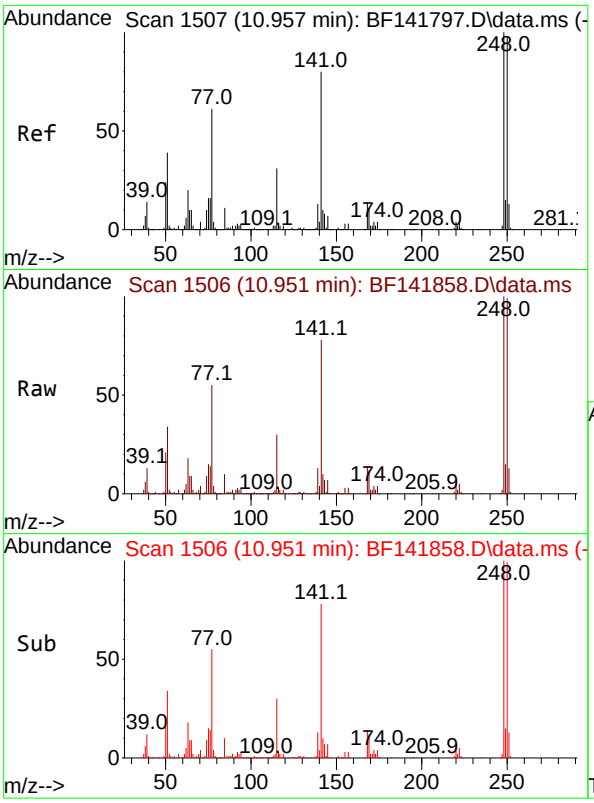




#66
n-Nitrosodiphenylamine
Concen: 40.832 ng
RT: 10.580 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:169 Resp: 927726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.4 | 53.0 | 79.6 |
| 167 | 35.7 | 29.3 | 43.9 |



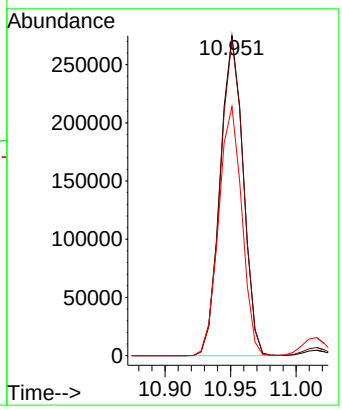


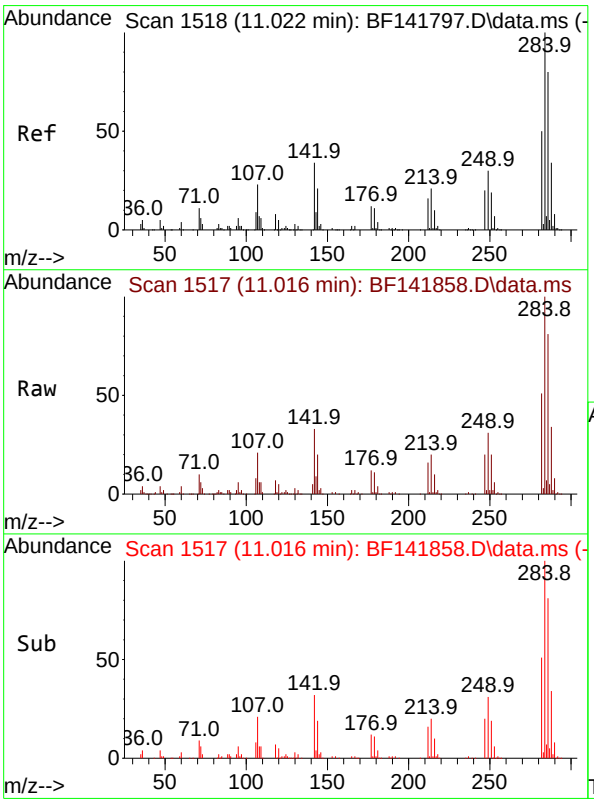

#67
4-Bromophenyl-phenylether
Concen: 41.606 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:248 Resp: 336262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 98.8 | 78.1 | 117.1 |
| 141 | 77.9 | 64.3 | 96.5 |

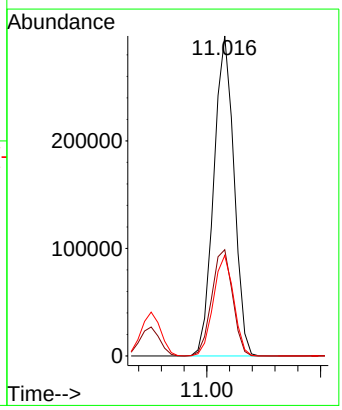


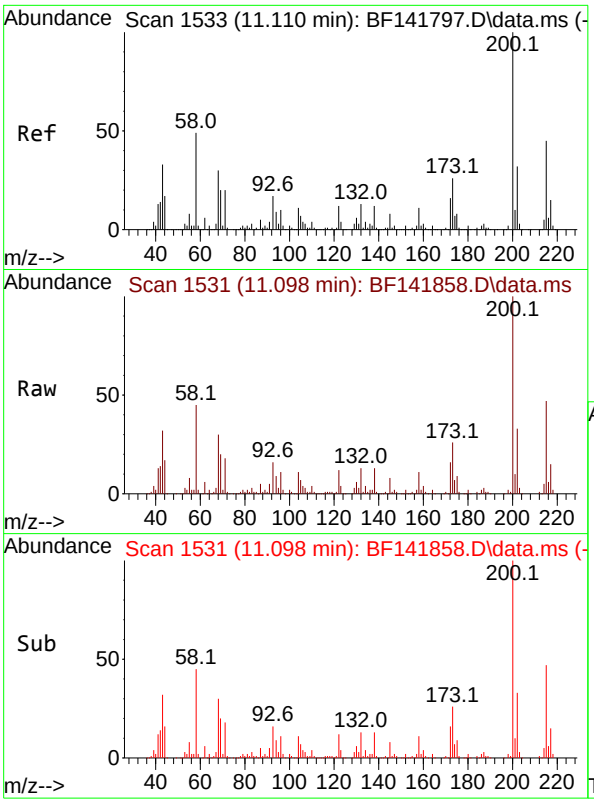




#68
Hexachlorobenzene
Concen: 43.090 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:284 Resp: 367747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 33.2 | 28.2 | 42.2 |
| 249 | 31.4 | 25.5 | 38.3 |



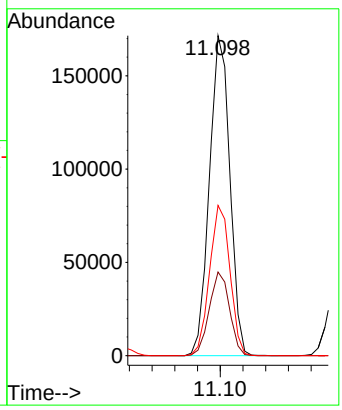


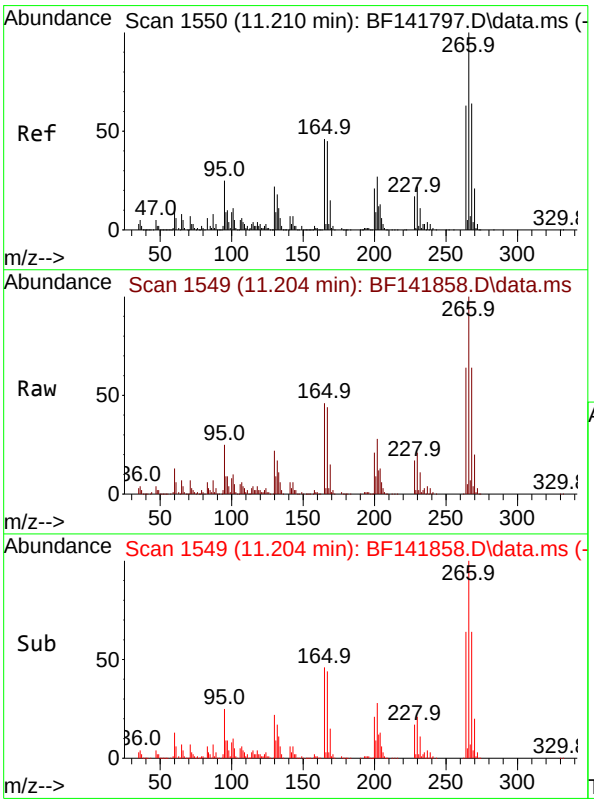

#69
Atrazine
Concen: 34.313 ng
RT: 11.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:200 Resp: 214392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 26.2 | 5.6 | 45.6 |
| 215 | 47.0 | 25.3 | 65.3 |

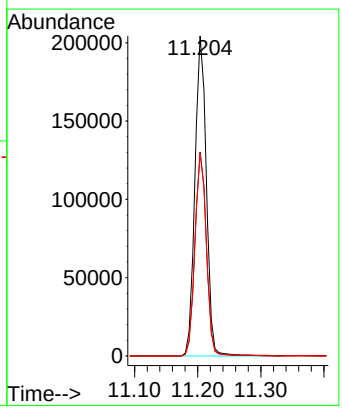


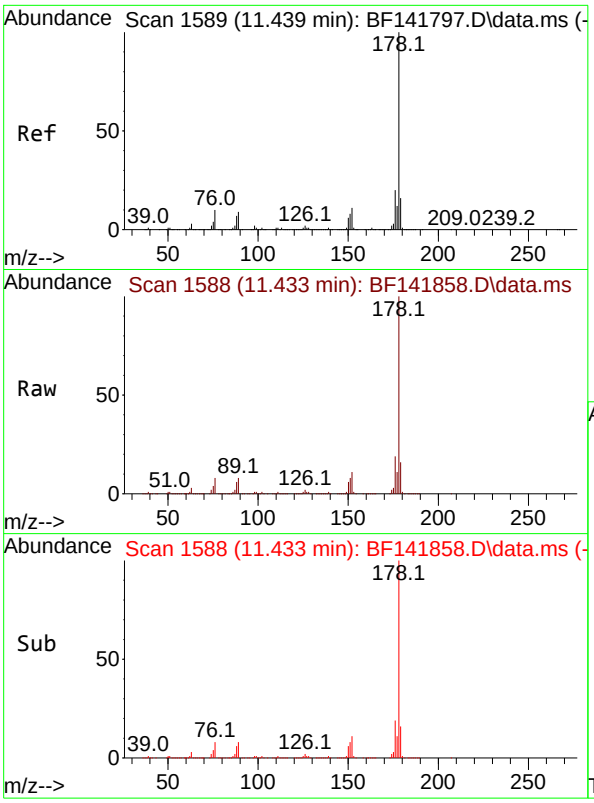




#70
Pentachlorophenol
Concen: 47.434 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:266 Resp: 256754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.8 | 50.9 | 76.3 |
| 264 | 63.5 | 50.2 | 75.4 |



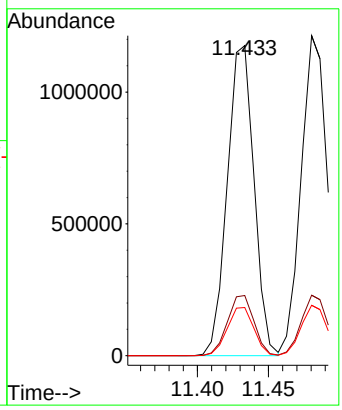


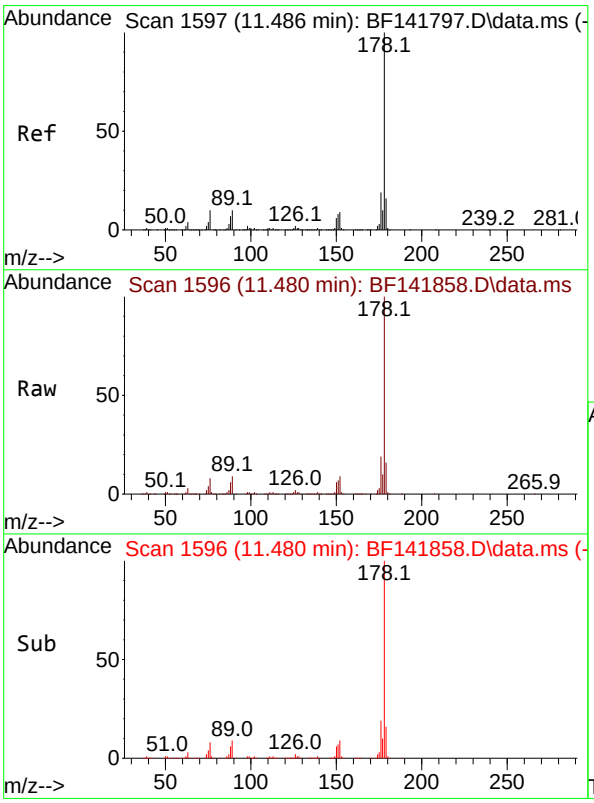

#71
Phenanthrene
Concen: 41.677 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:178 Resp: 1542542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.4 | 16.0 | 24.0 |
| 179 | 15.6 | 12.6 | 19.0 |

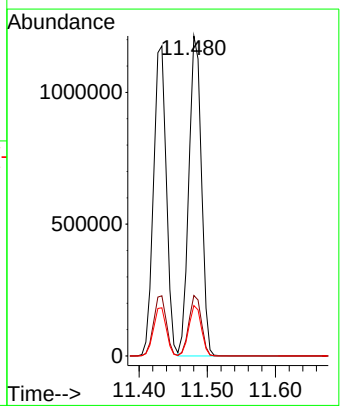


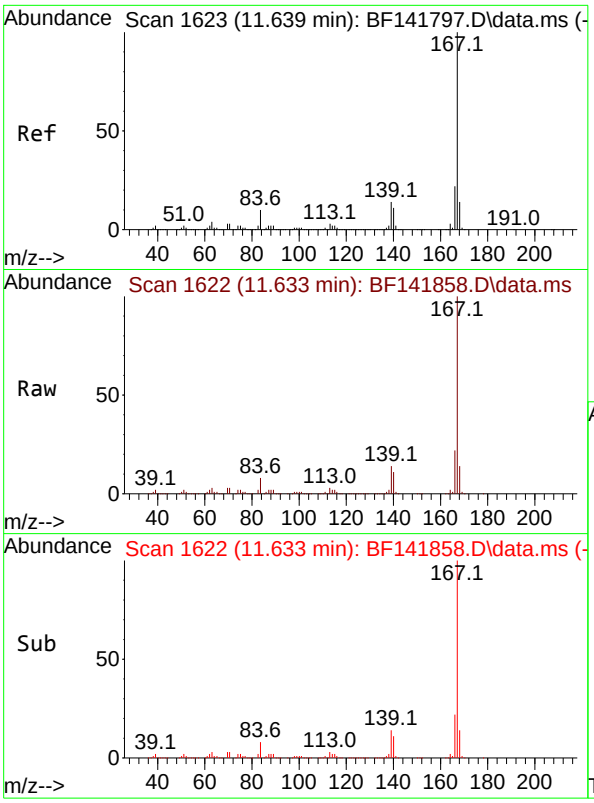




#72
Anthracene
Concen: 41.580 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:178 Resp: 1542354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.4 | 23.0 |
| 179 | 15.8 | 12.8 | 19.2 |



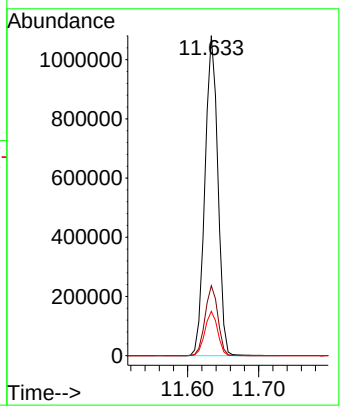


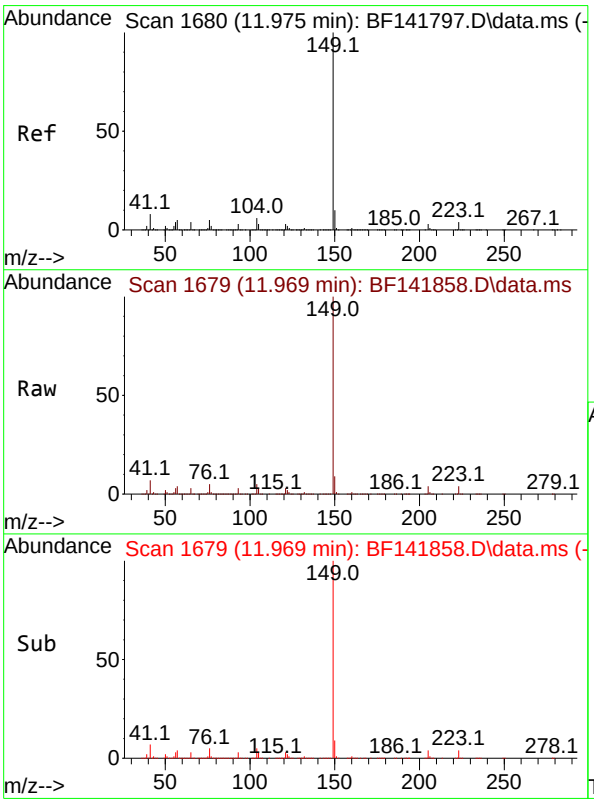

#73
Carbazole
Concen: 41.751 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:167 Resp: 1367611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.8 | 17.5 | 26.3 |
| 139 | 13.8 | 11.3 | 16.9 |

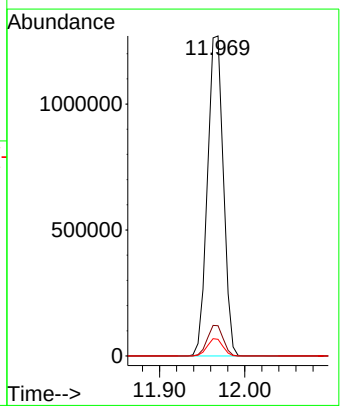


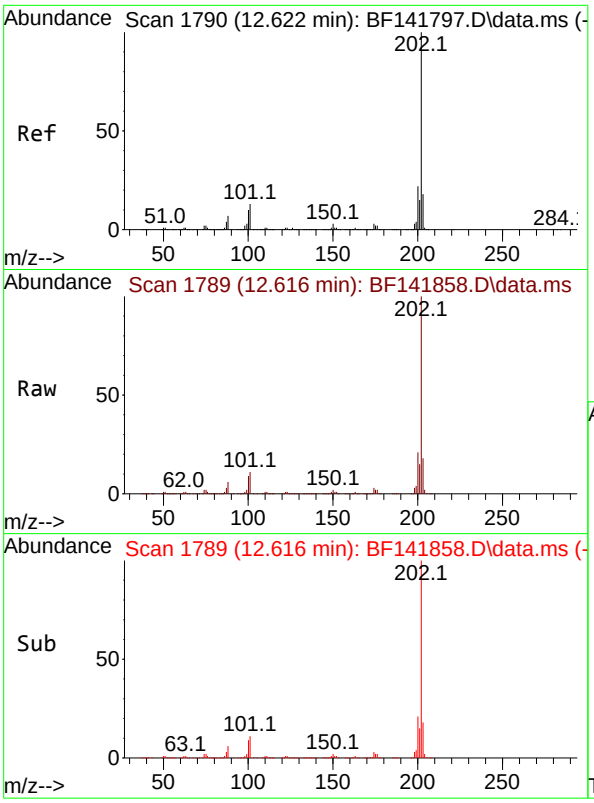




#74
Di-n-butylphthalate
Concen: 39.592 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:149 Resp: 1643939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.5 | 7.7 | 11.5 |
| 104 | 5.2 | 4.4 | 6.6 |



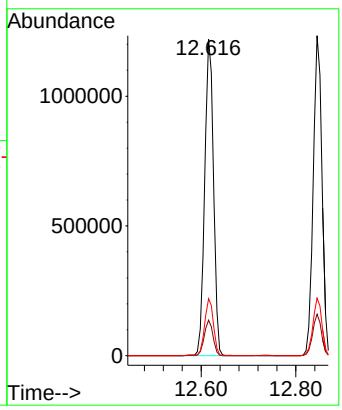


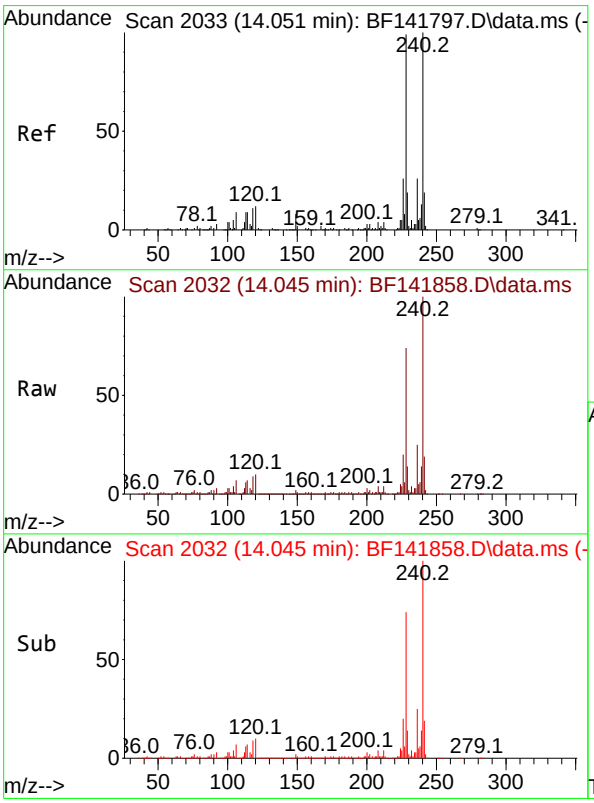

#75
Fluoranthene
Concen: 41.655 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:202 Resp: 1579732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.2 | 0.0 | 32.8 |
| 203 | 18.0 | 0.0 | 38.0 |

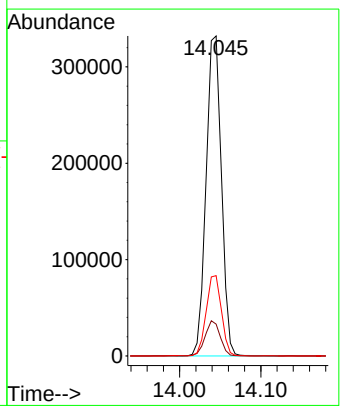


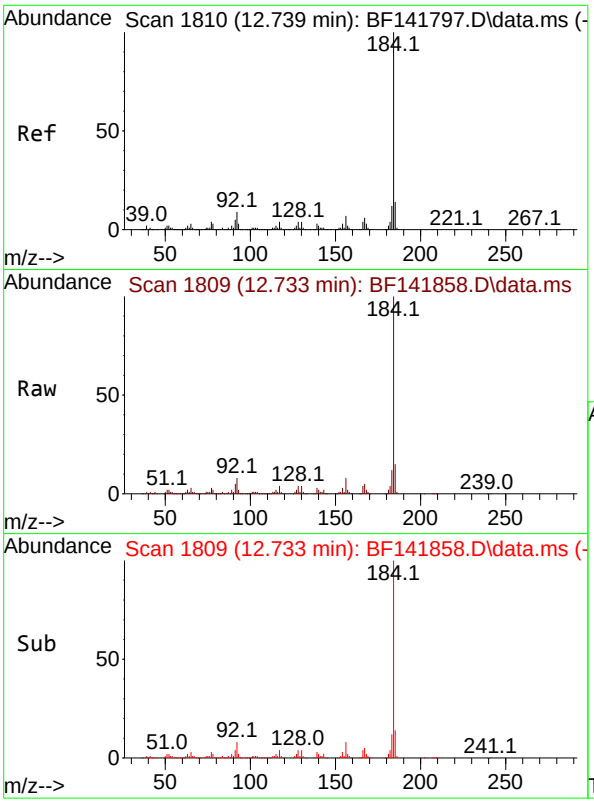




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:240 Resp: 434521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.0 | 9.7 | 14.5 |
| 236 | 25.1 | 21.0 | 31.4 |



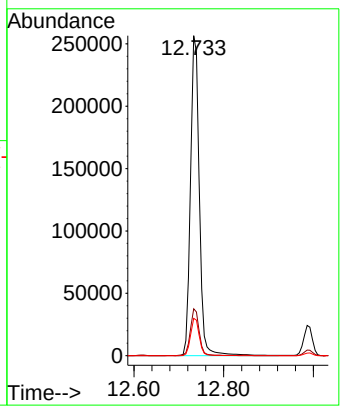


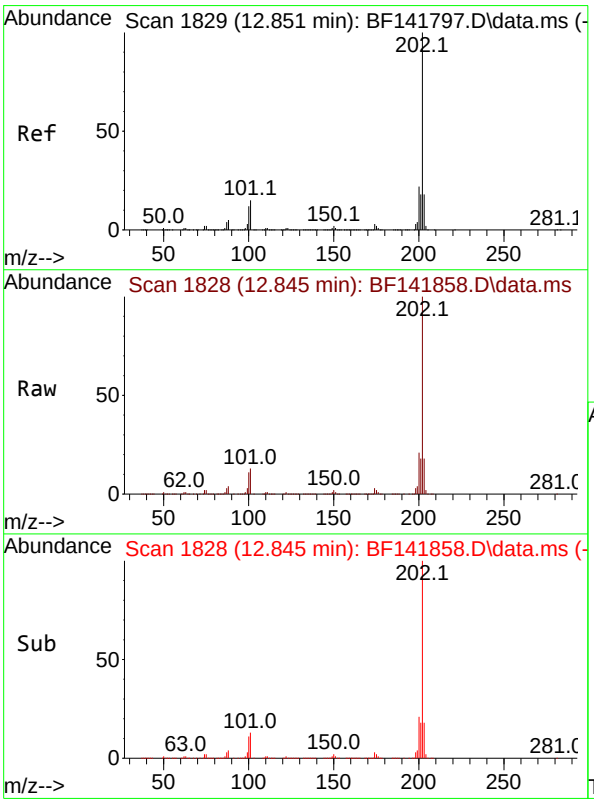

#77
Benzidine
Concen: 64.132 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:184 Resp: 350744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.6 | 11.6 | 17.4 |
| 183 | 11.6 | 9.4 | 14.0 |

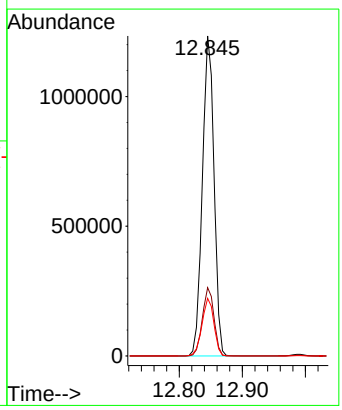


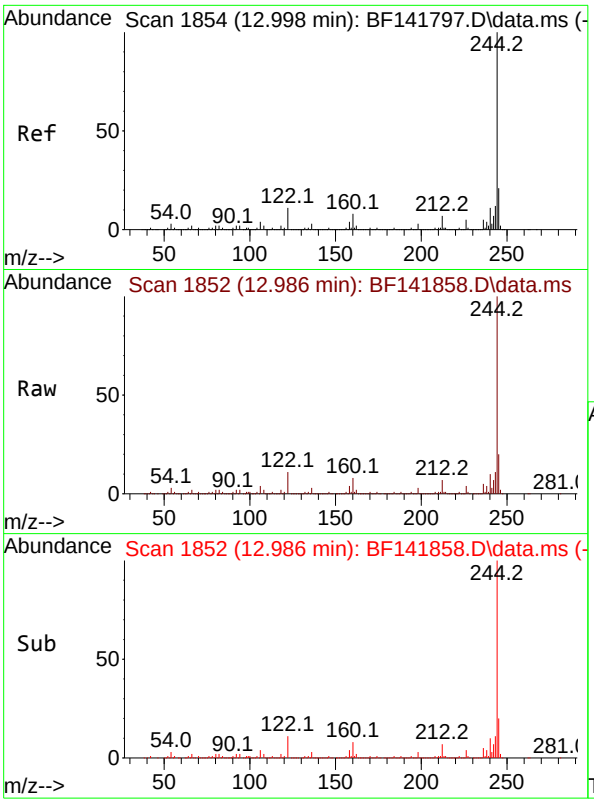




#78
Pyrene
Concen: 42.032 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:202 Resp: 1581543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.3 | 17.4 | 26.0 |
| 203 | 18.0 | 14.6 | 22.0 |



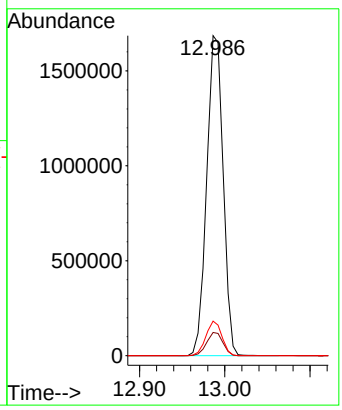


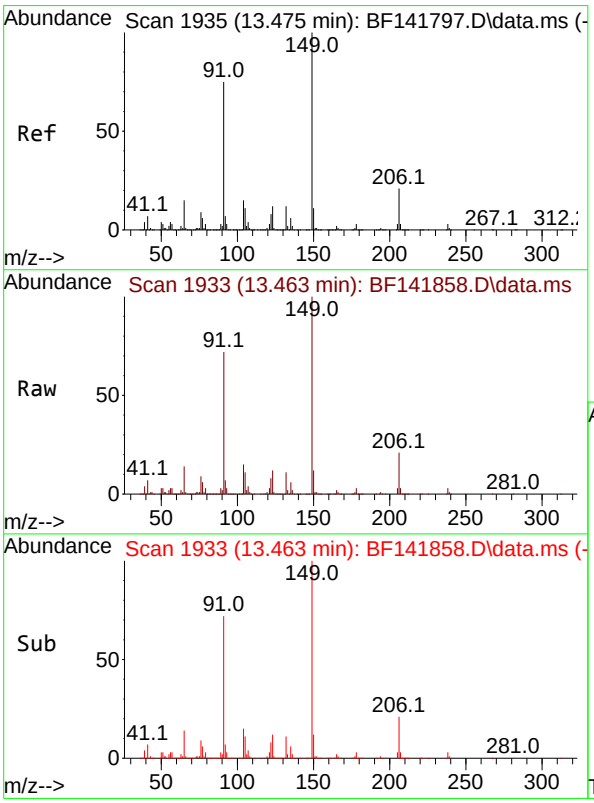

#79
Terphenyl-d14
Concen: 84.201 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:244 Resp: 2261369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.3 | 6.0 | 9.0 |
| 122 | 10.8 | 9.0 | 13.6 |

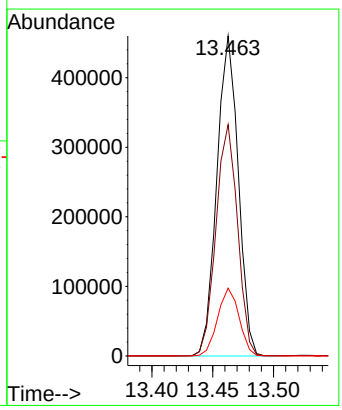


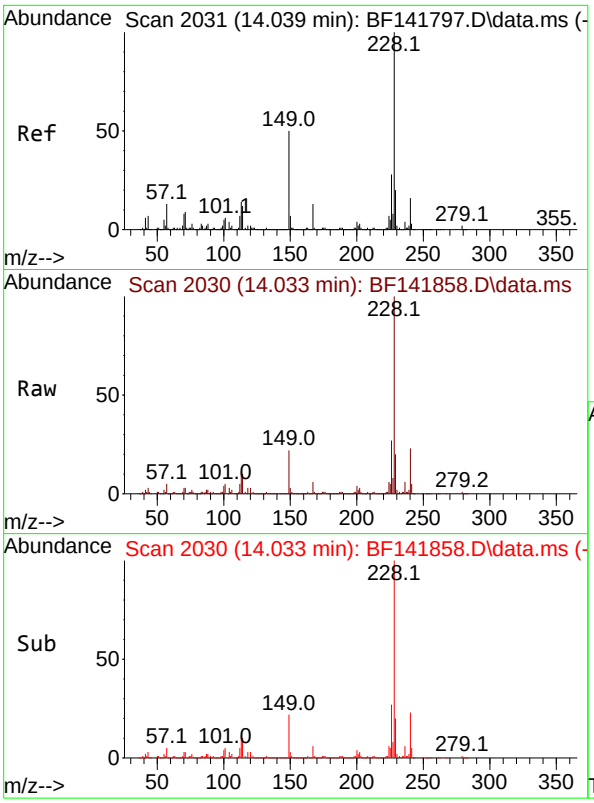




#80
Butylbenzylphthalate
Concen: 41.333 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:149 Resp: 565050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 72.3 | 60.1 | 90.1 |
| 206 | 21.2 | 16.8 | 25.2 |



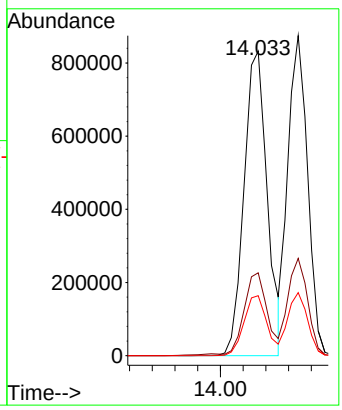


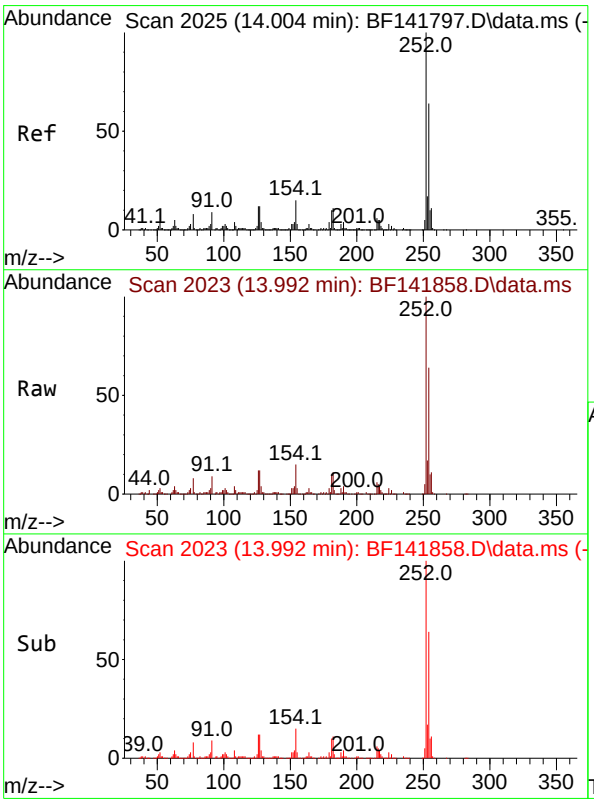

#81
Benzo(a)anthracene
Concen: 41.166 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:228 Resp: 1181513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.2 | 22.1 | 33.1 |
| 229 | 19.7 | 16.1 | 24.1 |

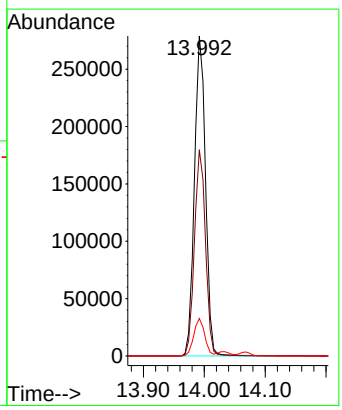


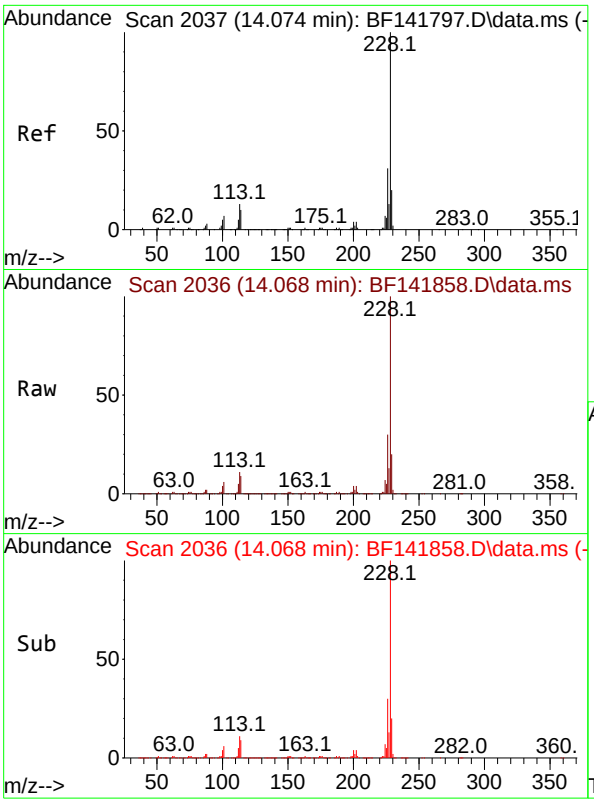




#82
3,3'-Dichlorobenzidine
Concen: 42.780 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:252 Resp: 352265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 64.5 | 51.4 | 77.0 |
| 126 | 11.7 | 9.8 | 14.6 |



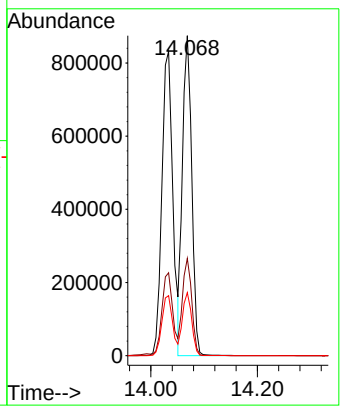


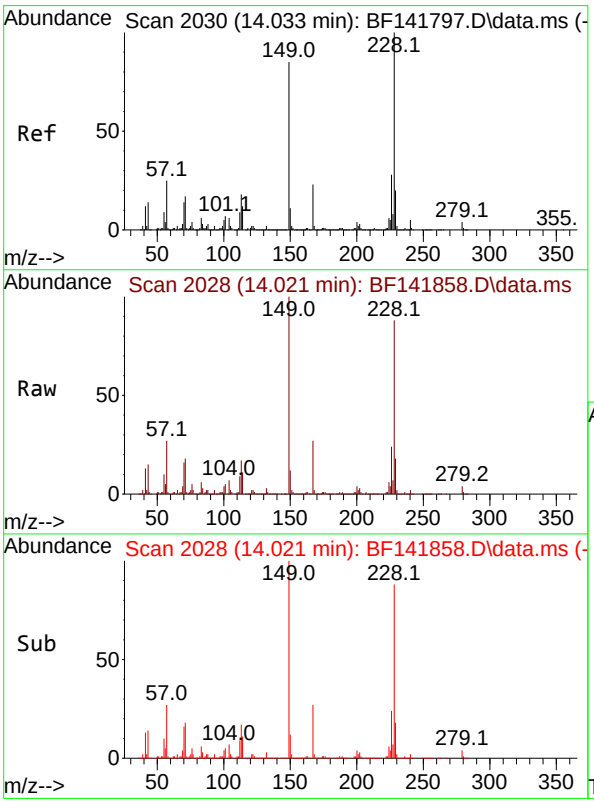

#83
Chrysene
Concen: 40.001 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:228 Resp: 1058301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.4 | 24.6 | 37.0 |
| 229 | 19.7 | 16.1 | 24.1 |

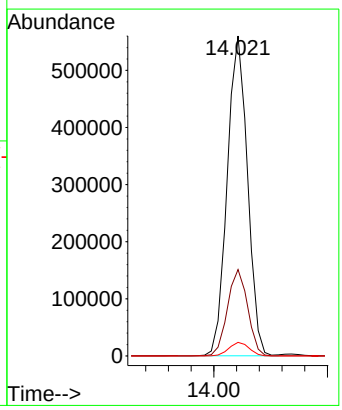


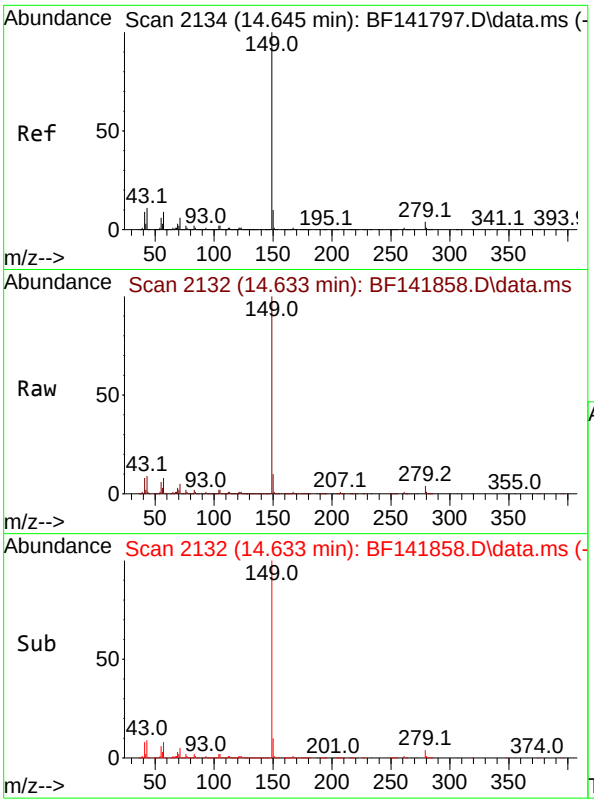




#84
Bis(2-ethylhexyl)phthalate
Concen: 40.771 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:149 Resp: 694013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 27.0 | 21.2 | 31.8 |
| 279 | 4.3 | 3.3 | 4.9 |



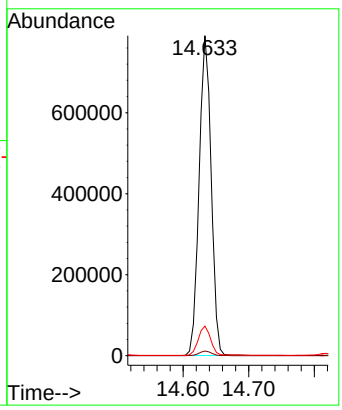


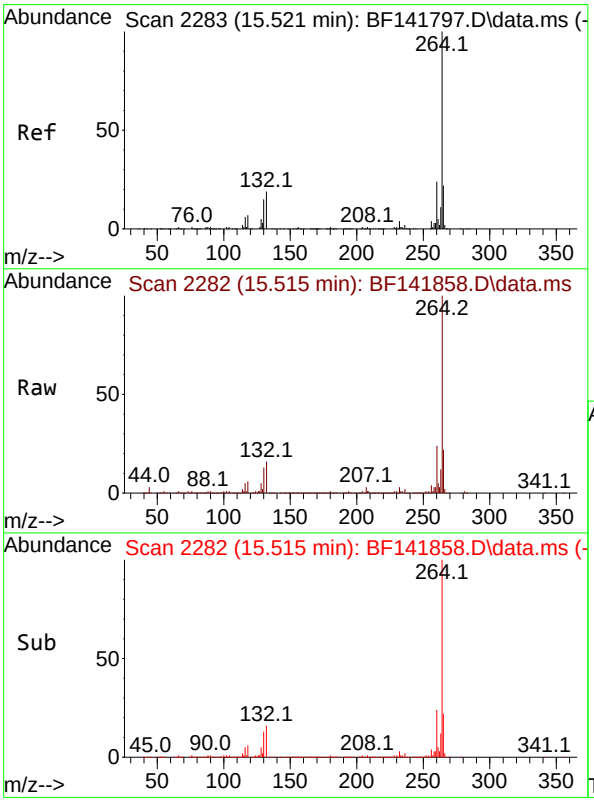

#85
Di-n-octyl phthalate
Concen: 39.653 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:149 Resp: 1010509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.5 | 1.2 | 1.8 |
| 43 | 9.5 | 8.6 | 12.8 |

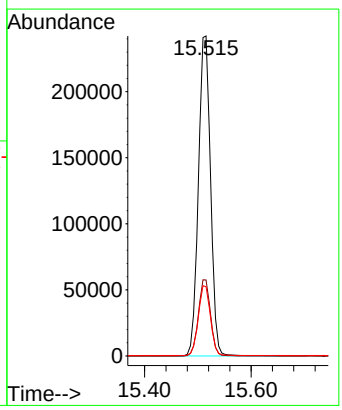


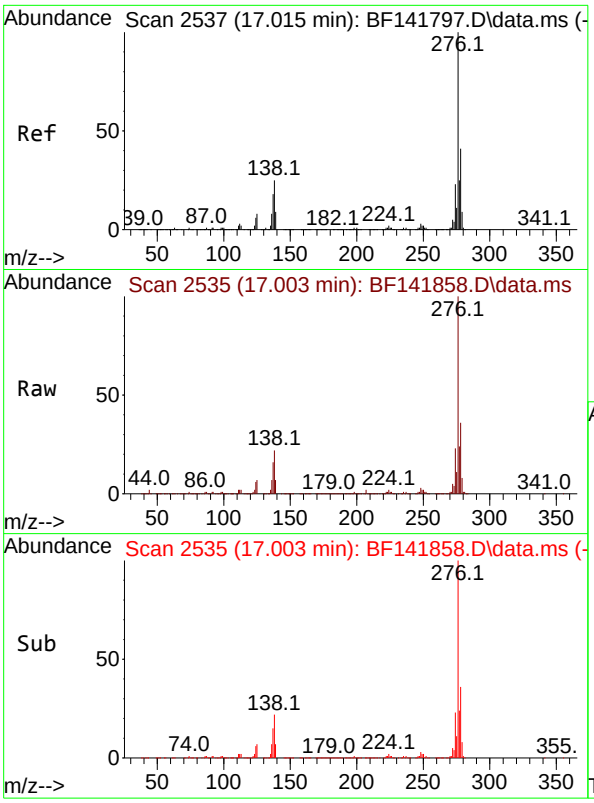




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:264 Resp: 382575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.7 | 18.9 | 28.3 |
| 265 | 21.7 | 17.4 | 26.0 |



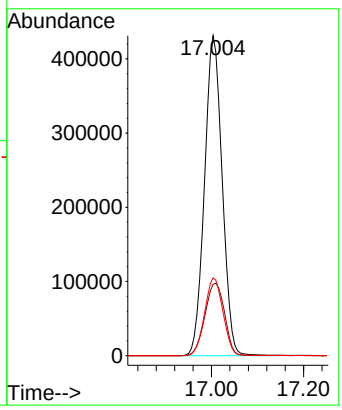


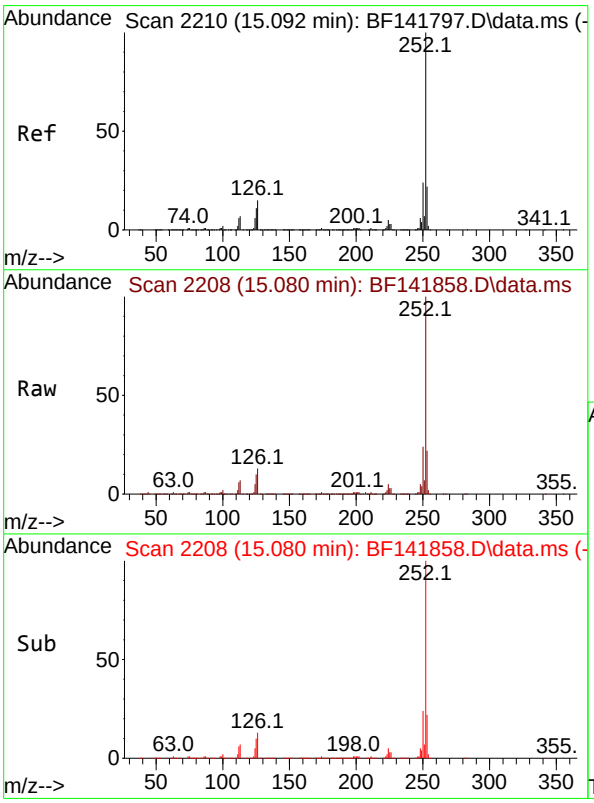

#87
Indeno(1,2,3-cd)pyrene
Concen: 47.319 ng
RT: 17.003 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:276 Resp: 1152756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 25.1 | 22.5 | 33.7 |
| 277 | 25.3 | 20.3 | 30.5 |

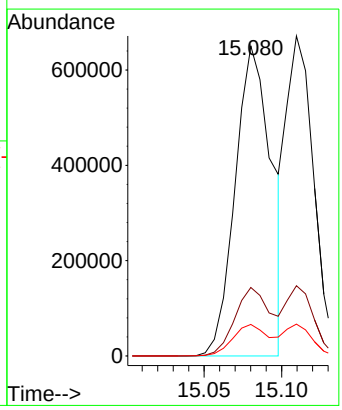


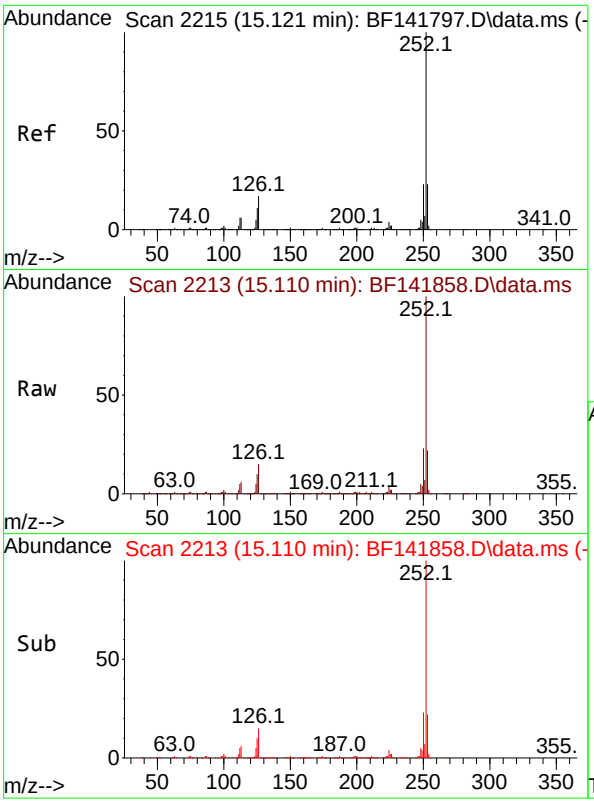




#88
Benzo(b)fluoranthene
Concen: 40.755 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:252 Resp: 1062079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 17.7 | 26.5 |
| 125 | 10.2 | 8.6 | 13.0 |



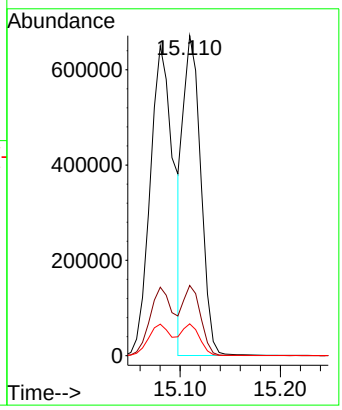


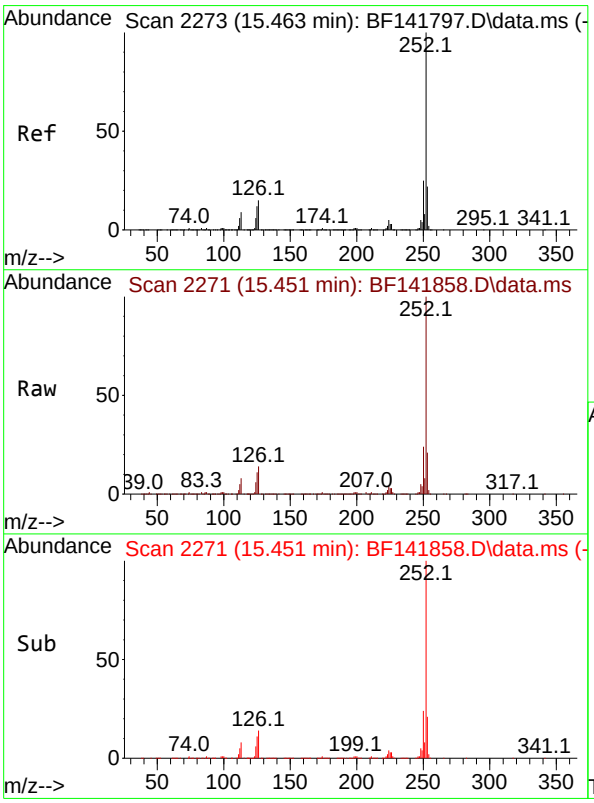

#89
Benzo(k)fluoranthene
Concen: 37.066 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:252 Resp: 821007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 17.8 | 26.8 |
| 125 | 10.0 | 8.8 | 13.2 |

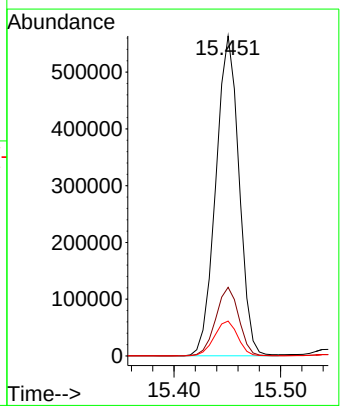


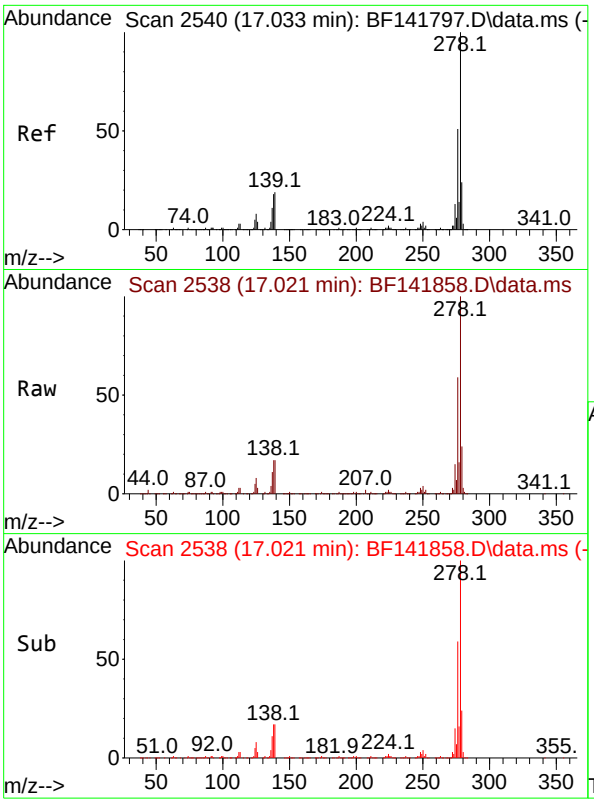




#90
Benzo(a)pyrene
Concen: 40.761 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:252 Resp: 851884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 21.5 | 17.5 | 26.3 |
| 125 | 10.9 | 9.4 | 14.2 |



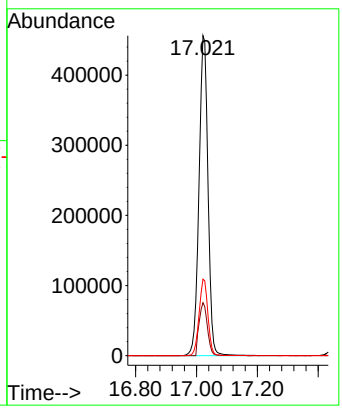


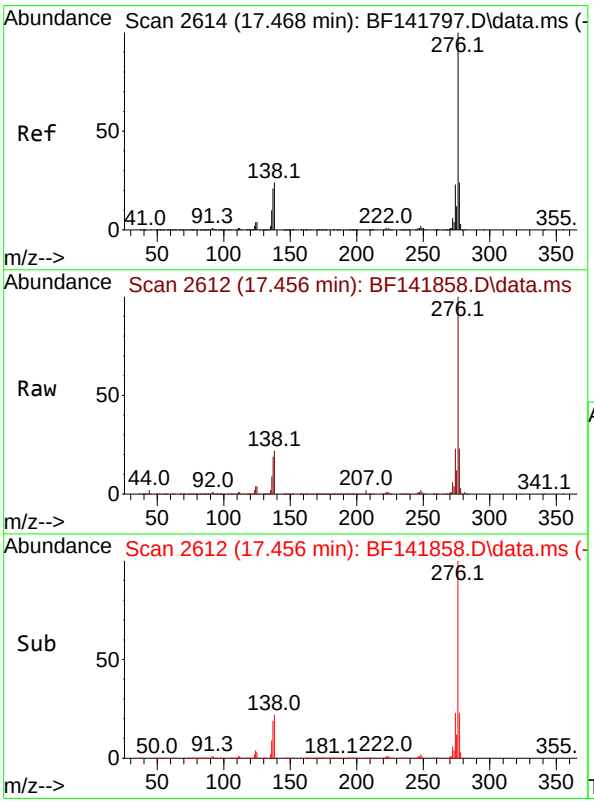

#91
Dibenzo(a,h)anthracene
Concen: 46.962 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

**Instrument :**
BNA_F
**ClientSampleId :**
SSTDCCC040

Tgt Ion:278 Resp: 933839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 16.6 | 14.9 | 22.3 |
| 279 | 23.9 | 19.3 | 28.9 |

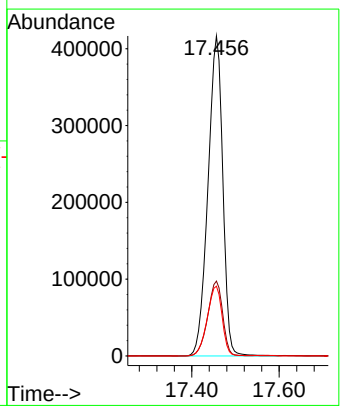



#92
Benzo(g,h,i)perylene
Concen: 48.133 ng
RT: 17.456 min Scan# 2612
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:276 Resp: 980552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.4 | 19.4 | 29.0 |
| 138 | 21.8 | 19.3 | 28.9 |



Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 | 72 | 0.00 |
| 2 | | 1,4-Dioxane | 0.568 | 0.556 | 2.1 | 67 | -0.02 |
| 3 | | Pyridine | 1.414 | 1.372 | 3.0 | 67 | -0.02 |
| 4 | | n-Nitrosodimethylamine | 0.680 | 0.662 | 2.6 | 65 | -0.02 |
| 5 | S | 2-Fluorophenol | 1.252 | 1.263 | -0.9 | 71 | 0.00 |
| 6 | | Aniline | 1.695 | 1.594 | 6.0 | 64 | 0.00 |
| 7 | S | Phenol-d6 | 1.630 | 1.584 | 2.8 | 68 | 0.00 |
| 8 | | 2-Chlorophenol | 1.355 | 1.366 | -0.8 | 70 | 0.00 |
| 9 | | Benzaldehyde | 0.948 | 0.847 | 10.7 | 62 | 0.00 |
| 10 | C | Phenol | 1.742 | 1.692 | 2.9 | 67 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.328 | 1.246 | 6.2 | 67 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.451 | 1.457 | -0.4 | 70 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 1.462 | 1.504 | -2.9 | 72 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 1.365 | 1.366 | -0.1 | 70 | 0.00 |
| 15 | | Benzyl Alcohol | 1.303 | 1.261 | 3.2 | 67 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.016 | 1.664 | 17.5 | 58 | 0.00 |
| 17 | | 2-Methylphenol | 1.118 | 1.076 | 3.8 | 67 | 0.00 |
| 18 | | Hexachloroethane | 0.547 | 0.554 | -1.3 | 69 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 1.072 | 0.946 | 11.8 | 63 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.392 | 1.366 | 1.9 | 68 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 67 | 0.00 |
| 22 | | Acetophenone | 0.487 | 0.490 | -0.6 | 67 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.313 | 0.382 | -22.0 | 76 | 0.00 |
| 24 | | Nitrobenzene | 0.335 | 0.382 | -14.0 | 71 | 0.00 |
| 25 | | Isophorone | 0.672 | 0.635 | 5.5 | 63 | 0.00 |
| 26 | C | 2-Nitrophenol | 0.127 | 0.188 | -48.0# | 88 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.247 | 0.253 | -2.4 | 67 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.429 | 0.412 | 4.0 | 64 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.285 | 0.305 | -7.0 | 69 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 0.312 | 0.332 | -6.4 | 70 | 0.00 |
| 31 | | Naphthalene | 1.028 | 1.054 | -2.5 | 68 | 0.00 |
| 32 | | Benzoic acid | 0.179 | 0.250 | -39.7# | 88 | -0.02 |
| 33 | | 4-Chloroaniline | 0.377 | 0.374 | 0.8 | 67 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.194 | 0.208 | -7.2 | 71 | 0.00 |
| 35 | | Caprolactam | 0.088 | 0.093 | -5.7 | 68 | -0.01 |
| 36 | C | 4-Chloro-3-methylphenol | 0.317 | 0.330 | -4.1 | 68 | 0.00 |
| 37 | | 2-Methylnaphthalene | 0.674 | 0.684 | -1.5 | 68 | 0.00 |
| 38 | | 1-Methylnaphthalene | 0.647 | 0.657 | -1.5 | 68 | 0.00 |
| 39 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 68 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 0.578 | 0.607 | -5.0 | 70 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 0.241 | 0.266 | -10.4 | 69 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 0.188 | 0.224 | -19.1 | 76 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 0.373 | 0.399 | -7.0 | 68 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 0.369 | 0.413 | -11.9 | 73 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 1.247 | 1.292 | -3.6 | 71 | 0.00 |
| 46 | | 1,1'-Biphenyl | 1.522 | 1.560 | -2.5 | 69 | 0.00 |
| 47 | | 2-Chloronaphthalene | 1.124 | 1.157 | -2.9 | 69 | 0.00 |

Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 | 0.260 | 0.356 | -36.9# | 80 | 0.00 |
| 49 | | Acenaphthylene | 1.685 | 1.735 | -3.0 | 68 | -0.01 |
| 50 | | Dimethylphthalate | 1.339 | 1.363 | -1.8 | 68 | -0.01 |
| 51 | | 2,6-Dinitrotoluene | 0.226 | 0.300 | -32.7# | 79 | -0.01 |
| 52 | C | Acenaphthene | 1.137 | 1.209 | -6.3 | 71 | 0.00 |
| 53 | | 3-Nitroaniline | 0.241 | 0.314 | -30.3# | 77 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 0.089 | 0.159 | -78.7# | 116 | 0.00 |
| 55 | | Dibenzofuran | 1.654 | 1.682 | -1.7 | 68 | 0.00 |
| 56 | P | 4-Nitrophenol | 0.198 | 0.262 | -32.3# | 77 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 0.269 | 0.396 | -47.2# | 85 | 0.00 |
| 58 | | Fluorene | 1.239 | 1.270 | -2.5 | 70 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 0.321 | 0.362 | -12.8 | 72 | 0.00 |
| 60 | | Diethylphthalate | 1.343 | 1.344 | -0.1 | 66 | -0.01 |
| 61 | | 4-Chlorophenyl-phenylether | 0.621 | 0.640 | -3.1 | 70 | 0.00 |
| 62 | | 4-Nitroaniline | 0.229 | 0.307 | -34.1# | 78 | -0.01 |
| 63 | | Azobenzene | 1.414 | 1.358 | 4.0 | 64 | 0.00 |
| 64 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 67 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 0.081 | 0.132 | -63.0# | 102 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 0.657 | 0.670 | -2.0 | 68 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 0.234 | 0.243 | -3.8 | 69 | 0.00 |
| 68 | | Hexachlorobenzene | 0.247 | 0.266 | -7.7 | 71 | 0.00 |
| 69 | | Atrazine | 0.181 | 0.155 | 14.4 | 58 | -0.01 |
| 70 | C | Pentachlorophenol | 0.156 | 0.186 | -19.2 | 74 | 0.00 |
| 71 | | Phenanthrene | 1.070 | 1.115 | -4.2 | 70 | 0.00 |
| 72 | | Anthracene | 1.072 | 1.115 | -4.0 | 70 | 0.00 |
| 73 | | Carbazole | 0.947 | 0.988 | -4.3 | 69 | 0.00 |
| 74 | | Di-n-butylphthalate | 1.200 | 1.188 | 1.0 | 66 | 0.00 |
| 75 | C | Fluoranthene | 1.096 | 1.142 | -4.2 | 70 | 0.00 |
| 76 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 69 | 0.00 |
| 77 | | Benzidine | 0.252 | 0.404 | -60.3# | 107 | 0.00 |
| 78 | | Pyrene | 1.732 | 1.820 | -5.1 | 70 | 0.00 |
| 79 | S | Terphenyl-d14 | 1.236 | 1.301 | -5.3 | 71 | -0.01 |
| 80 | | Butylbenzylphthalate | 0.629 | 0.650 | -3.3 | 67 | -0.01 |
| 81 | | Benzo(a)anthracene | 1.321 | 1.360 | -3.0 | 72 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 0.379 | 0.405 | -6.9 | 71 | -0.01 |
| 83 | | Chrysene | 1.218 | 1.218 | 0.0 | 66 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 0.783 | 0.799 | -2.0 | 66 | -0.01 |
| 85 | c | Di-n-octyl phthalate | 1.173 | 1.163 | 0.9 | 61 | -0.01 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 67 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 1.274 | 1.507 | -18.3 | 76 | -0.01 |
| 88 | | Benzo(b)fluoranthene | 1.362 | 1.388 | -1.9 | 72 | -0.01 |
| 89 | | Benzo(k)fluoranthene | 1.158 | 1.073 | 7.3 | 60 | -0.01 |
| 90 | C | Benzo(a)pyrene | 1.093 | 1.113 | -1.8 | 67 | -0.01 |
| 91 | | Dibenzo(a,h)anthracene | 1.040 | 1.220 | -17.3 | 74 | -0.01 |
| 92 | | Benzo(g,h,i)perylene | 1.065 | 1.282 | -20.4 | 77 | -0.01 |

Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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

Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 | 72 | 0.00 |
| 2 | | 1,4-Dioxane | 40.000 | 39.116 | 2.2 | 67 | -0.02 |
| 3 | | Pyridine | 40.000 | 38.819 | 3.0 | 67 | -0.02 |
| 4 | | n-Nitrosodimethylamine | 40.000 | 38.909 | 2.7 | 65 | -0.02 |
| 5 | S | 2-Fluorophenol | 80.000 | 80.684 | -0.9 | 71 | 0.00 |
| 6 | | Aniline | 40.000 | 37.619 | 6.0 | 64 | 0.00 |
| 7 | S | Phenol-d6 | 80.000 | 77.750 | 2.8 | 68 | 0.00 |
| 8 | | 2-Chlorophenol | 40.000 | 40.331 | -0.8 | 70 | 0.00 |
| 9 | | Benzaldehyde | 40.000 | 35.716 | 10.7 | 62 | 0.00 |
| 10 | C | Phenol | 40.000 | 38.850 | 2.9 | 67 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 40.000 | 37.524 | 6.2 | 67 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 40.000 | 40.171 | -0.4 | 70 | 0.00 |
| 13 | C | 1,4-Dichlorobenzene | 40.000 | 41.163 | -2.9 | 72 | 0.00 |
| 14 | | 1,2-Dichlorobenzene | 40.000 | 40.035 | -0.1 | 70 | 0.00 |
| 15 | | Benzyl Alcohol | 40.000 | 38.708 | 3.2 | 67 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 40.000 | 33.001 | 17.5 | 58 | 0.00 |
| 17 | | 2-Methylphenol | 40.000 | 38.479 | 3.8 | 67 | 0.00 |
| 18 | | Hexachloroethane | 40.000 | 40.497 | -1.2 | 69 | 0.00 |
| 19 | P | n-Nitroso-di-n-propylamine | 40.000 | 35.298 | 11.8 | 63 | 0.00 |
| 20 | | 3+4-Methylphenols | 40.000 | 39.253 | 1.9 | 68 | 0.00 |
| 21 | I | Naphthalene-d8 | 20.000 | 20.000 | 0.0 | 67 | 0.00 |
| 22 | | Acetophenone | 40.000 | 40.243 | -0.6 | 67 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 80.000 | 97.772 | -22.2 | 76 | 0.00 |
| 24 | | Nitrobenzene | 40.000 | 45.653 | -14.1 | 71 | 0.00 |
| 25 | | Isophorone | 40.000 | 37.814 | 5.5 | 63 | 0.00 |
| 26 | C | 2-Nitrophenol | 40.000 | 49.968 | -24.9# | 88 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 40.000 | 40.956 | -2.4 | 67 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 40.000 | 38.448 | 3.9 | 64 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 40.000 | 42.802 | -7.0 | 69 | 0.00 |
| 30 | | 1,2,4-Trichlorobenzene | 40.000 | 42.568 | -6.4 | 70 | 0.00 |
| 31 | | Naphthalene | 40.000 | 41.026 | -2.6 | 68 | 0.00 |
| 32 | | Benzoic acid | 40.000 | 48.428 | -21.1 | 88 | -0.02 |
| 33 | | 4-Chloroaniline | 40.000 | 39.713 | 0.7 | 67 | 0.00 |
| 34 | C | Hexachlorobutadiene | 40.000 | 42.902 | -7.3 | 71 | 0.00 |
| 35 | | Caprolactam | 40.000 | 42.235 | -5.6 | 68 | -0.01 |
| 36 | C | 4-Chloro-3-methylphenol | 40.000 | 41.661 | -4.2 | 68 | 0.00 |
| 37 | | 2-Methylnaphthalene | 40.000 | 40.571 | -1.4 | 68 | 0.00 |
| 38 | | 1-Methylnaphthalene | 40.000 | 40.609 | -1.5 | 68 | 0.00 |
| 39 | I | Acenaphthene-d10 | 20.000 | 20.000 | 0.0 | 68 | 0.00 |
| 40 | | 1,2,4,5-Tetrachlorobenzene | 40.000 | 42.066 | -5.2 | 70 | 0.00 |
| 41 | P | Hexachlorocyclopentadiene | 40.000 | 44.067 | -10.2 | 69 | 0.00 |
| 42 | S | 2,4,6-Tribromophenol | 80.000 | 95.540 | -19.4 | 76 | 0.00 |
| 43 | C | 2,4,6-Trichlorophenol | 40.000 | 42.772 | -6.9 | 68 | 0.00 |
| 44 | | 2,4,5-Trichlorophenol | 40.000 | 44.739 | -11.8 | 73 | 0.00 |
| 45 | S | 2-Fluorobiphenyl | 80.000 | 82.849 | -3.6 | 71 | 0.00 |
| 46 | | 1,1'-Biphenyl | 40.000 | 40.994 | -2.5 | 69 | 0.00 |
| 47 | | 2-Chloronaphthalene | 40.000 | 41.199 | -3.0 | 69 | 0.00 |

Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 | 46.508 | -16.3 | 80 | 0.00 |
| 49 | | Acenaphthylene | 40.000 | 41.204 | -3.0 | 68 | -0.01 |
| 50 | | Dimethylphthalate | 40.000 | 40.693 | -1.7 | 68 | -0.01 |
| 51 | | 2,6-Dinitrotoluene | 40.000 | 46.842 | -17.1 | 79 | -0.01 |
| 52 | C | Acenaphthene | 40.000 | 42.527 | -6.3 | 71 | 0.00 |
| 53 | | 3-Nitroaniline | 40.000 | 46.137 | -15.3 | 77 | 0.00 |
| 54 | P | 2,4-Dinitrophenol | 40.000 | 59.722 | -49.3# | 116 | 0.00 |
| 55 | | Dibenzofuran | 40.000 | 40.671 | -1.7 | 68 | 0.00 |
| 56 | P | 4-Nitrophenol | 40.000 | 52.954 | -32.4# | 77 | 0.00 |
| 57 | | 2,4-Dinitrotoluene | 40.000 | 50.419 | -26.0# | 85 | 0.00 |
| 58 | | Fluorene | 40.000 | 41.003 | -2.5 | 70 | 0.00 |
| 59 | | 2,3,4,6-Tetrachlorophenol | 40.000 | 45.123 | -12.8 | 72 | 0.00 |
| 60 | | Diethylphthalate | 40.000 | 40.052 | -0.1 | 66 | -0.01 |
| 61 | | 4-Chlorophenyl-phenylether | 40.000 | 41.246 | -3.1 | 70 | 0.00 |
| 62 | | 4-Nitroaniline | 40.000 | 53.688 | -34.2# | 78 | -0.01 |
| 63 | | Azobenzene | 40.000 | 38.422 | 3.9 | 64 | 0.00 |
| 64 | I | Phenanthrene-d10 | 20.000 | 20.000 | 0.0 | 67 | 0.00 |
| 65 | | 4,6-Dinitro-2-methylphenol | 40.000 | 54.694 | -36.7# | 102 | 0.00 |
| 66 | c | n-Nitrosodiphenylamine | 40.000 | 40.832 | -2.1 | 68 | 0.00 |
| 67 | | 4-Bromophenyl-phenylether | 40.000 | 41.606 | -4.0 | 69 | 0.00 |
| 68 | | Hexachlorobenzene | 40.000 | 43.090 | -7.7 | 71 | 0.00 |
| 69 | | Atrazine | 40.000 | 34.313 | 14.2 | 58 | -0.01 |
| 70 | C | Pentachlorophenol | 40.000 | 47.434 | -18.6 | 74 | 0.00 |
| 71 | | Phenanthrene | 40.000 | 41.677 | -4.2 | 70 | 0.00 |
| 72 | | Anthracene | 40.000 | 41.580 | -3.9 | 70 | 0.00 |
| 73 | | Carbazole | 40.000 | 41.751 | -4.4 | 69 | 0.00 |
| 74 | | Di-n-butylphthalate | 40.000 | 39.592 | 1.0 | 66 | 0.00 |
| 75 | C | Fluoranthene | 40.000 | 41.655 | -4.1 | 70 | 0.00 |
| 76 | I | Chrysene-d12 | 20.000 | 20.000 | 0.0 | 69 | 0.00 |
| 77 | | Benzidine | 40.000 | 64.132 | -60.3# | 107 | 0.00 |
| 78 | | Pyrene | 40.000 | 42.032 | -5.1 | 70 | 0.00 |
| 79 | S | Terphenyl-d14 | 80.000 | 84.201 | -5.3 | 71 | -0.01 |
| 80 | | Butylbenzylphthalate | 40.000 | 41.333 | -3.3 | 67 | -0.01 |
| 81 | | Benzo(a)anthracene | 40.000 | 41.166 | -2.9 | 72 | 0.00 |
| 82 | | 3,3'-Dichlorobenzidine | 40.000 | 42.780 | -7.0 | 71 | -0.01 |
| 83 | | Chrysene | 40.000 | 40.001 | -0.0 | 66 | 0.00 |
| 84 | | Bis(2-ethylhexyl)phthalate | 40.000 | 40.771 | -1.9 | 66 | -0.01 |
| 85 | c | Di-n-octyl phthalate | 40.000 | 39.653 | 0.9 | 61 | -0.01 |
| 86 | I | Perylene-d12 | 20.000 | 20.000 | 0.0 | 67 | 0.00 |
| 87 | | Indeno(1,2,3-cd)pyrene | 40.000 | 47.319 | -18.3 | 76 | -0.01 |
| 88 | | Benzo(b)fluoranthene | 40.000 | 40.755 | -1.9 | 72 | -0.01 |
| 89 | | Benzo(k)fluoranthene | 40.000 | 37.066 | 7.3 | 60 | -0.01 |
| 90 | C | Benzo(a)pyrene | 40.000 | 40.761 | -1.9 | 67 | -0.01 |
| 91 | | Dibenzo(a,h)anthracene | 40.000 | 46.962 | -17.4 | 74 | -0.01 |
| 92 | | Benzo(g,h,i)perylene | 40.000 | 48.133 | -20.3 | 77 | -0.01 |

Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
BNA_F
**LabSampleId :**
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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

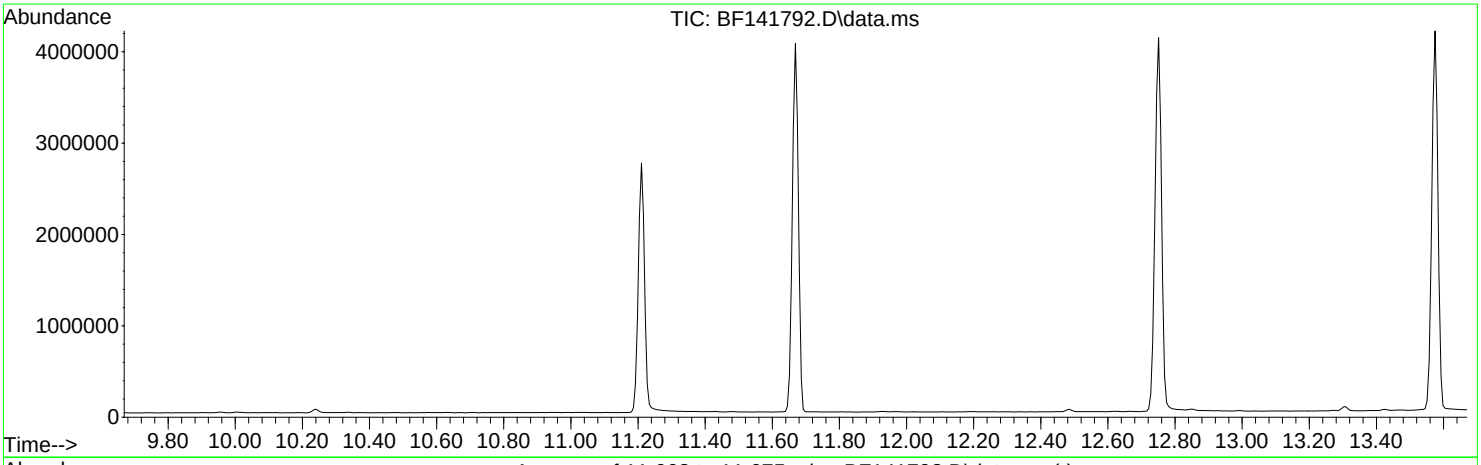
Sample Results: **BF141792.D**

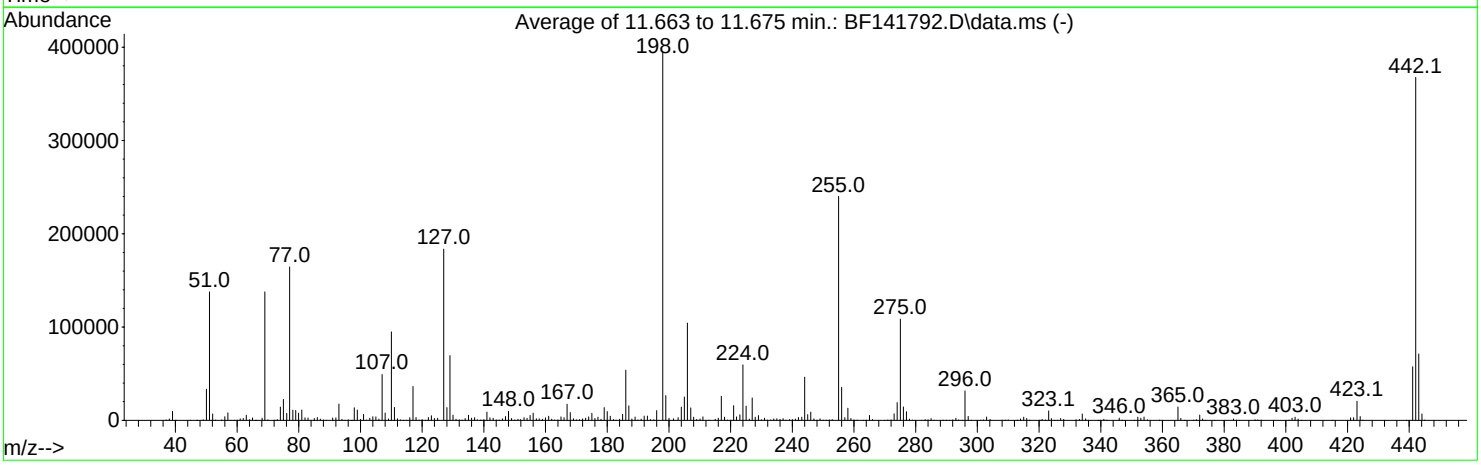
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141792.D
Acq On : 27 Feb 2025 14:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025




AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1620

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 34.9 | 137699 | PASS |
| 68 | 69 | 0.00 | 2 | 1.7 | 2348 | PASS |
| 69 | 198 | 0.00 | 100 | 34.9 | 137773 | PASS |
| 70 | 69 | 0.00 | 2 | 0.4 | 593 | PASS |
| 127 | 198 | 10 | 80 | 46.5 | 183483 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 394304 | PASS |
| 199 | 198 | 5 | 9 | 6.7 | 26613 | PASS |
| 275 | 198 | 10 | 60 | 27.6 | 108637 | PASS |
| 365 | 198 | 1 | 100 | 3.7 | 14499 | PASS |
| 441 | 198 | 0.01 | 100 | 14.6 | 57517 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 367680 | PASS |
| 443 | 442 | 15 | 24 | 19.4 | 71267 | PASS |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 2/27/2025 | BNA_F | BF141792.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 938485 | 13.575 |
| DDD | 9936 | 13.304 |
| DDE | 0 | 12.827 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 9936 | 948421 | 1.05 |
| | | |

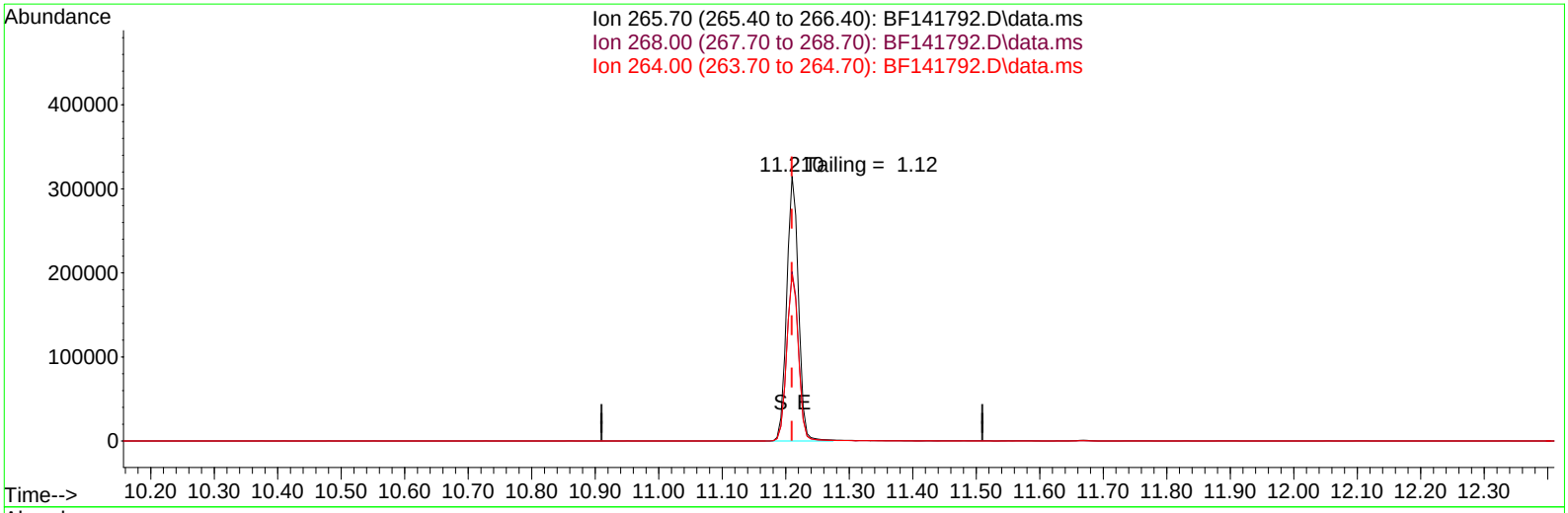
Instrument :
BNA_F
ClientSampleId :
DFTPP

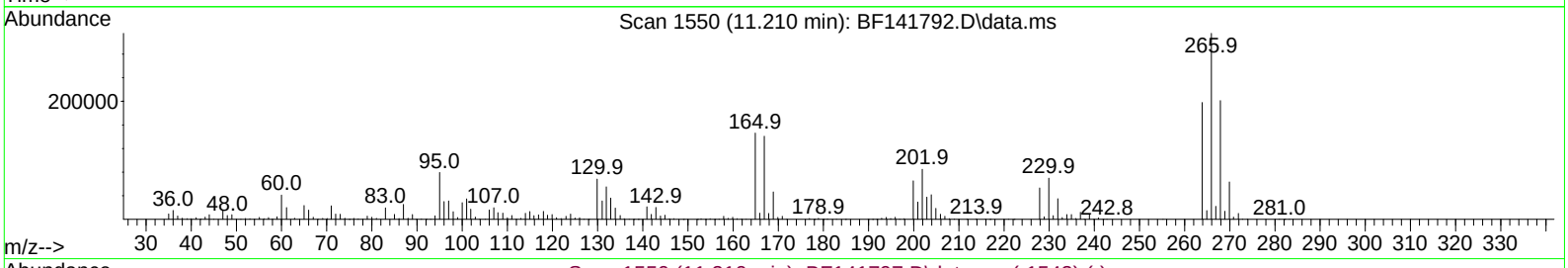
Sample Results: **BF141792.D**

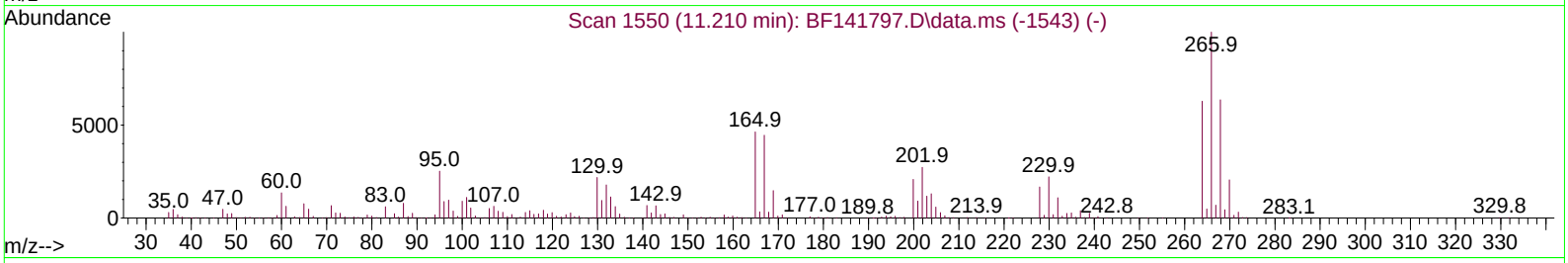
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141792.D
Acq On : 27 Feb 2025 14:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Feb 28 01:59:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration




TIC: BF141792.D\data.ms

**(70) Pentachlorophenol (C)**

**11.210min (-0.000) 55299.21 ng**

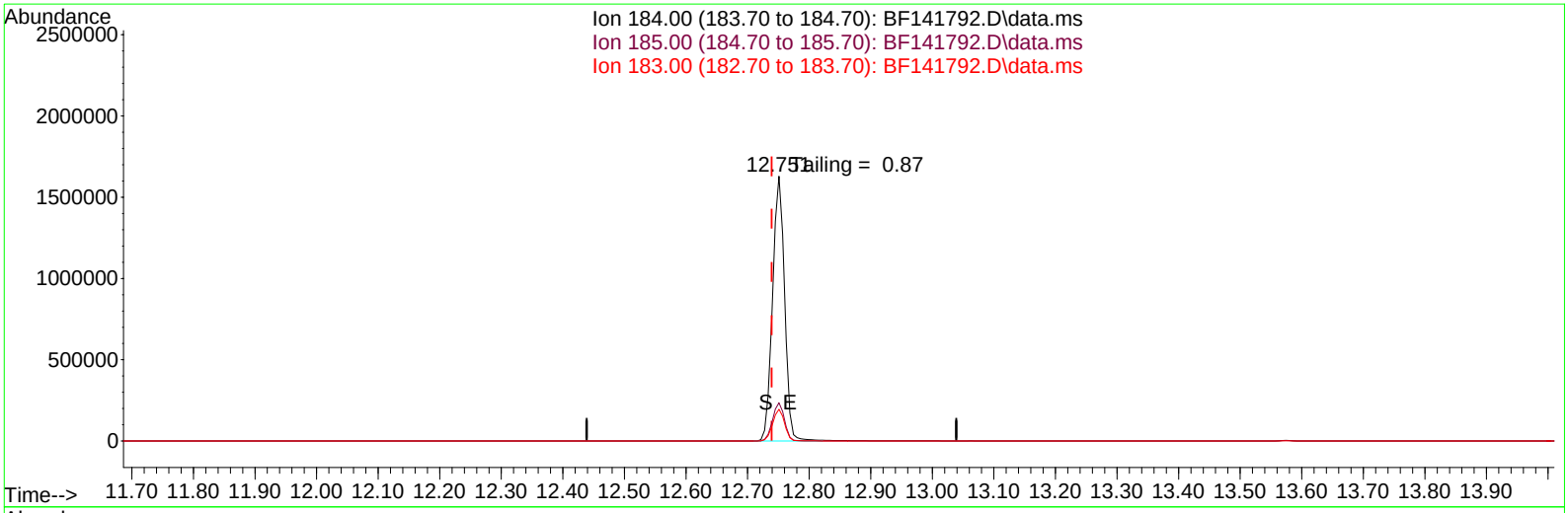
**response 409665**

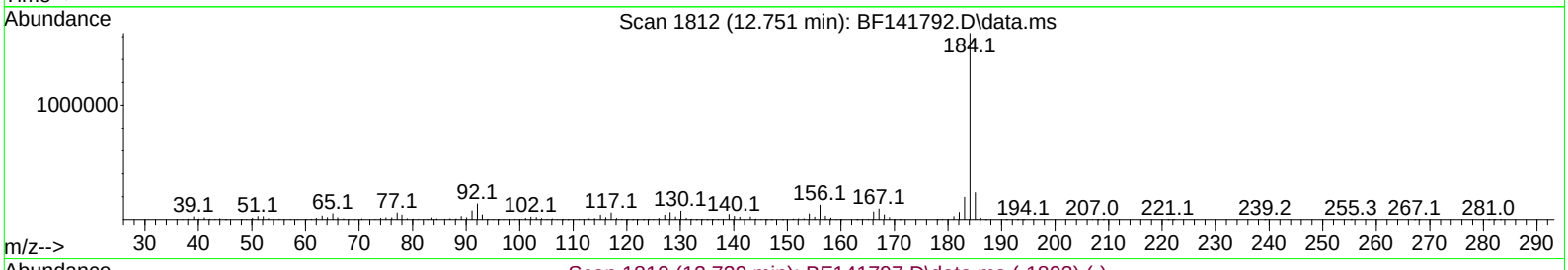
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 63.60 | 63.84 |
| 264.00 | 62.80 | 62.85 |
| 0.00 | 0.00 | 0.00 |

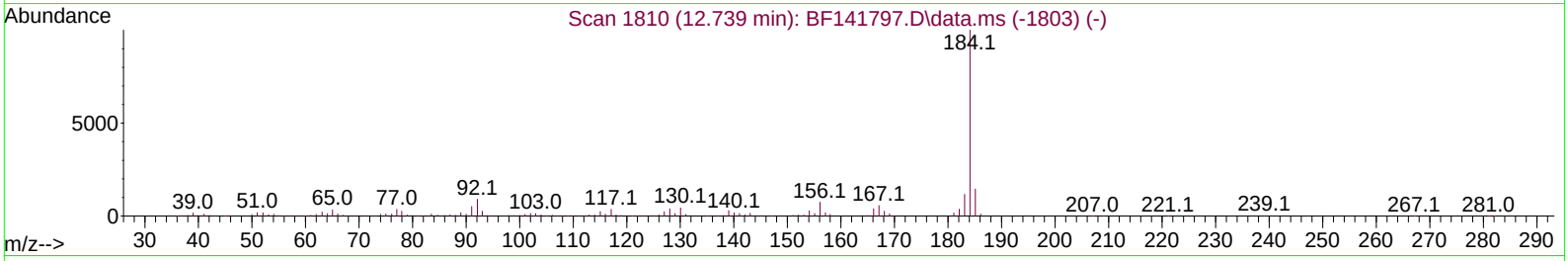
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141792.D
Acq On : 27 Feb 2025 14:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Feb 28 01:59:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration




TIC: BF141792.D\data.ms

**(77) Benzidine**

**12.751min (+ 0.012) 190021.56 ng**

**response 2231445**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 14.50 | 14.44 |
| 183.00 | 11.70 | 11.98 |
| 0.00 | 0.00 | 0.00 |

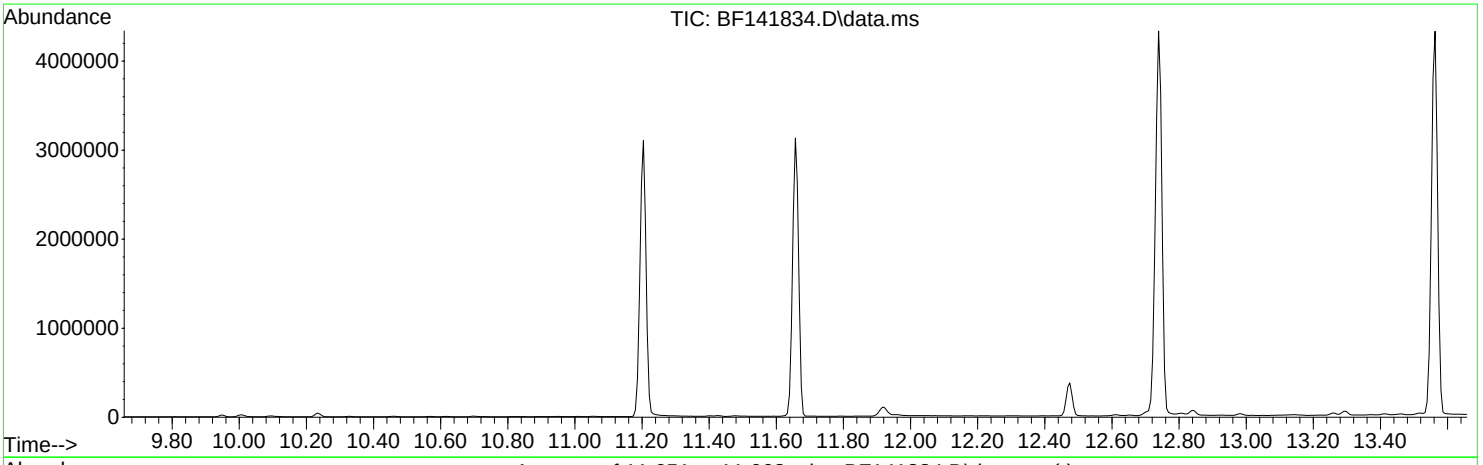
Sample Results: **BF141834.D**

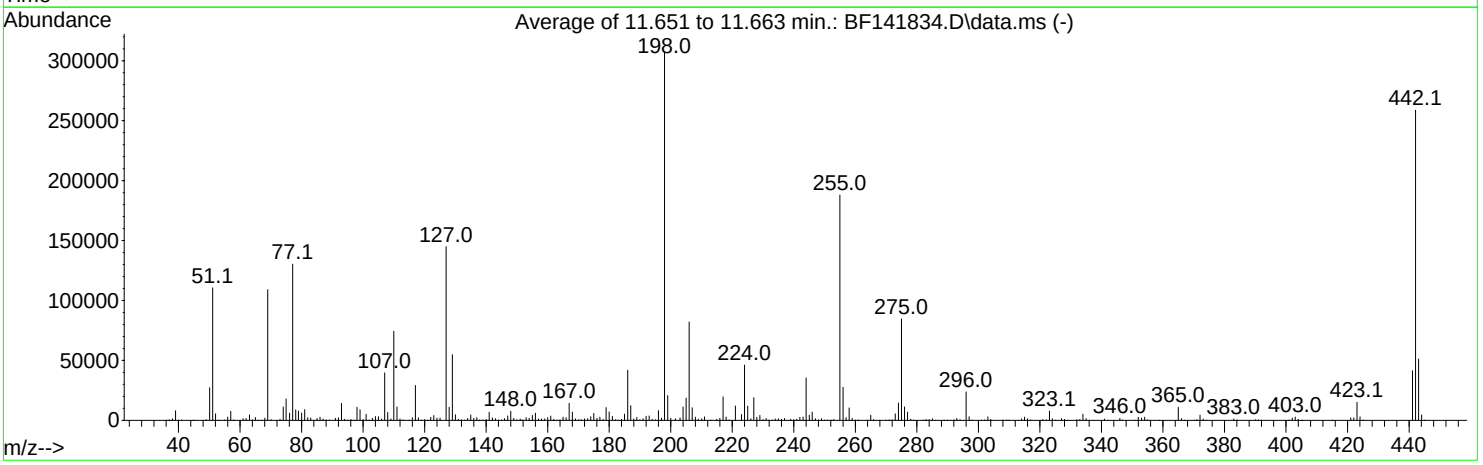
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141834.D
Acq On : 05 Mar 2025 09:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025




AutoFind: Scans 1625, 1626, 1627; Background Corrected with Scan 1618

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 36.0 | 110581 | PASS |
| 68 | 69 | 0.00 | 2 | 1.8 | 1934 | PASS |
| 69 | 198 | 0.00 | 100 | 35.5 | 109001 | PASS |
| 70 | 69 | 0.00 | 2 | 0.6 | 688 | PASS |
| 127 | 198 | 10 | 80 | 47.3 | 145005 | PASS |
| 197 | 198 | 0.00 | 2 | 0.6 | 1815 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 306880 | PASS |
| 199 | 198 | 5 | 9 | 6.8 | 20715 | PASS |
| 275 | 198 | 10 | 60 | 27.6 | 84643 | PASS |
| 365 | 198 | 1 | 100 | 3.6 | 10929 | PASS |
| 441 | 198 | 0.01 | 100 | 13.5 | 41328 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 258816 | PASS |
| 443 | 442 | 15 | 24 | 19.8 | 51307 | PASS |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 3/5/2025 | BNA_F | BF141834.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 1076236 | 13.563 |
| DDD | 16503 | 13.292 |
| DDE | 899 | 12.927 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 17402 | 1093638 | 1.59 |
| | | |

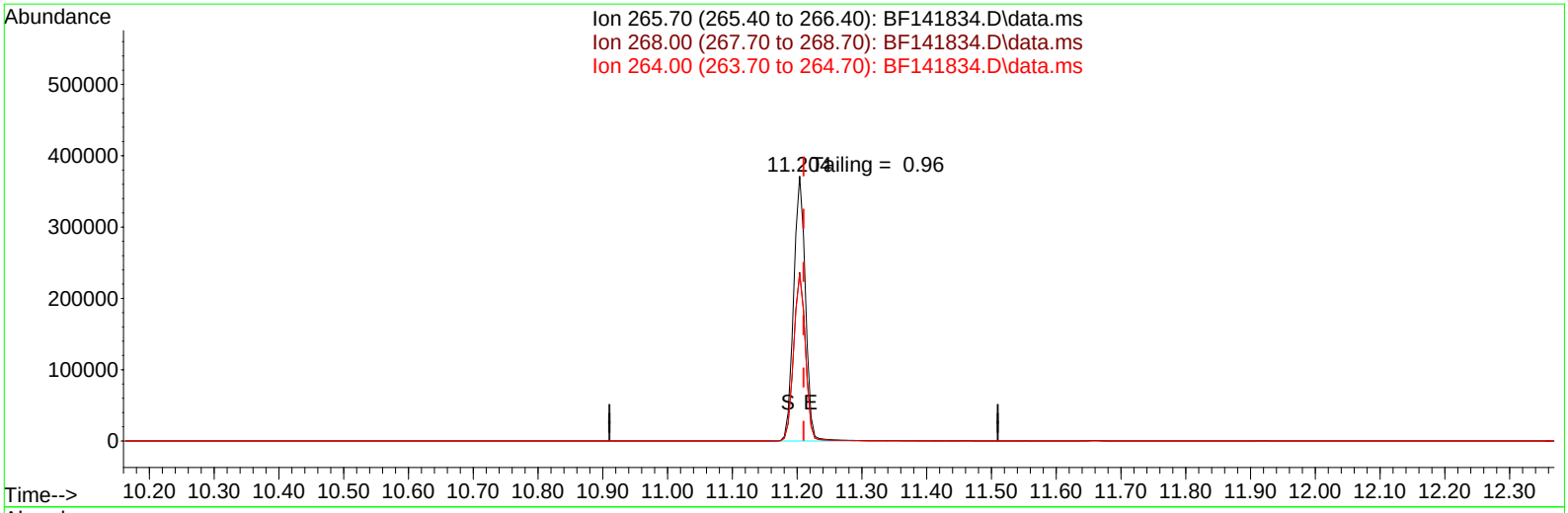
Instrument :
BNA_F
ClientSampleId :
DFTPP

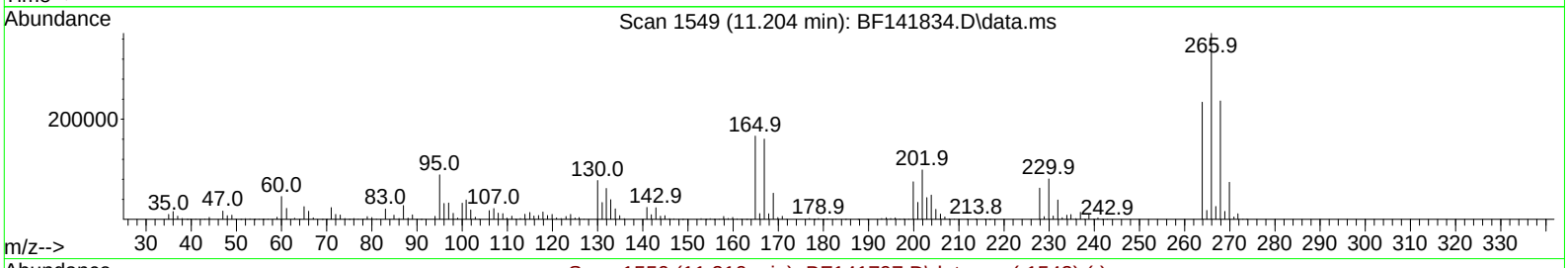
Sample Results: **BF141834.D**

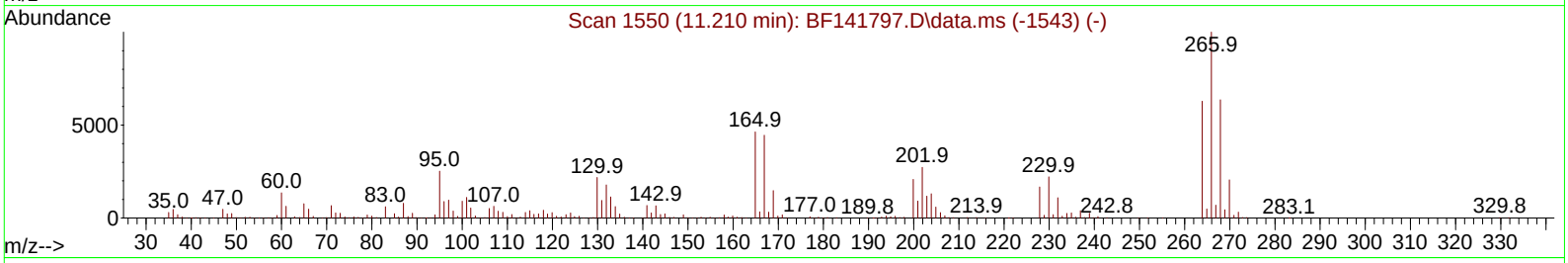
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141834.D
Acq On : 05 Mar 2025 09:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Mar 05 11:25:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration




TIC: BF141834.D\data.ms

**(70) Pentachlorophenol (C)**

**11.204min (-0.006) 20262.40 ng**

**response 472195**

| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 63.60 | 63.68 |
| 264.00 | 62.80 | 62.98 |
| 0.00 | 0.00 | 0.00 |

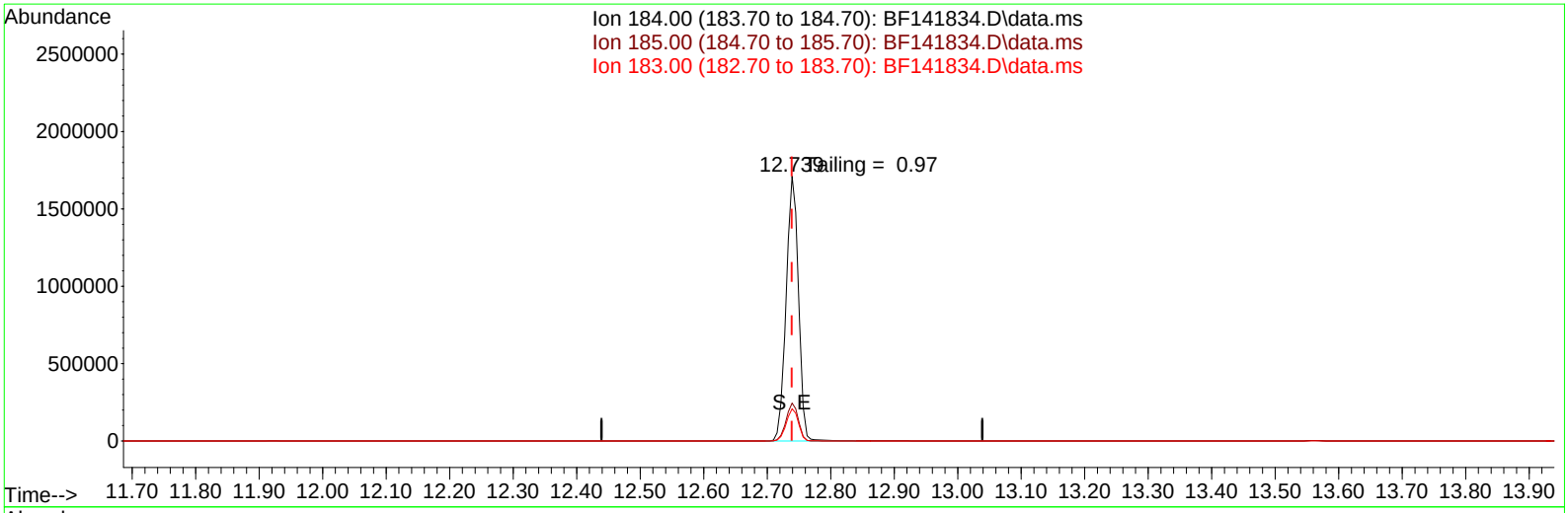
Quantitation Report (Qedit)

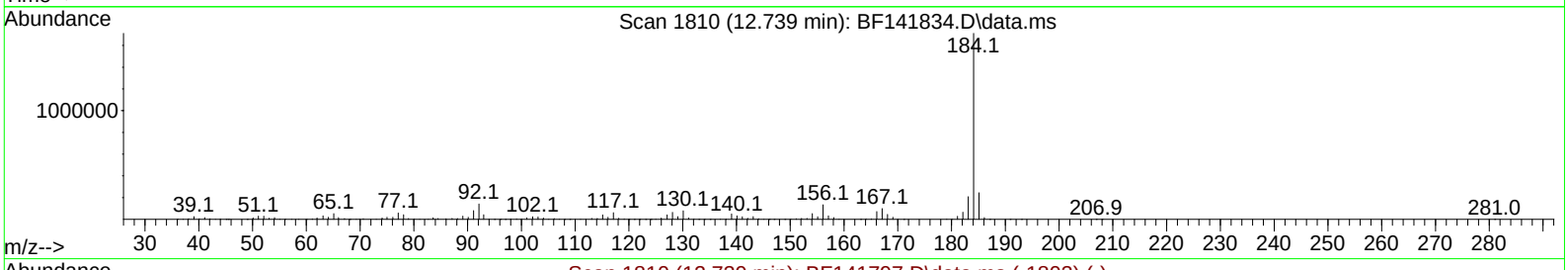
Sample Results: **BF141834.D**

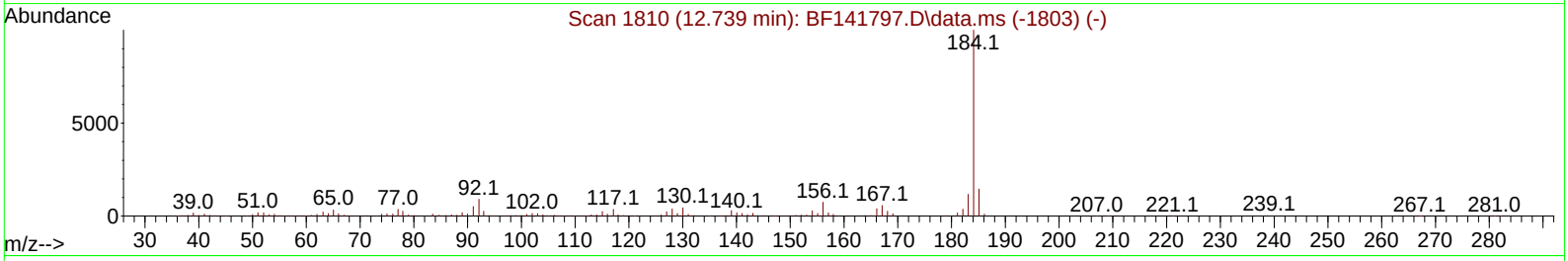
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141834.D
Acq On : 05 Mar 2025 09:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Mar 05 11:25:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration




TIC: BF141834.D\data.ms

**(77) Benzidine**

**12.739min (+ 0.000) 56821.39 ng**

**response 2322895**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 14.50 | 14.34 |
| 183.00 | 11.70 | 12.16 |
| 0.00 | 0.00 | 0.00 |

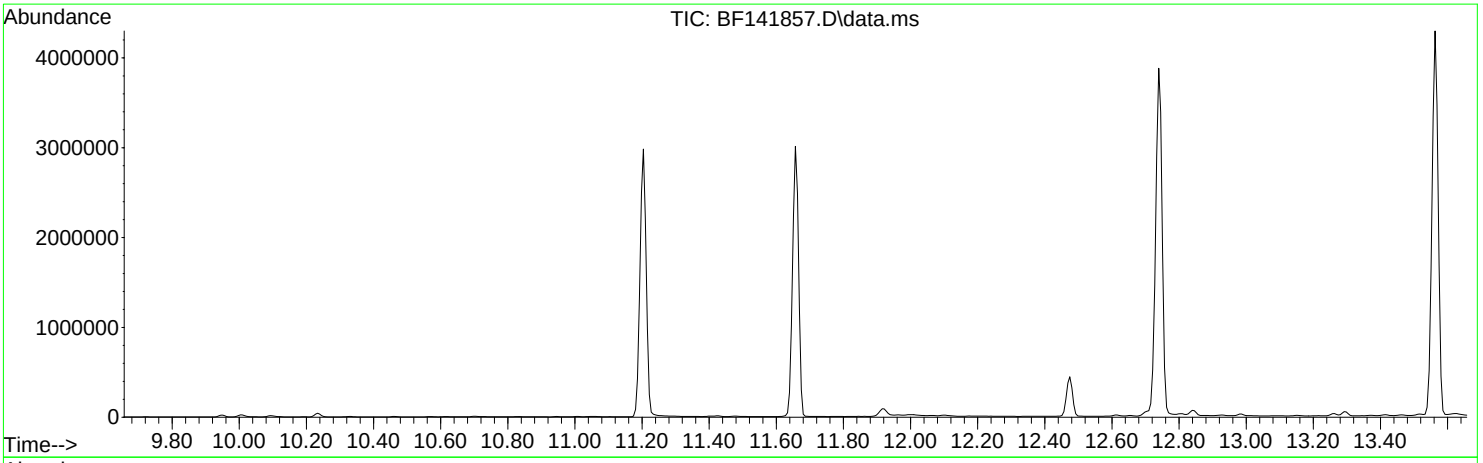
Sample Results: **BF141857.D**

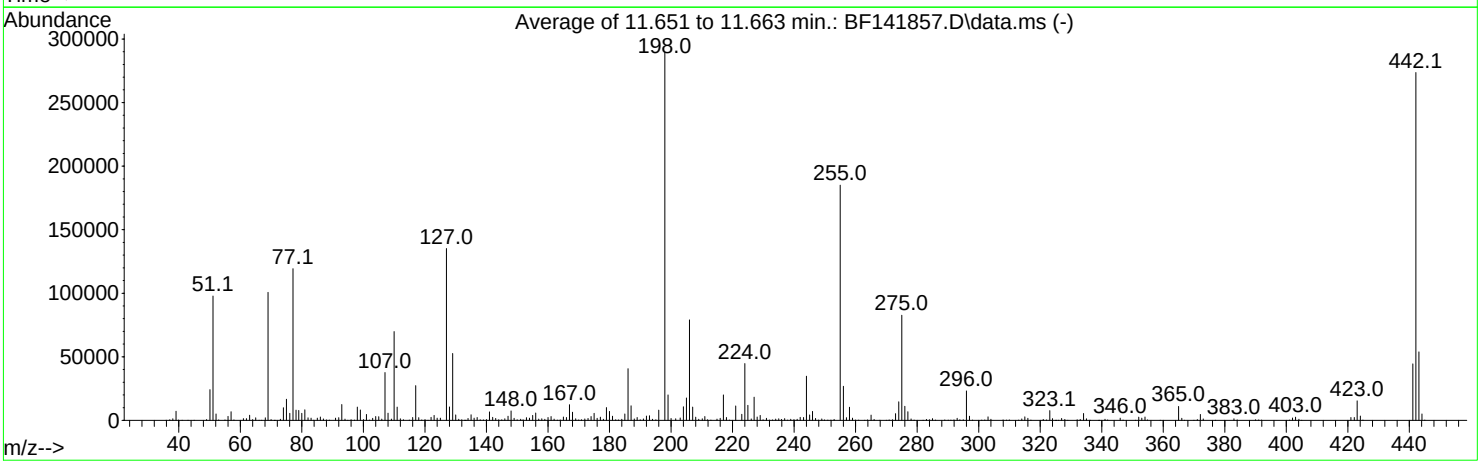
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141857.D
Acq On : 06 Mar 2025 08:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025




AutoFind: Scans 1625, 1626, 1627; Background Corrected with Scan 1618

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 51 | 198 | 10 | 80 | 33.8 | 97827 | PASS |
| 68 | 69 | 0.00 | 2 | 2.0 | 1989 | PASS |
| 69 | 198 | 0.00 | 100 | 34.8 | 100752 | PASS |
| 70 | 69 | 0.00 | 2 | 0.7 | 703 | PASS |
| 127 | 198 | 10 | 80 | 46.7 | 135227 | PASS |
| 197 | 198 | 0.00 | 2 | 0.0 | 0 | PASS |
| 198 | 198 | 100 | 100 | 100.0 | 289387 | PASS |
| 199 | 198 | 5 | 9 | 6.9 | 20075 | PASS |
| 275 | 198 | 10 | 60 | 28.6 | 82683 | PASS |
| 365 | 198 | 1 | 100 | 3.8 | 11013 | PASS |
| 441 | 198 | 0.01 | 100 | 15.3 | 44419 | PASS |
| 442 | 442 | 50 | 100 | 100.0 | 273621 | PASS |
| 443 | 442 | 15 | 24 | 19.7 | 53861 | PASS |

## DDT Breakdown

| Date | Instrument Name | DFTPP Data File |
|---|---|---|
| 3/6/2025 | BNA_F | BF141857.D |
| | | |
| | | |
| **Compound Name** | **Response** | **Retention Time** |
| | | |
| DDT | 1093424 | 13.563 |
| DDD | 17368 | 13.292 |
| DDE | 1071 | 12.927 |
| | | |
| | | |
| **SUM(DDD+DDE)** | **SUM(DDT+DDD+DDE)** | **% Breakdown Of DDT** |
| | | |
| 18439 | 1111863 | 1.66 |
| | | |

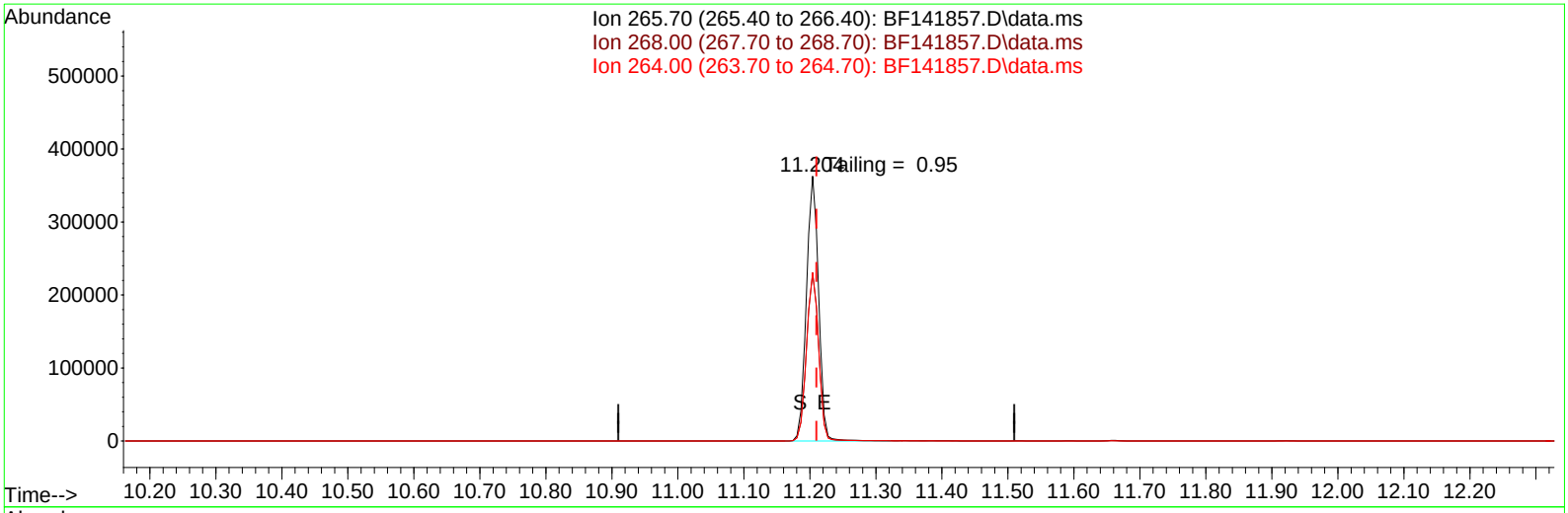
Instrument :
BNA_F
ClientSampleId :
DFTPP

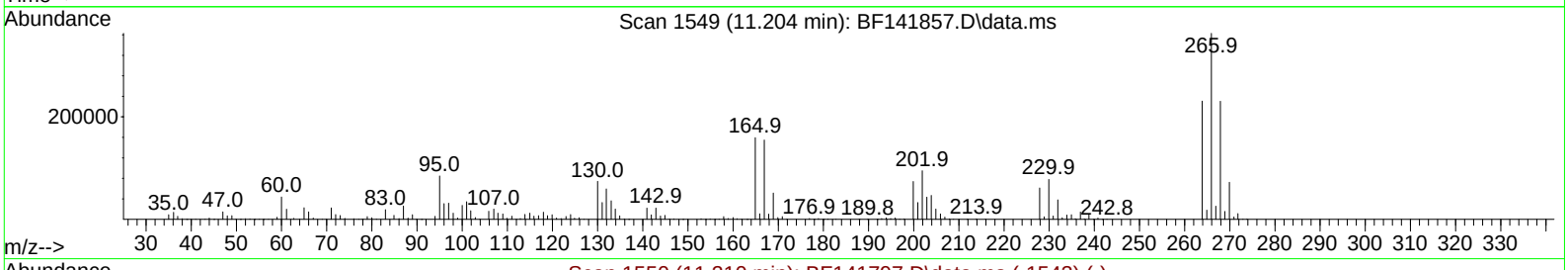
Sample Results: **BF141857.D**

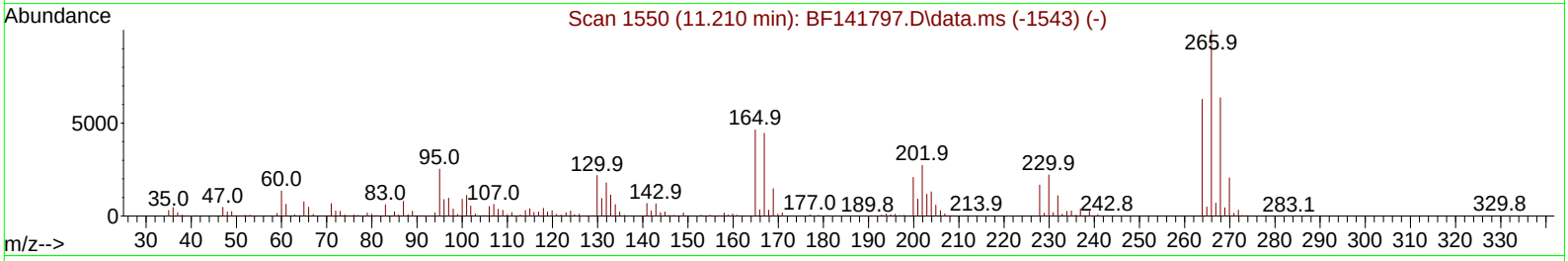
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141857.D
Acq On : 06 Mar 2025 08:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Mar 06 17:12:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration




TIC: BF141857.D\data.ms

**(70) Pentachlorophenol (C)**

**11.204min (-0.006) 17552.30 ng**

**response 465884**

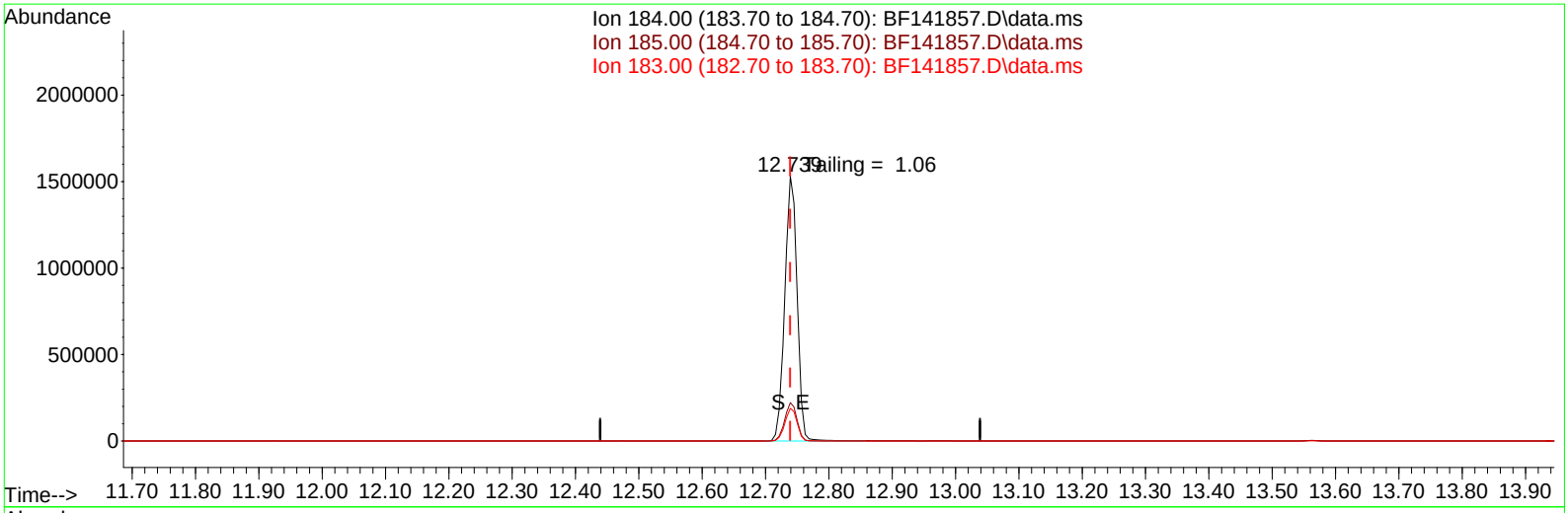
| Ion | Exp% | Act% |
|---|---|---|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 63.60 | 63.51 |
| 264.00 | 62.80 | 63.59 |
| 0.00 | 0.00 | 0.00 |

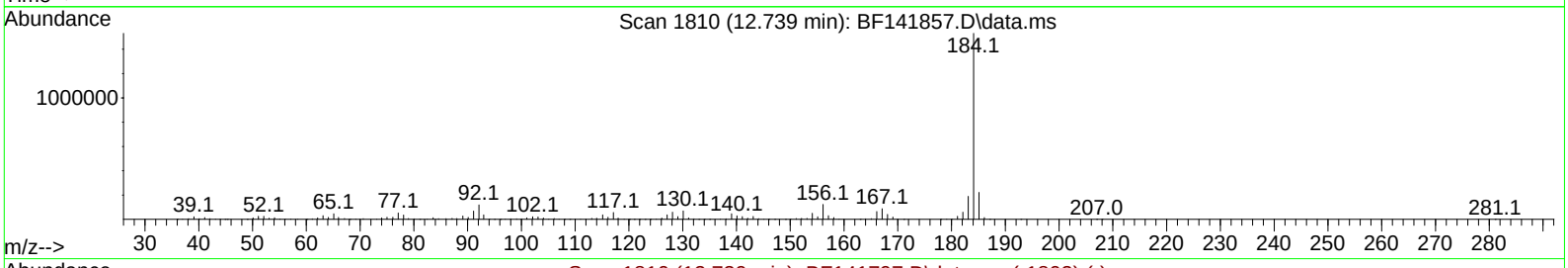
Sample Results: **BF141857.D**

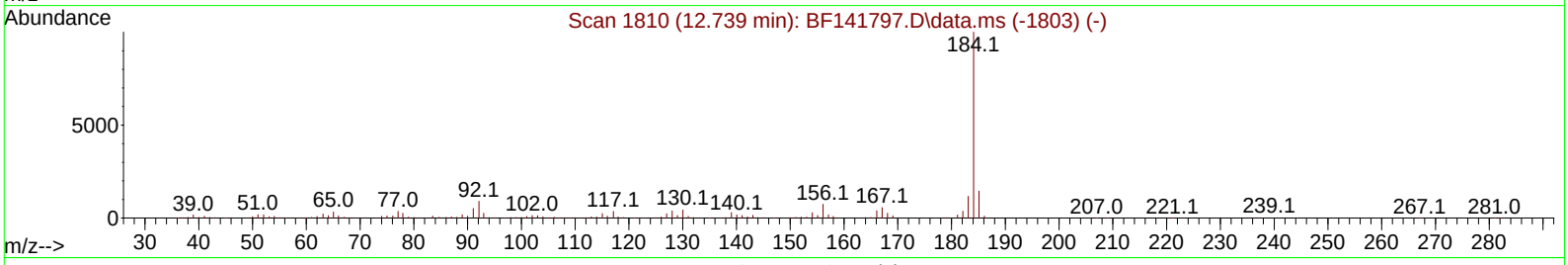
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141857.D
Acq On : 06 Mar 2025 08:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DFTPP

Quant Time: Mar 06 17:12:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration




TIC: BF141857.D\data.ms

**(77) Benzidine**

**12.739min (+ 0.000) 49273.09 ng**

**response 2084395**

| Ion | Exp% | Act% |
|---|---|---|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 14.50 | 14.51 |
| 183.00 | 11.70 | 12.37 |
| 0.00 | 0.00 | 0.00 |

Raw Data: **BF141859.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | |
| Client Sample ID: | PB166984BL | SDG No.: | Q1485 |
| Lab Sample ID: | PB166984BL | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141859.D | 1 | 03/05/25 09:40 | 03/06/25 10:22 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 330 | U | 180 | 330 | ug/Kg |
| 108-95-2 | Phenol | 170 | U | 82.9 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 170 | U | 83.7 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 170 | U | 83.5 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 170 | U | 80.6 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 170 | U | 90.9 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 170 | U | 86.9 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 330 | U | 79.8 | 330 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 80.0 | U | 40.3 | 80.0 | ug/Kg |
| 67-72-1 | Hexachloroethane | 170 | U | 83.0 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 170 | U | 90.8 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 170 | U | 84.6 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 170 | U | 94.5 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 170 | U | 93.2 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 170 | U | 85.8 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 170 | U | 75.5 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 170 | U | 82.6 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 170 | U | 82.6 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 170 | U | 83.3 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 330 | U | 86.8 | 330 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 170 | U | 77.5 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 170 | U | 82.5 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 330 | U | 160 | 330 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 170 | U | 71.4 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 170 | U | 74.0 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 170 | U | 87.4 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 170 | U | 83.3 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 170 | U | 95.0 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 170 | U | 81.7 | 170 | ug/Kg |

Raw Data: **BF141859.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | |
| Client Sample ID: | PB166984BL | SDG No.: | Q1485 |
| Lab Sample ID: | PB166984BL | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141859.D | 1 | 03/05/25 09:40 | 03/06/25 10:22 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 170 | U | 86.5 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 170 | U | 83.2 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 170 | U | 89.2 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 170 | U | 81.1 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 330 | U | 240 | 330 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 330 | U | 120 | 330 | ug/Kg |
| 132-64-9 | Dibenzofuran | 170 | U | 84.4 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 170 | U | 86.2 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 170 | U | 80.1 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 170 | U | 85.6 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 170 | U | 85.5 | 170 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 170 | U | 110 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 330 | U | 120 | 330 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 170 | U | 81.6 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 170 | U | 78.9 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 170 | U | 85.0 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 170 | U | 91.4 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 330 | U | 77.3 | 330 | ug/Kg |
| 85-01-8 | Phenanthrene | 170 | U | 84.0 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 170 | U | 84.4 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 170 | U | 80.3 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 170 | U | 84.3 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 170 | U | 81.7 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 170 | U | 83.0 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 170 | U | 96.8 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 330 | U | 98.6 | 330 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 170 | U | 80.7 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 170 | U | 79.5 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 170 | U | 91.0 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 330 | U | 110 | 330 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 170 | U | 81.1 | 170 | ug/Kg |

Raw Data: **BF141859.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | |
| Client Sample ID: | PB166984BL | SDG No.: | Q1485 |
| Lab Sample ID: | PB166984BL | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141859.D | 1 | 03/05/25 09:40 | 03/06/25 10:22 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 170 | U | 82.6 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 170 | U | 93.0 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 170 | U | 78.1 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 170 | U | 81.2 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 170 | U | 80.1 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 170 | U | 86.8 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 170 | U | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 170 | U | 74.7 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 126 | | 18 - 112 | 84% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 119 | | 15 - 107 | 79% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 105 | | 18 - 107 | 105% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 91.5 | | 20 - 109 | 91% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 167 | | 10 - 116 | 111% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 82.5 | | 10 - 105 | 83% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 219000 | 6.887 | | | |
| 1146-65-2 | Naphthalene-d8 | 872000 | 8.163 | | | |
| 15067-26-2 | Acenaphthene-d10 | 478000 | 9.916 | | | |
| 1517-22-2 | Phenanthrene-d10 | 848000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 692000 | 14.039 | | | |
| 1520-96-3 | Perylene-d12 | 552000 | 15.51 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 76.0 | J | | 2.24 | ug/Kg |

Raw Data: **BF141859.D**

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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | JPCL Engineering | | | Date Collected: | |
| Project: | NYSDOT Two Bronx River Parkway Bridges | | | Date Received: | |
| Client Sample ID: | PB166984BL | | | SDG No.: | Q1485 |
| Lab Sample ID: | PB166984BL | | | Matrix: | SOIL |
| Analytical Method: | SW8270 | | | % Solid: | 100 |
| Sample Wt/Vol: | 30.01 | Units: | g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | | | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | | | Decanted : N | Level : | LOW |
| Injection Volume : | | | GPC Factor : 1.0 | GPC Cleanup : N | PH : |
| Prep Method : | SW3541 | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141859.D | 1 | 03/05/25 09:40 | 03/06/25 10:22 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|

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_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BL

Quant Time: Mar 06 10:55:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

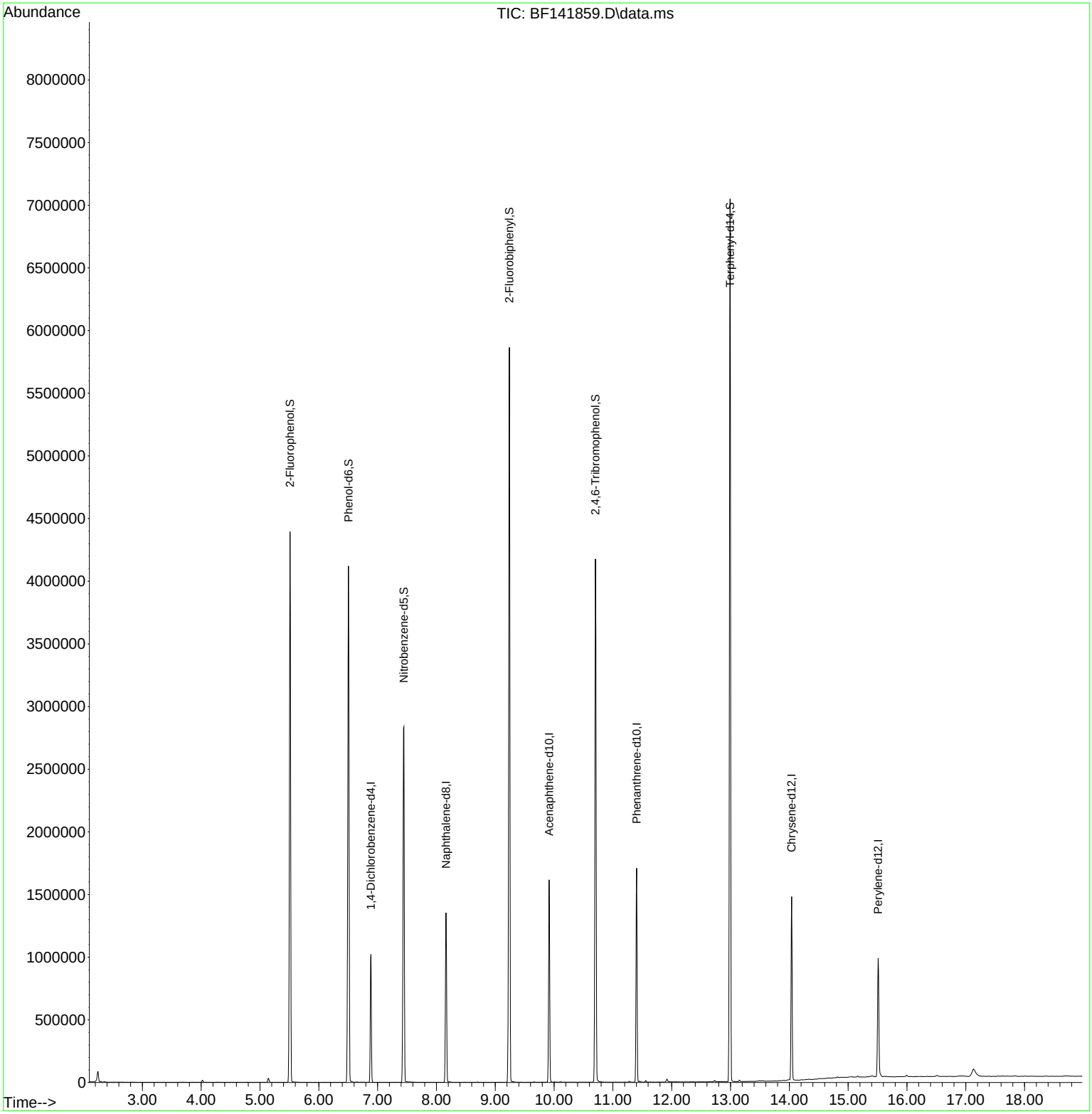
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.887 | 152 | 218862 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.163 | 136 | 871720 | 20.000 | ng | -0.01 |
| 39) Acenaphthene-d10 | 9.916 | 164 | 477596 | 20.000 | ng | -0.01 |
| 64) Phenanthrene-d10 | 11.404 | 188 | 848035 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.039 | 240 | 691946 | 20.000 | ng | -0.01 |
| 86) Perylene-d12 | 15.510 | 264 | 552165 | 20.000 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.510 | 112 | 1730529 | 126.273 | ng | 0.01 |
| 7) Phenol-d6 | 6.504 | 99 | 2123556 | 119.048 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.445 | 82 | 1433035 | 105.079 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.704 | 330 | 746687 | 166.531 | ng | -0.01 |
| 45) 2-Fluorobiphenyl | 9.239 | 172 | 2725247 | 91.496 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.992 | 244 | 3529158 | 82.519 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |

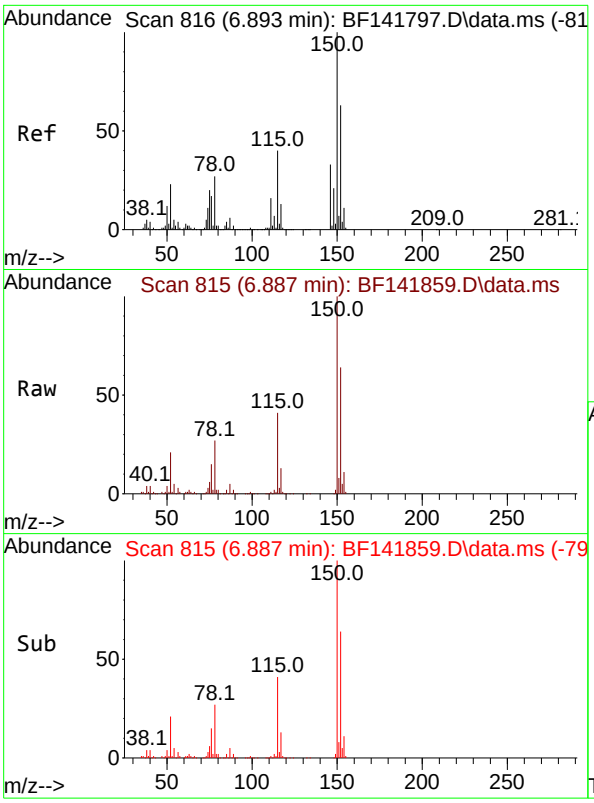
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BL

Quant Time: Mar 06 10:55:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



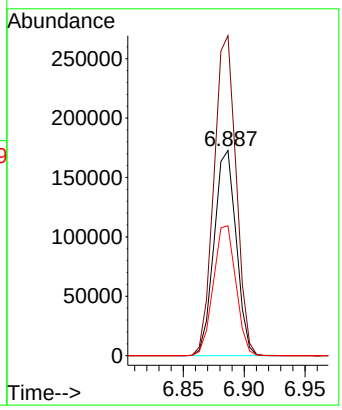


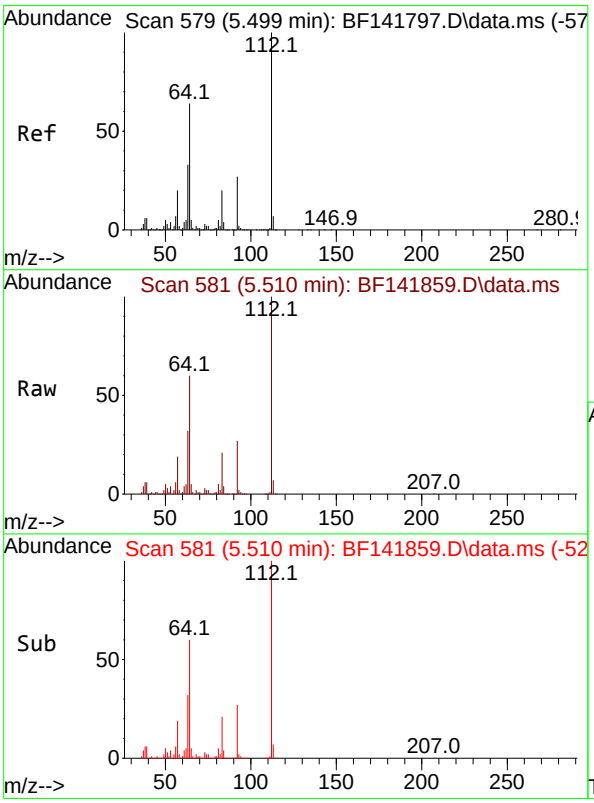

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BL

Tgt Ion:152 Resp: 218862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 155.9 | 127.5 | 191.3 |
| 115 | 63.3 | 51.4 | 77.2 |

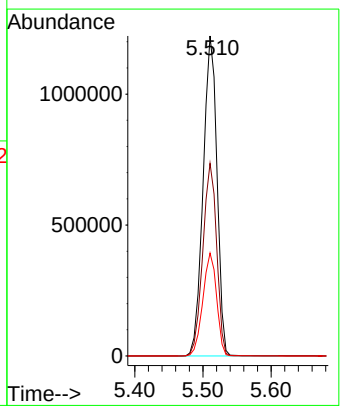


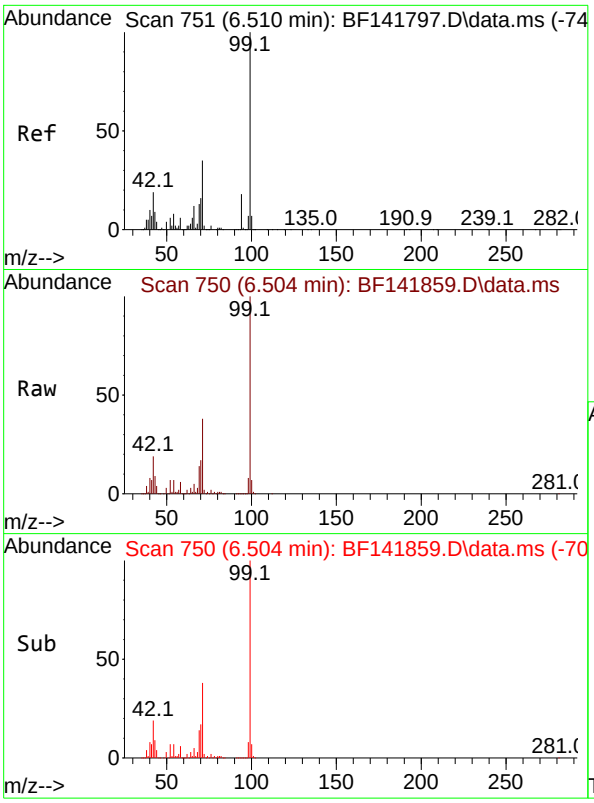




#5
2-Fluorophenol
Concen: 126.273 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:112 Resp: 1730529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 60.2 | 51.3 | 76.9 |
| 63 | 32.2 | 26.2 | 39.4 |



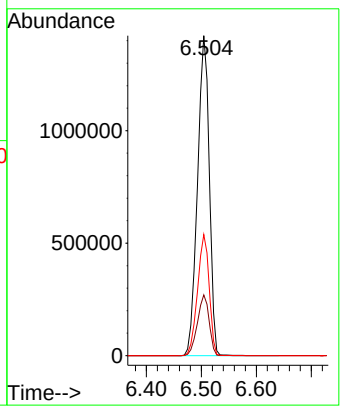


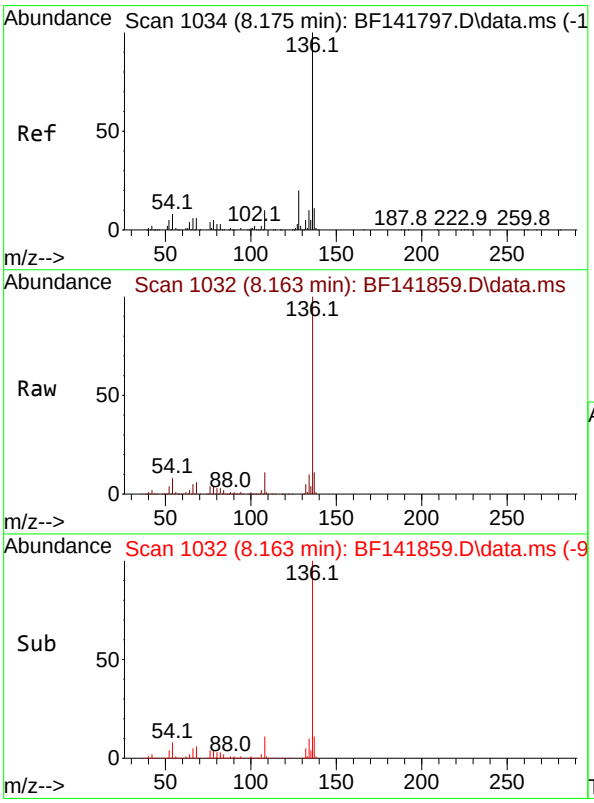

#7
Phenol-d6
Concen: 119.048 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BL

Tgt Ion: 99 Resp: 2123556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.0 | 15.2 | 22.8 |
| 71 | 37.8 | 28.2 | 42.2 |

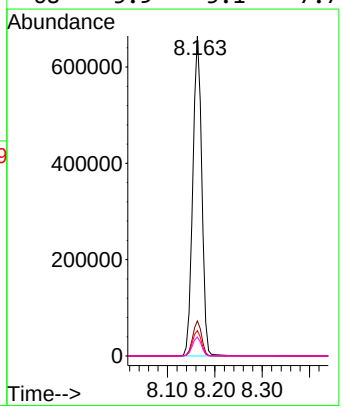


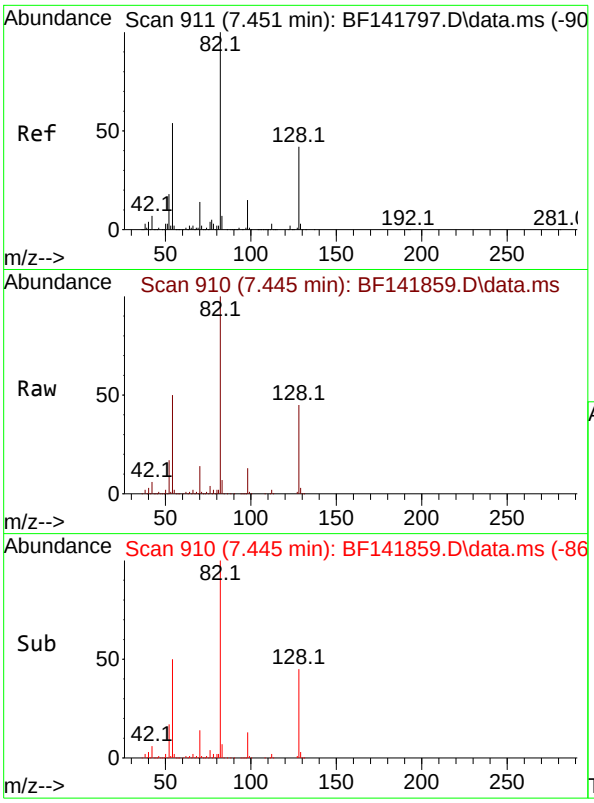




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:136 Resp: 871720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.9 | 8.9 | 13.3 |
| 54 | 7.9 | 6.9 | 10.3 |
| 68 | 5.9 | 5.1 | 7.7 |



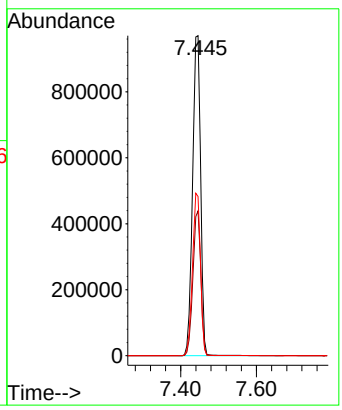


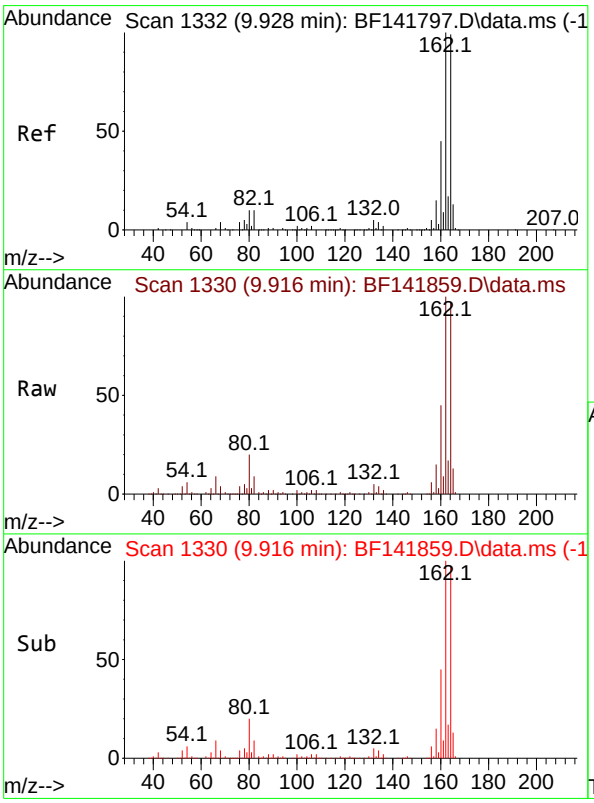

#23
Nitrobenzene-d5
Concen: 105.079 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BL

Tgt Ion: 82 Resp: 1433035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 45.3 | 33.5 | 50.3 |
| 54 | 49.8 | 42.7 | 64.1 |

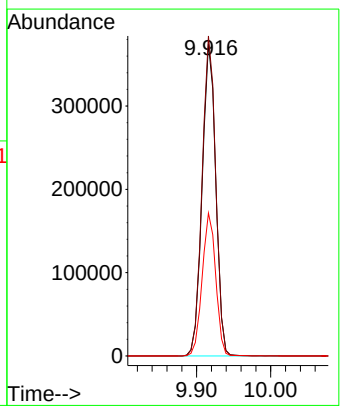


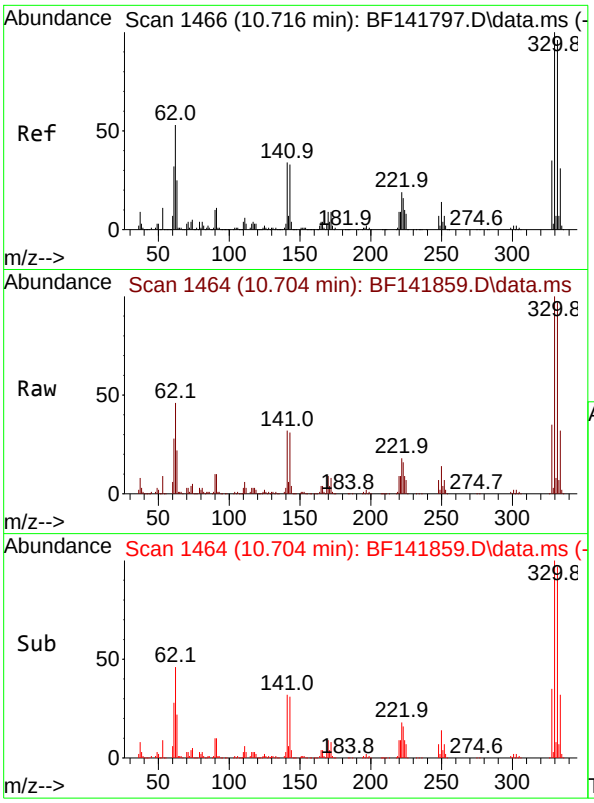




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:164 Resp: 477596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.6 | 80.6 | 120.8 |
| 160 | 45.8 | 36.3 | 54.5 |



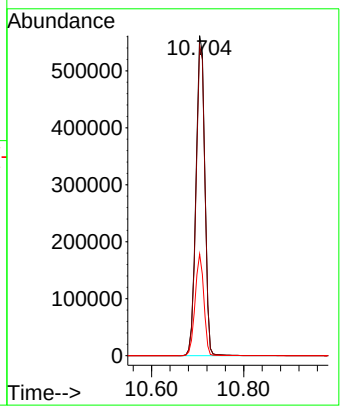


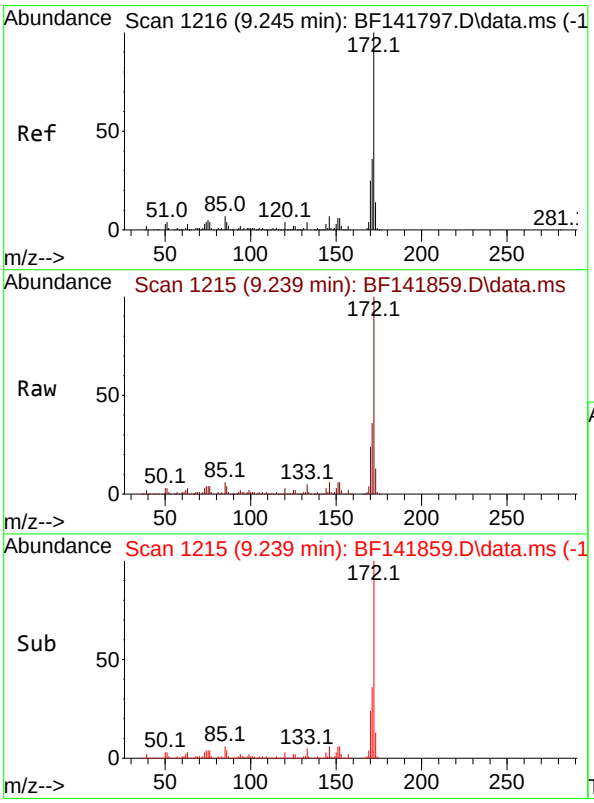

#42
2,4,6-Tribromophenol
Concen: 166.531 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BL

Tgt Ion:330 Resp: 746687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 97.1 | 76.6 | 115.0 |
| 141 | 31.4 | 29.0 | 43.4 |

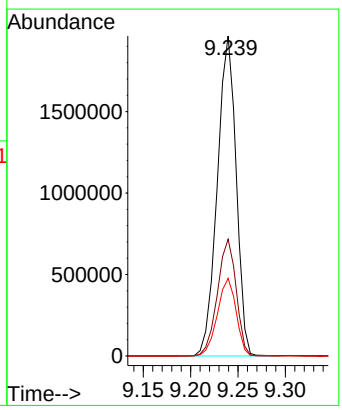


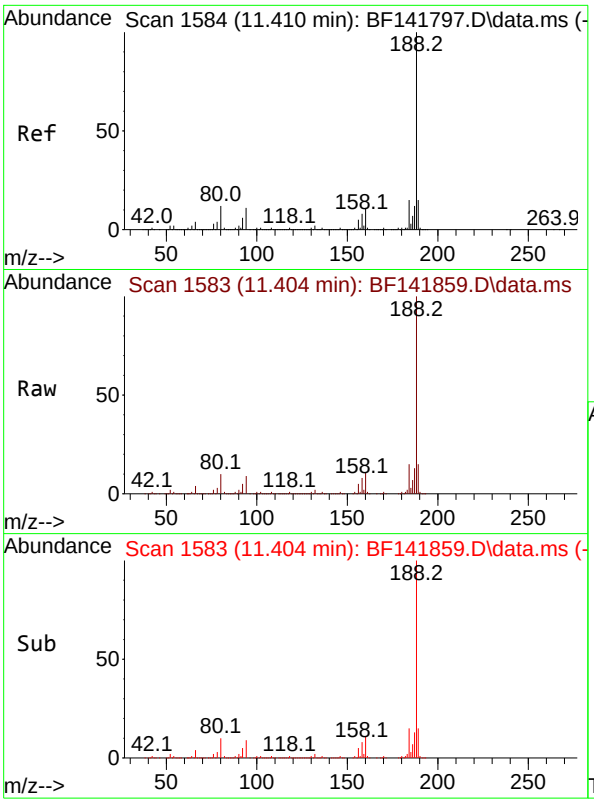




#45
2-Fluorobiphenyl
Concen: 91.496 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:172 Resp: 2725247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.5 | 29.2 | 43.8 |
| 170 | 24.2 | 19.7 | 29.5 |



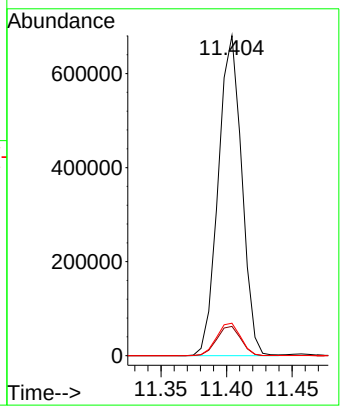


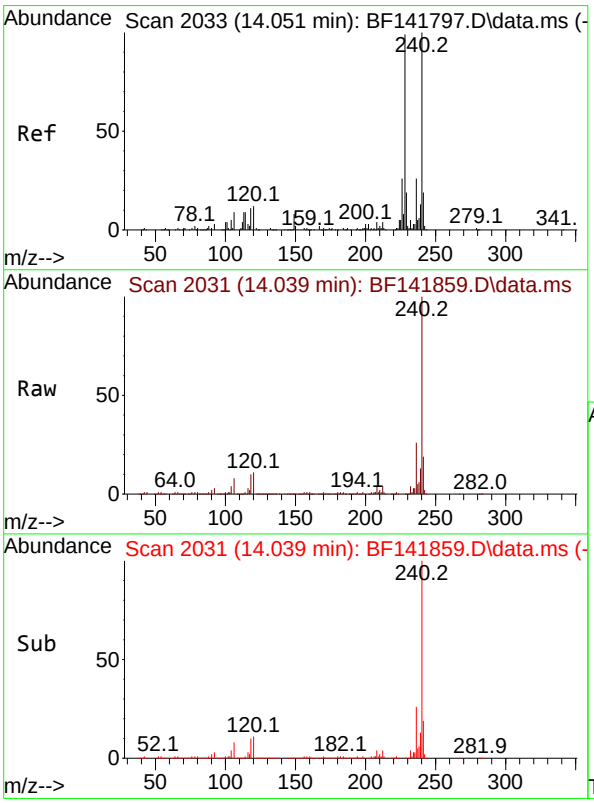

#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BL

Tgt Ion:188 Resp: 848035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.1 | 8.9 | 13.3 |
| 80 | 10.1 | 9.7 | 14.5 |

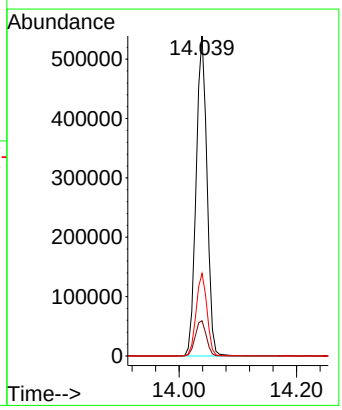


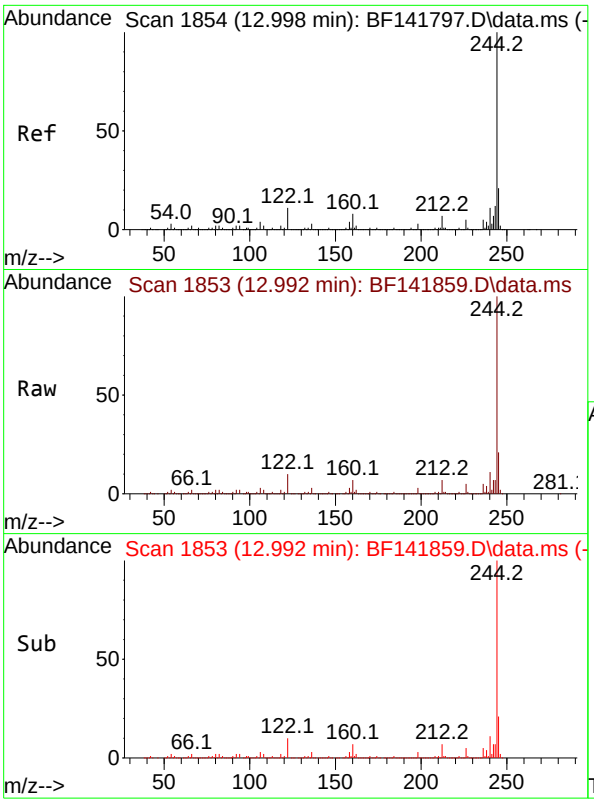




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:240 Resp: 691946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.0 | 9.7 | 14.5 |
| 236 | 25.8 | 21.0 | 31.4 |



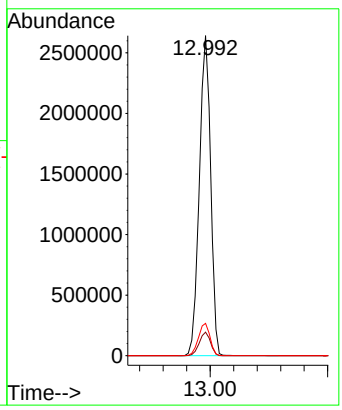


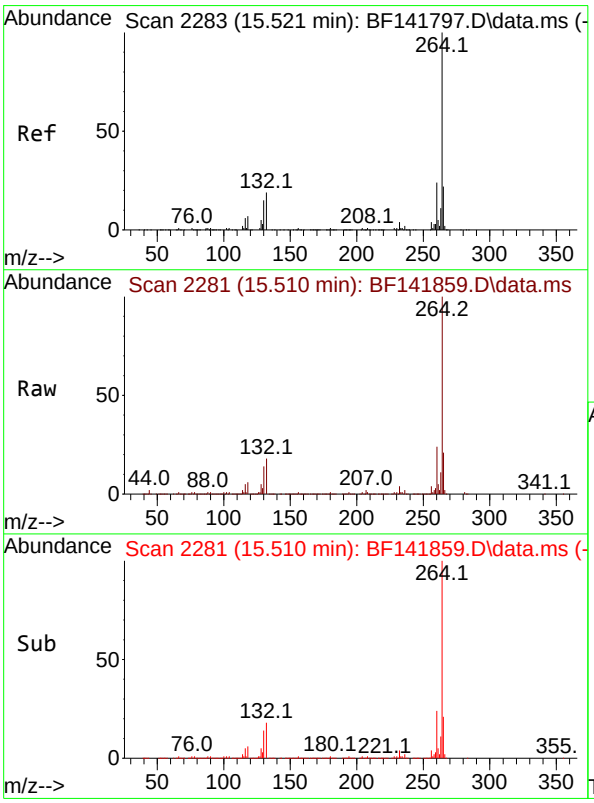

#79
Terphenyl-d14
Concen: 82.519 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BL

Tgt Ion:244 Resp: 3529158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.4 | 6.0 | 9.0 |
| 122 | 10.1 | 9.0 | 13.6 |

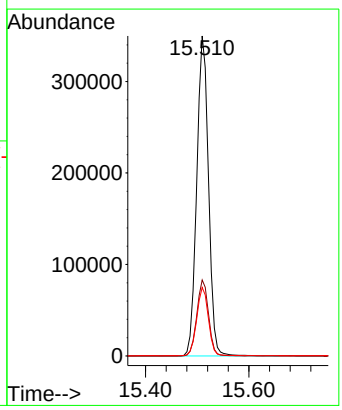



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:264 Resp: 552165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.7 | 18.9 | 28.3 |
| 265 | 21.4 | 17.4 | 26.0 |



LSC Area Percent Report

Sample Results: **BF141859.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141859.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.240 | 14 | 25 | 31 | rBV | 81610 | 149341 | 1.59% | 0.297% |
| 2 | 5.510 | 574 | 581 | 586 | rBV | 4392822 | 6178026 | 65.67% | 12.282% |
| 3 | 6.504 | 743 | 750 | 755 | rBV | 4119823 | 6120759 | 65.06% | 12.169% |
| 4 | 6.887 | 809 | 815 | 820 | rBV | 1021567 | 1312062 | 13.95% | 2.609% |
| 5 | 7.445 | 903 | 910 | 915 | rBV | 2836233 | 4167253 | 44.30% | 8.285% |
| 6 | 8.163 | 1026 | 1032 | 1040 | rBV | 1353027 | 1764969 | 18.76% | 3.509% |
| 7 | 9.239 | 1208 | 1215 | 1220 | rBV | 5863702 | 8102468 | 86.13% | 16.108% |
| 8 | 9.916 | 1324 | 1330 | 1341 | rBV | 1615098 | 2058136 | 21.88% | 4.092% |
| 9 | 10.704 | 1457 | 1464 | 1469 | rBV | 4174632 | 5509630 | 58.57% | 10.954% |
| 10 | 11.404 | 1577 | 1583 | 1588 | rBV | 1707669 | 2137813 | 22.72% | 4.250% |
| 11 | 12.992 | 1846 | 1853 | 1858 | rBV | 7045093 | 9407646 | 100.00% | 18.703% |
| 12 | 14.039 | 2025 | 2031 | 2041 | rVB | 1463852 | 1886443 | 20.05% | 3.750% |
| 13 | 15.510 | 2275 | 2281 | 2295 | rVB | 945753 | 1504913 | 16.00% | 2.992% |

Sum of corrected areas: 50299459

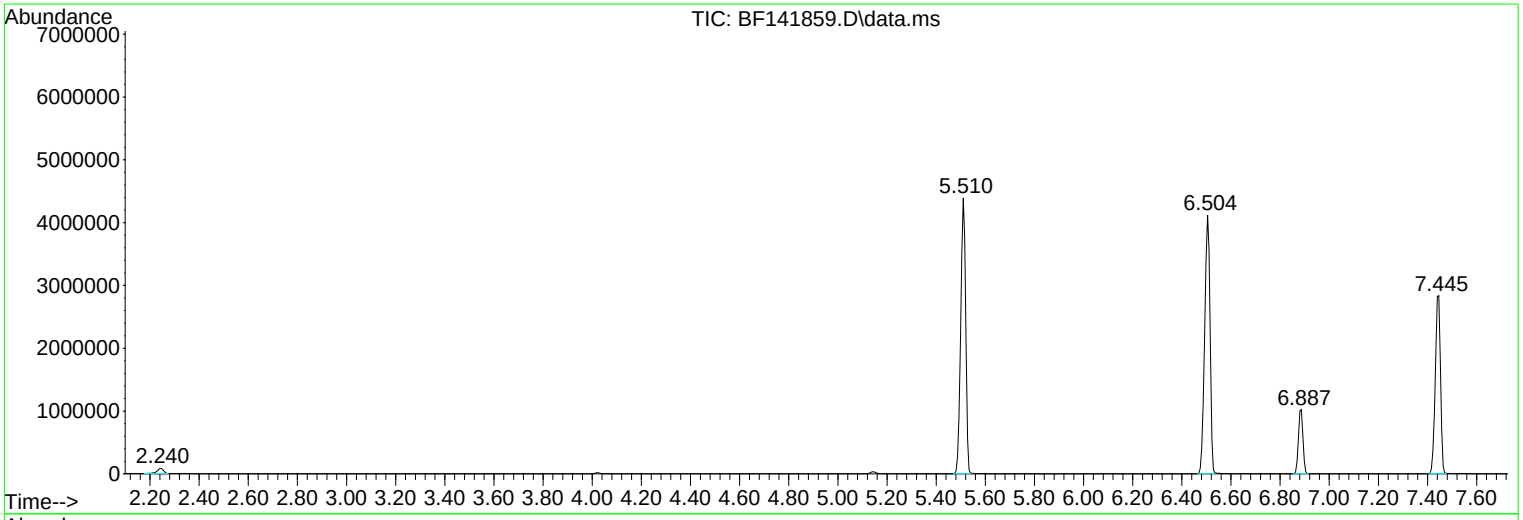
Sample Results: **BF141859.D**

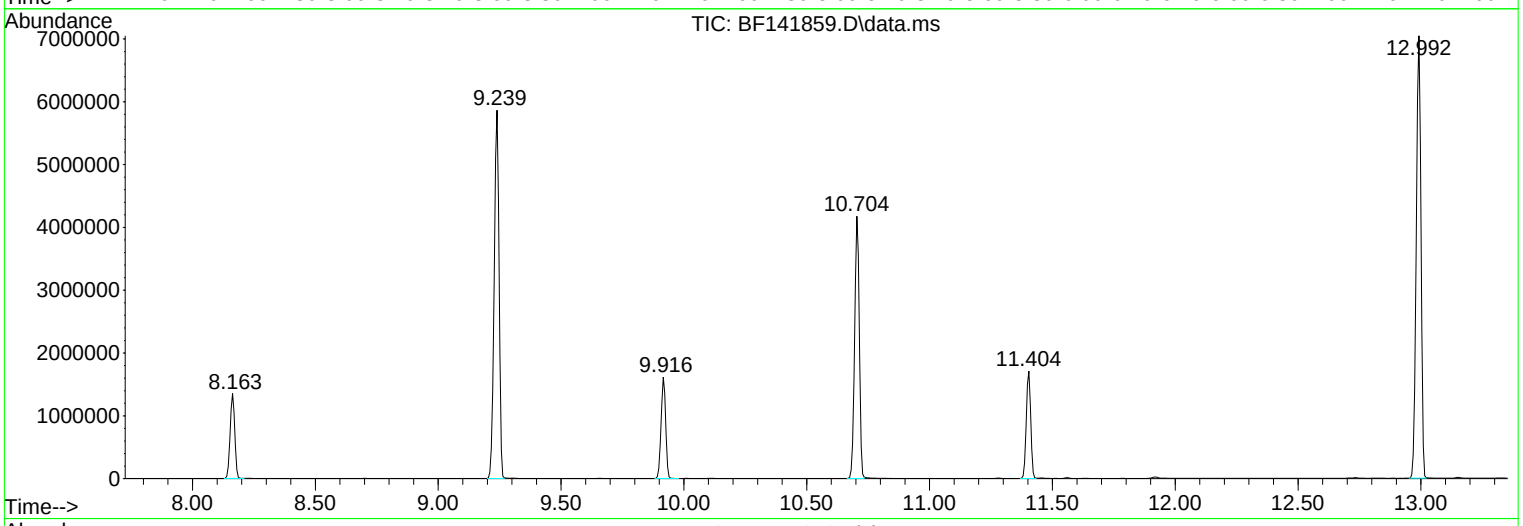
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

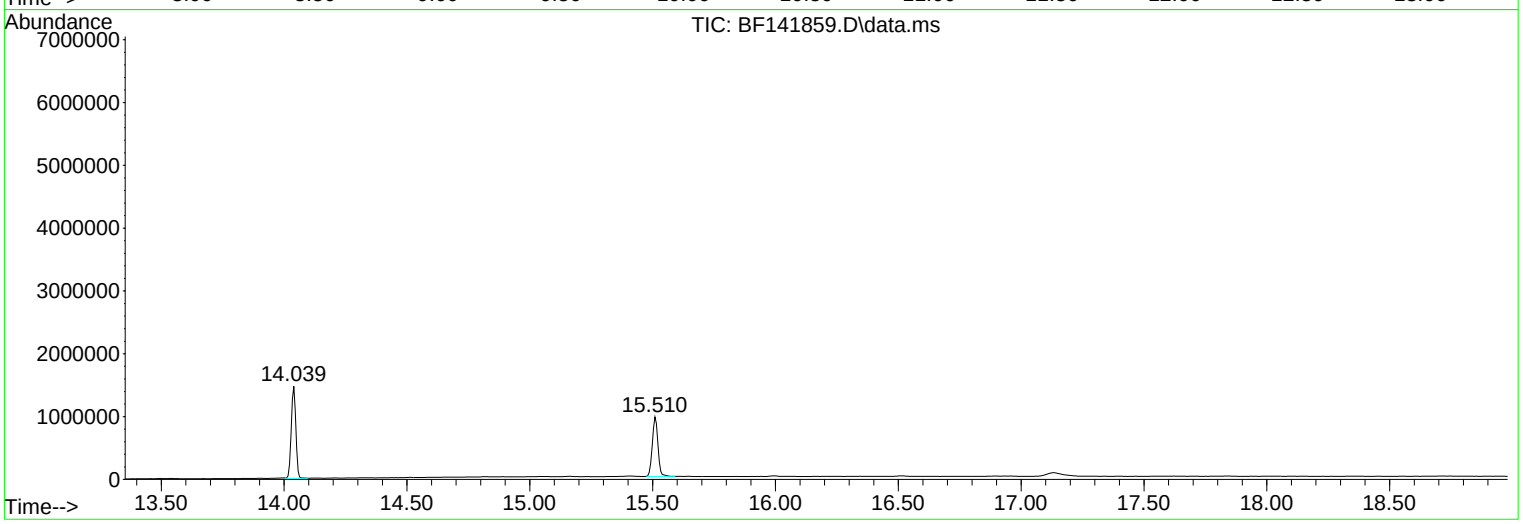
**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

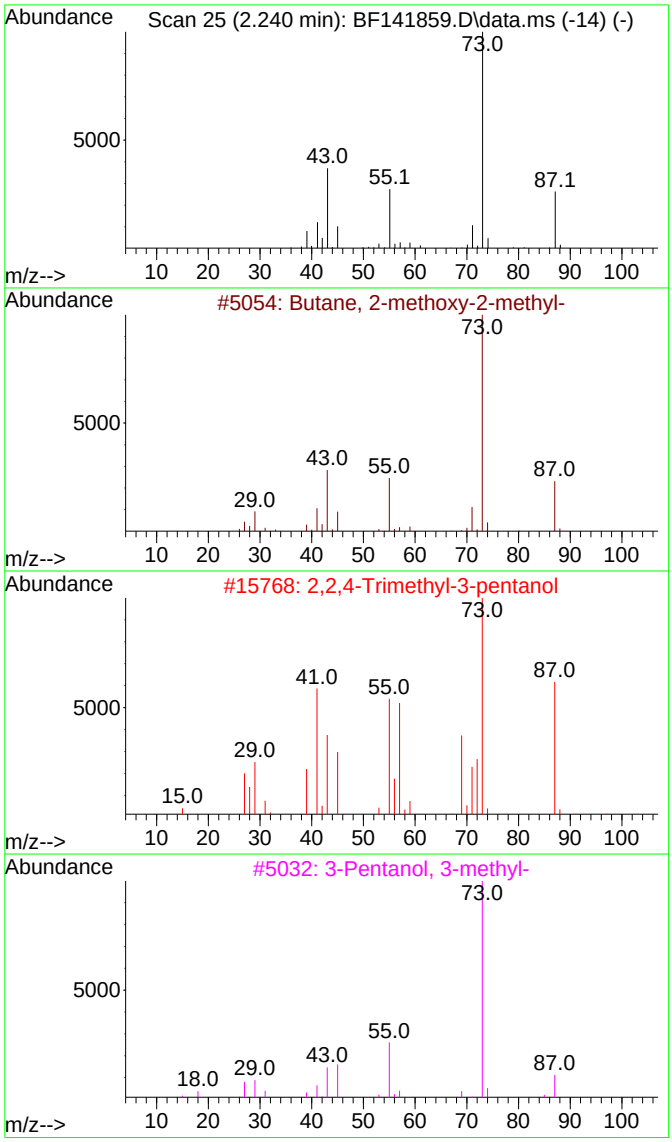
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

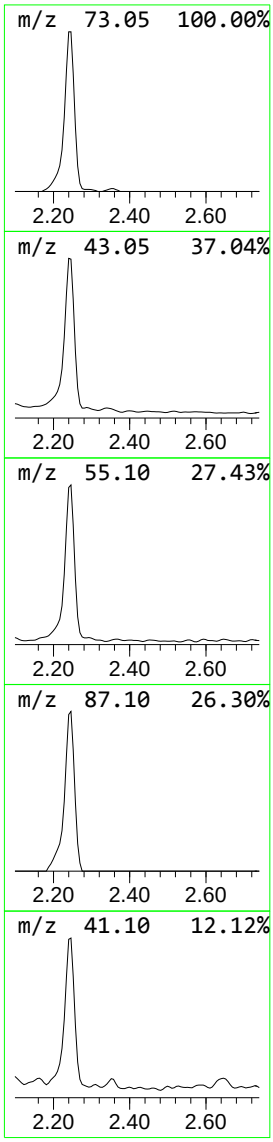
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.240 | 2.28 ng | 149341 | 1,4-Dichlorobenzene-d4 | 6.887 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 40 |
| 3 | 3-Pentanol, 3-methyl- | 102 | C6H14O | 000077-74-7 | 38 |
| 4 | Silane, ethyltrimethyl- | 102 | C5H14Si | 003439-38-1 | 36 |
| 5 | Octanal, 7-methoxy-3,7-dimethyl- | 186 | C11H22O2 | 003613-30-7 | 17 |



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane, 2-metho... | 2.240 | 2.3 | ng | 149341 | 1 | 6.887 | 1312060 | 20.0 |

Raw Data: **BF141860.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | |
| Client Sample ID: | PB166984BS | SDG No.: | Q1485 |
| Lab Sample ID: | PB166984BS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141860.D | 1 | 03/05/25 09:40 | 03/06/25 10:52 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 710 | | 180 | 330 | ug/Kg |
| 108-95-2 | Phenol | 1300 | | 82.8 | 170 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1300 | | 83.6 | 170 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1400 | | 83.4 | 170 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1300 | | 80.5 | 170 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1100 | | 90.8 | 170 | ug/Kg |
| 98-86-2 | Acetophenone | 1500 | | 86.8 | 170 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1300 | | 79.7 | 330 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1200 | | 40.3 | 79.9 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1400 | | 82.9 | 170 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1500 | | 90.7 | 170 | ug/Kg |
| 78-59-1 | Isophorone | 1400 | | 84.5 | 170 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1600 | | 94.4 | 170 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 1700 | | 93.1 | 170 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1300 | | 85.7 | 170 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1400 | | 75.4 | 170 | ug/Kg |
| 91-20-3 | Naphthalene | 1400 | | 82.5 | 170 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 400 | | 82.5 | 170 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1400 | | 83.2 | 170 | ug/Kg |
| 105-60-2 | Caprolactam | 1600 | | 86.7 | 330 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1400 | | 77.4 | 170 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1300 | | 82.4 | 170 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 4900 | E | 160 | 330 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1500 | | 71.3 | 170 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1500 | | 73.9 | 170 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1500 | | 87.3 | 170 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1400 | | 83.2 | 170 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1600 | | 94.9 | 170 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1400 | | 81.6 | 170 | ug/Kg |

Raw Data: **BF141860.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | |
| Client Sample ID: | PB166984BS | SDG No.: | Q1485 |
| Lab Sample ID: | PB166984BS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141860.D | 1 | 03/05/25 09:40 | 03/06/25 10:52 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1500 | | 86.4 | 170 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1600 | | 83.1 | 170 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 850 | | 89.1 | 170 | ug/Kg |
| 83-32-9 | Acenaphthene | 1600 | | 81.0 | 170 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 3700 | E | 240 | 330 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 3800 | E | 120 | 330 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1300 | | 84.3 | 170 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 1800 | | 86.1 | 170 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1400 | | 80.0 | 170 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1400 | | 85.5 | 170 | ug/Kg |
| 86-73-7 | Fluorene | 1400 | | 85.4 | 170 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1800 | | 110 | 170 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1900 | | 120 | 330 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1400 | | 81.5 | 170 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1400 | | 78.8 | 170 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1500 | | 84.9 | 170 | ug/Kg |
| 1912-24-9 | Atrazine | 2000 | | 91.3 | 170 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 3000 | E | 77.2 | 330 | ug/Kg |
| 85-01-8 | Phenanthrene | 1400 | | 83.9 | 170 | ug/Kg |
| 120-12-7 | Anthracene | 1400 | | 84.3 | 170 | ug/Kg |
| 86-74-8 | Carbazole | 1400 | | 80.2 | 170 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1400 | | 84.2 | 170 | ug/Kg |
| 206-44-0 | Fluoranthene | 1500 | | 81.6 | 170 | ug/Kg |
| 129-00-0 | Pyrene | 1400 | | 82.9 | 170 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1400 | | 96.7 | 170 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 720 | | 98.5 | 330 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1400 | | 80.6 | 170 | ug/Kg |
| 218-01-9 | Chrysene | 1400 | | 79.4 | 170 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1500 | | 90.9 | 170 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1400 | | 110 | 330 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1300 | | 81.0 | 170 | ug/Kg |

Raw Data: **BF141860.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | |
| Client Sample ID: | PB166984BS | SDG No.: | Q1485 |
| Lab Sample ID: | PB166984BS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 100 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141860.D | 1 | 03/05/25 09:40 | 03/06/25 10:52 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1300 | | 82.5 | 170 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1500 | | 92.9 | 170 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1600 | | 78.0 | 170 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1500 | | 81.1 | 170 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1500 | | 80.0 | 170 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1500 | | 86.7 | 170 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1200 | | 110 | 170 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1500 | | 74.6 | 170 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 122 | | 18 - 112 | 81% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 116 | | 15 - 107 | 77% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 105 | | 18 - 107 | 105% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 91.3 | | 20 - 109 | 91% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 166 | | 10 - 116 | 110% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 94.9 | | 10 - 105 | 95% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 223000 | 6.887 | | | |
| 1146-65-2 | Naphthalene-d8 | 860000 | 8.169 | | | |
| 15067-26-2 | Acenaphthene-d10 | 467000 | 9.922 | | | |
| 1517-22-2 | Phenanthrene-d10 | 802000 | 11.41 | | | |
| 1719-03-5 | Chrysene-d12 | 537000 | 14.045 | | | |
| 1520-96-3 | Perylene-d12 | 470000 | 15.515 | | | |

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_F\Data\BF030625\
Data File : BF141860.D
Acq On : 06 Mar 2025 10:52
Operator : RC/JU
Sample : PB166984BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Quant Time: Mar 06 15:49:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.887 | 152 | 222677 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 860348 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.922 | 164 | 467040 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.410 | 188 | 801941 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.045 | 240 | 537472 | 20.000 | ng | 0.00 |
| 86) Perylene-d12 | 15.515 | 264 | 470320 | 20.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.516 | 112 | 1701069 | 121.997 | ng | 0.02 |
| 7) Phenol-d6 | 6.510 | 99 | 2108392 | 116.173 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.445 | 82 | 1408232 | 104.625 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.710 | 330 | 725902 | 165.555 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.239 | 172 | 2659506 | 91.306 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.992 | 244 | 3153921 | 94.941 | ng | 0.00 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.763 | 88 | 226101 | 35.737 | ng | 97 |
| 3) Pyridine | 3.522 | 79 | 549854 | 34.929 | ng | 96 |
| 4) n-Nitrosodimethylamine | 3.469 | 42 | 285971 | 37.755 | ng | 99 |
| 6) Aniline | 6.551 | 93 | 522189 | 27.676 | ng | 99 |
| 8) 2-Chlorophenol | 6.669 | 128 | 628313 | 41.655 | ng | 96 |
| 9) Benzaldehyde | 6.434 | 77 | 225786 | 21.388 | ng | 99 |
| 10) Phenol | 6.522 | 94 | 741067 | 38.212 | ng | 97 |
| 11) bis(2-Chloroethyl)ether | 6.622 | 93 | 565937 | 38.283 | ng | 96 |
| 12) 1,3-Dichlorobenzene | 6.828 | 146 | 656353 | 40.633 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 6.904 | 146 | 663658 | 40.775 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 641692 | 42.221 | ng | 99 |
| 15) Benzyl Alcohol | 7.022 | 79 | 556826 | 38.390 | ng | 100 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157 | 45 | 756011 | 33.675 | ng | 96 |
| 17) 2-Methylphenol | 7.134 | 107 | 501492 | 40.279 | ng | 98 |
| 18) Hexachloroethane | 7.398 | 117 | 250476 | 41.116 | ng | 96 |
| 19) n-Nitroso-di-n-propyla... | 7.298 | 70 | 427099 | 35.799 | ng | 98 |
| 20) 3+4-Methylphenols | 7.281 | 107 | 621360 | 40.079 | ng | 94 |
| 22) Acetophenone | 7.292 | 105 | 924853 | 44.138 | ng | 99 |
| 24) Nitrobenzene | 7.463 | 77 | 656445 | 45.544 | ng | 100 |
| 25) Isophorone | 7.704 | 82 | 1189358 | 41.131 | ng | 99 |
| 26) 2-Nitrophenol | 7.781 | 139 | 317830 | 49.233 | ng | 98 |
| 27) 2,4-Dimethylphenol | 7.810 | 122 | 545219 | 51.293 | ng | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.910 | 93 | 709782 | 38.479 | ng | 99 |
| 29) 2,4-Dichlorophenol | 8.016 | 162 | 509337 | 41.536 | ng | 100 |
| 30) 1,2,4-Trichlorobenzene | 8.104 | 180 | 565708 | 42.101 | ng | 99 |
| 31) Naphthalene | 8.187 | 128 | 1798156 | 40.665 | ng | 99 |
| 32) Benzoic acid | 7.928 | 122 | 436083 | 48.969 | ng | 98 |
| 33) 4-Chloroaniline | 8.228 | 127 | 196072 | 12.093 | ng | 98 |
| 34) Hexachlorobutadiene | 8.304 | 225 | 363439 | 43.526 | ng | 99 |
| 35) Caprolactam | 8.598 | 113 | 181228m | 48.041 | ng | |
| 36) 4-Chloro-3-methylphenol | 8.710 | 107 | 555267 | 40.762 | ng | 97 |
| 37) 2-Methylnaphthalene | 8.881 | 142 | 1136178 | 39.174 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.981 | 142 | 1106172 | 39.748 | ng | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.045 | 216 | 621149 | 46.050 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.034 | 237 | 830196 | 147.481 | ng | 100 |
| 43) 2,4,6-Trichlorophenol | 9.151 | 196 | 381567 | 43.792 | ng | 99 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141860.D
Acq On : 06 Mar 2025 10:52
Operator : RC/JU
Sample : PB166984BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Quant Time: Mar 06 15:49:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

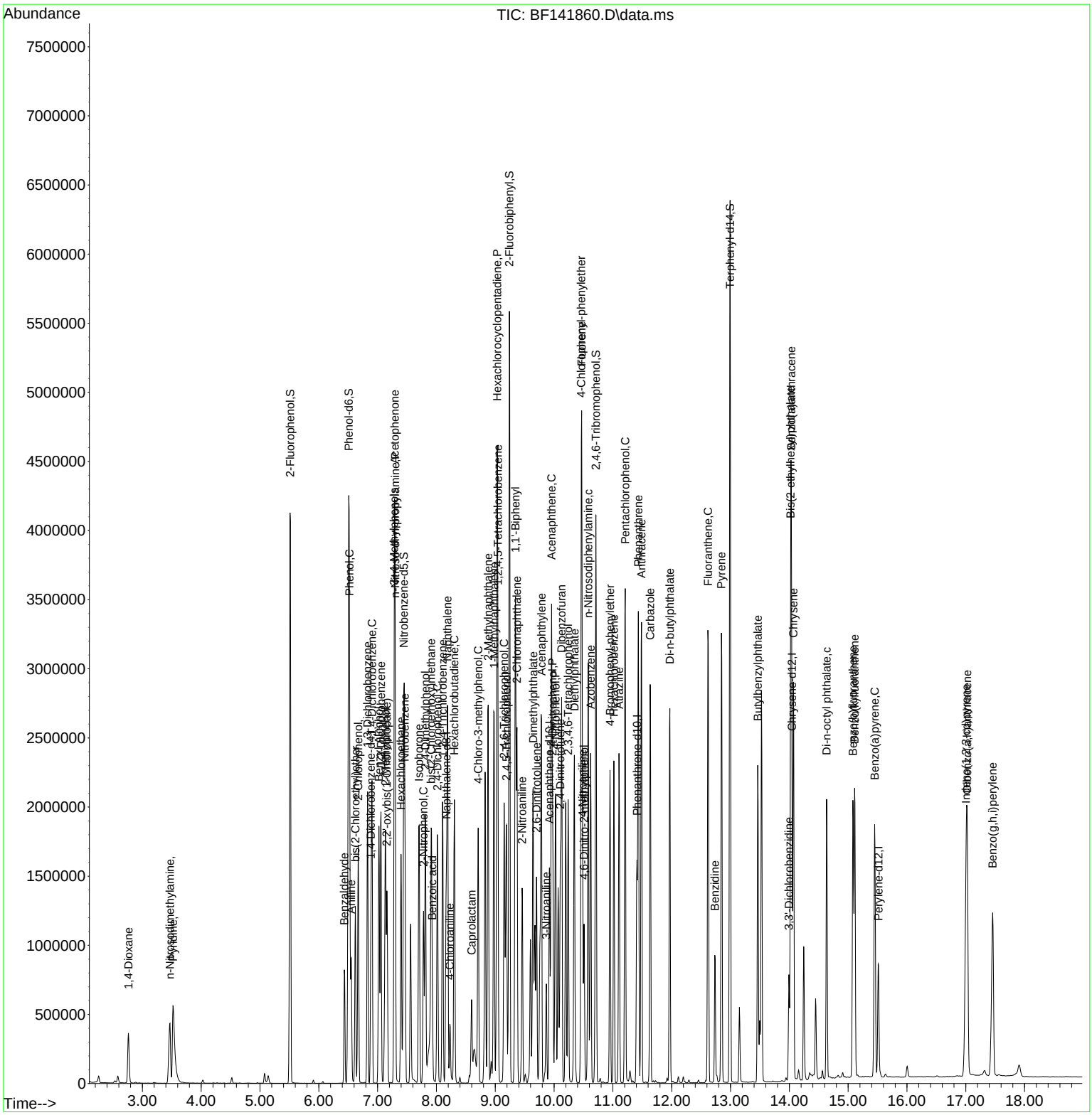
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.192 | 196 | 393469 | 45.604 | ng | | 98 |
| 46) 1,1'-Biphenyl | 9.345 | 154 | 1611215 | 45.323 | ng | | 98 |
| 47) 2-Chloronaphthalene | 9.369 | 162 | 1098889 | 41.882 | ng | | 99 |
| 48) 2-Nitroaniline | 9.457 | 65 | 341789 | 47.626 | ng | | 97 |
| 49) Acenaphthylene | 9.786 | 152 | 1713470 | 43.557 | ng | | 99 |
| 50) Dimethylphthalate | 9.645 | 163 | 1313815 | 42.006 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.704 | 165 | 288768 | 48.247 | ng | | 92 |
| 52) Acenaphthene | 9.957 | 154 | 1266215 | 47.702 | ng | | 99 |
| 53) 3-Nitroaniline | 9.869 | 138 | 153204 | 25.520 | ng | # | 95 |
| 54) 2,4-Dinitrophenol | 9.975 | 184 | 346122 | 111.084 | ng | # | 1 |
| 55) Dibenzofuran | 10.128 | 168 | 1544243 | 39.970 | ng | | 99 |
| 56) 4-Nitrophenol | 10.028 | 139 | 525883 | 113.842 | ng | | 95 |
| 57) 2,4-Dinitrotoluene | 10.104 | 165 | 401637 | 54.446 | ng | | 95 |
| 58) Fluorene | 10.469 | 166 | 1226351 | 42.376 | ng | | 98 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232 | 338195 | 45.070 | ng | | 98 |
| 60) Diethylphthalate | 10.345 | 149 | 1281425 | 40.869 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204 | 612702 | 42.256 | ng | | 99 |
| 62) 4-Nitroaniline | 10.486 | 138 | 293220 | 54.897 | ng | | 97 |
| 63) Azobenzene | 10.622 | 77 | 1253041 | 37.955 | ng | | 99 |
| 65) 4,6-Dinitro-2-methylph... | 10.510 | 198 | 220801 | 56.697 | ng | | 93 |
| 66) n-Nitrosodiphenylamine | 10.581 | 169 | 1071992 | 40.709 | ng | | 100 |
| 67) 4-Bromophenyl-phenylether | 10.951 | 248 | 391710 | 41.818 | ng | | 98 |
| 68) Hexachlorobenzene | 11.016 | 284 | 432837 | 43.759 | ng | | 99 |
| 69) Atrazine | 11.104 | 200 | 433249 | 59.829 | ng | | 100 |
| 70) Pentachlorophenol | 11.210 | 266 | 574113 | 91.516 | ng | | 100 |
| 71) Phenanthrene | 11.433 | 178 | 1812700 | 42.258 | ng | | 100 |
| 72) Anthracene | 11.486 | 178 | 1854922 | 43.146 | ng | | 99 |
| 73) Carbazole | 11.633 | 167 | 1634694 | 43.058 | ng | | 100 |
| 74) Di-n-butylphthalate | 11.969 | 149 | 1951706 | 40.557 | ng | | 100 |
| 75) Fluoranthene | 12.616 | 202 | 1922924 | 43.749 | ng | | 98 |
| 77) Benzidine | 12.733 | 184 | 493167 | 72.902 | ng | | 100 |
| 78) Pyrene | 12.845 | 202 | 1941461 | 41.714 | ng | | 100 |
| 80) Butylbenzylphthalate | 13.463 | 149 | 730230 | 43.184 | ng | | 99 |
| 81) Benzo(a)anthracene | 14.033 | 228 | 1506856 | 42.445 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 13.992 | 252 | 219648 | 21.565 | ng | | 99 |
| 83) Chrysene | 14.069 | 228 | 1403466 | 42.886 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.021 | 149 | 932426 | 44.285 | ng | | 100 |
| 85) Di-n-octyl phthalate | 14.633 | 149 | 1360035 | 43.146 | ng | | 97 |
| 87) Indeno(1,2,3-cd)pyrene | 17.004 | 276 | 1416313 | 47.292 | ng | | 97 |
| 88) Benzo(b)fluoranthene | 15.080 | 252 | 1297204 | 40.491 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.110 | 252 | 1099133 | 40.365 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.451 | 252 | 1136844 | 44.247 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.027 | 278 | 1137230 | 46.521 | ng | | 97 |
| 92) Benzo(g,h,i)perylene | 17.457 | 276 | 1105086 | 44.126 | ng | | 97 |

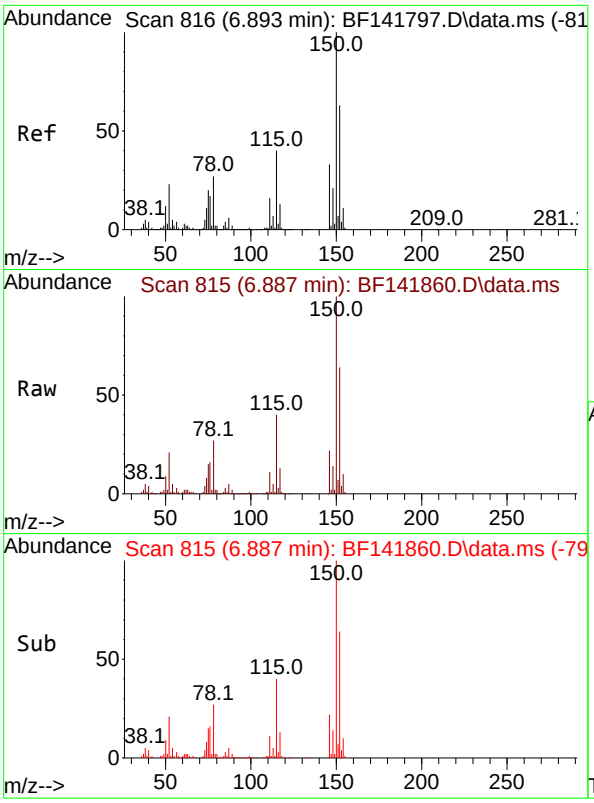
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141860.D
Acq On : 06 Mar 2025 10:52
Operator : RC/JU
Sample : PB166984BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Quant Time: Mar 06 15:49:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



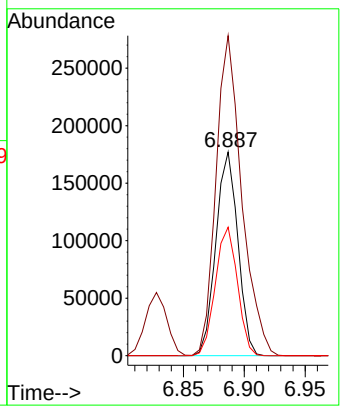


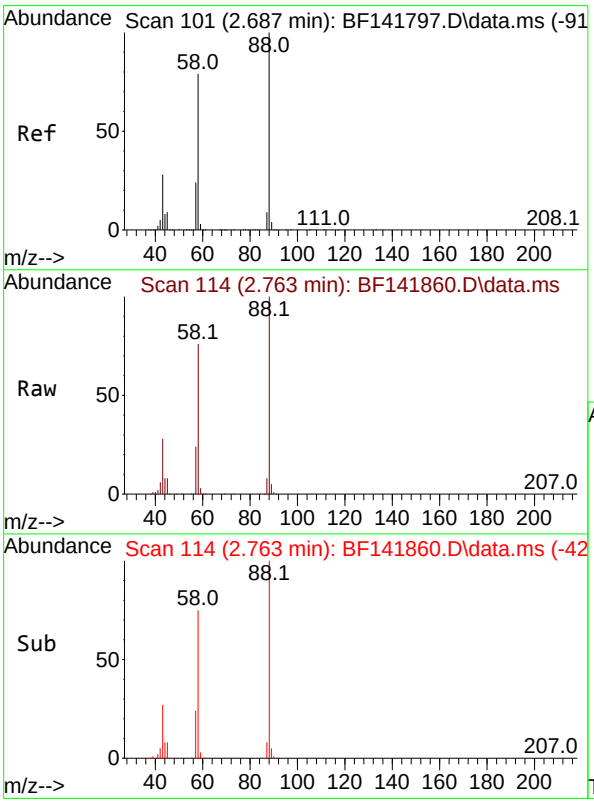

#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:152 Resp: 222677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 157.1 | 127.5 | 191.3 |
| 115 | 63.1 | 51.4 | 77.2 |

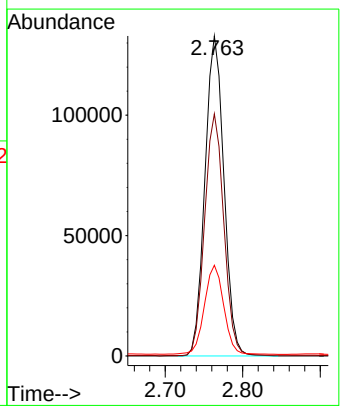


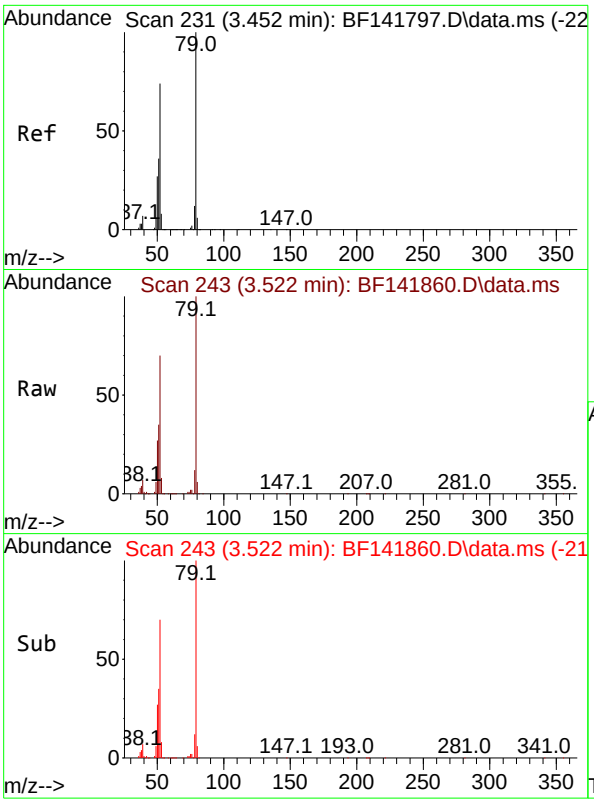




#2
1,4-Dioxane
Concen: 35.737 ng
RT: 2.763 min Scan# 114
Delta R.T. 0.076 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 88 Resp: 226101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 76.9 | 63.9 | 95.9 |
| 43 | 28.3 | 23.0 | 34.6 |



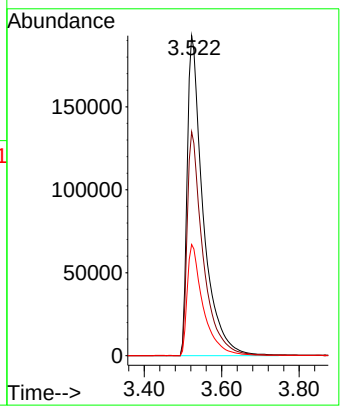


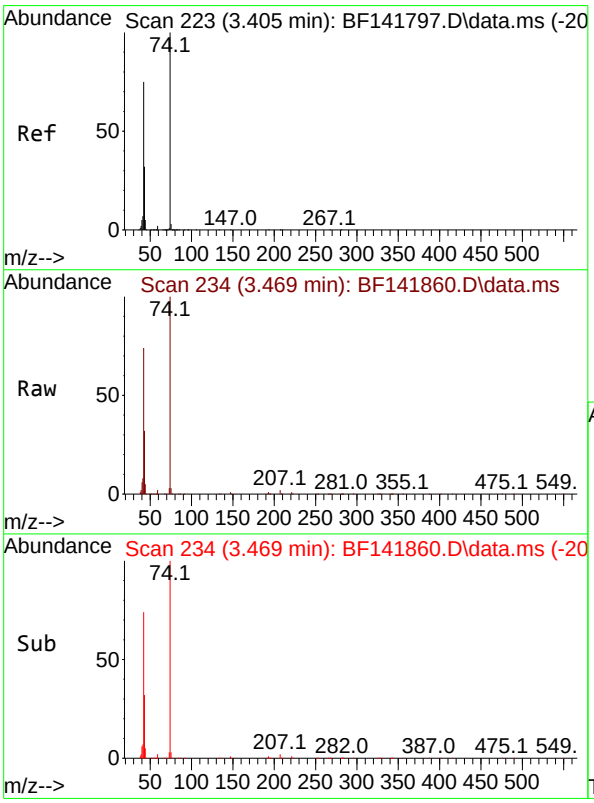

#3
Pyridine
Concen: 34.929 ng
RT: 3.522 min Scan# 24
Delta R.T. 0.070 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion: 79 Resp: 549854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 69.9 | 59.0 | 88.4 |
| 51 | 34.8 | 29.0 | 43.4 |

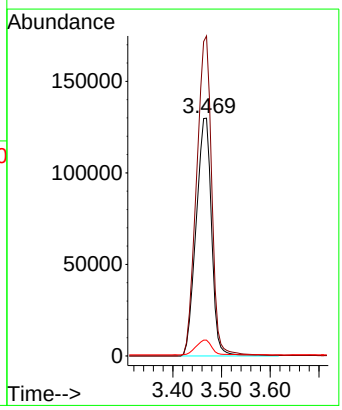


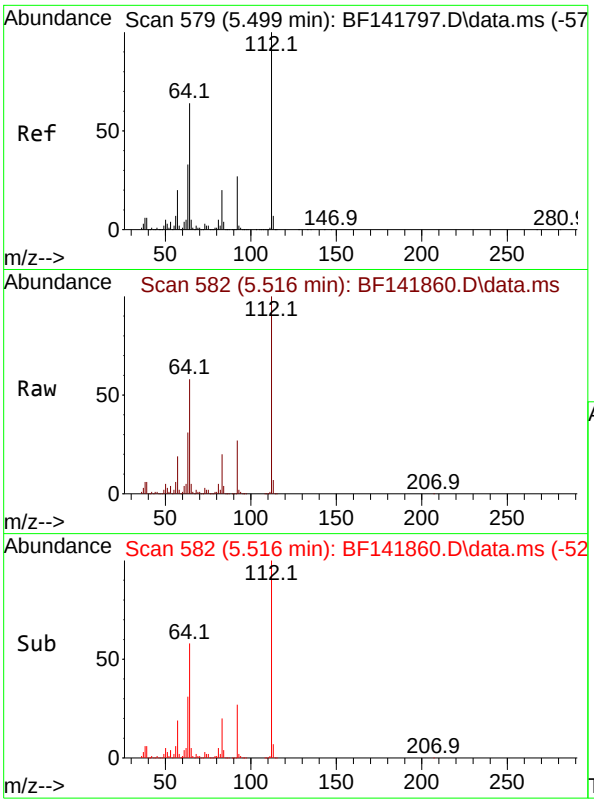




#4
n-Nitrosodimethylamine
Concen: 37.755 ng
RT: 3.469 min Scan# 234
Delta R.T. 0.065 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 42 Resp: 285971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 134.6 | 107.1 | 160.7 |
| 44 | 6.7 | 6.6 | 9.8 |



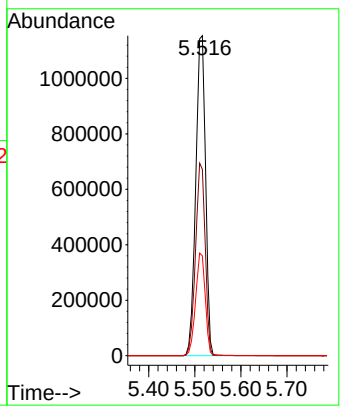


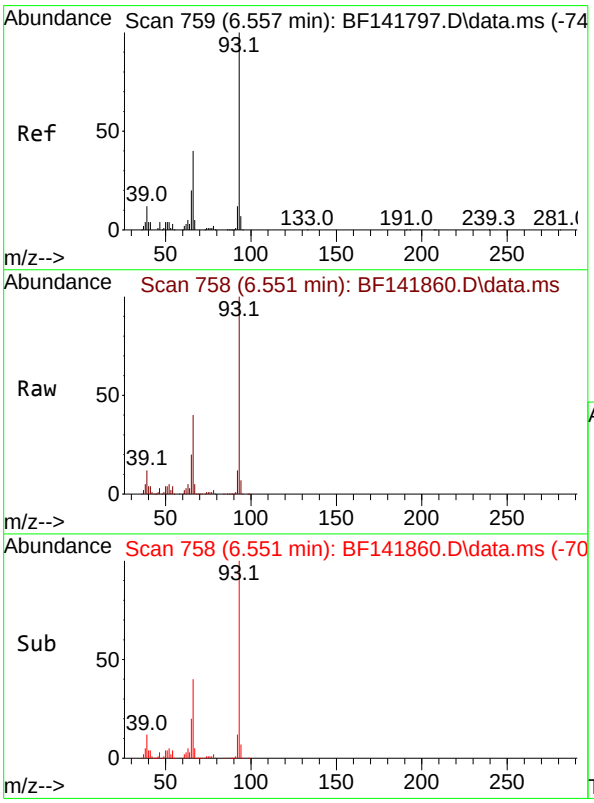

#5
2-Fluorophenol
Concen: 121.997 ng
RT: 5.516 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:112 Resp: 1701069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 58.3 | 51.3 | 76.9 |
| 63 | 31.2 | 26.2 | 39.4 |

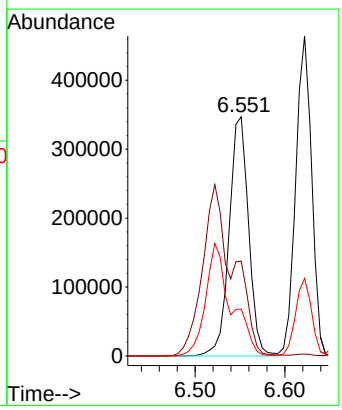


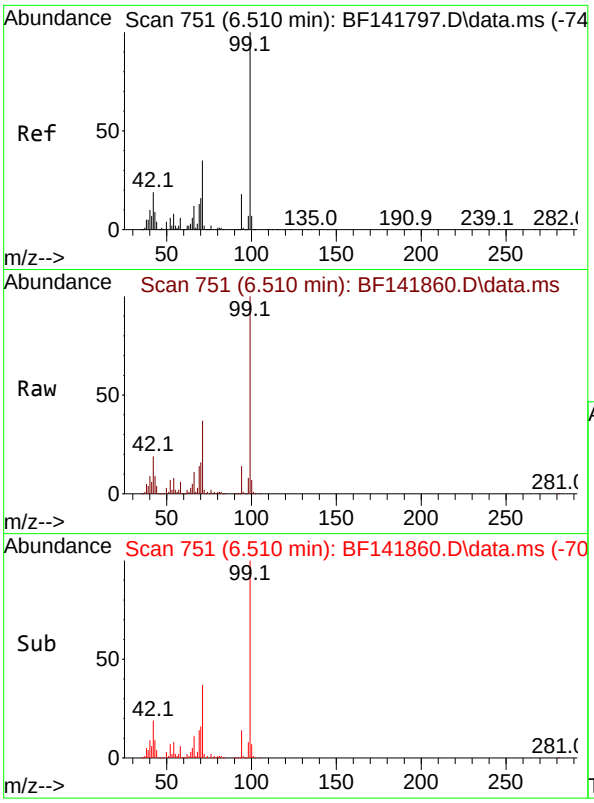




#6
Aniline
Concen: 27.676 ng
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 93 Resp: 522189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 39.6 | 32.3 | 48.5 |
| 65 | 19.6 | 15.9 | 23.9 |



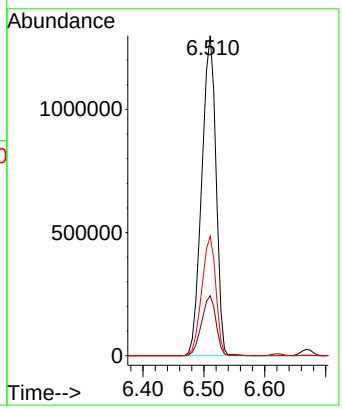


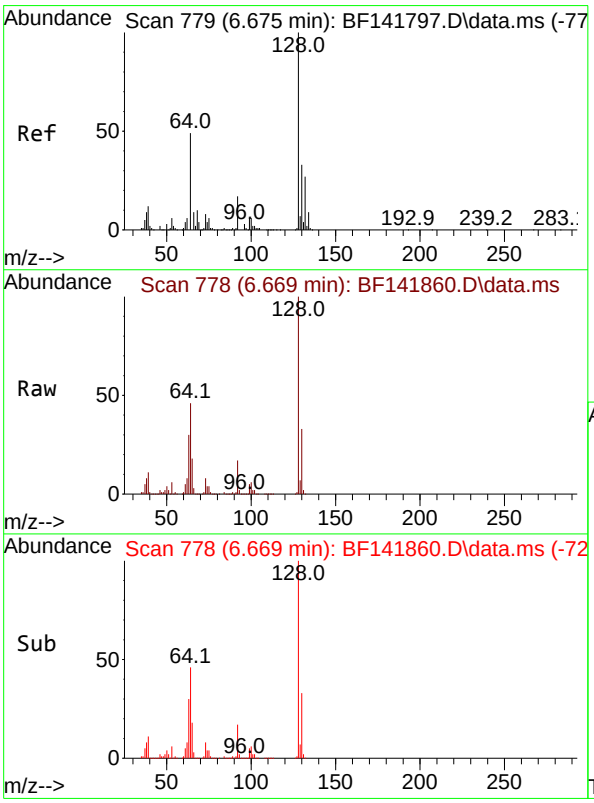

#7
Phenol-d6
Concen: 116.173 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion: 99 Resp: 2108392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.8 | 15.2 | 22.8 |
| 71 | 37.3 | 28.2 | 42.2 |

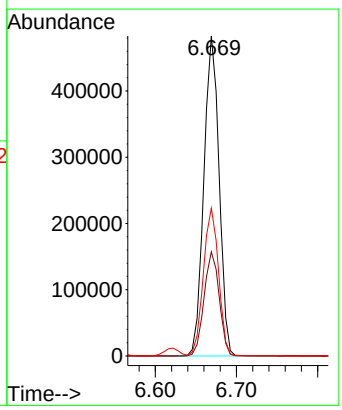


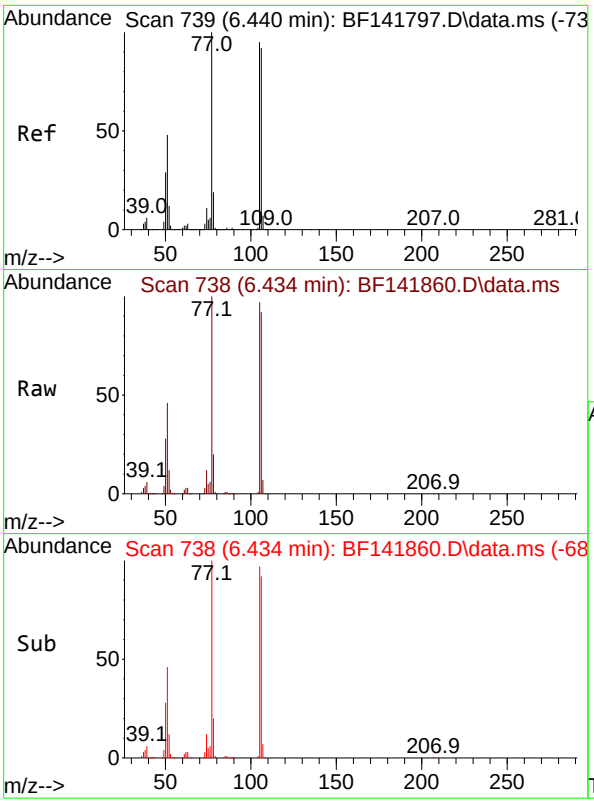




#8
2-Chlorophenol
Concen: 41.655 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:128 Resp: 628313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.5 | 12.6 | 52.6 |
| 64 | 46.2 | 31.1 | 71.1 |



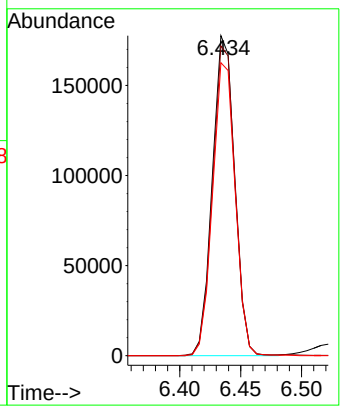


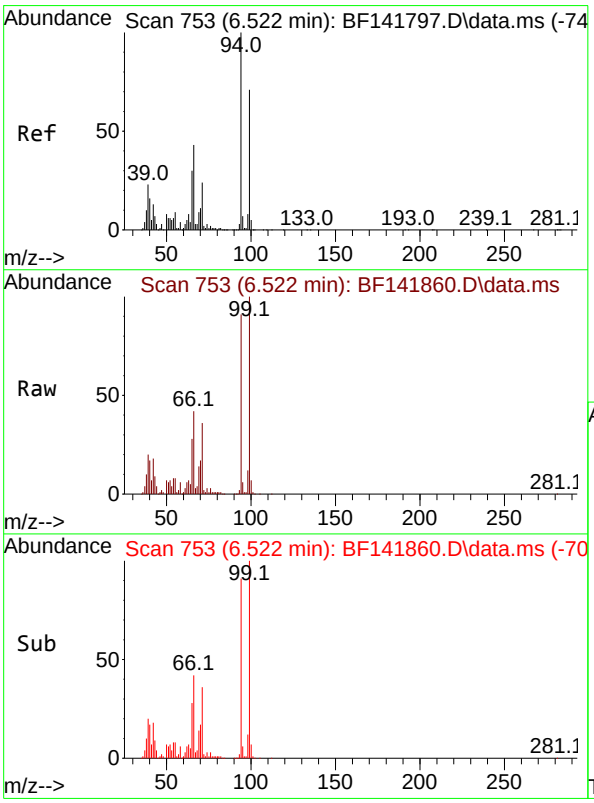

#9
Benzaldehyde
Concen: 21.388 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion: 77 Resp: 225786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 96.8 | 75.3 | 115.3 |
| 106 | 91.5 | 72.3 | 112.3 |

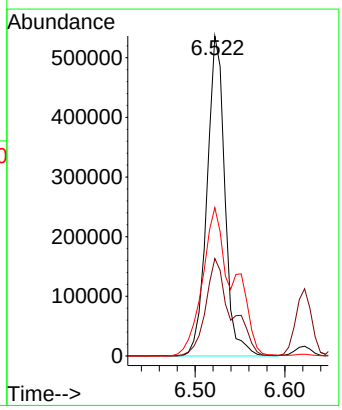


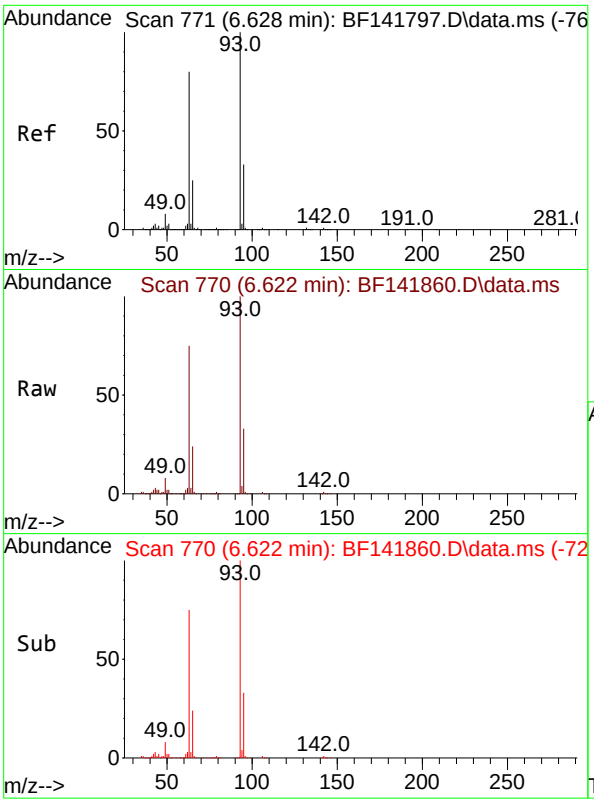




#10
Phenol
Concen: 38.212 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 94 Resp: 741067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 30.4 | 10.2 | 50.2 |
| 66 | 46.3 | 23.2 | 63.2 |



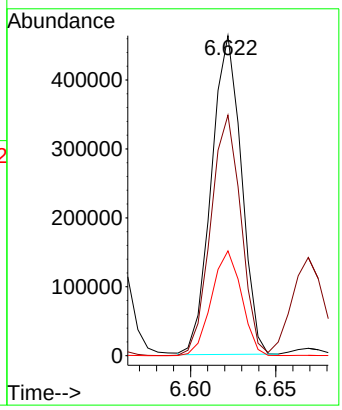


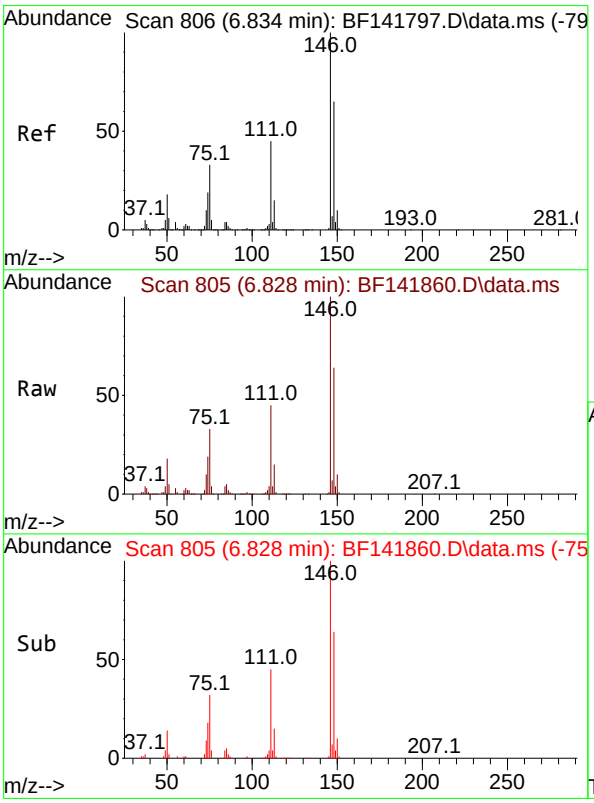

#11
bis(2-Chloroethyl)ether
Concen: 38.283 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion: 93 Resp: 565937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.1 | 59.3 | 99.3 |
| 95 | 32.7 | 13.2 | 53.2 |

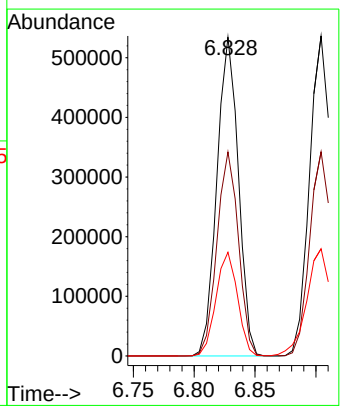


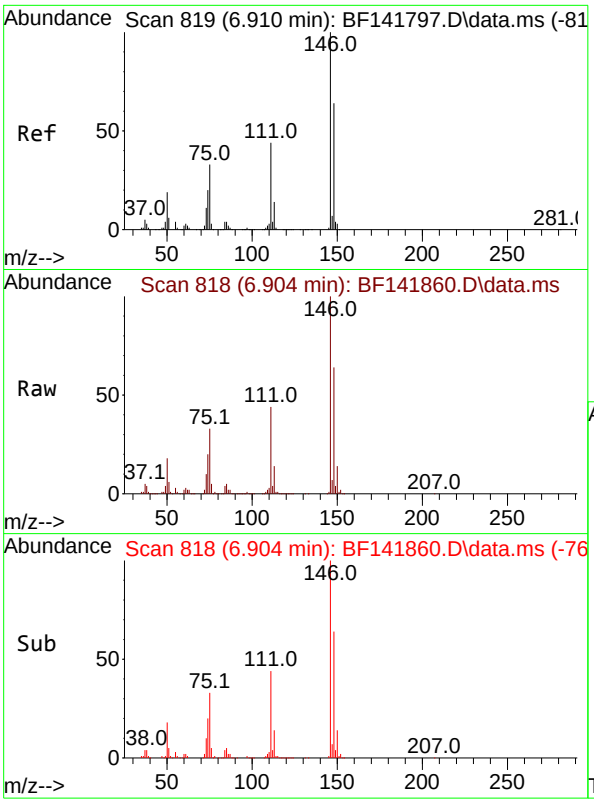




#12
1,3-Dichlorobenzene
Concen: 40.633 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:146 Resp: 656353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.0 | 51.8 | 77.6 |
| 75 | 32.5 | 26.2 | 39.4 |



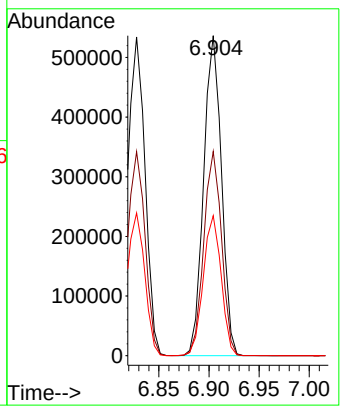


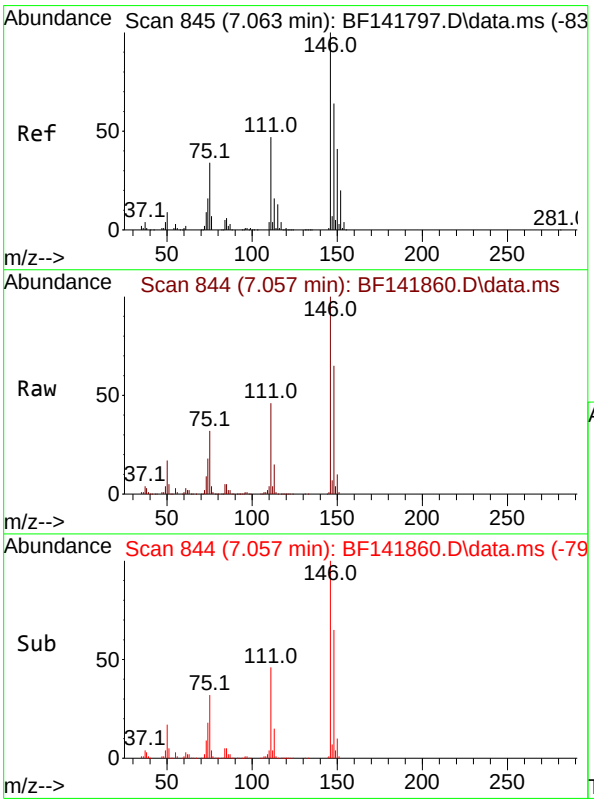

#13
1,4-Dichlorobenzene
Concen: 40.775 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:146 Resp: 663658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 63.8 | 51.4 | 77.2 |
| 111 | 43.8 | 35.5 | 53.3 |

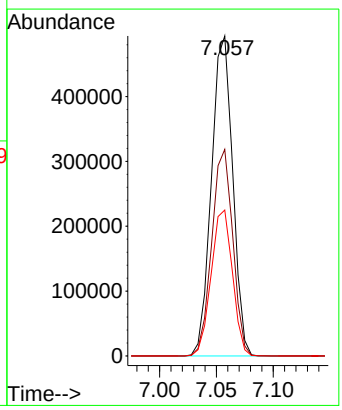


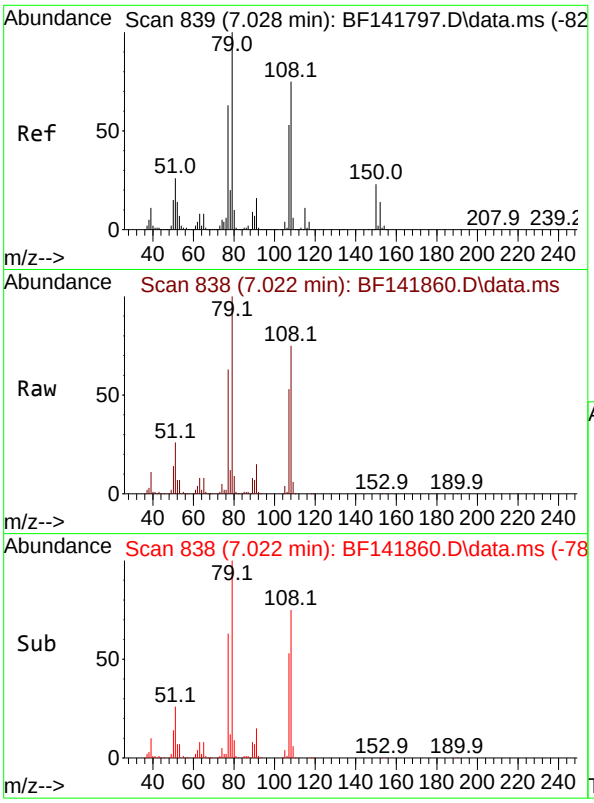




#14
1,2-Dichlorobenzene
Concen: 42.221 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:146 Resp: 641692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.5 | 51.2 | 76.8 |
| 111 | 45.6 | 37.8 | 56.6 |



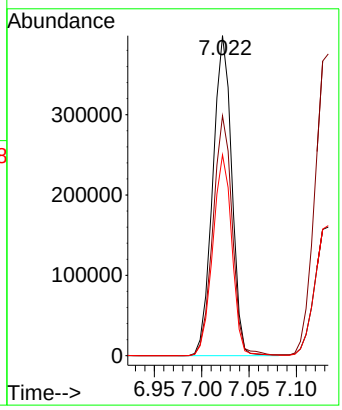


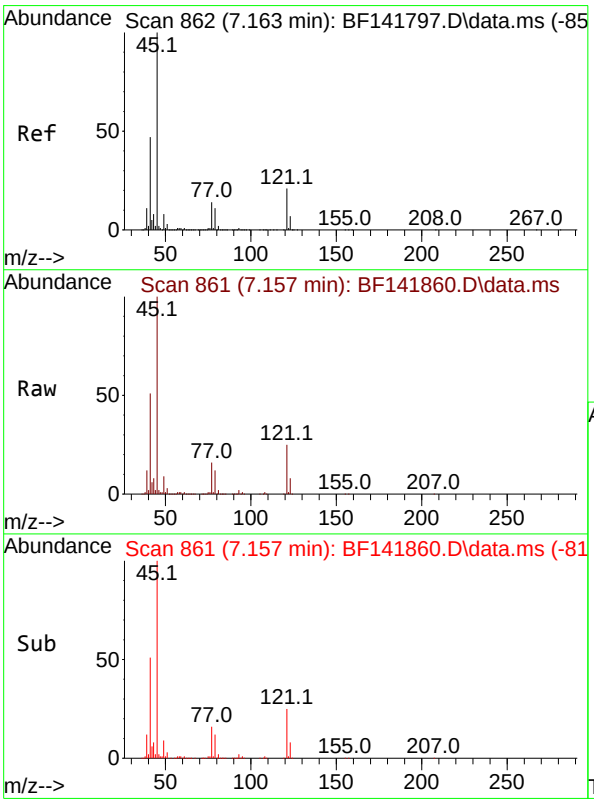

#15
Benzyl Alcohol
Concen: 38.390 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion: 79 Resp: 556826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 75.0 | 60.2 | 90.2 |
| 77 | 62.7 | 50.2 | 75.2 |

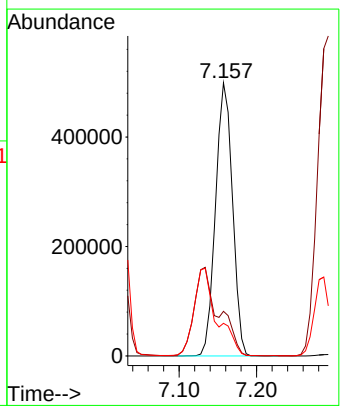


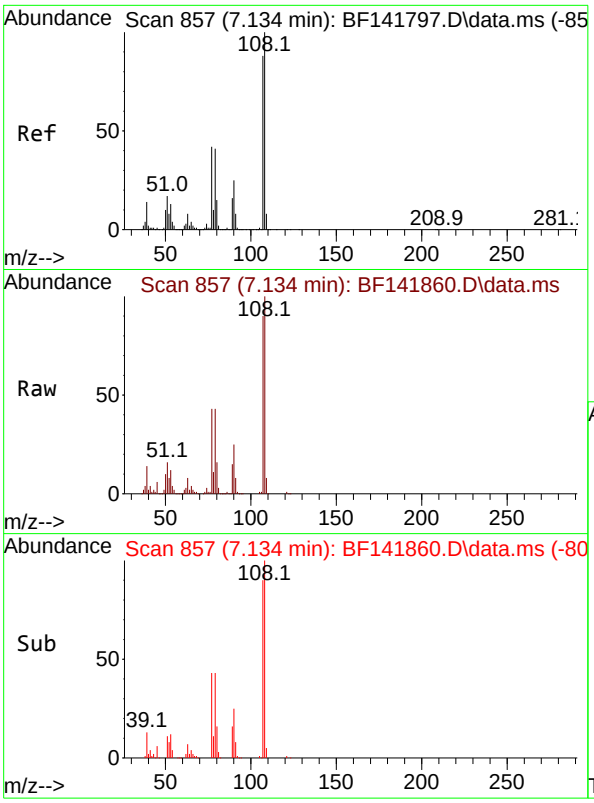




#16
2,2'-oxybis(1-Chloropropane)
Concen: 33.675 ng
RT: 7.157 min Scan# 861
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 45 Resp: 756011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 16.3 | 0.0 | 34.4 |
| 79 | 12.0 | 0.0 | 30.9 |



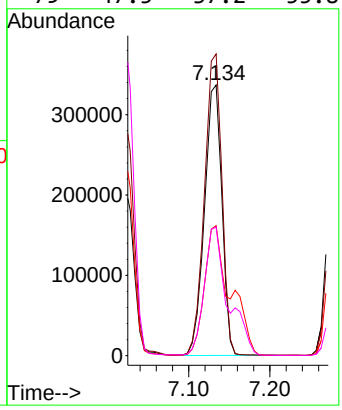


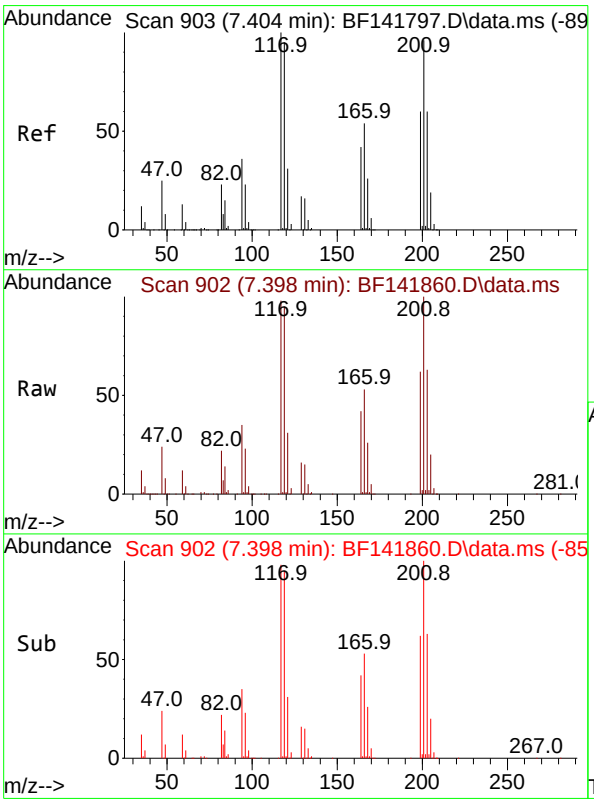

#17
2-Methylphenol
Concen: 40.279 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:107 Resp: 501492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 111.5 | 90.6 | 135.8 |
| 77 | 48.1 | 37.7 | 56.5 |
| 79 | 47.5 | 37.2 | 55.8 |

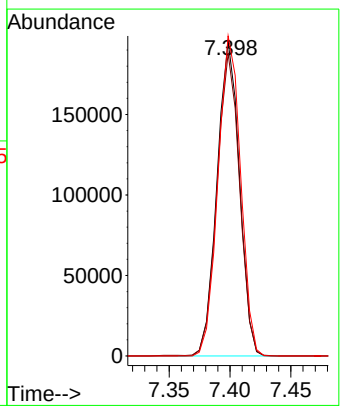


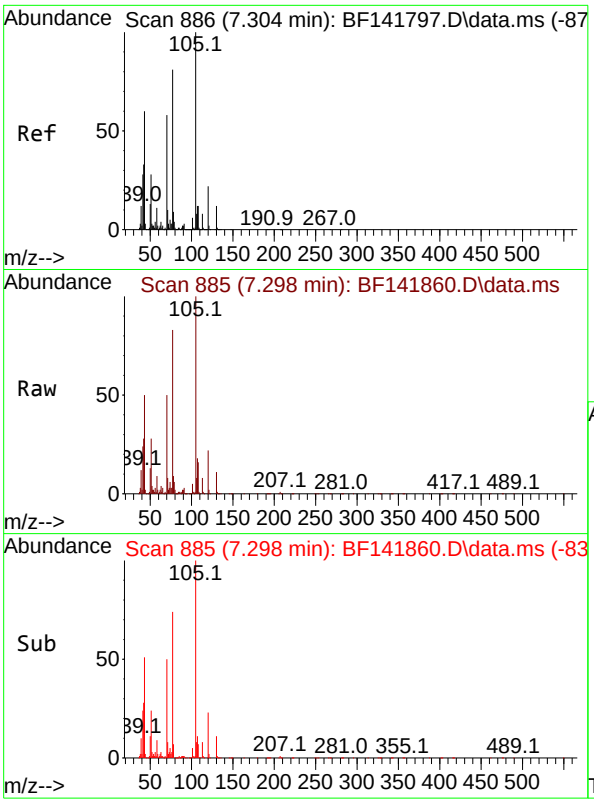




#18
Hexachloroethane
Concen: 41.116 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:117 Resp: 250476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.1 | 75.8 | 113.8 |
| 201 | 101.7 | 76.7 | 115.1 |



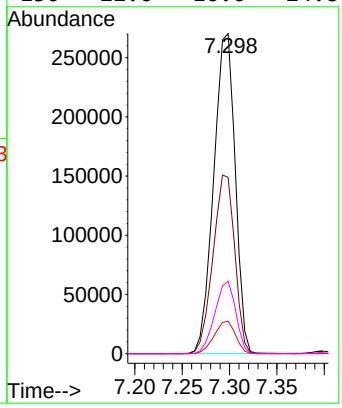


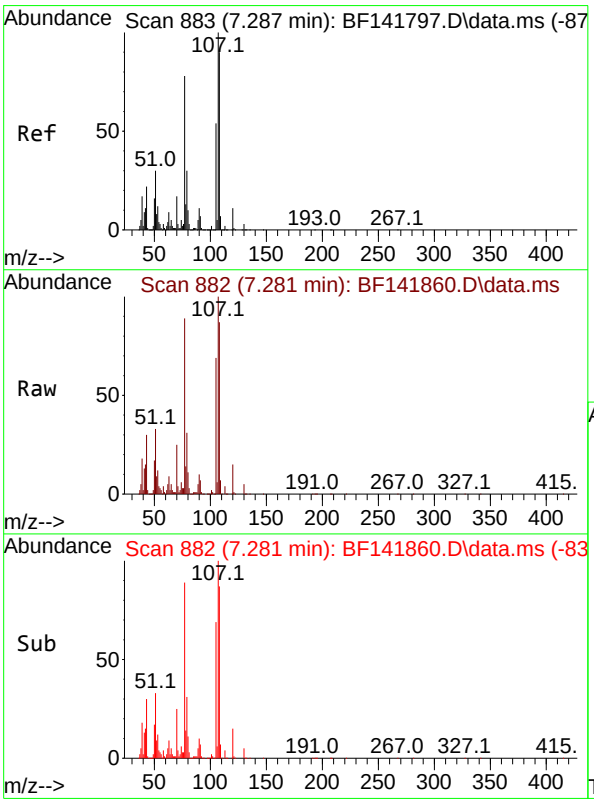

#19
n-Nitroso-di-n-propylamine
Concen: 35.799 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion: 70 Resp: 427099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 55.2 | 45.4 | 68.0 |
| 101 | 10.1 | 7.8 | 11.8 |
| 130 | 22.6 | 16.6 | 24.8 |

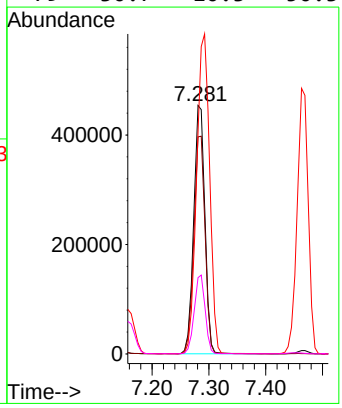


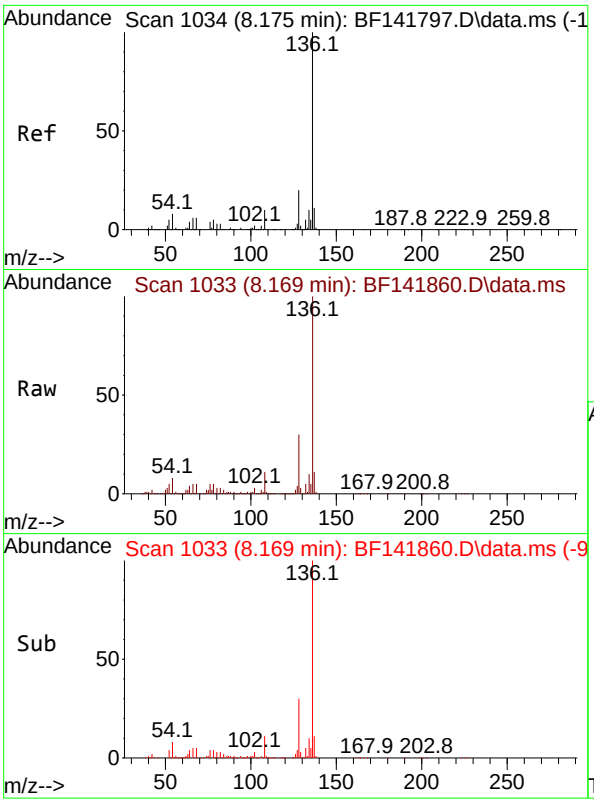




#20
3+4-Methylphenols
Concen: 40.079 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:107 Resp: 621360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 87.4 | 69.7 | 109.7 |
| 77 | 89.3 | 58.3 | 98.3 |
| 79 | 30.7 | 10.3 | 50.3 |



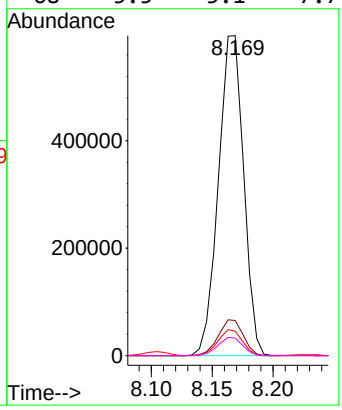


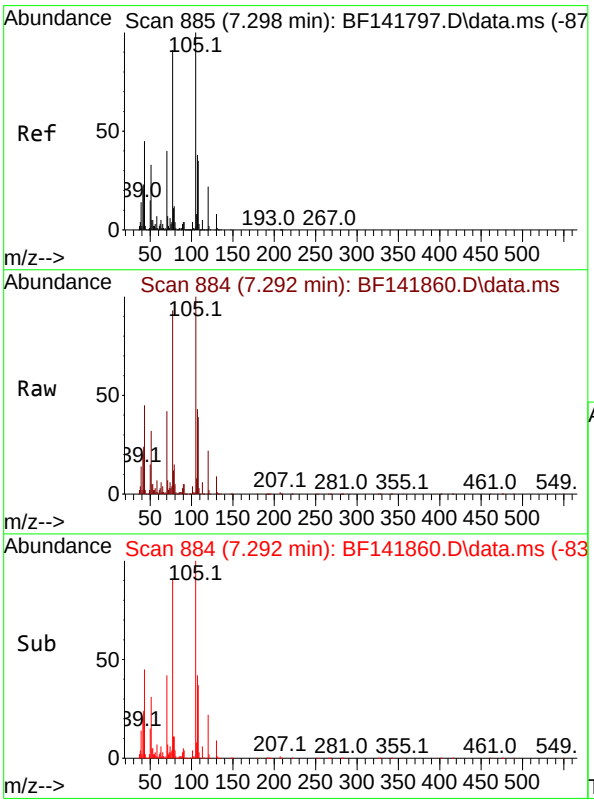

#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:136 Resp: 860348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.9 | 13.3 |
| 54 | 7.6 | 6.9 | 10.3 |
| 68 | 5.5 | 5.1 | 7.7 |

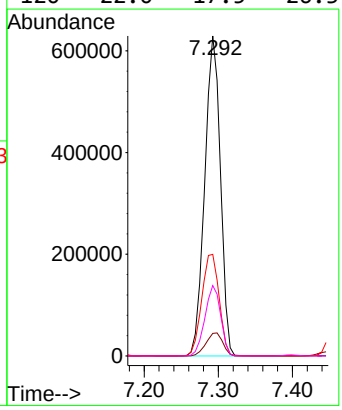


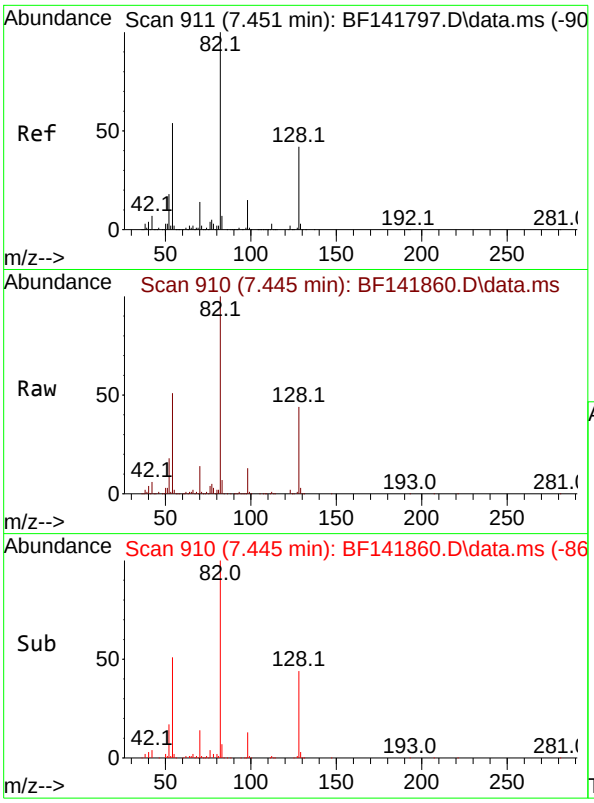




#22
Acetophenone
Concen: 44.138 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:105 Resp: 924853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 7.0 | 5.4 | 8.0 |
| 51 | 31.7 | 26.1 | 39.1 |
| 120 | 22.0 | 17.5 | 26.3 |



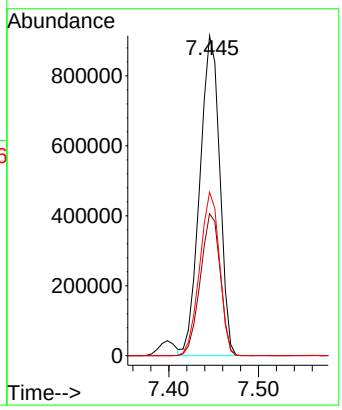


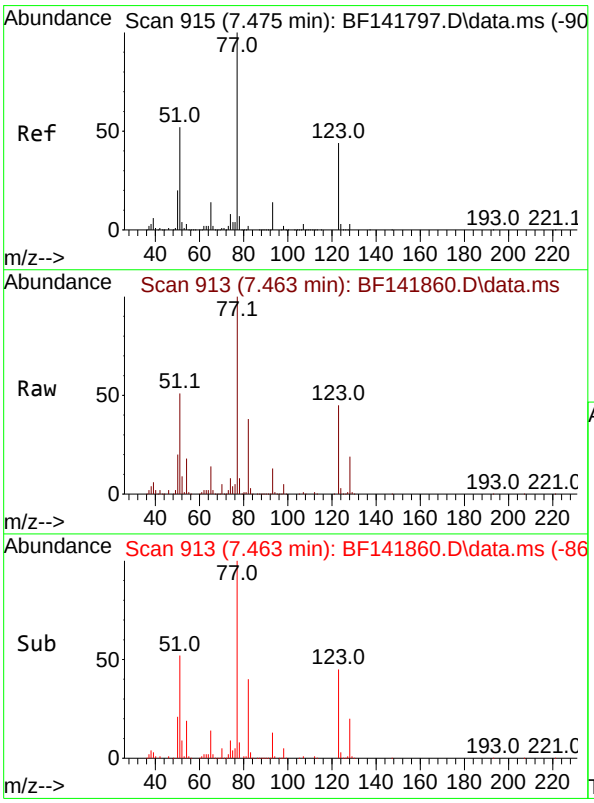

#23
Nitrobenzene-d5
Concen: 104.625 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion: 82 Resp: 1408232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.3 | 33.5 | 50.3 |
| 54 | 51.1 | 42.7 | 64.1 |

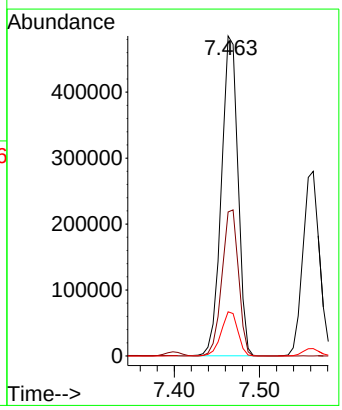


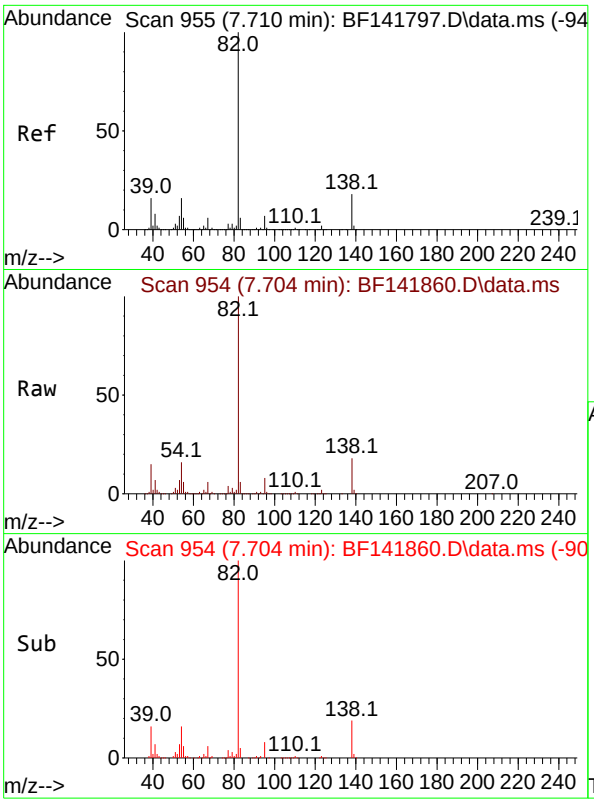




#24
Nitrobenzene
Concen: 45.544 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 77 Resp: 656445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 45.0 | 35.8 | 53.8 |
| 65 | 13.8 | 11.2 | 16.8 |



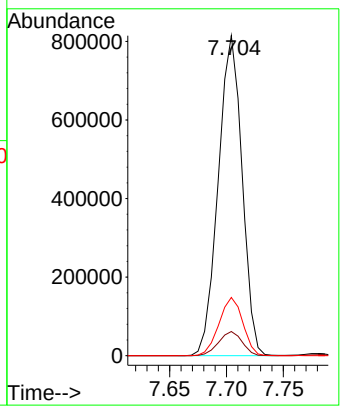


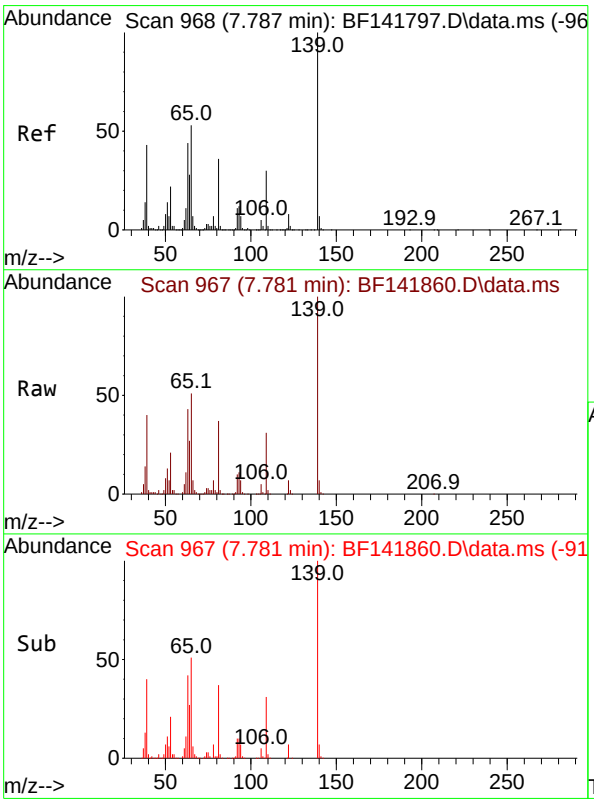

#25
Isophorone
Concen: 41.131 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion: 82 Resp: 1189358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.6 | 5.8 | 8.8 |
| 138 | 18.2 | 14.0 | 21.0 |

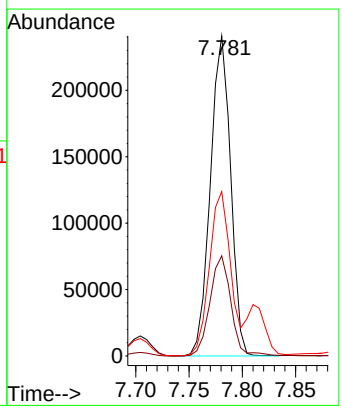


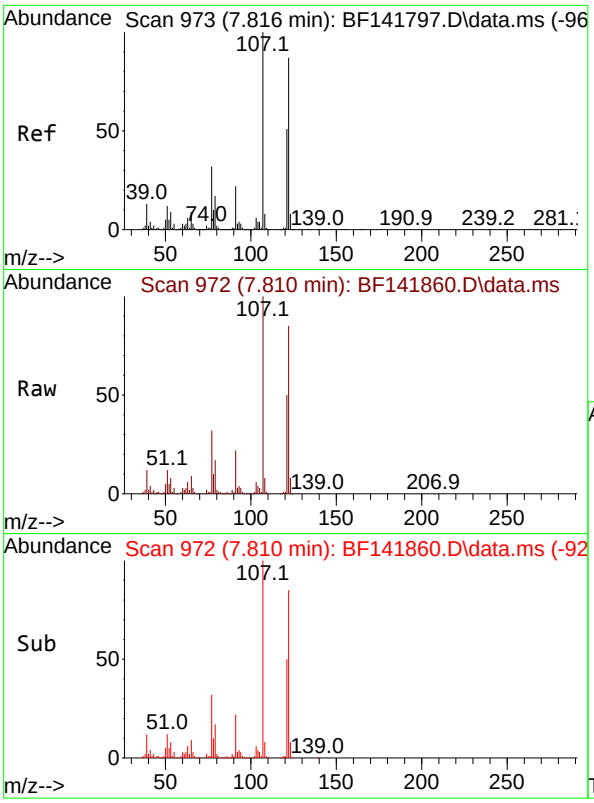




#26
2-Nitrophenol
Concen: 49.233 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:139 Resp: 317830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 31.3 | 24.1 | 36.1 |
| 65 | 51.4 | 42.3 | 63.5 |



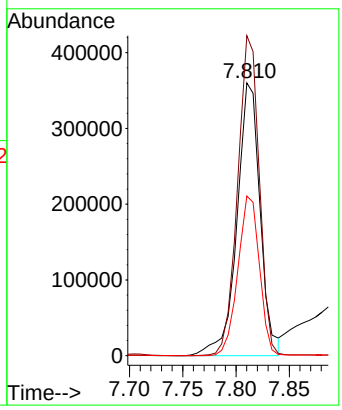


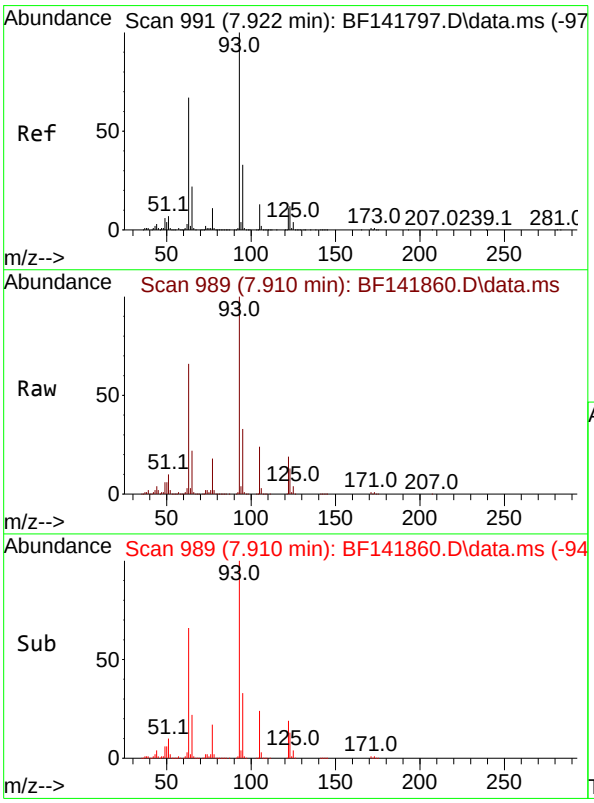

#27
2,4-Dimethylphenol
Concen: 51.293 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:122 Resp: 545219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 117.3 | 92.5 | 138.7 |
| 121 | 58.5 | 47.1 | 70.7 |

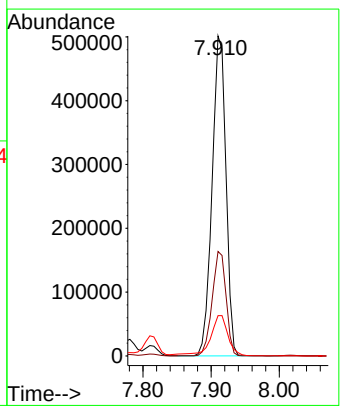


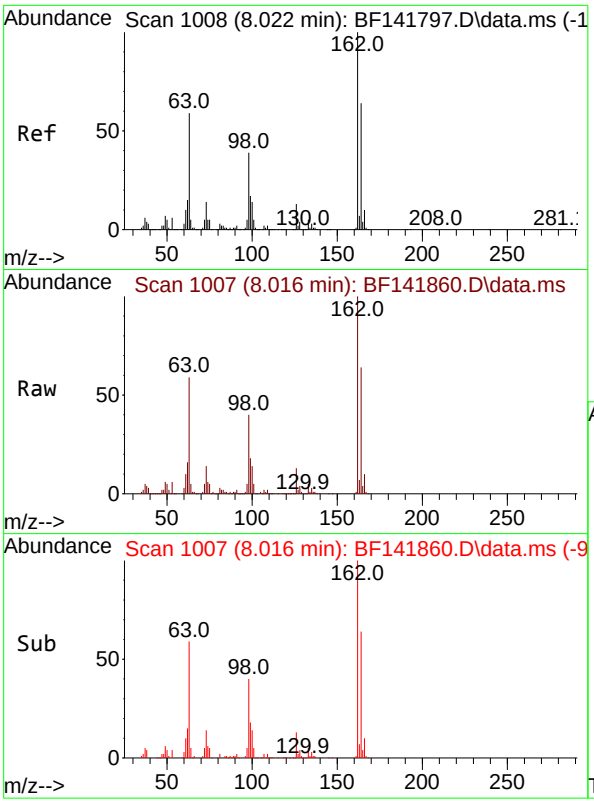




#28
bis(2-Chloroethoxy)methane
Concen: 38.479 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 93 Resp: 709782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.7 | 26.5 | 39.7 |
| 123 | 12.6 | 10.0 | 15.0 |



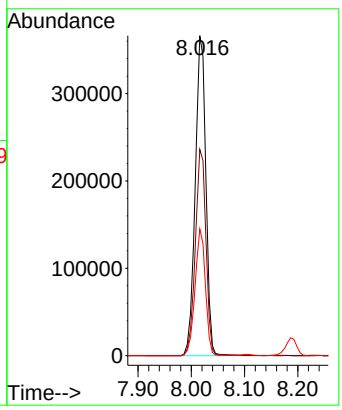


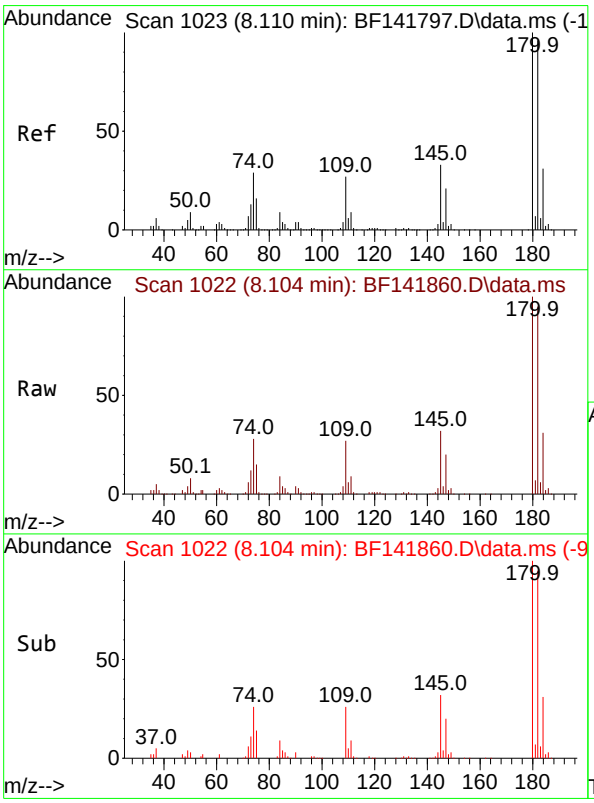

#29
2,4-Dichlorophenol
Concen: 41.536 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:162 Resp: 509337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.5 | 44.3 | 84.3 |
| 98 | 39.6 | 19.6 | 59.6 |

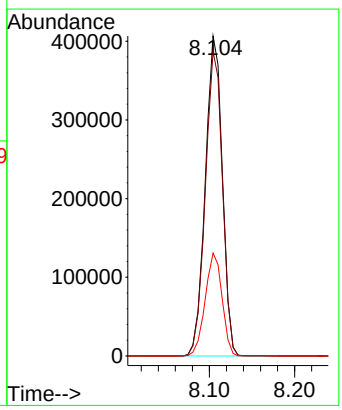


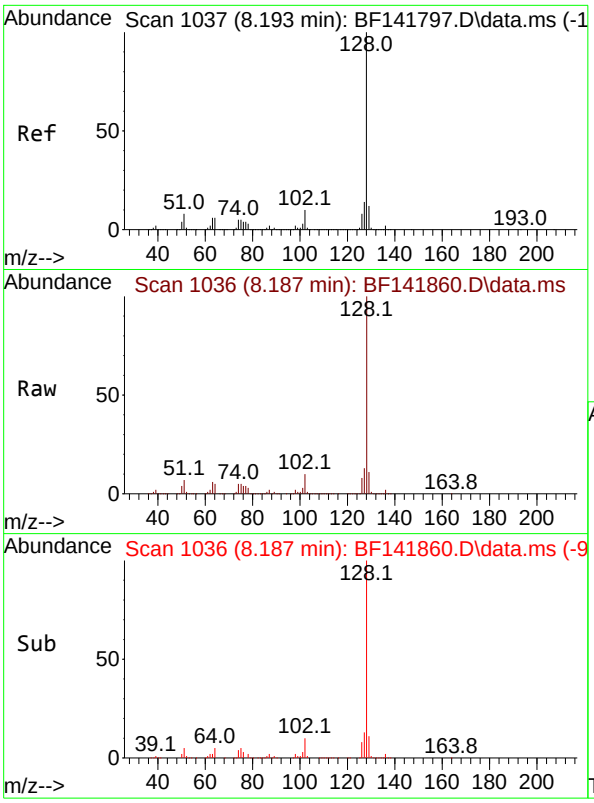




#30
1,2,4-Trichlorobenzene
Concen: 42.101 ng
RT: 8.104 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:180 Resp: 565708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.2 | 76.8 | 115.2 |
| 145 | 32.1 | 26.4 | 39.6 |



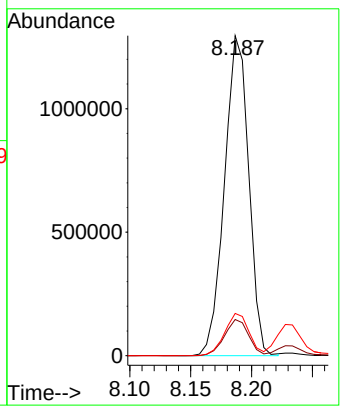


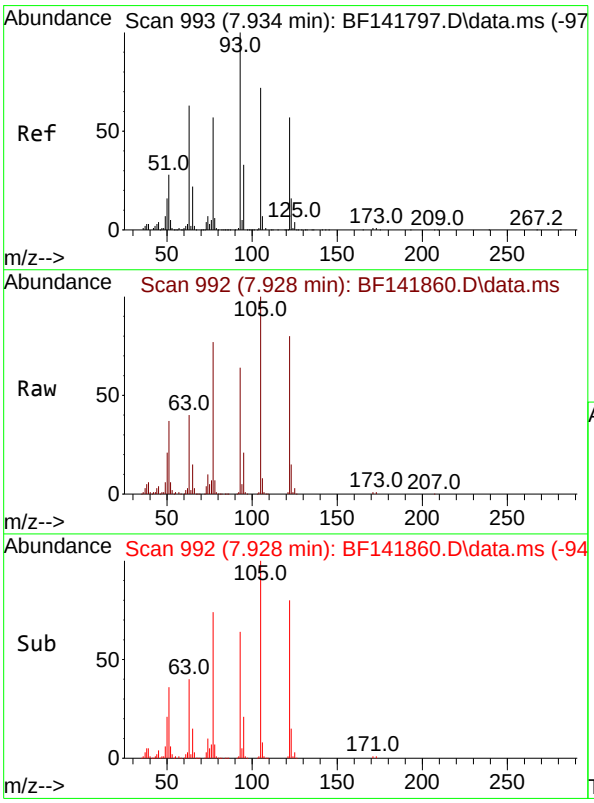

#31
Naphthalene
Concen: 40.665 ng
RT: 8.187 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:128 Resp: 1798156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.3 | 9.2 | 13.8 |
| 127 | 13.2 | 11.0 | 16.4 |

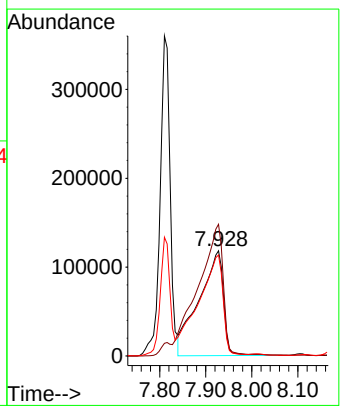


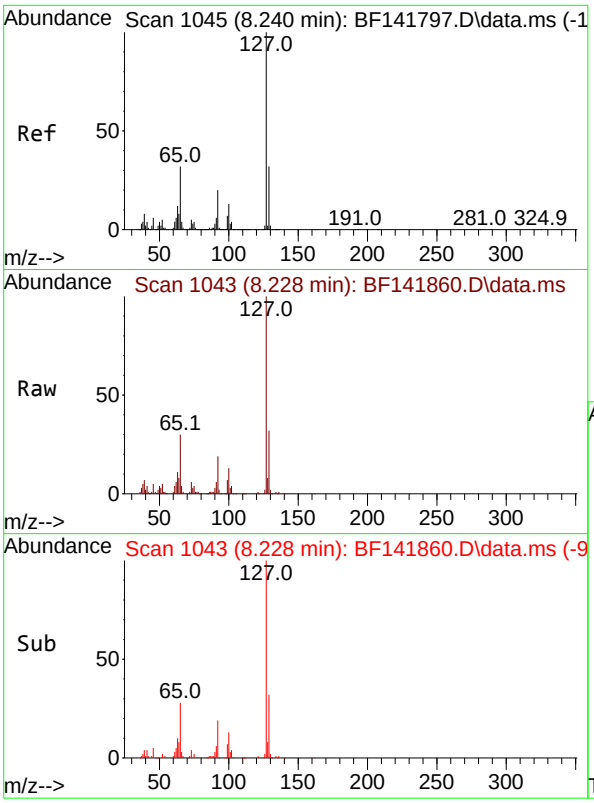




#32
Benzoic acid
Concen: 48.969 ng
RT: 7.928 min Scan# 992
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:122 Resp: 436083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 125.2 | 105.8 | 145.8 |
| 77 | 96.1 | 79.9 | 119.9 |



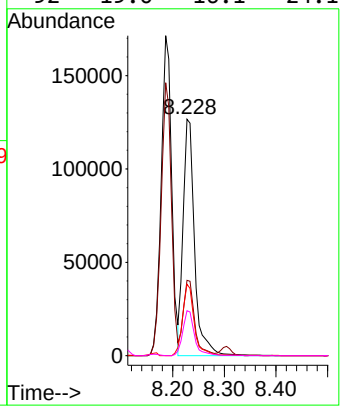


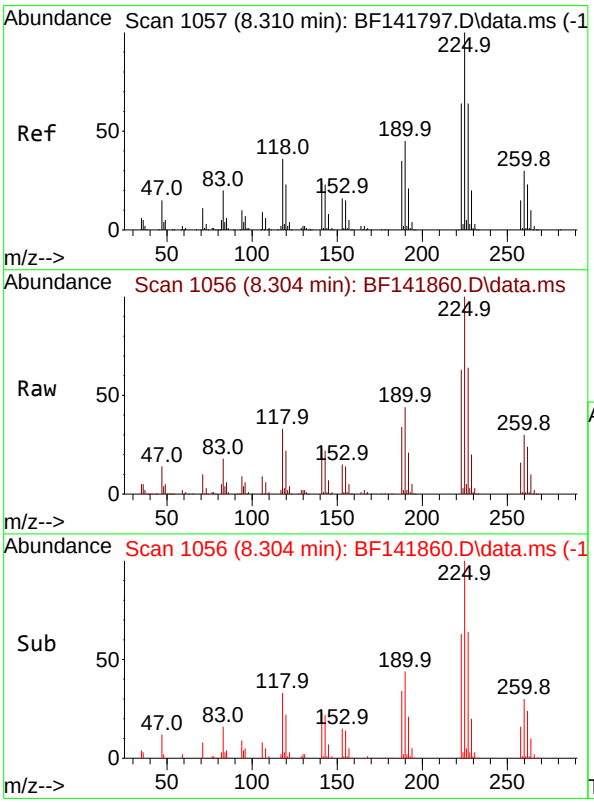

#33
4-Chloroaniline
Concen: 12.093 ng
RT: 8.228 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:127 Resp: 196072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 31.8 | 26.1 | 39.1 |
| 65 | 30.3 | 25.7 | 38.5 |
| 92 | 19.0 | 16.1 | 24.1 |

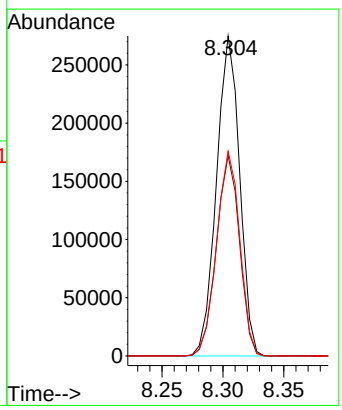


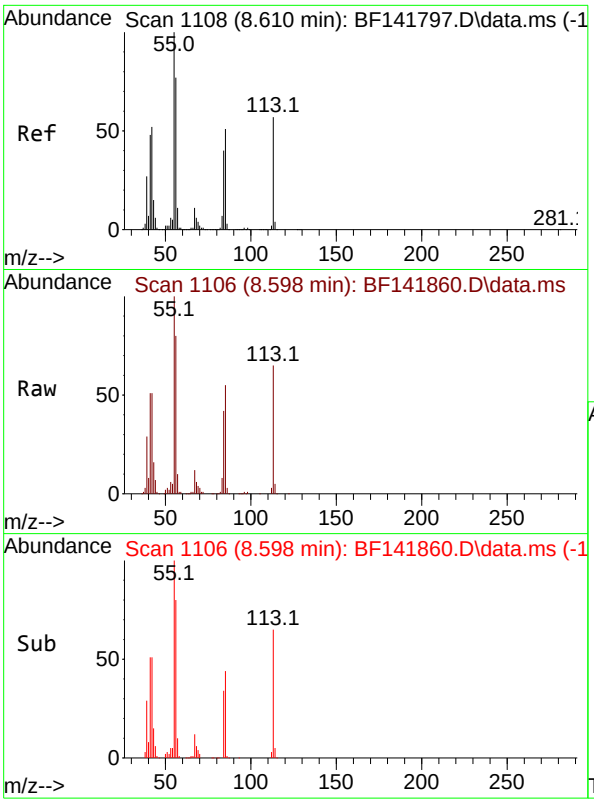




#34
Hexachlorobutadiene
Concen: 43.526 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:225 Resp: 363439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.6 | 51.4 | 77.2 |
| 227 | 64.0 | 51.6 | 77.4 |



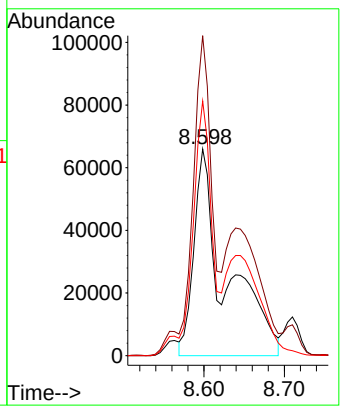


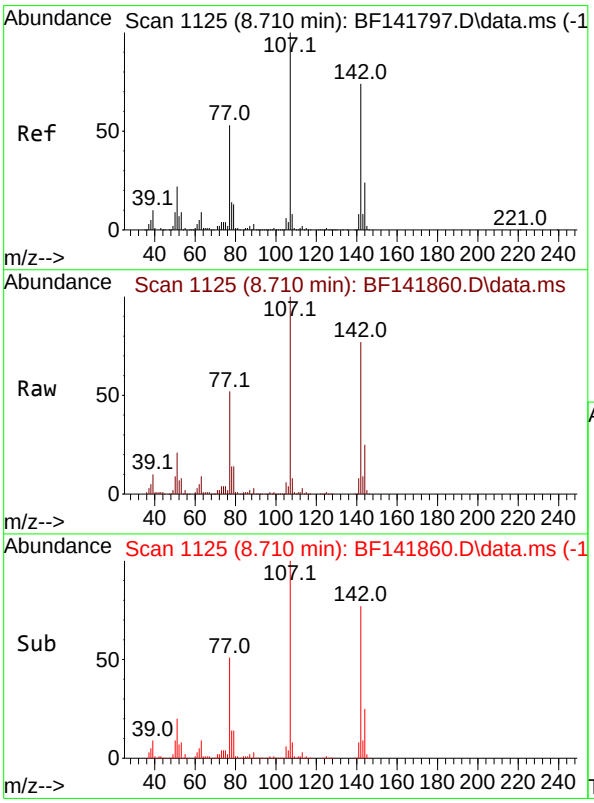

#35
Caprolactam
Concen: 48.041 ng m
RT: 8.598 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:113 Resp: 181228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 154.8 | 155.6 | 195.6# |
| 56 | 123.2 | 114.6 | 154.6 |

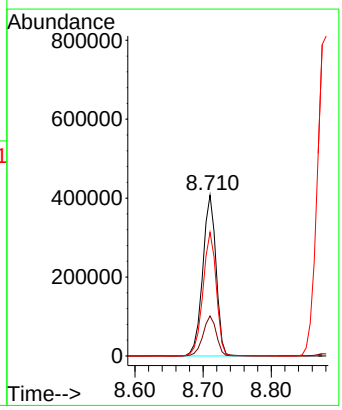


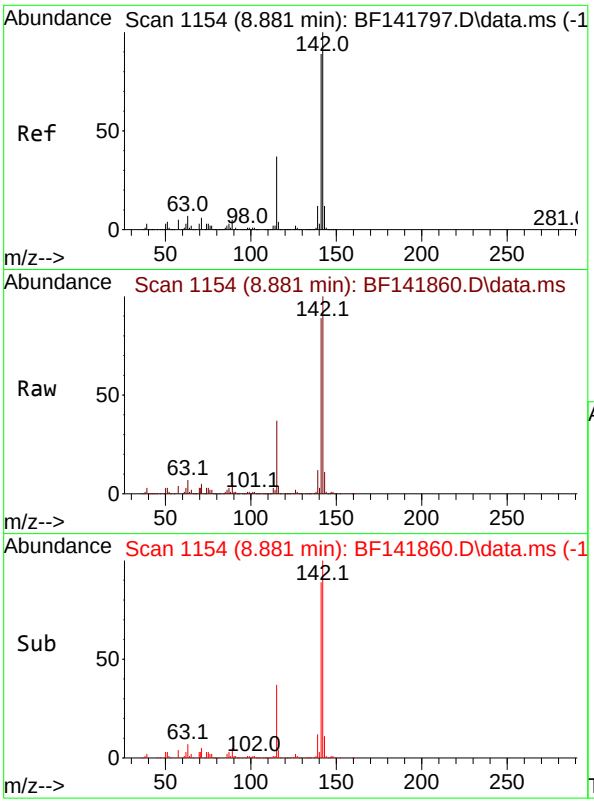




#36
4-Chloro-3-methylphenol
Concen: 40.762 ng
RT: 8.710 min Scan# 1125
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:107 Resp: 555267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 24.9 | 19.4 | 29.0 |
| 142 | 76.9 | 59.4 | 89.0 |



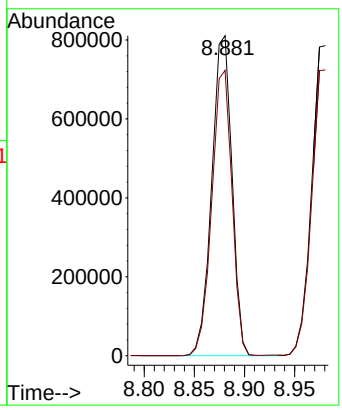


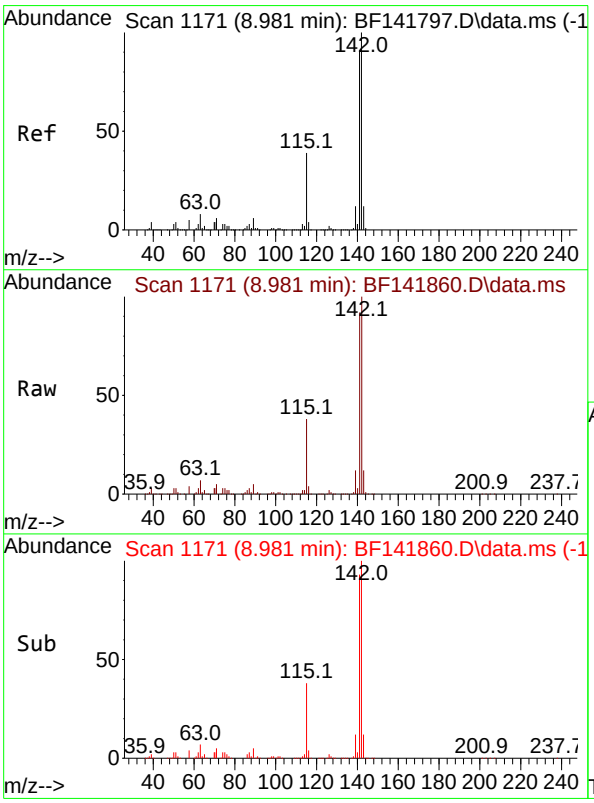

#37
2-Methylnaphthalene
Concen: 39.174 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:142 Resp: 1136178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.1 | 71.1 | 106.7 |

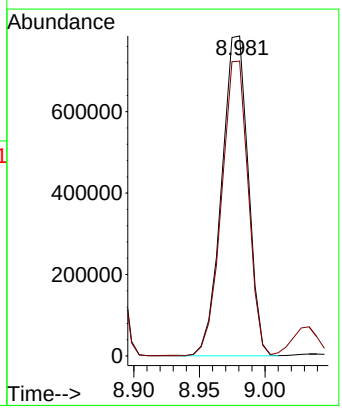


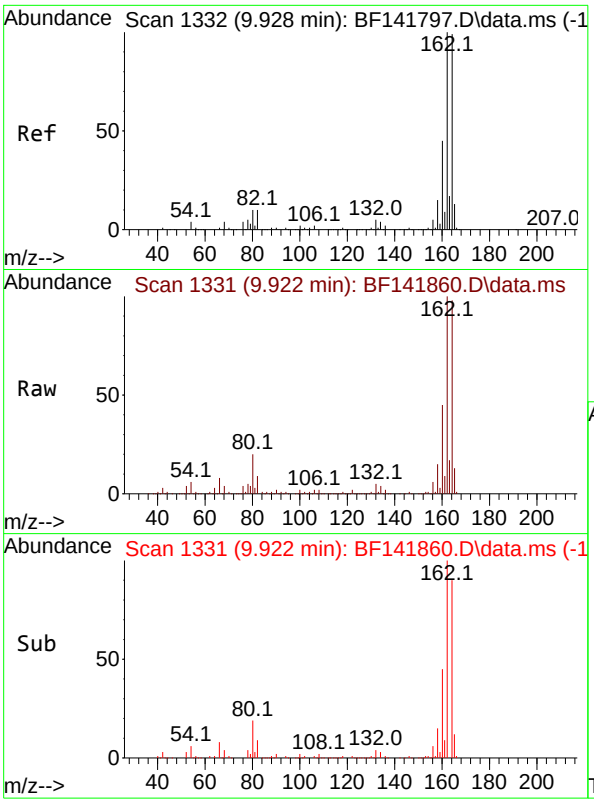




#38
1-Methylnaphthalene
Concen: 39.748 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:142 Resp: 1106172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.2 | 73.1 | 109.7 |



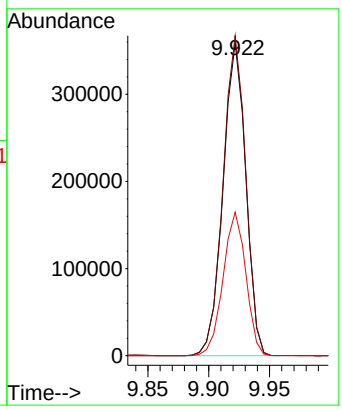


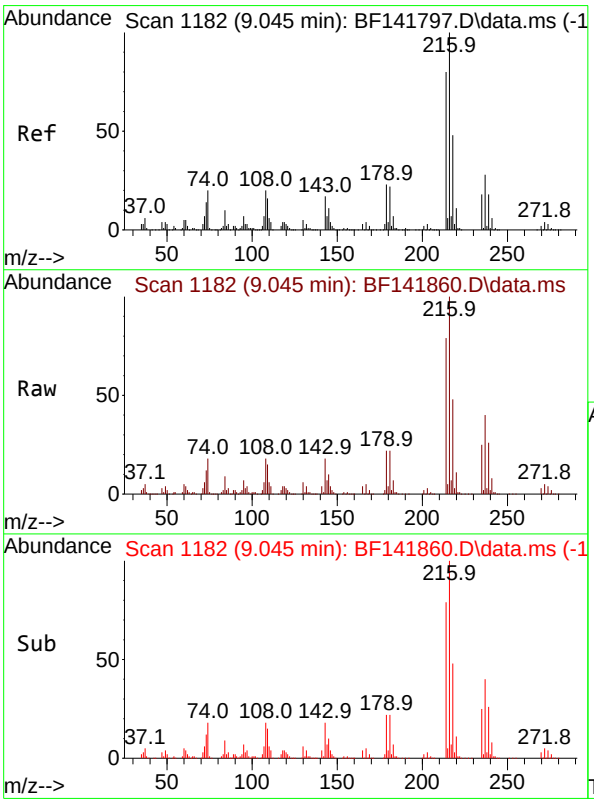

#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:164 Resp: 467040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.3 | 80.6 | 120.8 |
| 160 | 45.9 | 36.3 | 54.5 |

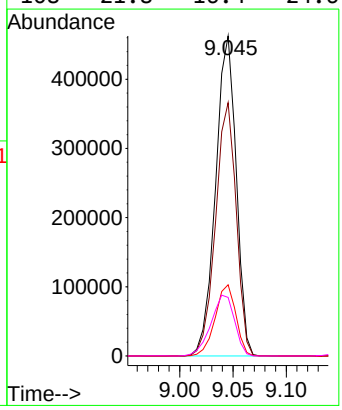


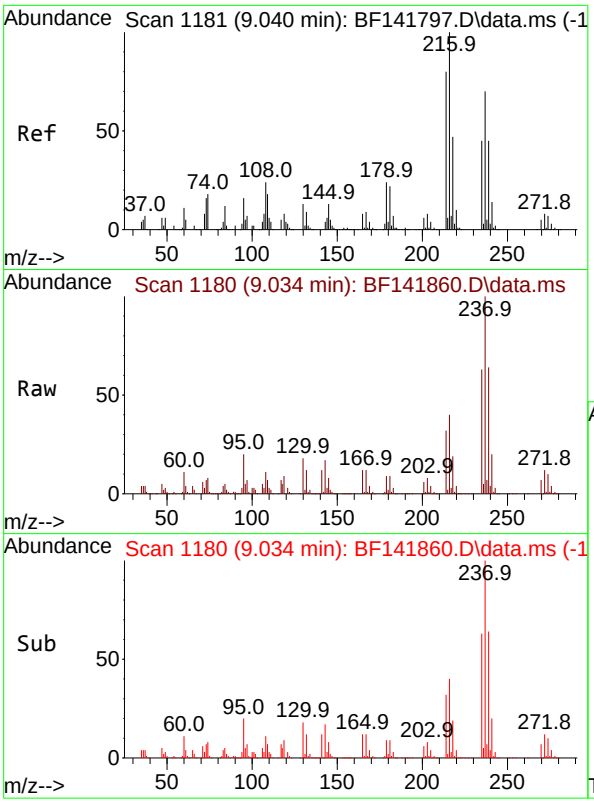




#40
1,2,4,5-Tetrachlorobenzene
Concen: 46.050 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:216 Resp: 621149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 79.2 | 63.5 | 95.3 |
| 179 | 22.4 | 18.1 | 27.1 |
| 108 | 21.8 | 16.4 | 24.6 |



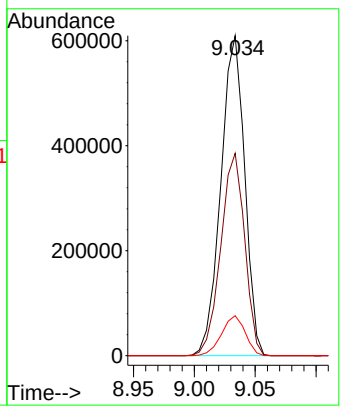


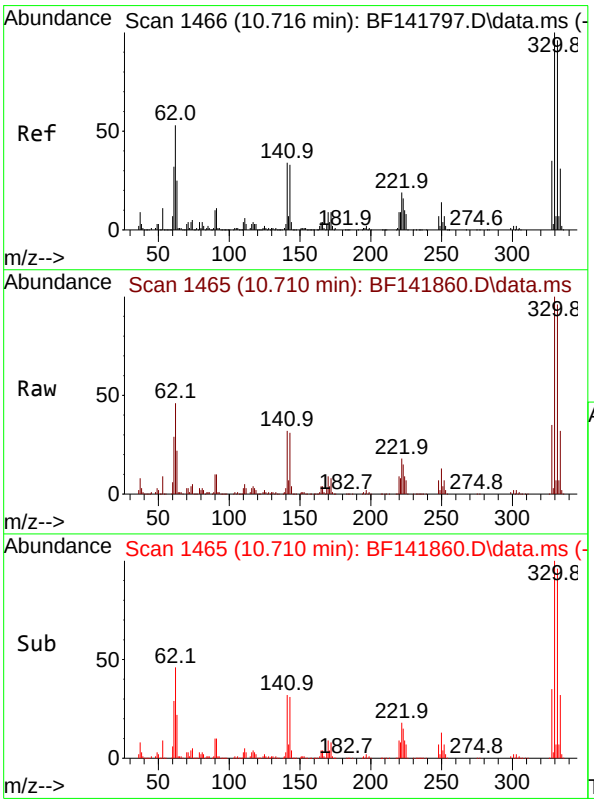

#41
Hexachlorocyclopentadiene
Concen: 147.481 ng
RT: 9.034 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:237 Resp: 830196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 63.3 | 43.3 | 83.3 |
| 272 | 12.5 | 0.0 | 31.9 |

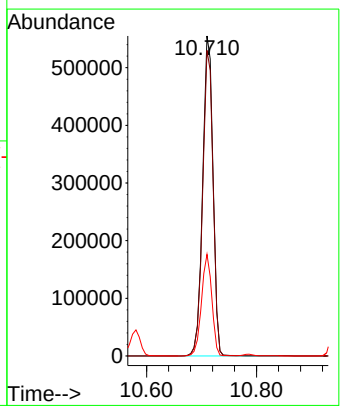


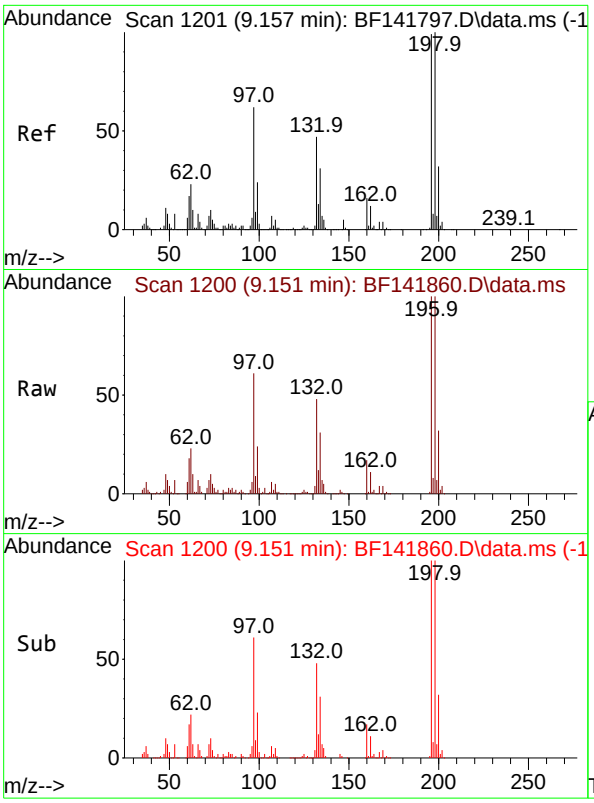




#42
2,4,6-Tribromophenol
Concen: 165.555 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:330 Resp: 725902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.9 | 76.6 | 115.0 |
| 141 | 31.8 | 29.0 | 43.4 |



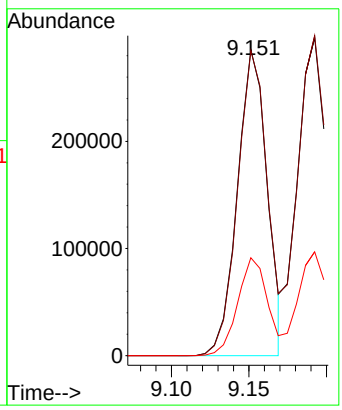


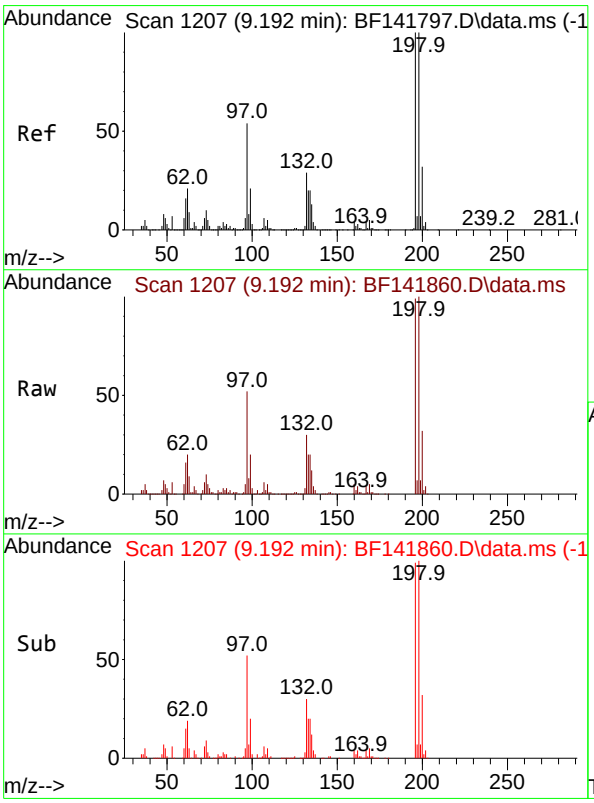

#43
2,4,6-Trichlorophenol
Concen: 43.792 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:196 Resp: 381567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 99.7 | 80.4 | 120.6 |
| 200 | 32.0 | 25.7 | 38.5 |

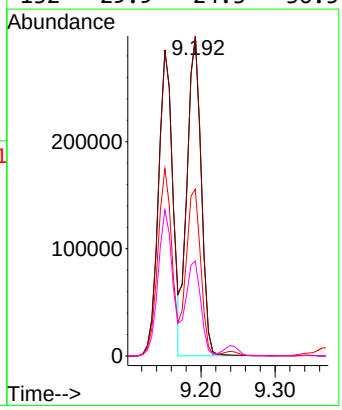


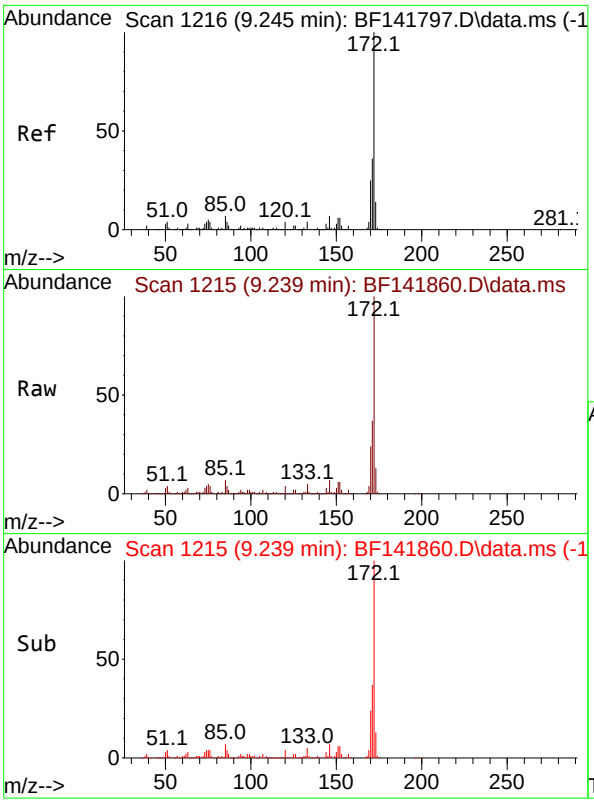




#44
2,4,5-Trichlorophenol
Concen: 45.604 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:196 Resp: 393469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.7 | 79.7 | 119.5 |
| 97 | 52.5 | 44.2 | 66.2 |
| 132 | 29.9 | 24.3 | 36.5 |



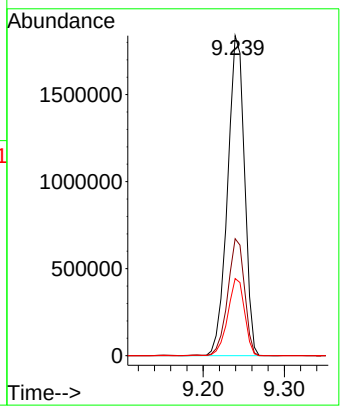


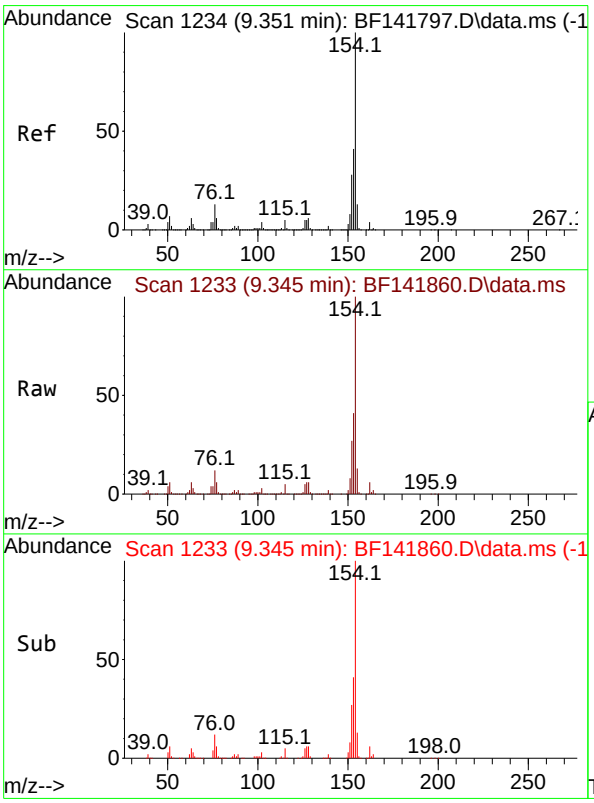

#45
2-Fluorobiphenyl
Concen: 91.306 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:172 Resp: 2659506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 36.6 | 29.2 | 43.8 |
| 170 | 24.1 | 19.7 | 29.5 |

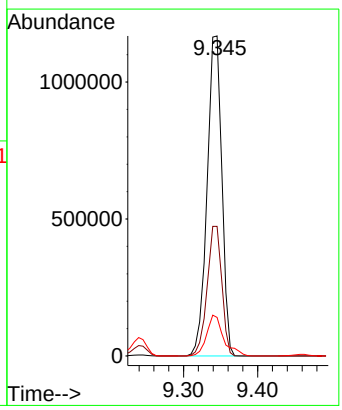


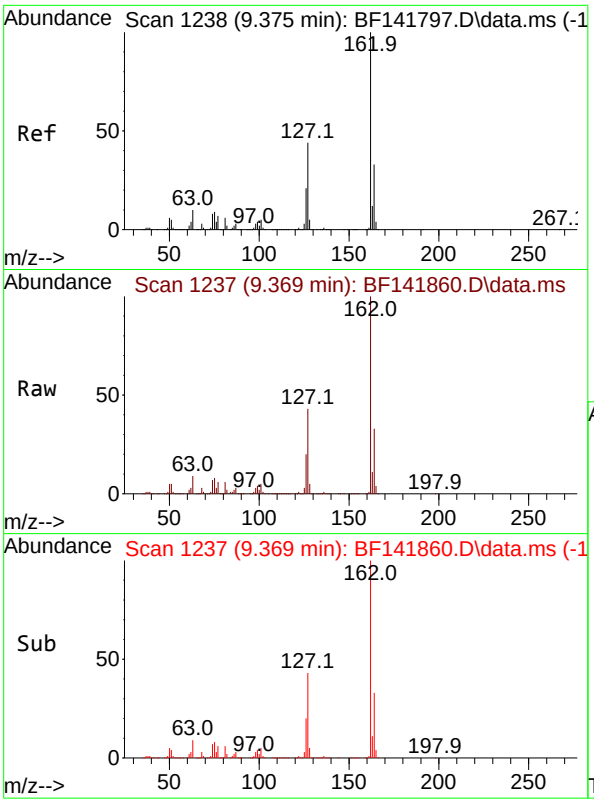




#46
1,1'-Biphenyl
Concen: 45.323 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:154 Resp: 1611215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.5 | 21.4 | 61.4 |
| 76 | 12.0 | 0.0 | 33.4 |



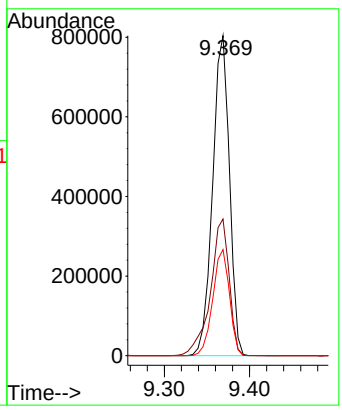


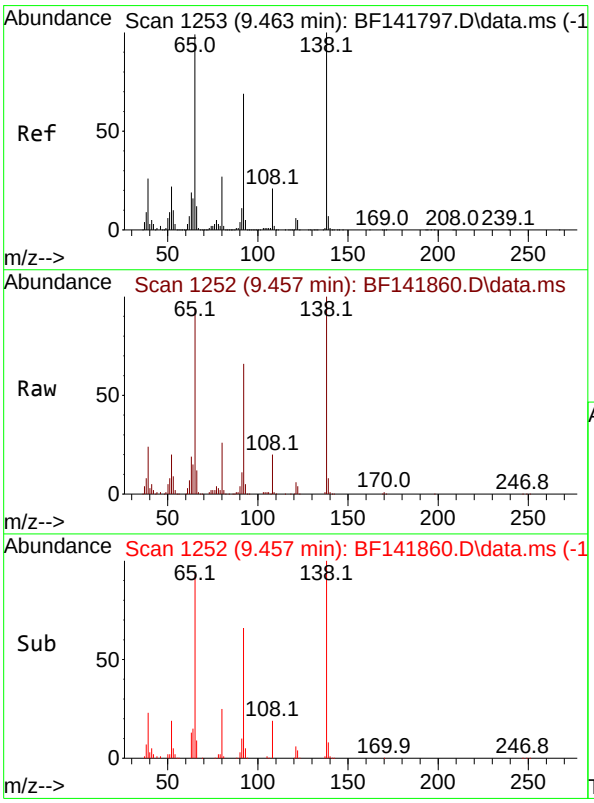

#47
2-Chloronaphthalene
Concen: 41.882 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:162 Resp: 1098889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 42.7 | 35.0 | 52.6 |
| 164 | 33.1 | 26.6 | 40.0 |

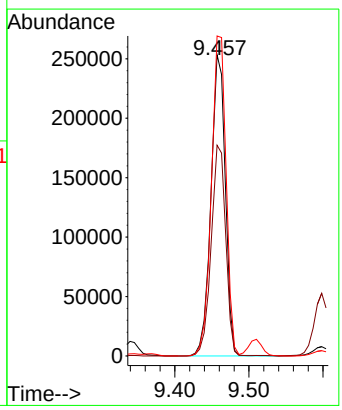


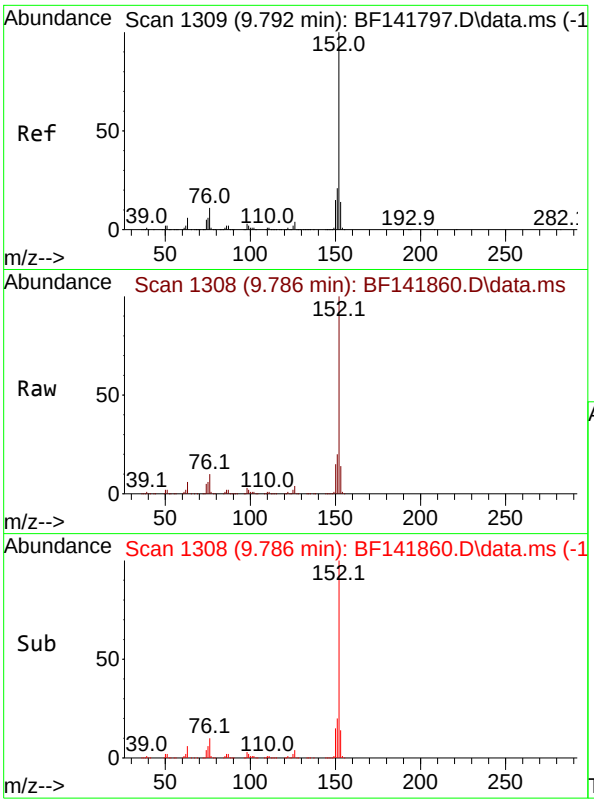




#48
2-Nitroaniline
Concen: 47.626 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 65 Resp: 341789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 70.0 | 55.7 | 83.5 |
| 138 | 106.3 | 80.6 | 121.0 |



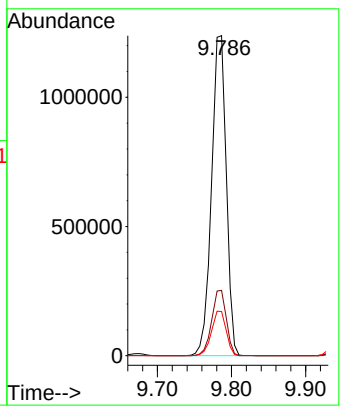


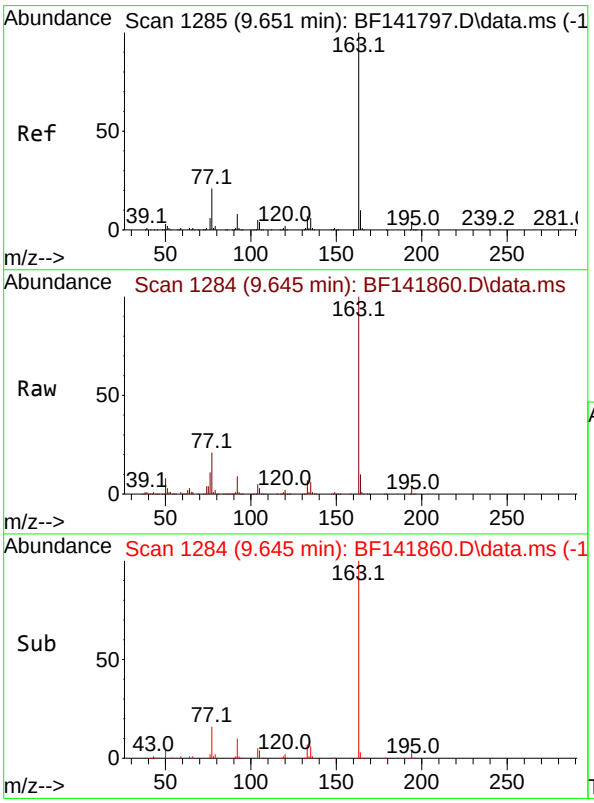

#49
Acenaphthylene
Concen: 43.557 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:152 Resp: 1713470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.6 | 24.8 |
| 153 | 13.8 | 11.2 | 16.8 |

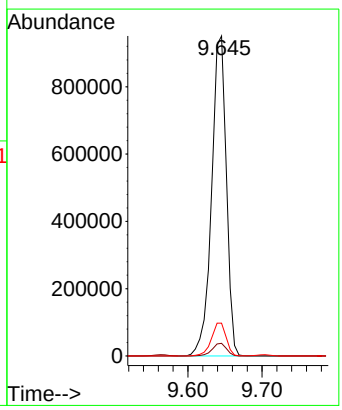


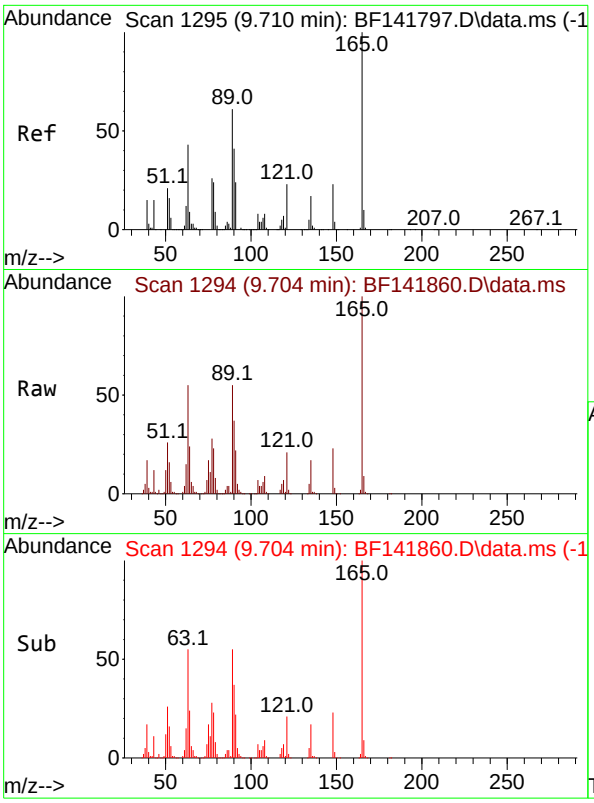




#50
Dimethylphthalate
Concen: 42.006 ng
RT: 9.645 min Scan# 1284
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:163 Resp: 1313815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.0 | 3.1 | 4.7 |
| 164 | 10.2 | 8.4 | 12.6 |



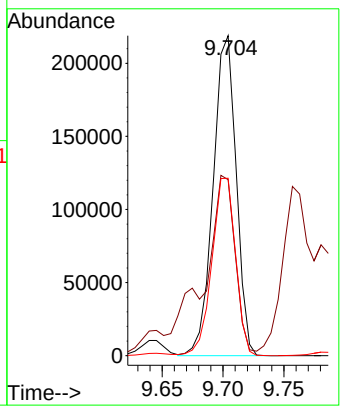


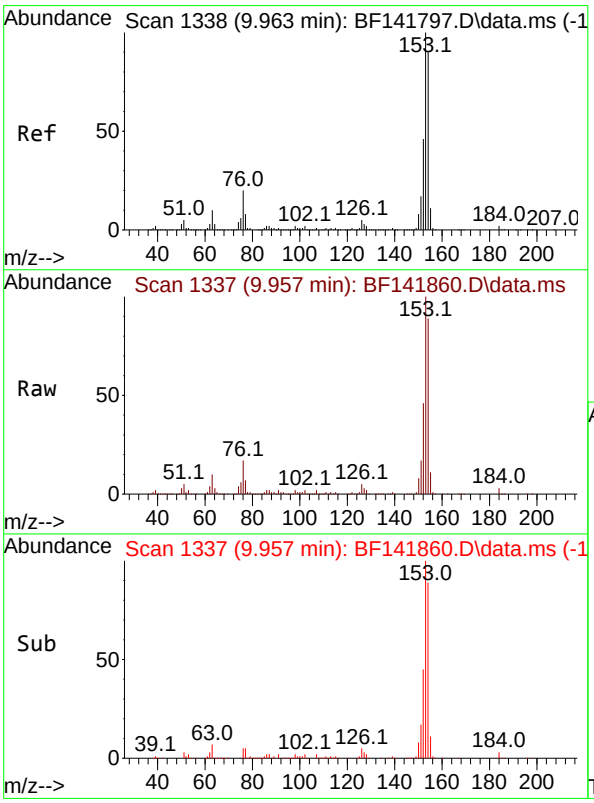

#51
2,6-Dinitrotoluene
Concen: 48.247 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:165 Resp: 288768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 55.0 | 49.5 | 74.3 |
| 89 | 55.5 | 49.0 | 73.4 |

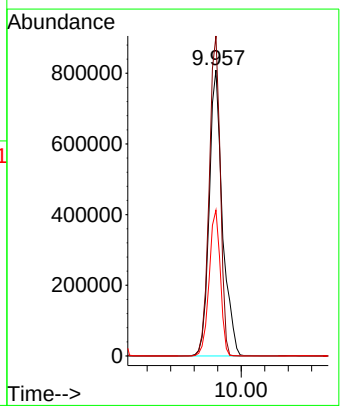


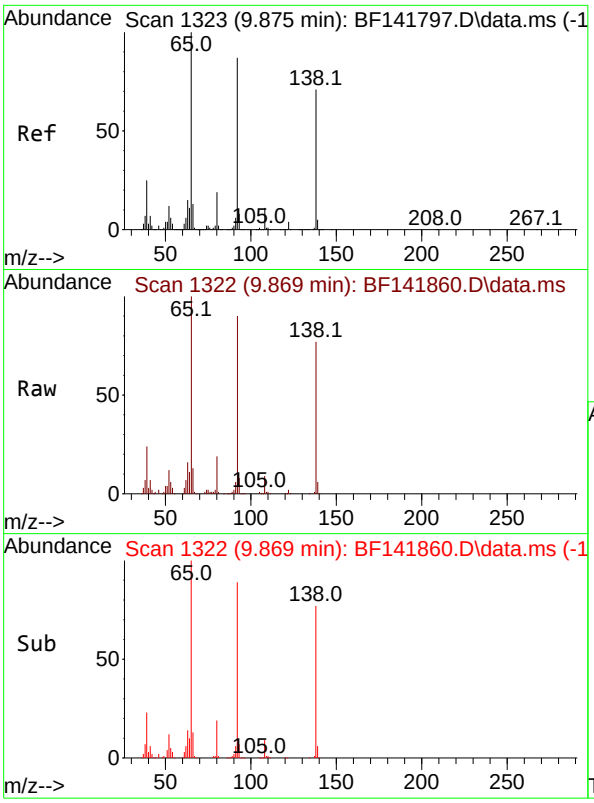




#52
Acenaphthene
Concen: 47.702 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:154 Resp: 1266215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 111.9 | 88.7 | 133.1 |
| 152 | 51.0 | 40.9 | 61.3 |



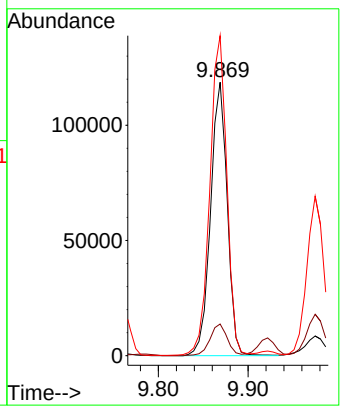


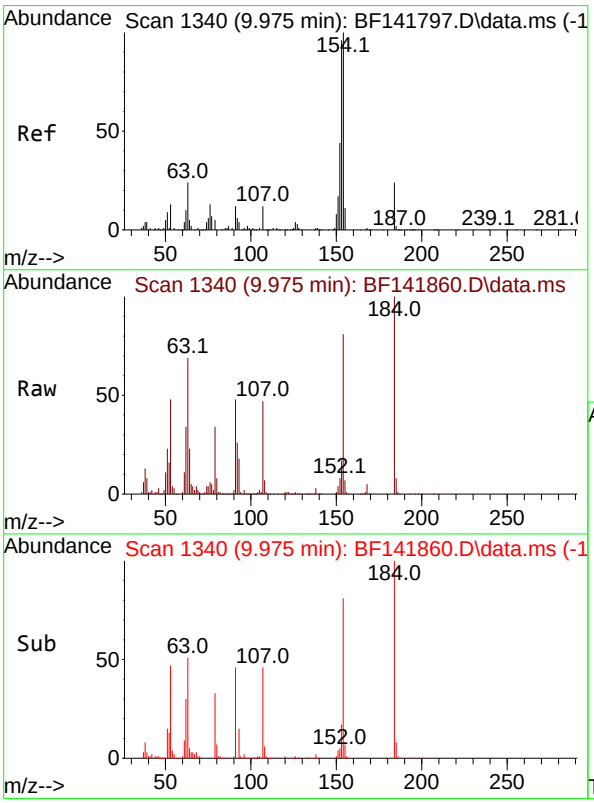

#53
3-Nitroaniline
Concen: 25.520 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:138 Resp: 153204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.6 | 12.7 | 19.1# |
| 92 | 117.0 | 97.9 | 146.9 |

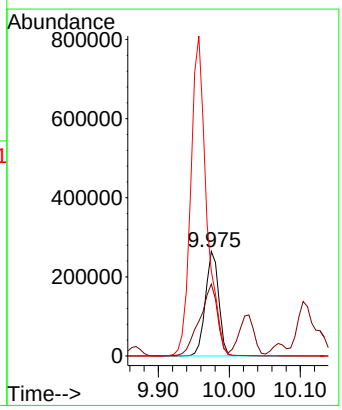


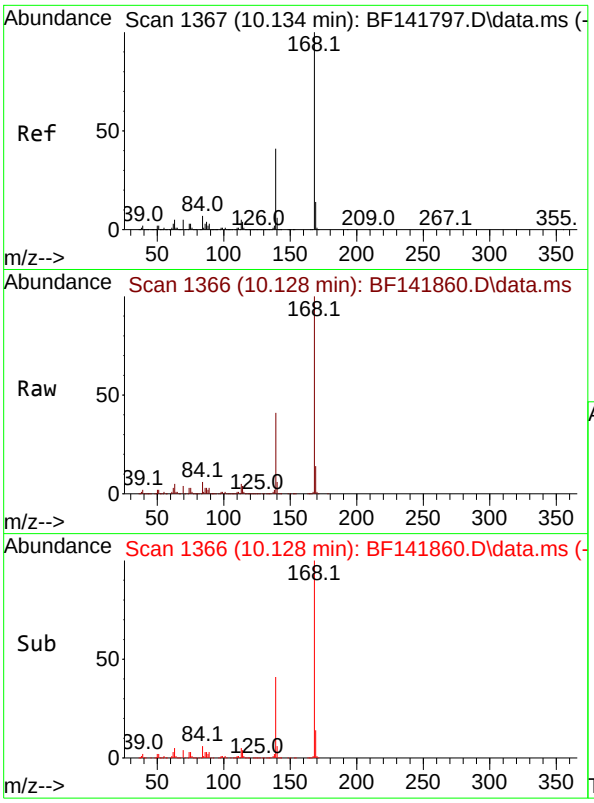




#54
2,4-Dinitrophenol
Concen: 111.084 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:184 Resp: 346122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 68.9 | 79.0 | 118.6# |
| 154 | 81.2 | 335.8 | 503.8# |



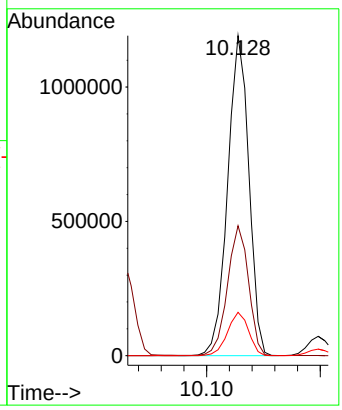


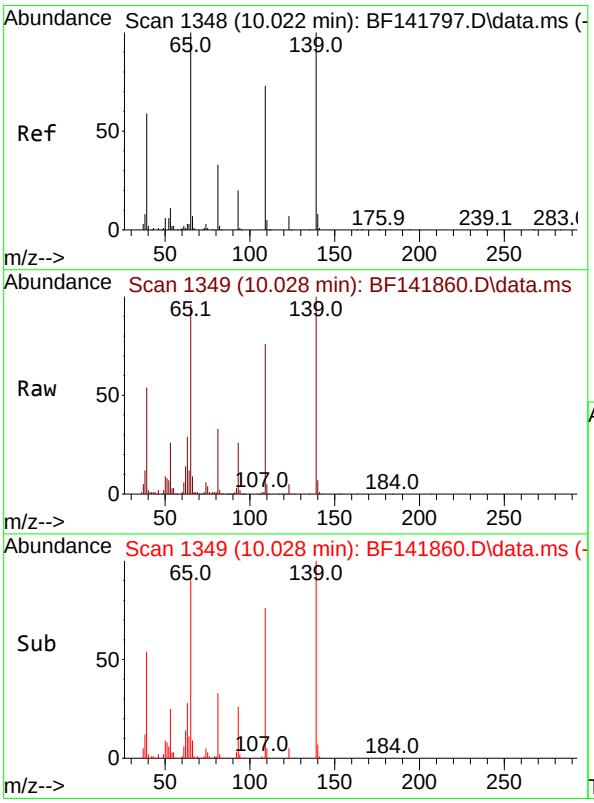

#55
Dibenzofuran
Concen: 39.970 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:168 Resp: 1544243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 40.6 | 32.9 | 49.3 |
| 169 | 13.5 | 11.1 | 16.7 |

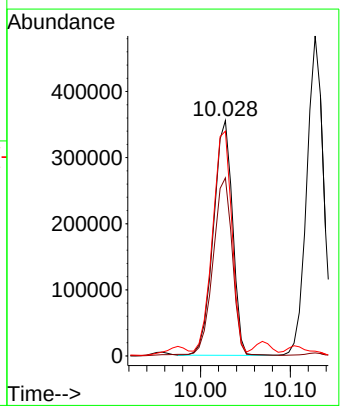


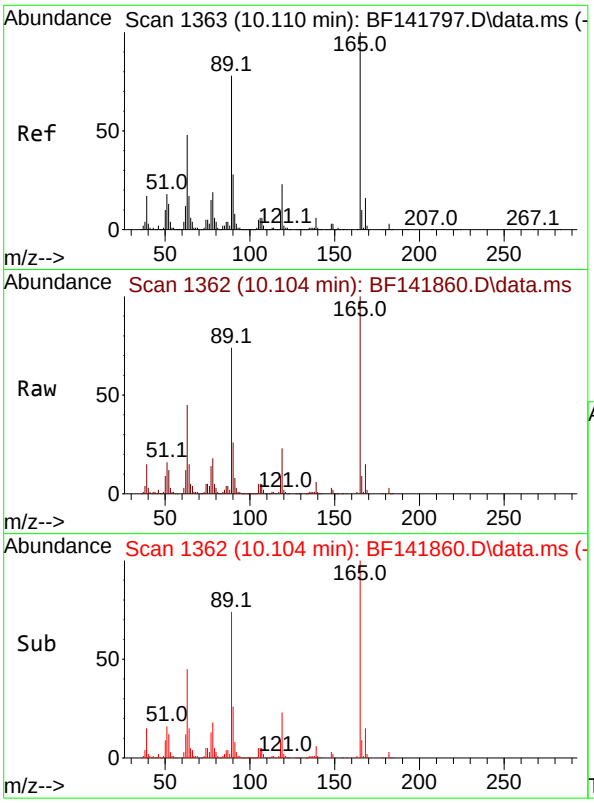




#56
4-Nitrophenol
Concen: 113.842 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:139 Resp: 525883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 75.6 | 53.4 | 93.4 |
| 65 | 95.5 | 82.1 | 122.1 |



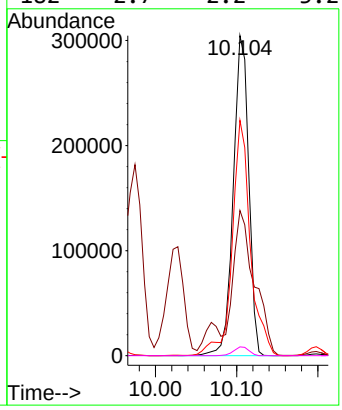


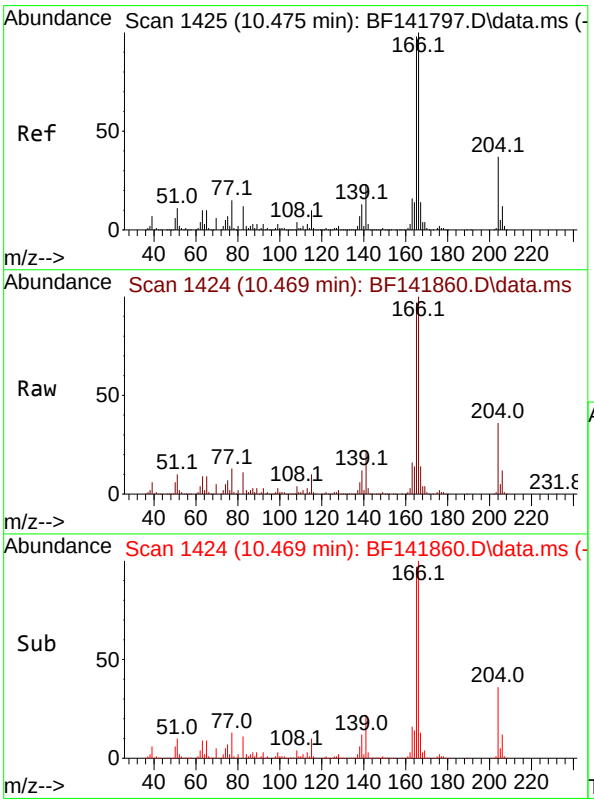

#57
2,4-Dinitrotoluene
Concen: 54.446 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:165 Resp: 401637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 45.3 | 38.8 | 58.2 |
| 89 | 73.6 | 62.6 | 94.0 |
| 182 | 2.7 | 2.2 | 3.2 |

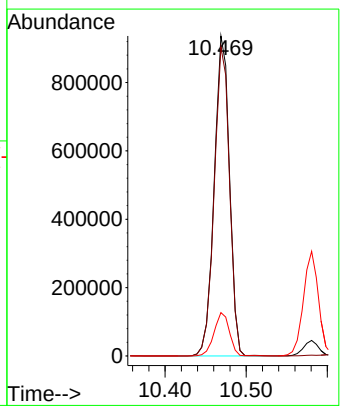


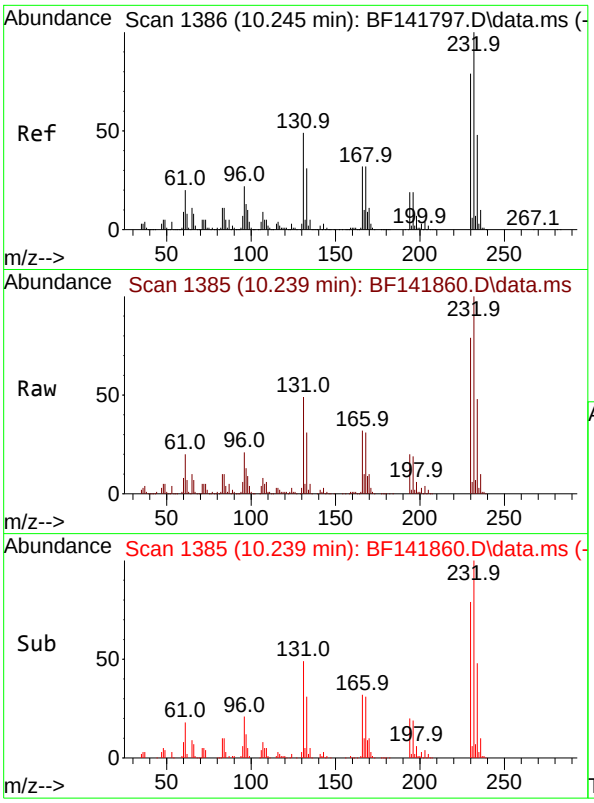




#58
Fluorene
Concen: 42.376 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:166 Resp: 1226351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 96.5 | 78.6 | 117.8 |
| 167 | 13.5 | 11.0 | 16.4 |



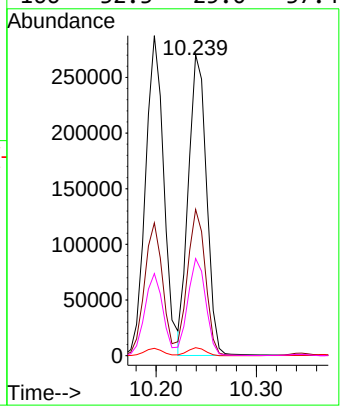


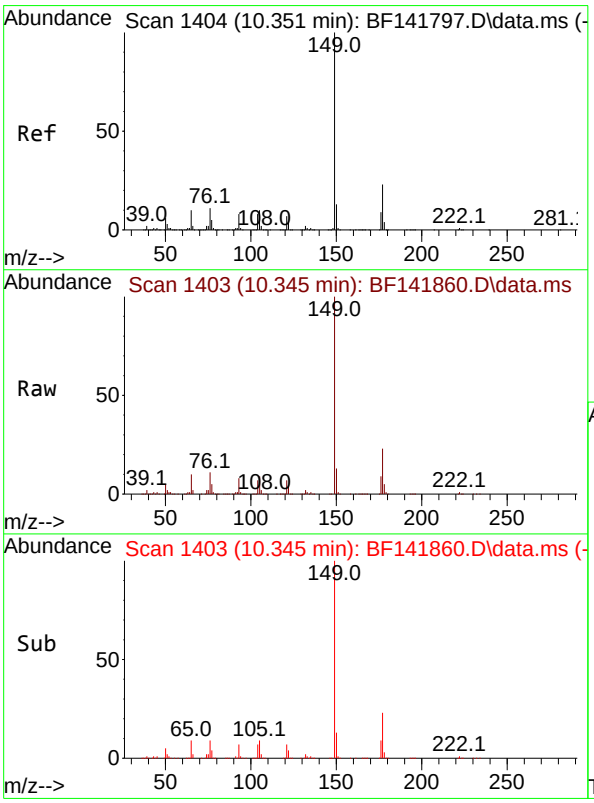

#59
2,3,4,6-Tetrachlorophenol
Concen: 45.070 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:232 Resp: 338195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 48.4 | 37.8 | 56.8 |
| 130 | 2.6 | 2.0 | 3.0 |
| 166 | 32.3 | 25.0 | 37.4 |

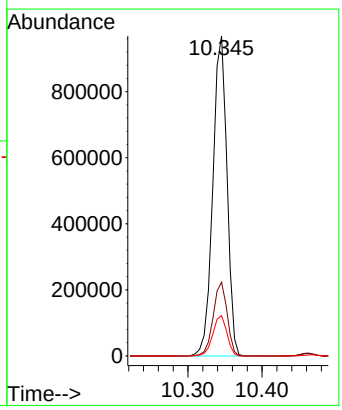


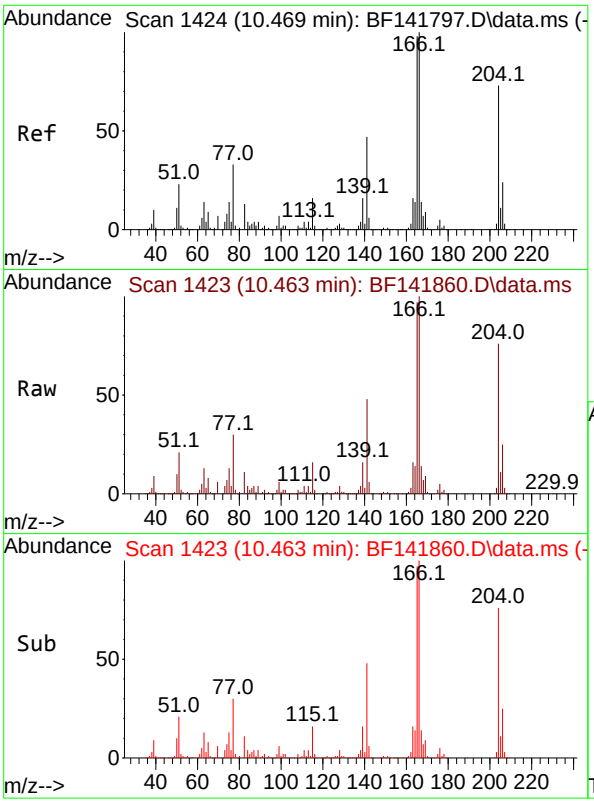




#60
Diethylphthalate
Concen: 40.869 ng
RT: 10.345 min Scan# 1403
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:149 Resp: 1281425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 23.0 | 18.3 | 27.5 |
| 150 | 12.6 | 10.3 | 15.5 |



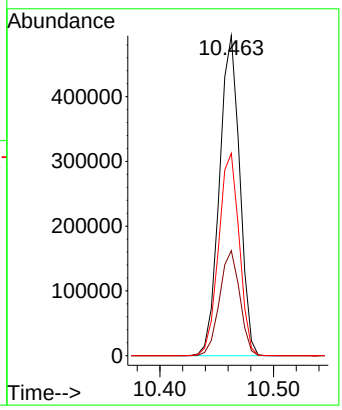


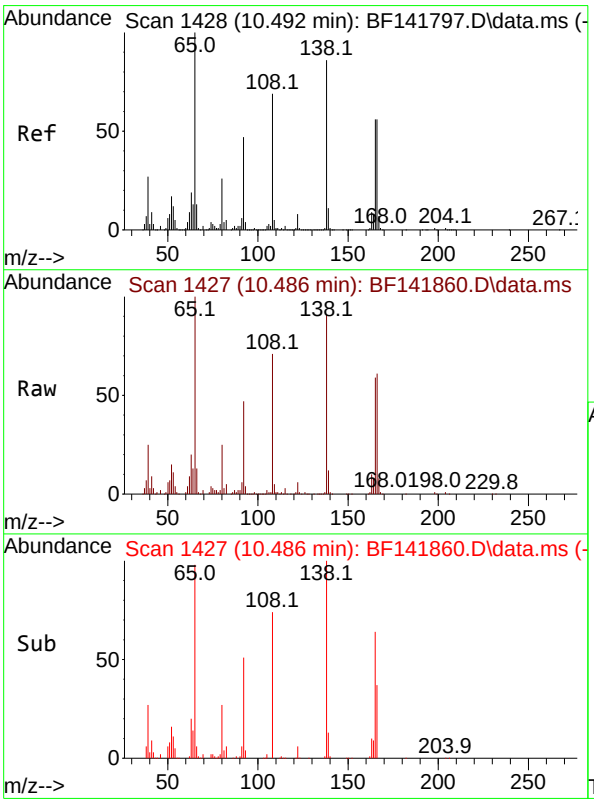

#61
4-Chlorophenyl-phenylether
Concen: 42.256 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:204 Resp: 612702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.8 | 26.2 | 39.4 |
| 141 | 63.3 | 51.7 | 77.5 |

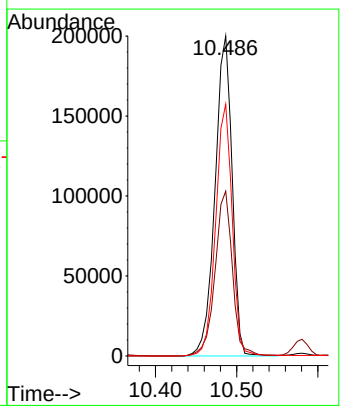


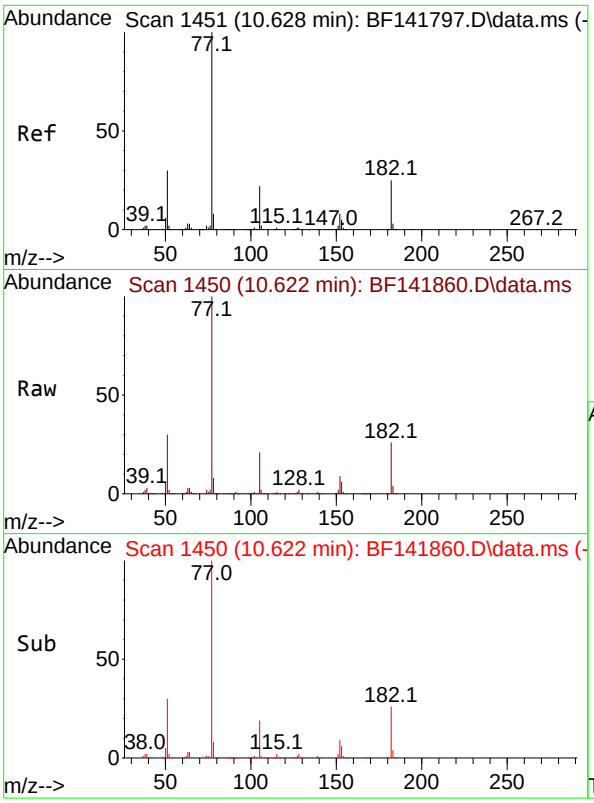




#62
4-Nitroaniline
Concen: 54.897 ng
RT: 10.486 min Scan# 1427
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:138 Resp: 293220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 51.5 | 34.9 | 74.9 |
| 108 | 78.7 | 59.6 | 99.6 |



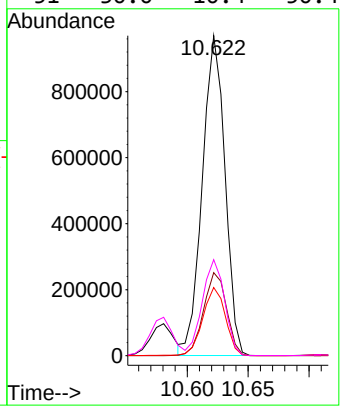


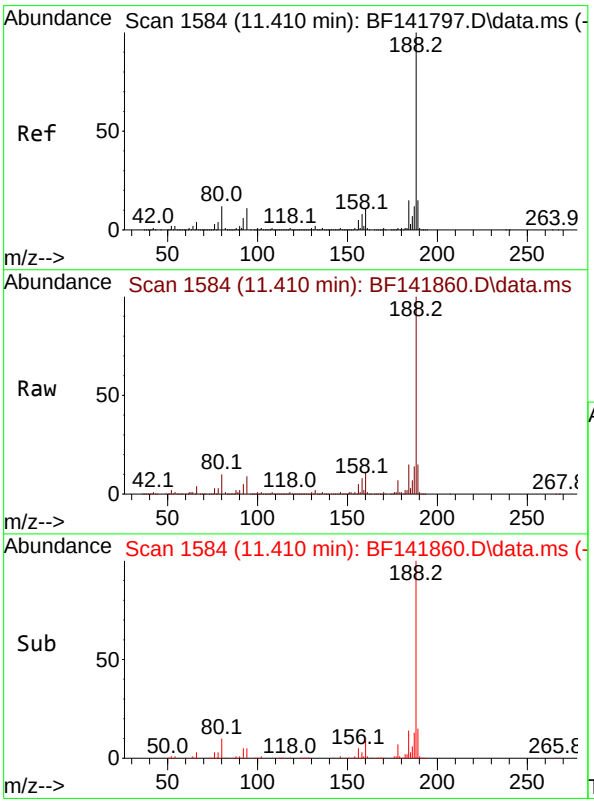

#63
Azobenzene
Concen: 37.955 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion: 77 Resp: 1253041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 25.9 | 4.2 | 44.2 |
| 105 | 21.3 | 1.5 | 41.5 |
| 51 | 30.0 | 10.4 | 50.4 |

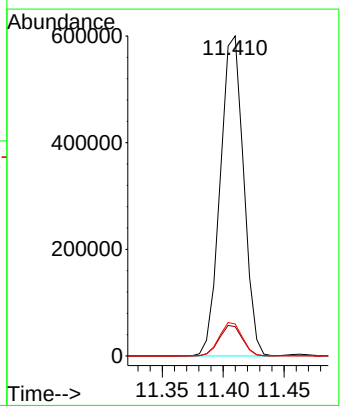


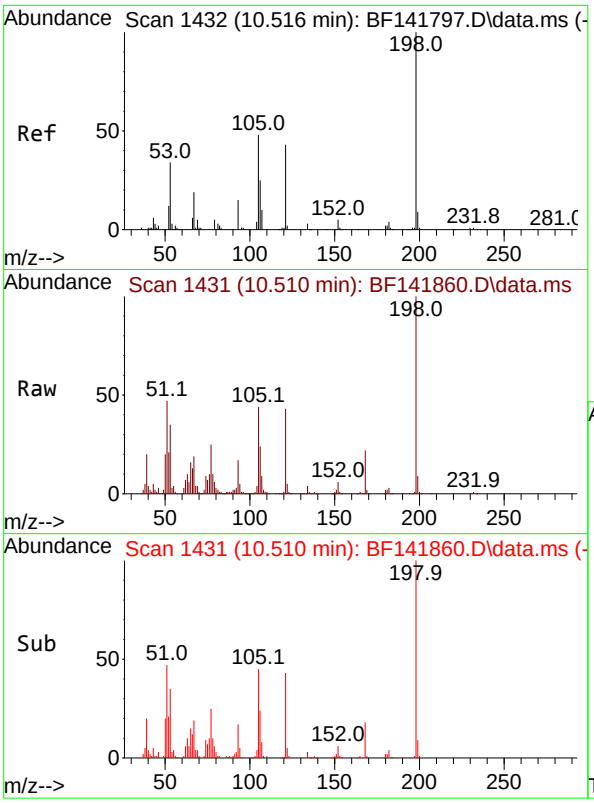




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:188 Resp: 801941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 9.1 | 8.9 | 13.3 |
| 80 | 10.0 | 9.7 | 14.5 |



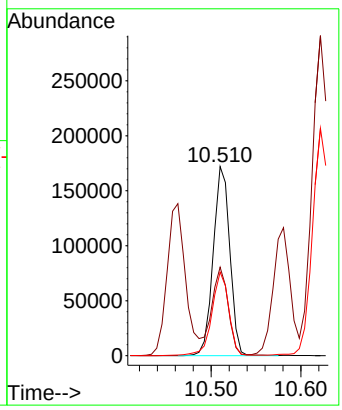


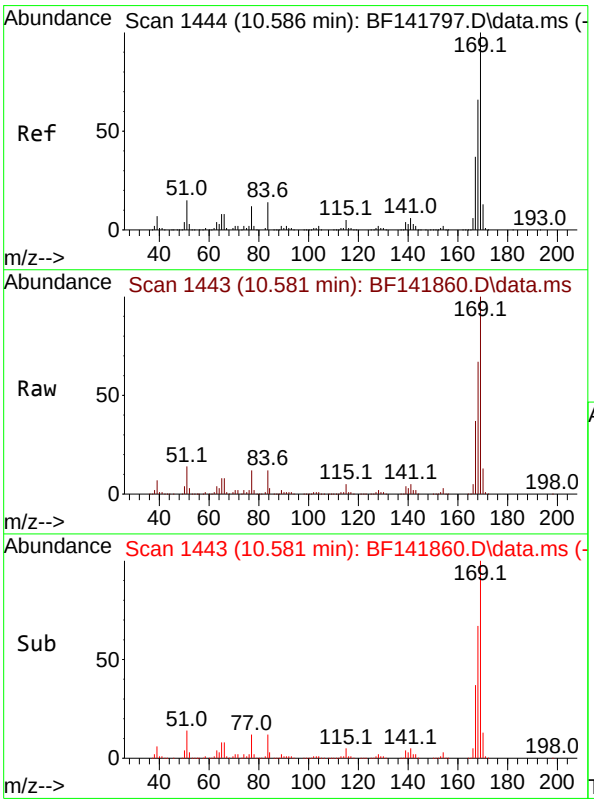

#65
4,6-Dinitro-2-methylphenol
Concen: 56.697 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:198 Resp: 220801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 46.8 | 32.1 | 72.1 |
| 105 | 44.2 | 28.5 | 68.5 |

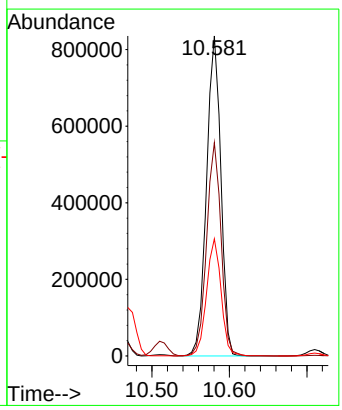


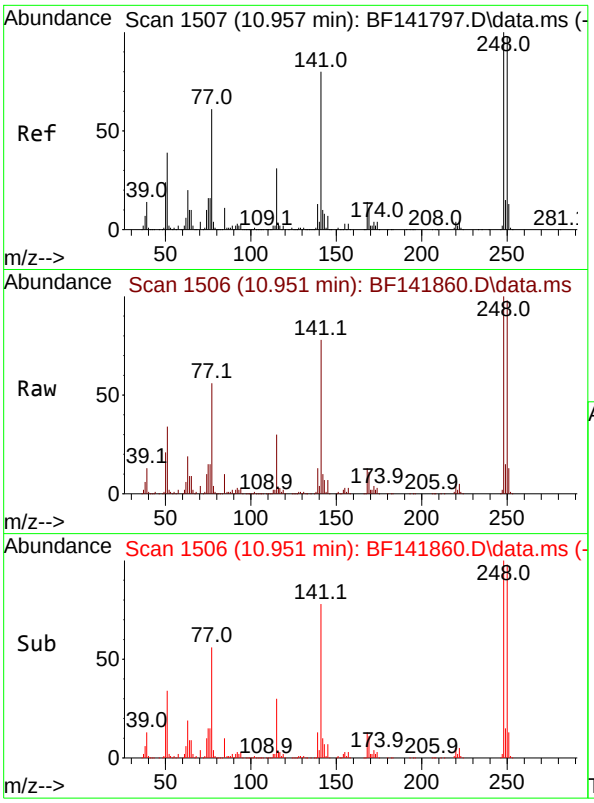




#66
n-Nitrosodiphenylamine
Concen: 40.709 ng
RT: 10.581 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:169 Resp: 1071992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.6 | 53.0 | 79.6 |
| 167 | 36.6 | 29.3 | 43.9 |



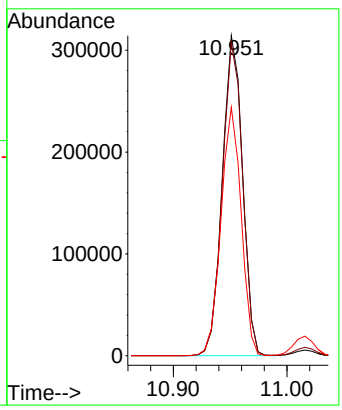


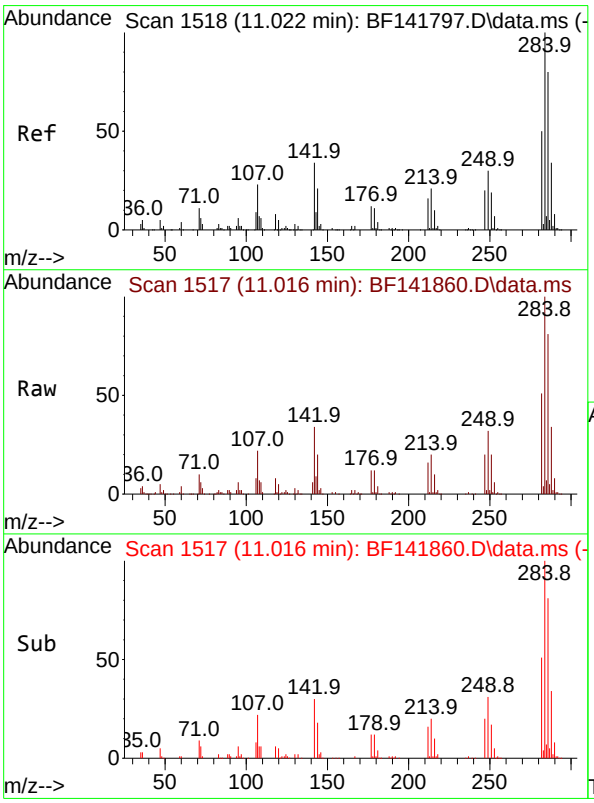

#67
4-Bromophenyl-phenylether
Concen: 41.818 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:248 Resp: 391710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.8 | 78.1 | 117.1 |
| 141 | 77.6 | 64.3 | 96.5 |

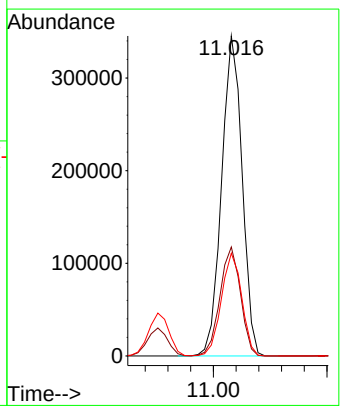


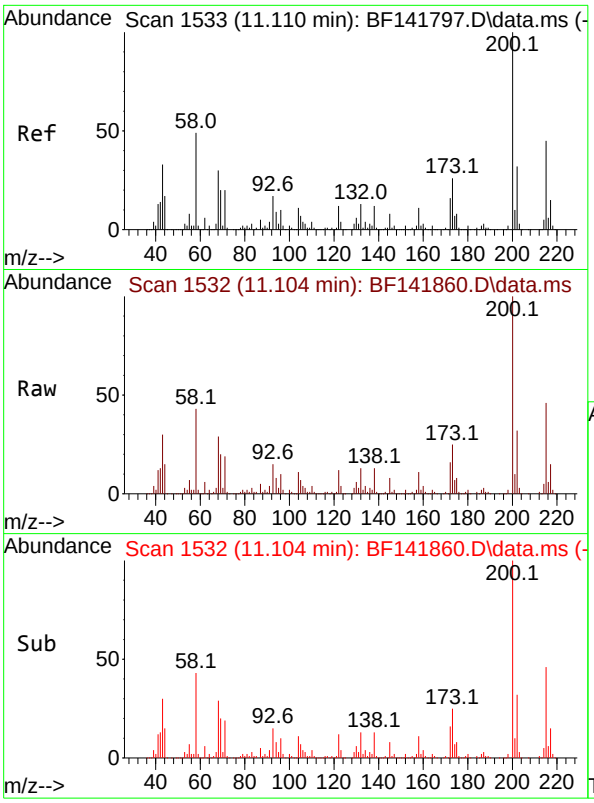




#68
Hexachlorobenzene
Concen: 43.759 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:284 Resp: 432837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 34.0 | 28.2 | 42.2 |
| 249 | 32.1 | 25.5 | 38.3 |



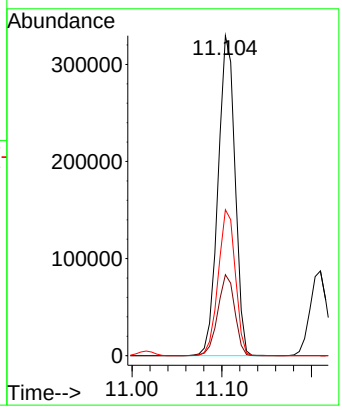


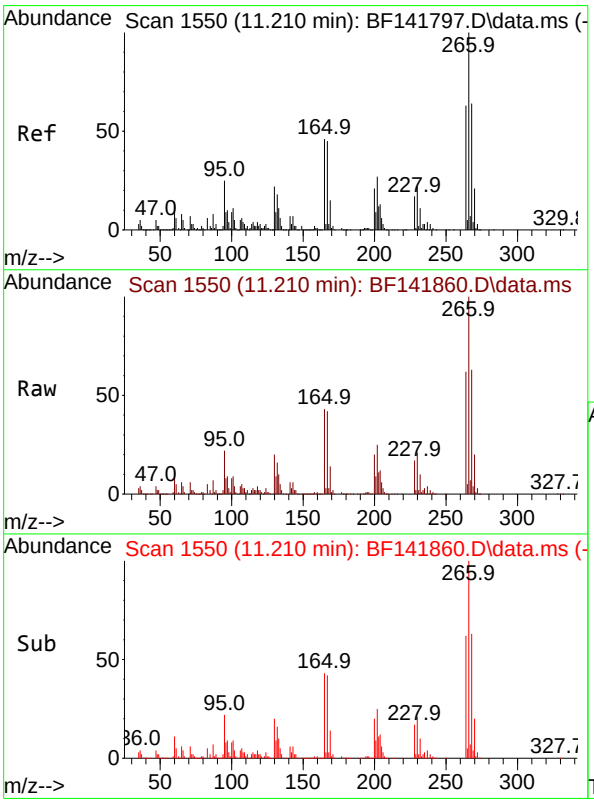

#69
Atrazine
Concen: 59.829 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:200 Resp: 433249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.3 | 5.6 | 45.6 |
| 215 | 45.6 | 25.3 | 65.3 |

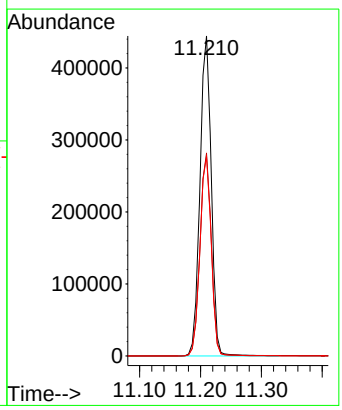


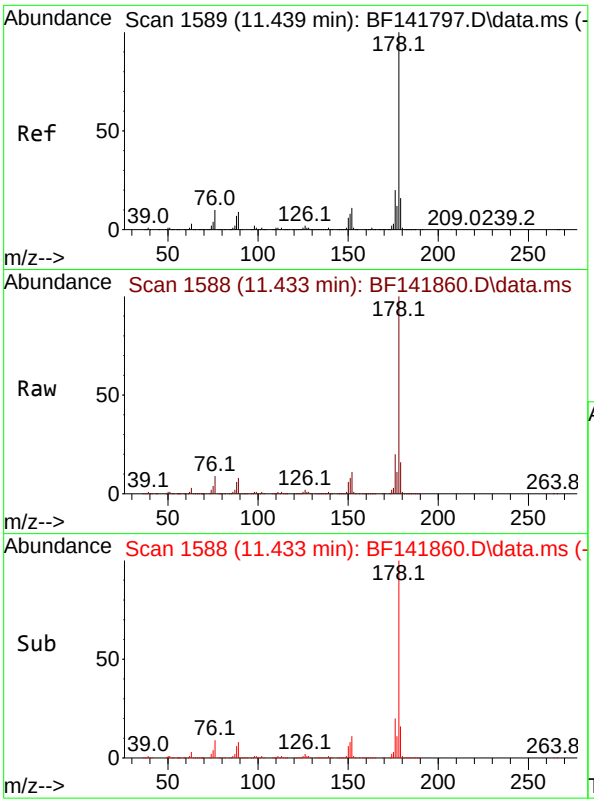




#70
Pentachlorophenol
Concen: 91.516 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:266 Resp: 574113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 63.3 | 50.9 | 76.3 |
| 264 | 62.4 | 50.2 | 75.4 |



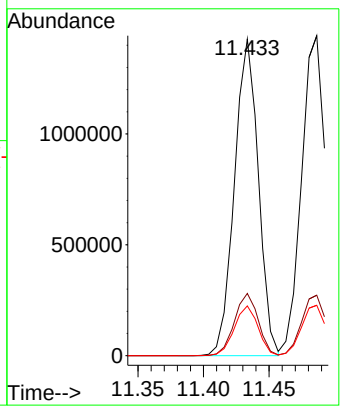


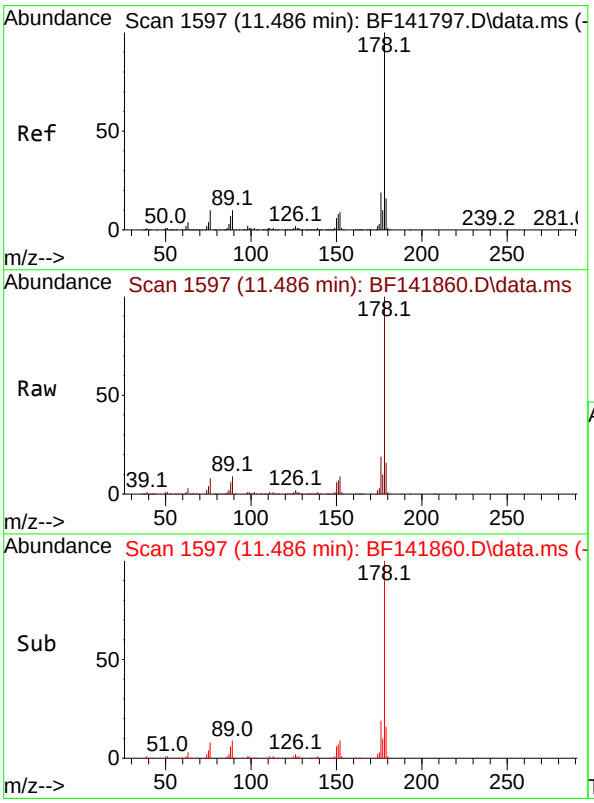

#71
Phenanthrene
Concen: 42.258 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:178 Resp: 1812700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.7 | 16.0 | 24.0 |
| 179 | 15.7 | 12.6 | 19.0 |

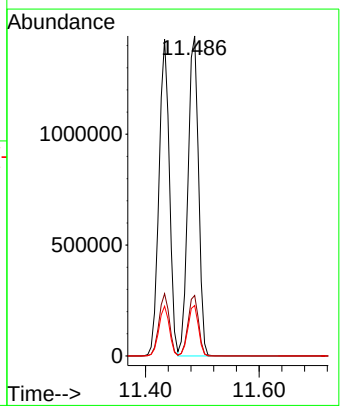


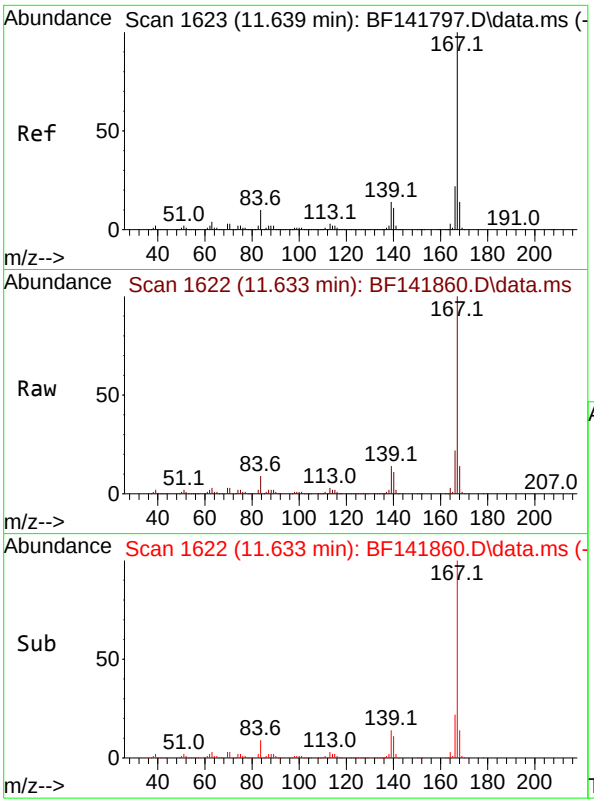




#72
Anthracene
Concen: 43.146 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:178 Resp: 1854922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.9 | 15.4 | 23.0 |
| 179 | 15.8 | 12.8 | 19.2 |



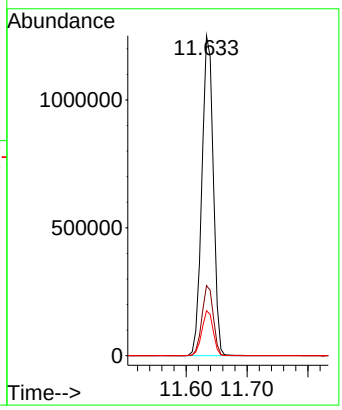


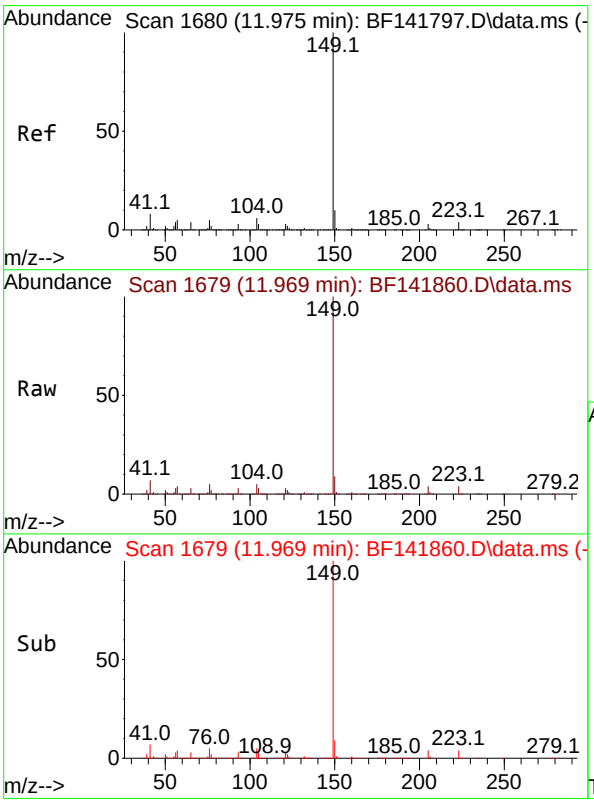

#73
Carbazole
Concen: 43.058 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:167 Resp: 1634694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.9 | 17.5 | 26.3 |
| 139 | 14.0 | 11.3 | 16.9 |

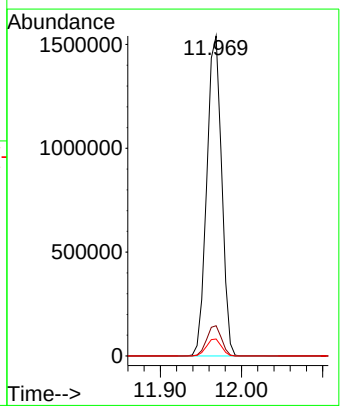


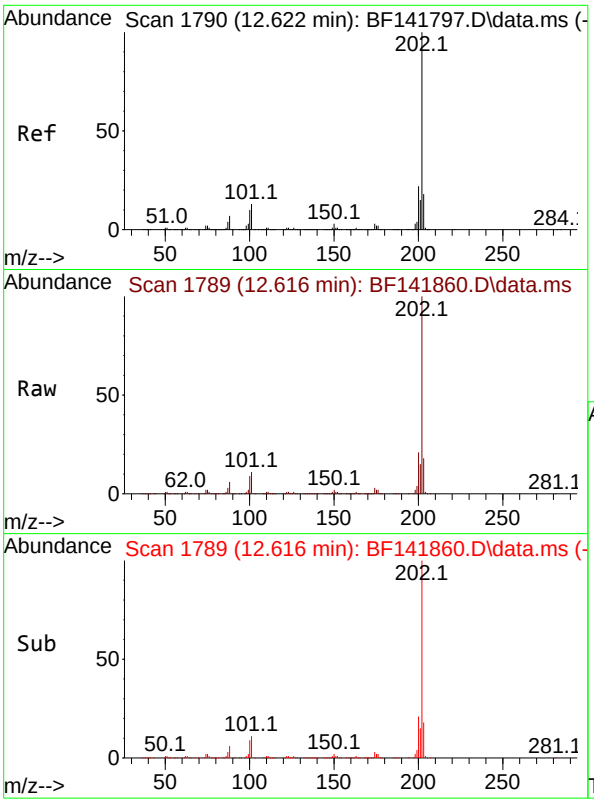




#74
Di-n-butylphthalate
Concen: 40.557 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:149 Resp: 1951706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.5 | 7.7 | 11.5 |
| 104 | 5.3 | 4.4 | 6.6 |



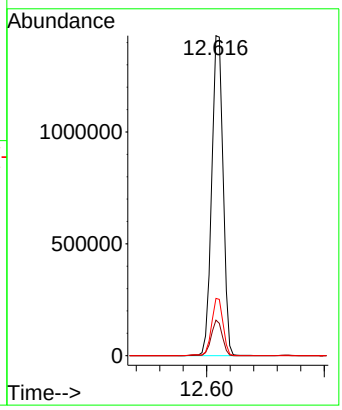


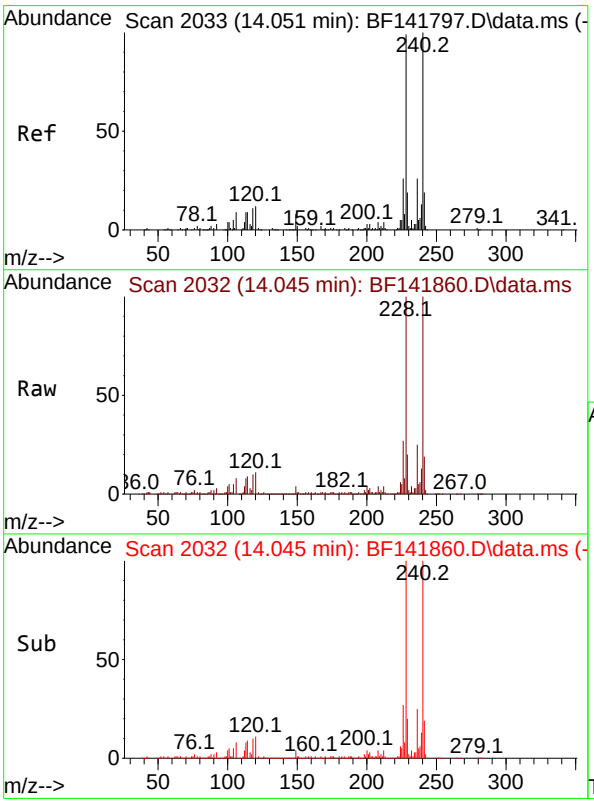

#75
Fluoranthene
Concen: 43.749 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:202 Resp: 1922924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.1 | 0.0 | 32.8 |
| 203 | 17.9 | 0.0 | 38.0 |

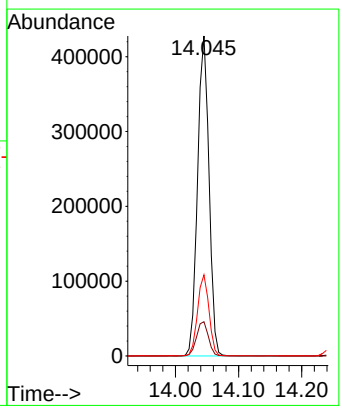


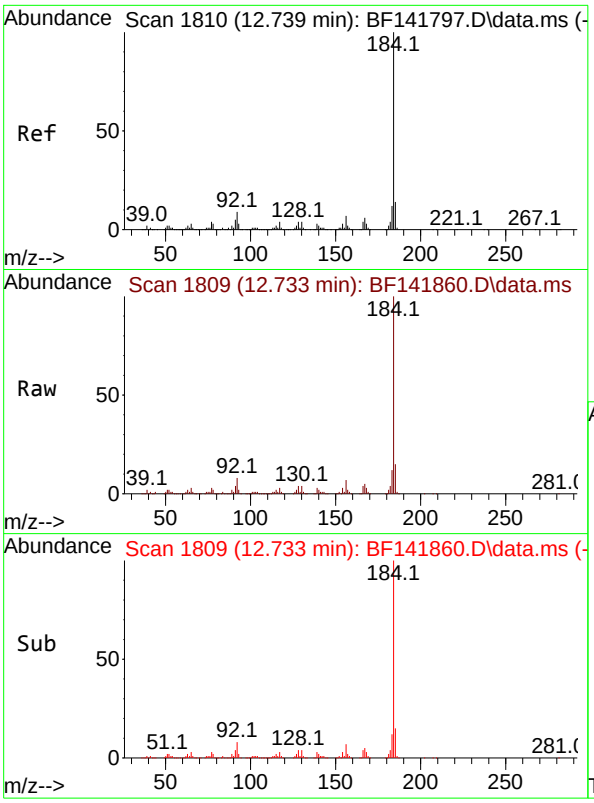




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:240 Resp: 537472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 10.7 | 9.7 | 14.5 |
| 236 | 25.3 | 21.0 | 31.4 |



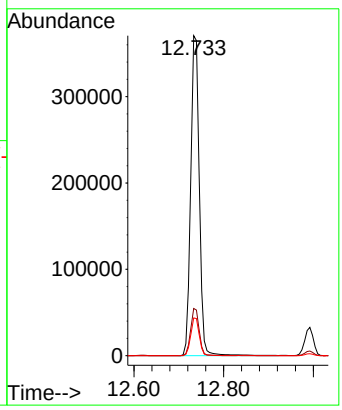


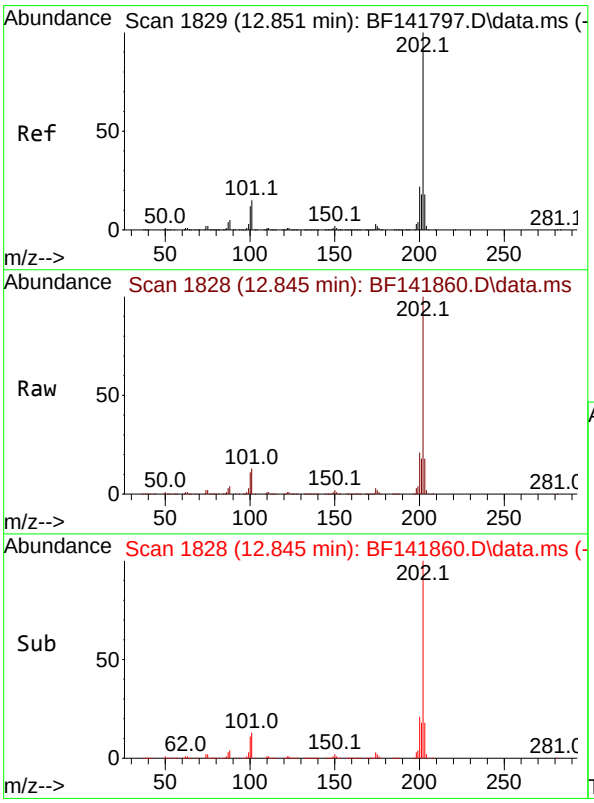

#77
Benzidine
Concen: 72.902 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:184 Resp: 493167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.7 | 11.6 | 17.4 |
| 183 | 11.8 | 9.4 | 14.0 |

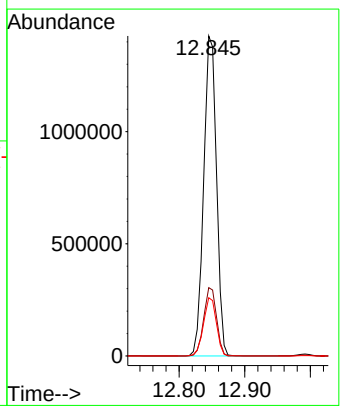


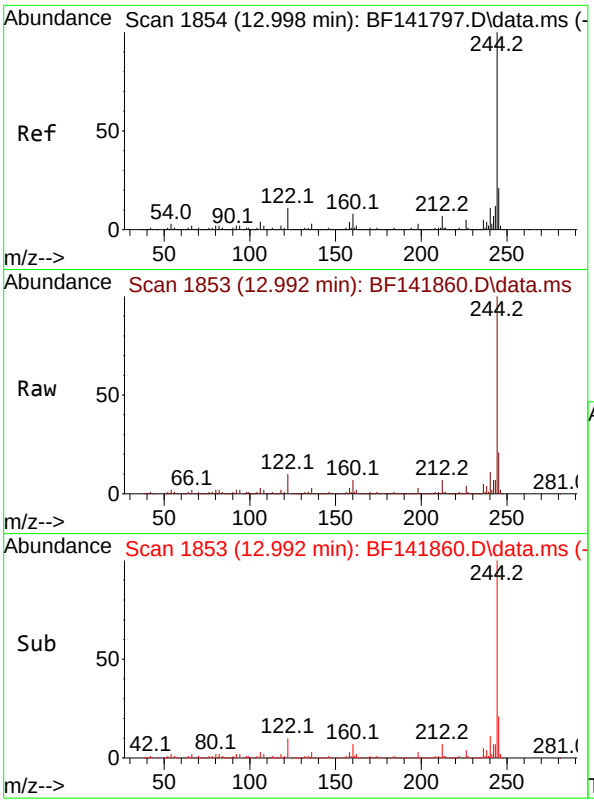




#78
Pyrene
Concen: 41.714 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:202 Resp: 1941461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 17.4 | 26.0 |
| 203 | 18.2 | 14.6 | 22.0 |



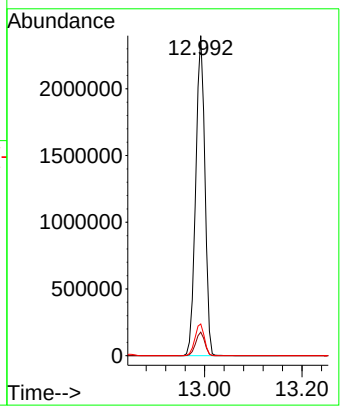


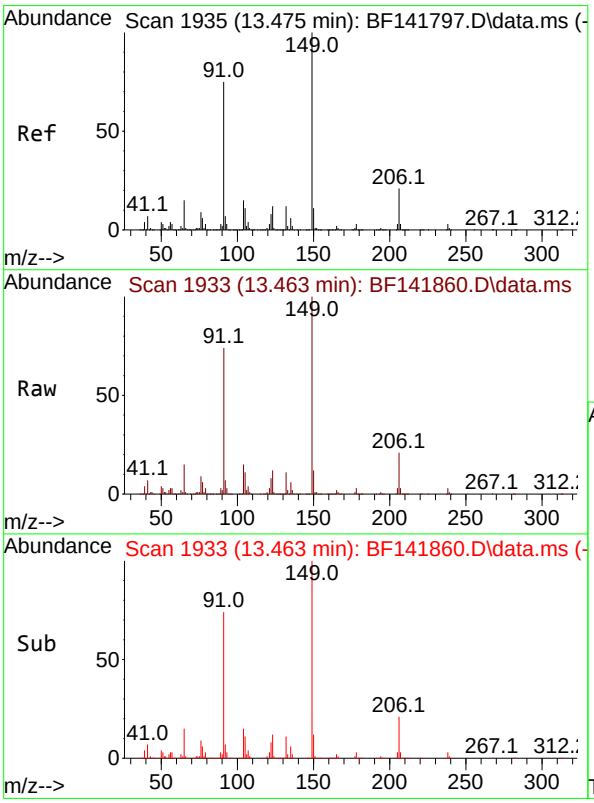

#79
Terphenyl-d14
Concen: 94.941 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:244 Resp: 3153921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.3 | 6.0 | 9.0 |
| 122 | 9.9 | 9.0 | 13.6 |

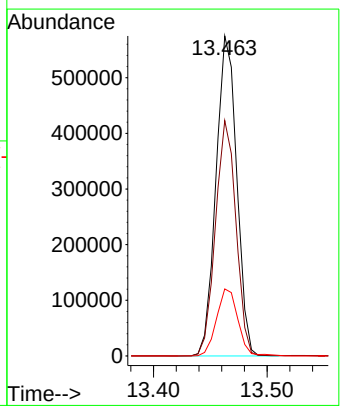


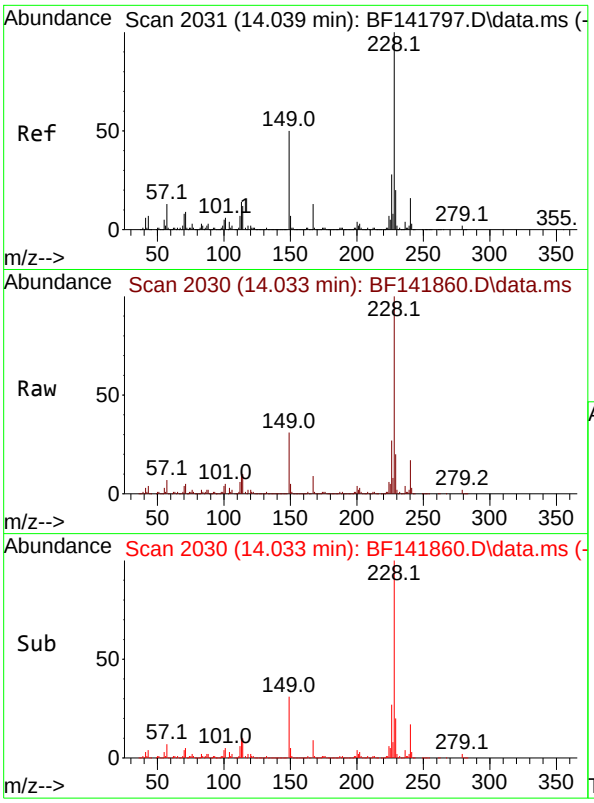




#80
Butylbenzylphthalate
Concen: 43.184 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:149 Resp: 730230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 73.6 | 60.1 | 90.1 |
| 206 | 20.9 | 16.8 | 25.2 |



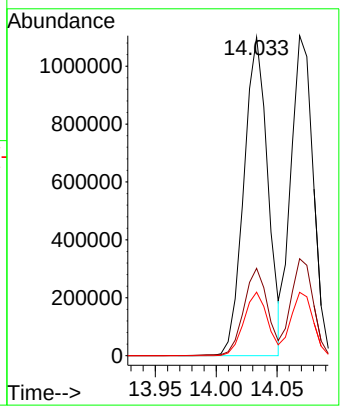


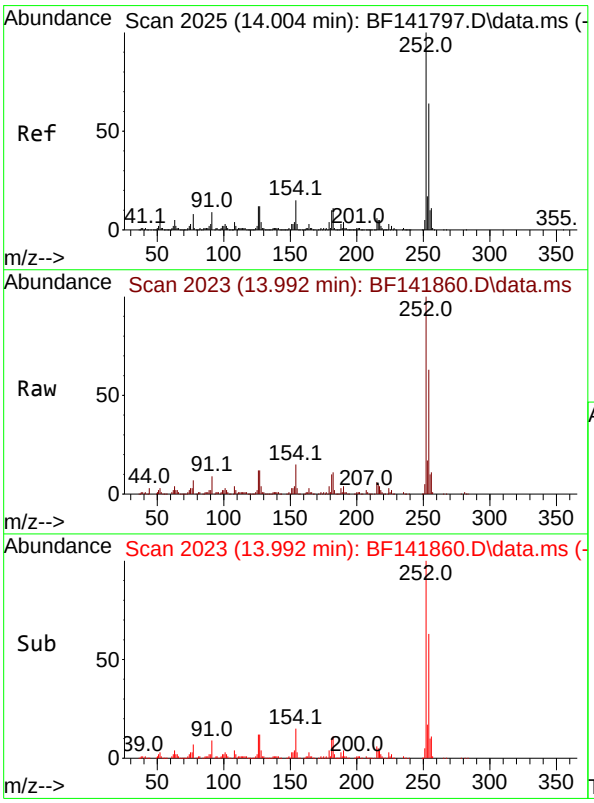

#81
Benzo(a)anthracene
Concen: 42.445 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:228 Resp: 1506856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.4 | 22.1 | 33.1 |
| 229 | 19.9 | 16.1 | 24.1 |

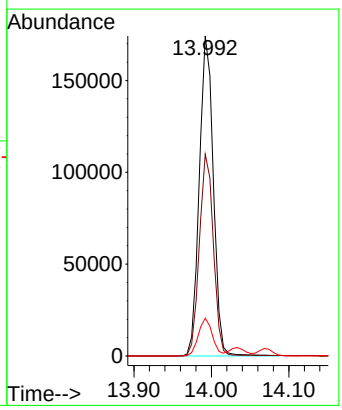


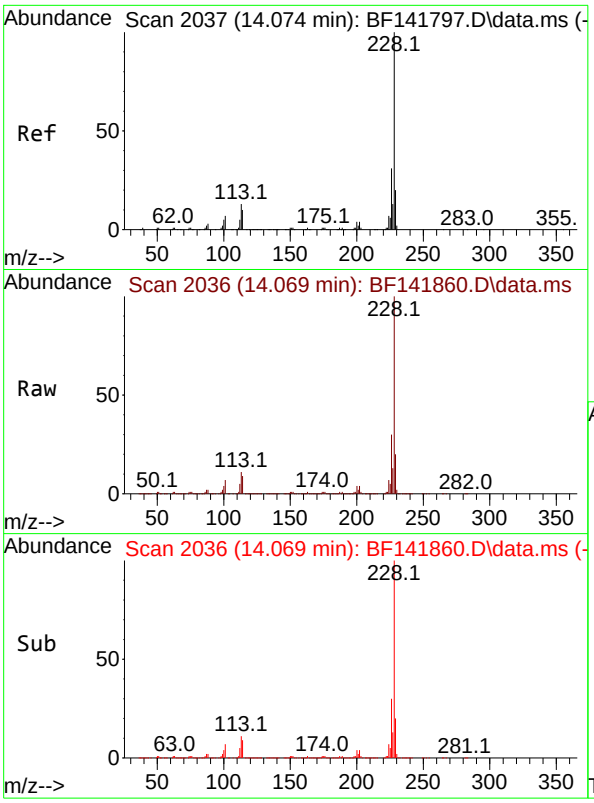




#82
3,3'-Dichlorobenzidine
Concen: 21.565 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:252 Resp: 219648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 63.1 | 51.4 | 77.0 |
| 126 | 11.8 | 9.8 | 14.6 |



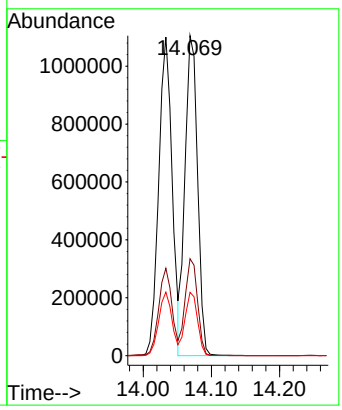


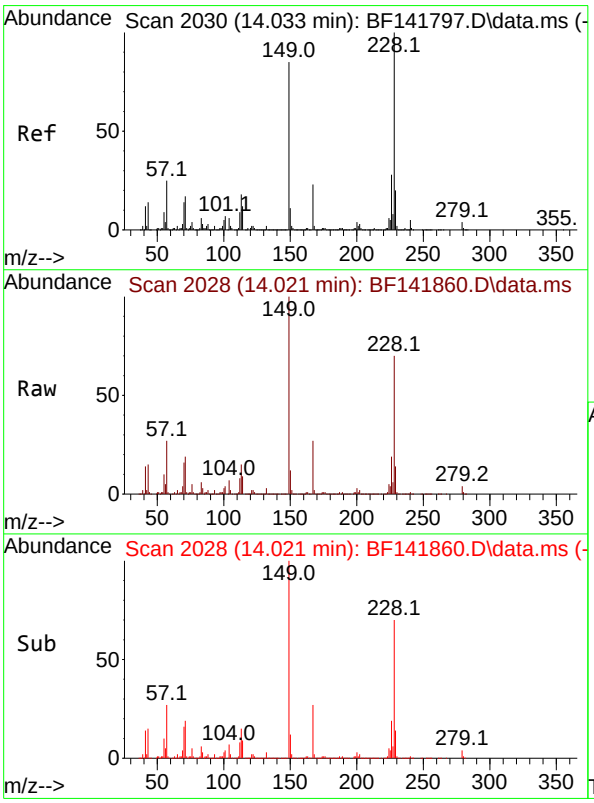

#83
Chrysene
Concen: 42.886 ng
RT: 14.069 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:228 Resp: 1403466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.3 | 24.6 | 37.0 |
| 229 | 19.8 | 16.1 | 24.1 |

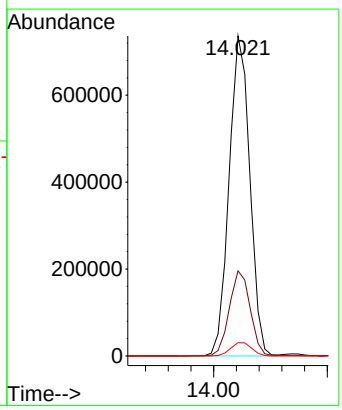


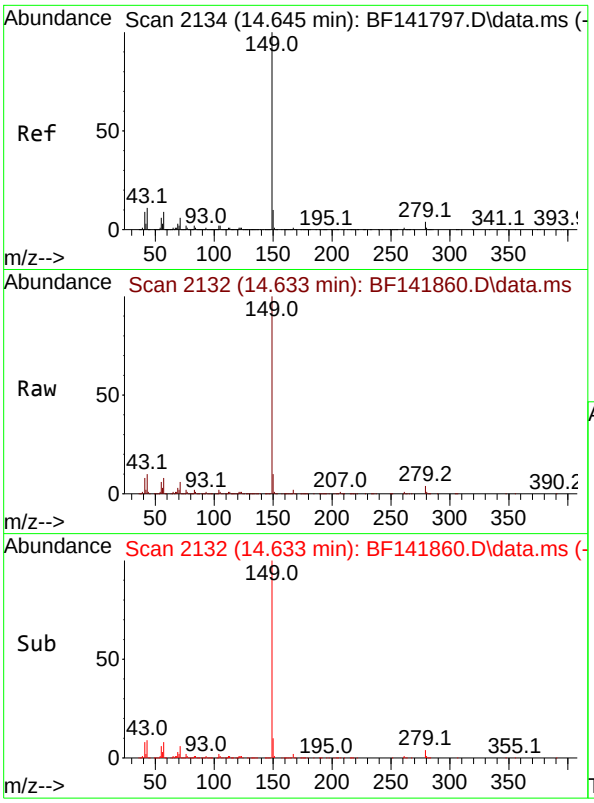




#84
Bis(2-ethylhexyl)phthalate
Concen: 44.285 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:149 Resp: 932426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.6 | 21.2 | 31.8 |
| 279 | 4.1 | 3.3 | 4.9 |



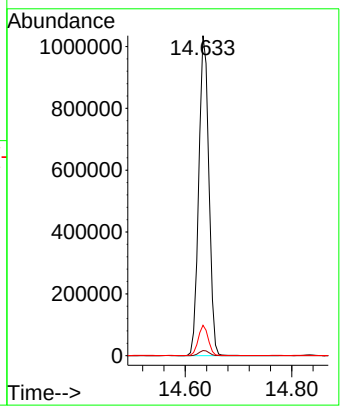


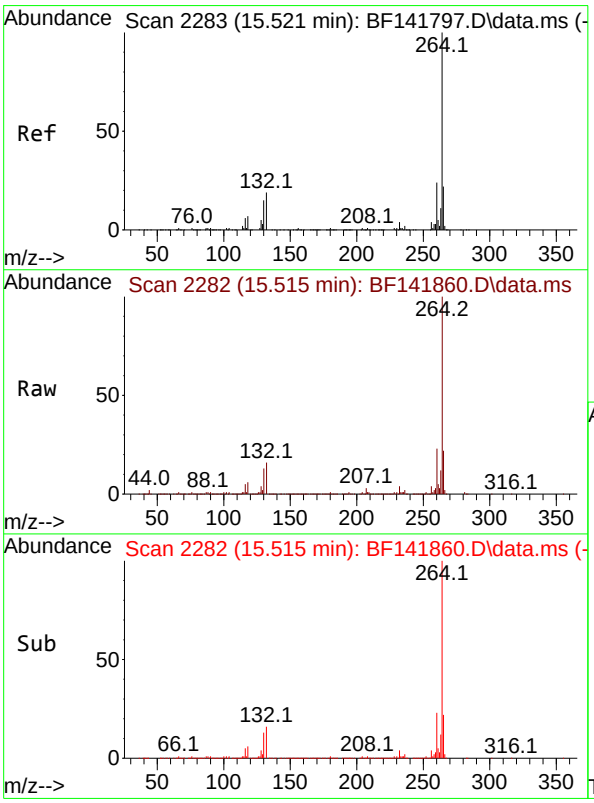

#85
Di-n-octyl phthalate
Concen: 43.146 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:149 Resp: 1360035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.7 | 1.2 | 1.8 |
| 43 | 9.3 | 8.6 | 12.8 |

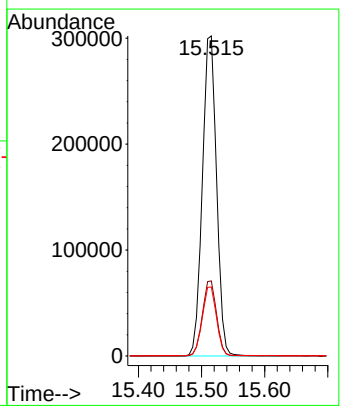


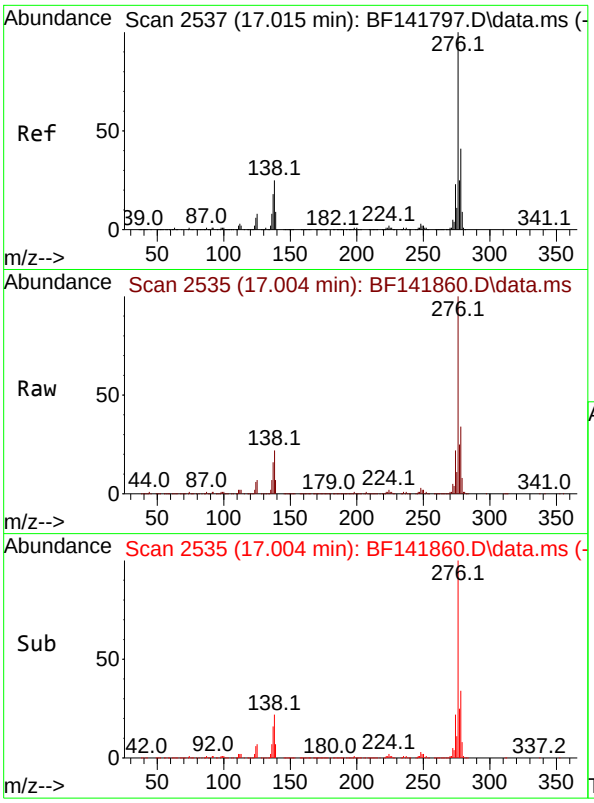




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:264 Resp: 470320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.5 | 18.9 | 28.3 |
| 265 | 21.6 | 17.4 | 26.0 |



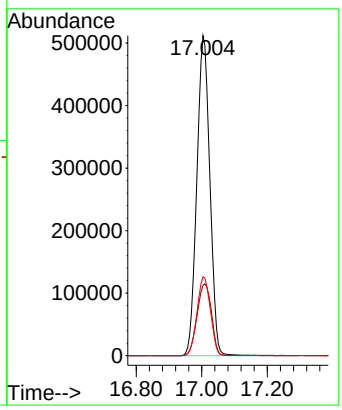


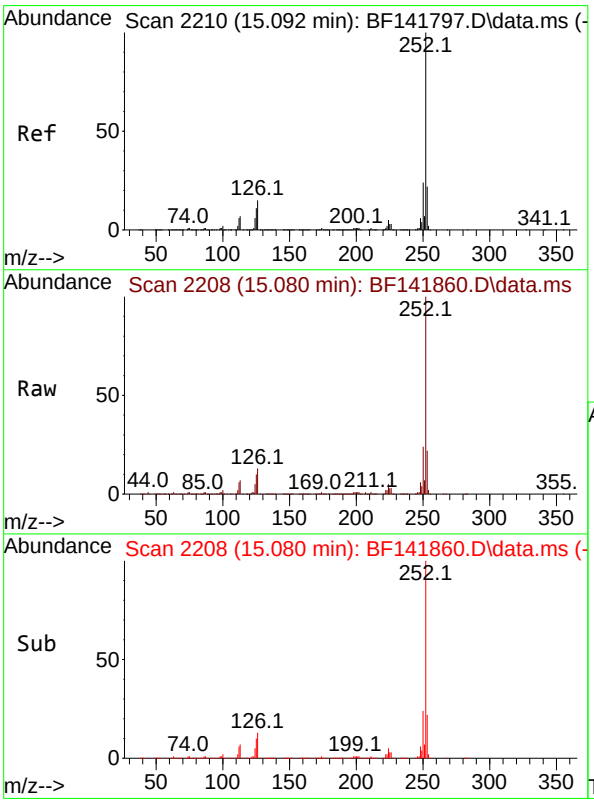

#87
Indeno(1,2,3-cd)pyrene
Concen: 47.292 ng
RT: 17.004 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:276 Resp: 1416313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 24.8 | 22.5 | 33.7 |
| 277 | 25.5 | 20.3 | 30.5 |

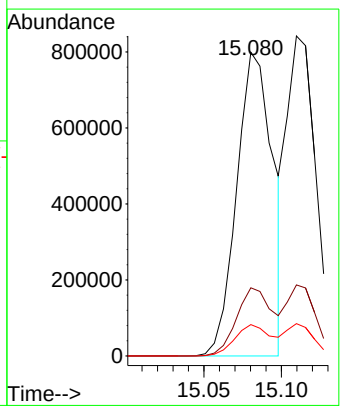


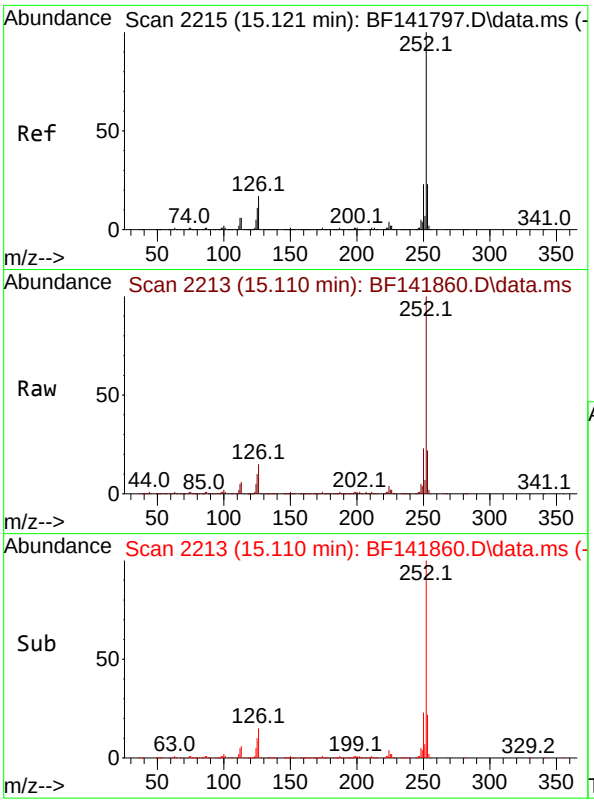




#88
Benzo(b)fluoranthene
Concen: 40.491 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:252 Resp: 1297204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.5 | 17.7 | 26.5 |
| 125 | 10.3 | 8.6 | 13.0 |



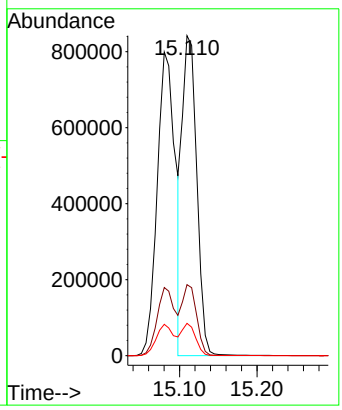


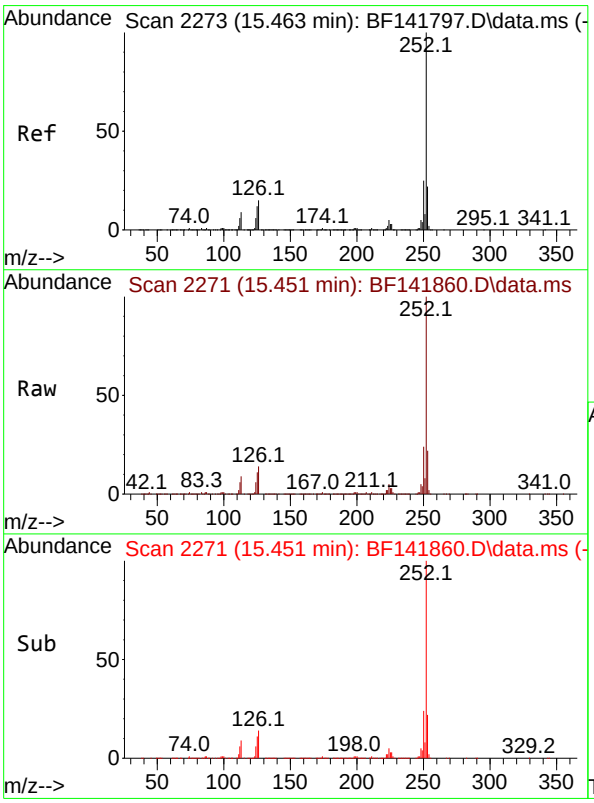

#89
Benzo(k)fluoranthene
Concen: 40.365 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:252 Resp: 1099133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.2 | 17.8 | 26.8 |
| 125 | 10.1 | 8.8 | 13.2 |

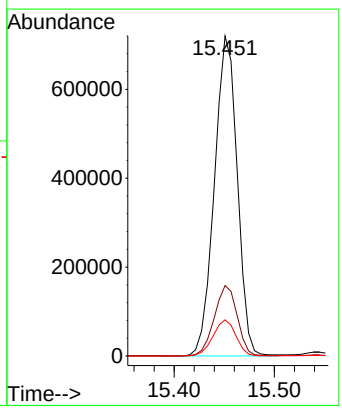


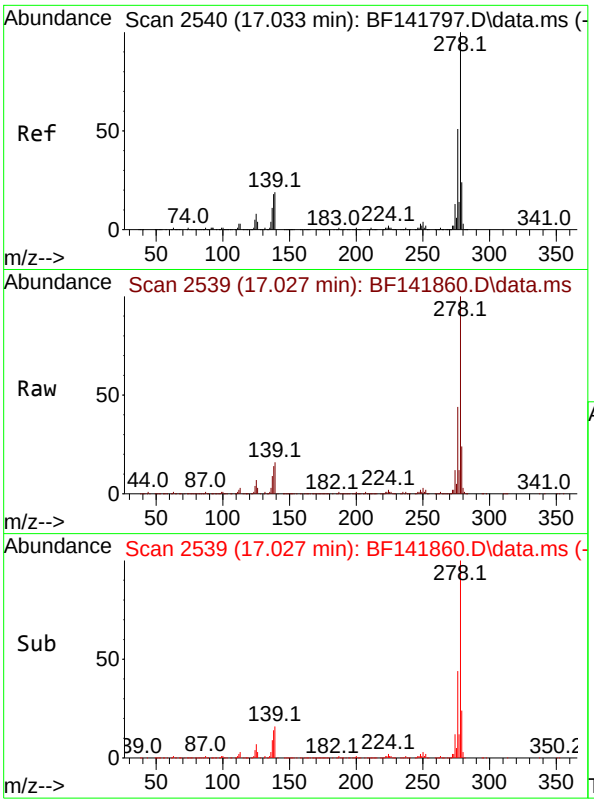




#90
Benzo(a)pyrene
Concen: 44.247 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:252 Resp: 1136844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 17.5 | 26.3 |
| 125 | 11.3 | 9.4 | 14.2 |



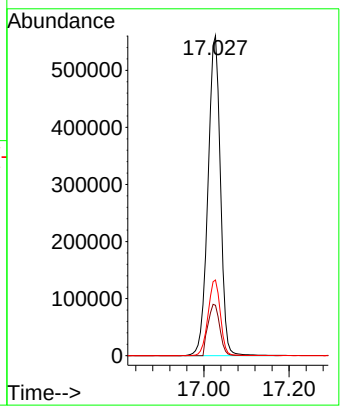


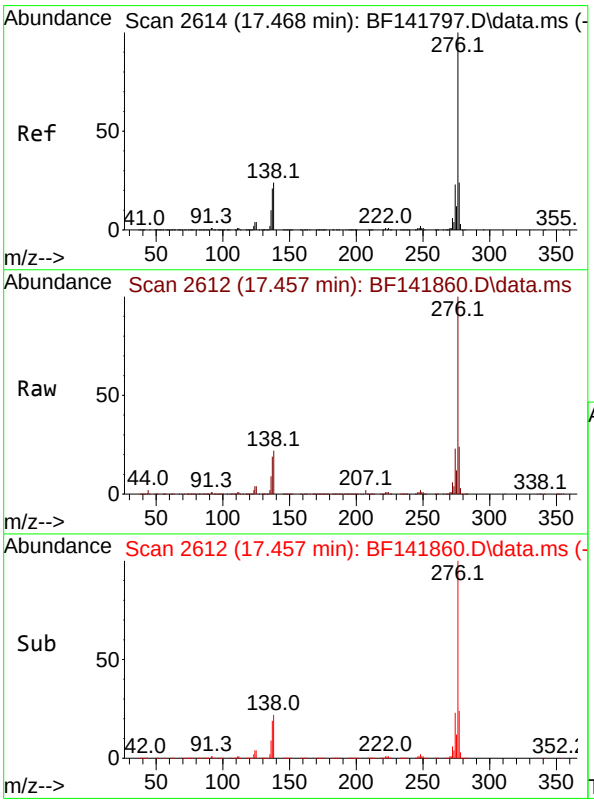

#91
Dibenzo(a,h)anthracene
Concen: 46.521 ng
RT: 17.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

**Instrument :**
BNA_F
**ClientSampleId :**
PB166984BS

Tgt Ion:278 Resp: 1137230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 15.8 | 14.9 | 22.3 |
| 279 | 23.7 | 19.3 | 28.9 |

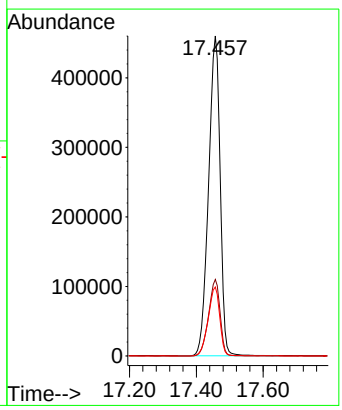



#92
Benzo(g,h,i)perylene
Concen: 44.126 ng
RT: 17.457 min Scan# 2612
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:276 Resp: 1105086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.9 | 19.4 | 29.0 |
| 138 | 21.6 | 19.3 | 28.9 |



Raw Data: **BF141844.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | 03/04/25 |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | 03/04/25 |
| Client Sample ID: | DN-B-42MS | SDG No.: | Q1485 |
| Lab Sample ID: | Q1487-01MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 88.1 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141844.D | 1 | 03/05/25 09:40 | 03/05/25 15:21 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 850 | | 210 | 370 | ug/Kg |
| 108-95-2 | Phenol | 1600 | | 94.0 | 190 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1600 | | 94.9 | 190 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1600 | | 94.7 | 190 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1600 | | 91.4 | 190 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1400 | | 100 | 190 | ug/Kg |
| 98-86-2 | Acetophenone | 1700 | | 98.5 | 190 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1600 | | 90.5 | 370 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1400 | | 45.7 | 90.7 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1600 | | 94.1 | 190 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1800 | | 100 | 190 | ug/Kg |
| 78-59-1 | Isophorone | 1600 | | 95.9 | 190 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1900 | | 110 | 190 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 2000 | | 110 | 190 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1500 | | 97.3 | 190 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1600 | | 85.6 | 190 | ug/Kg |
| 91-20-3 | Naphthalene | 1600 | | 93.7 | 190 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 910 | | 93.7 | 190 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1600 | | 94.5 | 190 | ug/Kg |
| 105-60-2 | Caprolactam | 1900 | | 98.4 | 370 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1600 | | 87.9 | 190 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1500 | | 93.6 | 190 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 4800 | E | 180 | 370 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1700 | | 81.0 | 190 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | | 83.9 | 190 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1800 | | 99.1 | 190 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1700 | | 94.5 | 190 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 1900 | | 110 | 190 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1600 | | 92.6 | 190 | ug/Kg |

Raw Data: **BF141844.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | 03/04/25 |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | 03/04/25 |
| Client Sample ID: | DN-B-42MS | SDG No.: | Q1485 |
| Lab Sample ID: | Q1487-01MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 88.1 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141844.D | 1 | 03/05/25 09:40 | 03/05/25 15:21 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1700 | | 98.1 | 190 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1900 | | 94.3 | 190 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 1300 | | 100 | 190 | ug/Kg |
| 83-32-9 | Acenaphthene | 1700 | | 92.0 | 190 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 2700 | | 280 | 370 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 4200 | E | 130 | 370 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1600 | | 95.7 | 190 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 2000 | | 97.7 | 190 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1500 | | 90.8 | 190 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1500 | | 97.1 | 190 | ug/Kg |
| 86-73-7 | Fluorene | 1600 | | 97.0 | 190 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 1900 | | 120 | 190 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1500 | | 130 | 370 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1800 | | 92.5 | 190 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1700 | | 89.5 | 190 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1700 | | 96.4 | 190 | ug/Kg |
| 1912-24-9 | Atrazine | 2400 | | 100 | 190 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 3200 | E | 87.7 | 370 | ug/Kg |
| 85-01-8 | Phenanthrene | 1700 | | 95.3 | 190 | ug/Kg |
| 120-12-7 | Anthracene | 1700 | | 95.7 | 190 | ug/Kg |
| 86-74-8 | Carbazole | 1700 | | 91.1 | 190 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1500 | | 95.6 | 190 | ug/Kg |
| 206-44-0 | Fluoranthene | 1500 | | 92.6 | 190 | ug/Kg |
| 129-00-0 | Pyrene | 1400 | | 94.1 | 190 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1400 | | 110 | 190 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 1800 | | 110 | 370 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1700 | | 91.5 | 190 | ug/Kg |
| 218-01-9 | Chrysene | 1600 | | 90.1 | 190 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1400 | | 100 | 190 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1700 | | 120 | 370 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1600 | | 92.0 | 190 | ug/Kg |

Raw Data: **BF141844.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | 03/04/25 |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | 03/04/25 |
| Client Sample ID: | DN-B-42MS | SDG No.: | Q1485 |
| Lab Sample ID: | Q1487-01MS | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 88.1 |
| Sample Wt/Vol: | 30.03 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141844.D | 1 | 03/05/25 09:40 | 03/05/25 15:21 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1500 | | 93.7 | 190 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1700 | | 110 | 190 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1300 | | 88.6 | 190 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1300 | | 92.1 | 190 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1100 | | 90.8 | 190 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1800 | | 98.4 | 190 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1600 | | 120 | 190 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1700 | | 84.7 | 190 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 107 | | 18 - 112 | 71% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 102 | | 15 - 107 | 68% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 87.4 | | 18 - 107 | 87% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 73.3 | | 20 - 109 | 73% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 113 | | 10 - 116 | 76% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 55.5 | | 10 - 105 | 56% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 192000 | 6.886 | | | |
| 1146-65-2 | Naphthalene-d8 | 734000 | 8.169 | | | |
| 15067-26-2 | Acenaphthene-d10 | 370000 | 9.922 | | | |
| 1517-22-2 | Phenanthrene-d10 | 565000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 409000 | 14.039 | | | |
| 1520-96-3 | Perylene-d12 | 473000 | 15.509 | | | |

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

Sample Results: **BF141844.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141844.D
Acq On : 05 Mar 2025 15:21
Operator : RC/JU
Sample : Q1487-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 15:58:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio
03/06/2025
Supervised By :Jagrut Upadhyay
03/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.886 | 152 | 192210 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 734232 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.922 | 164 | 370025 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.404 | 188 | 565314 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.039 | 240 | 409462 | 20.000 | ng | -0.01 |
| 86) Perylene-d12 | 15.509 | 264 | 473342 | 20.000 | ng | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 5) 2-Fluorophenol | 5.504 | 112 | 1284833 | 106.751 | ng | 0.00 |
| 7) Phenol-d6 | 6.504 | 99 | 1597457 | 101.972 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.445 | 82 | 1004018 | 87.407 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.710 | 330 | 393680 | 113.326 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.239 | 172 | 1691234 | 73.287 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.986 | 244 | 1404647 | 55.502 | ng | -0.01 |
| **Target Compounds** | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.710 | 88 | 228610 | 41.861 | ng | 98 |
| 3) Pyridine | 3.475 | 79 | 539964 | 39.738 | ng | 98 |
| 4) n-Nitrosodimethylamine | 3.416 | 42 | 280375 | 42.884 | ng | 95 |
| 6) Aniline | 6.545 | 93 | 612696 | 37.620 | ng | 100 |
| 8) 2-Chlorophenol | 6.669 | 128 | 564761 | 43.377 | ng | 97 |
| 9) Benzaldehyde | 6.434 | 77 | 204683 | 22.462 | ng | 99 |
| 10) Phenol | 6.522 | 94 | 725989 | 43.368 | ng | 98 |
| 11) bis(2-Chloroethyl)ether | 6.622 | 93 | 526773 | 41.282 | ng | 96 |
| 12) 1,3-Dichlorobenzene | 6.828 | 146 | 593769 | 42.585 | ng | 100 |
| 13) 1,4-Dichlorobenzene | 6.904 | 146 | 605338 | 43.087 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 577487 | 44.019 | ng | 98 |
| 15) Benzyl Alcohol | 7.022 | 79 | 492984 | 39.376 | ng | 99 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157 | 45 | 729509 | 37.645 | ng | 100 |
| 17) 2-Methylphenol | 7.128 | 107 | 448607 | 41.743 | ng | 100 |
| 18) Hexachloroethane | 7.398 | 117 | 223054 | 42.419 | ng | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.292 | 70 | 384941 | 37.380 | ng | 98 |
| 20) 3+4-Methylphenols | 7.281 | 107 | 568592 | 42.489 | ng | 96 |
| 22) Acetophenone | 7.292 | 105 | 827134 | 46.254 | ng | 97 |
| 24) Nitrobenzene | 7.463 | 77 | 588435 | 47.838 | ng | 99 |
| 25) Isophorone | 7.704 | 82 | 1023670 | 41.482 | ng | 98 |
| 26) 2-Nitrophenol | 7.780 | 139 | 272681 | 49.470 | ng | 98 |
| 27) 2,4-Dimethylphenol | 7.810 | 122 | 475901 | 52.462 | ng | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.910 | 93 | 615055 | 39.071 | ng | 100 |
| 29) 2,4-Dichlorophenol | 8.016 | 162 | 443054 | 42.337 | ng | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.104 | 180 | 484159 | 42.221 | ng | 99 |
| 31) Naphthalene | 8.186 | 128 | 1565470 | 41.484 | ng | 99 |
| 32) Benzoic acid | 7.910 | 122 | 353009m | 46.845 | ng | |
| 33) 4-Chloroaniline | 8.233 | 127 | 332297 | 24.016 | ng | 98 |
| 34) Hexachlorobutadiene | 8.304 | 225 | 301524 | 42.314 | ng | 99 |
| 35) Caprolactam | 8.592 | 113 | 165832 | 51.511 | ng | 93 |
| 36) 4-Chloro-3-methylphenol | 8.704 | 107 | 477385 | 41.065 | ng | 99 |
| 37) 2-Methylnaphthalene | 8.880 | 142 | 971643 | 39.255 | ng | 100 |
| 38) 1-Methylnaphthalene | 8.975 | 142 | 949369 | 39.973 | ng | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.045 | 216 | 515221 | 48.211 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.033 | 237 | 565053 | 126.697 | ng | 99 |
| 43) 2,4,6-Trichlorophenol | 9.151 | 196 | 313746 | 45.449 | ng | 99 |

Sample Results: **BF141844.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141844.D
Acq On : 05 Mar 2025 15:21
Operator : RC/JU
Sample : Q1487-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 15:58:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio
03/06/2025
Supervised By :Jagrut Upadhyay
03/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.186 | 196 | 323494 | 47.324 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.339 | 154 | 1353556 | 48.058 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.369 | 162 | 928972 | 44.688 | ng | | 98 |
| 48) 2-Nitroaniline | 9.457 | 65 | 291855 | 50.994 | ng | | 95 |
| 49) Acenaphthylene | 9.780 | 152 | 1433535 | 45.995 | ng | | 99 |
| 50) Dimethylphthalate | 9.639 | 163 | 1048895 | 42.329 | ng | | 100 |
| 51) 2,6-Dinitrotoluene | 9.698 | 165 | 232333 | 48.952 | ng | | 95 |
| 52) Acenaphthene | 9.957 | 154 | 954639 | 45.394 | ng | | 99 |
| 53) 3-Nitroaniline | 9.869 | 138 | 173093 | 35.128 | ng | # | 91 |
| 54) 2,4-Dinitrophenol | 9.969 | 184 | 147123 | 70.645 | ng | # | 20 |
| 55) Dibenzofuran | 10.127 | 168 | 1269599 | 41.477 | ng | | 98 |
| 56) 4-Nitrophenol | 10.016 | 139 | 401998 | 109.840 | ng | | 99 |
| 57) 2,4-Dinitrotoluene | 10.104 | 165 | 310411 | 53.198 | ng | | 92 |
| 58) Fluorene | 10.469 | 166 | 971273 | 42.361 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232 | 259524m | 43.653 | ng | | |
| 60) Diethylphthalate | 10.339 | 149 | 991255 | 39.903 | ng | | 99 |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204 | 470028 | 40.915 | ng | | 98 |
| 62) 4-Nitroaniline | 10.480 | 138 | 215910 | 51.021 | ng | | 96 |
| 63) Azobenzene | 10.621 | 77 | 1080202 | 41.298 | ng | | 95 |
| 65) 4,6-Dinitro-2-methylph... | 10.504 | 198 | 102419 | 40.086 | ng | | 98 |
| 66) n-Nitrosodiphenylamine | 10.574 | 169 | 861837 | 46.428 | ng | | 99 |
| 67) 4-Bromophenyl-phenylether | 10.951 | 248 | 288947 | 43.759 | ng | | 98 |
| 68) Hexachlorobenzene | 11.016 | 284 | 314028 | 45.037 | ng | | 98 |
| 69) Atrazine | 11.104 | 200 | 317462 | 62.190 | ng | | 99 |
| 70) Pentachlorophenol | 11.204 | 266 | 374526 | 84.690 | ng | | 99 |
| 71) Phenanthrene | 11.427 | 178 | 1360847 | 45.003 | ng | | 99 |
| 72) Anthracene | 11.480 | 178 | 1381172 | 45.574 | ng | | 99 |
| 73) Carbazole | 11.633 | 167 | 1177198 | 43.987 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.963 | 149 | 1357104 | 40.005 | ng | | 99 |
| 75) Fluoranthene | 12.615 | 202 | 1240933 | 40.050 | ng | | 98 |
| 77) Benzidine | 12.733 | 184 | 496999 | 96.436 | ng | | 100 |
| 78) Pyrene | 12.845 | 202 | 1269067 | 35.792 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.462 | 149 | 469636 | 36.456 | ng | | 97 |
| 81) Benzo(a)anthracene | 14.027 | 228 | 1232226 | 45.561 | ng | | 99 |
| 82) 3,3'-Dichlorobenzidine | 13.992 | 252 | 369769 | 47.653 | ng | | 100 |
| 83) Chrysene | 14.068 | 228 | 1062387 | 42.613 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.021 | 149 | 600275 | 37.423 | ng | | 100 |
| 85) Di-n-octyl phthalate | 14.633 | 149 | 1108571 | 46.163 | ng | | 98 |
| 87) Indeno(1,2,3-cd)pyrene | 16.992 | 276 | 1050463 | 34.852 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 15.080 | 252 | 1389072 | 43.082 | ng | | 100 |
| 89) Benzo(k)fluoranthene | 15.109 | 252 | 1085392 | 39.606 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.451 | 252 | 1182996 | 45.749 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.015 | 278 | 863598 | 35.102 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.445 | 276 | 737995 | 29.280 | ng | | 99 |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141844.D
Acq On : 05 Mar 2025 15:21
Operator : RC/JU
Sample : Q1487-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

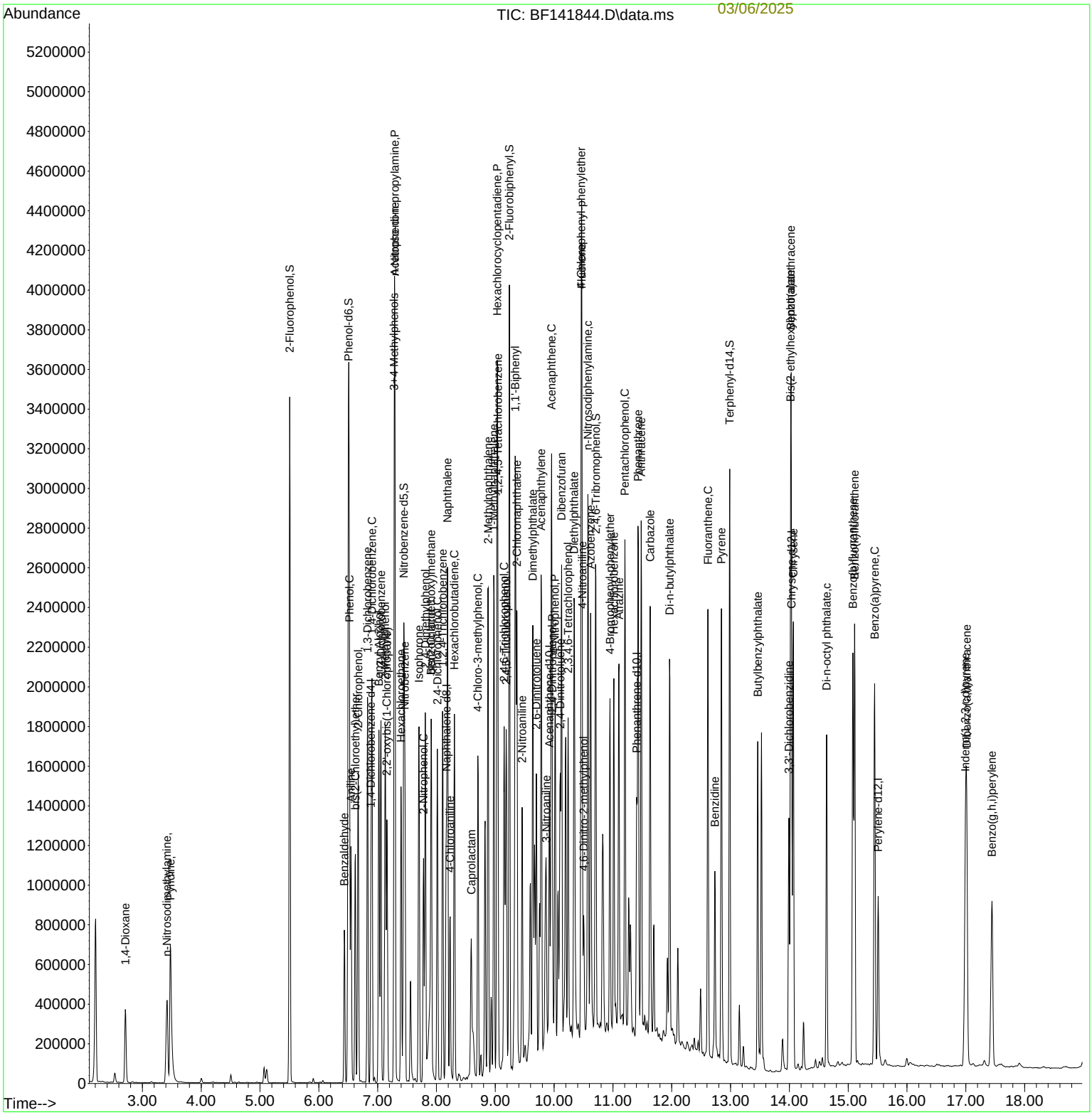
Quant Time: Mar 05 15:58:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

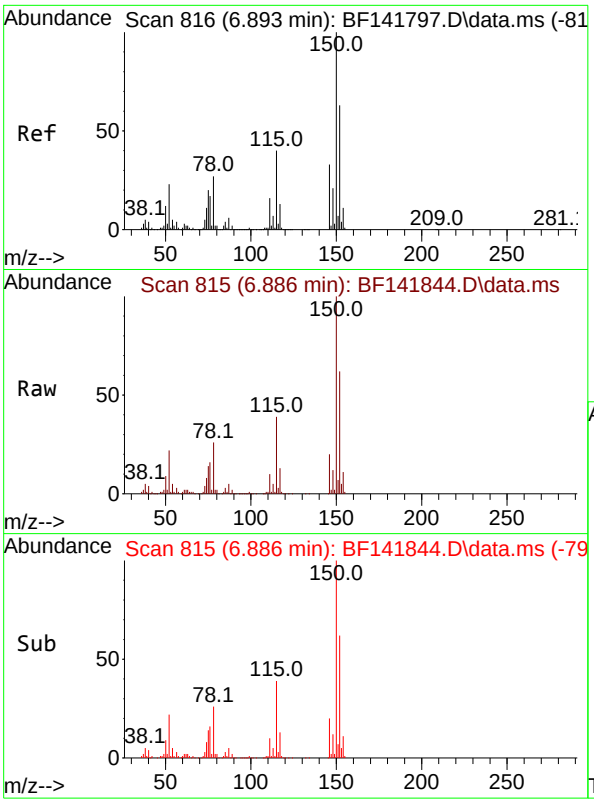
**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio
03/06/2025

Supervised By :Jagrut Upadhyay
03/06/2025

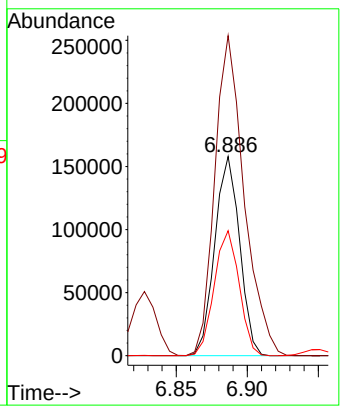





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.007 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:152 Resp: 19221

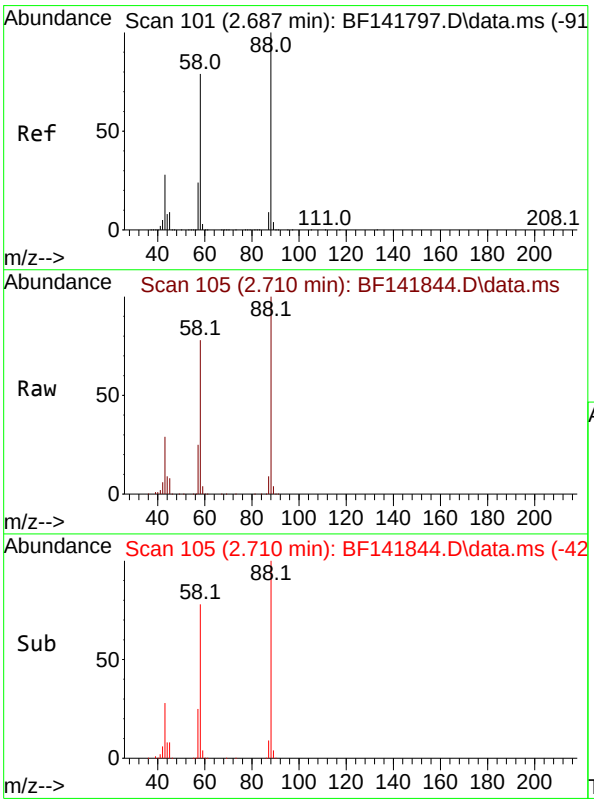
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 160.6 | 127.5 | 191.3 |
| 115 | 62.7 | 51.4 | 77.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
**APPROVED**

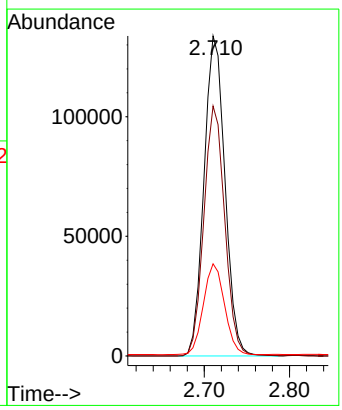
Reviewed By :Anahy Claudio
03/06/2025
Supervised By :Jagrut Upadhyay
03/06/2025

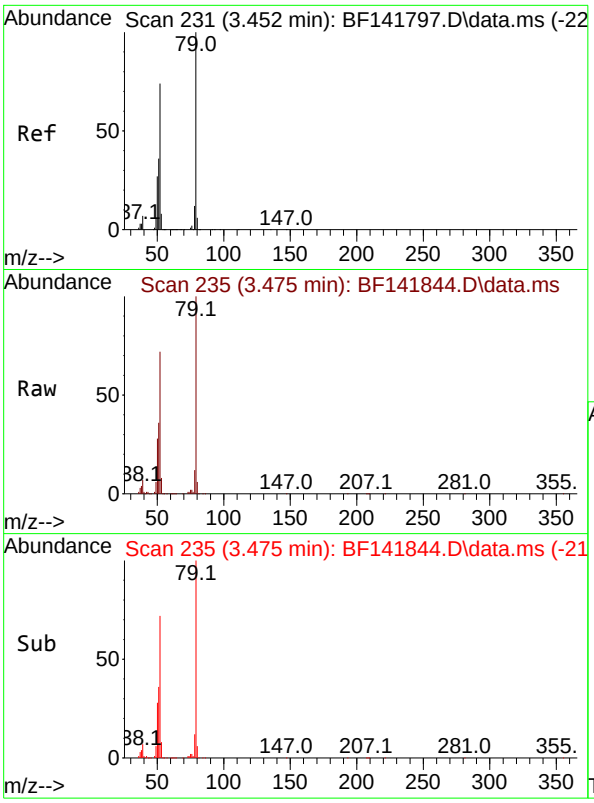



#2
1,4-Dioxane
Concen: 41.861 ng
RT: 2.710 min Scan# 105
Delta R.T. 0.023 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 88 Resp: 228610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 77.9 | 63.9 | 95.9 |
| 43 | 28.5 | 23.0 | 34.6 |

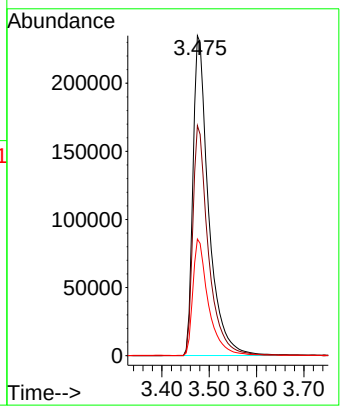





#3
Pyridine
Concen: 39.738 ng
RT: 3.475 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 79 Resp: 53996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 71.9 | 59.0 | 88.4 |
| 51 | 36.5 | 29.0 | 43.4 |

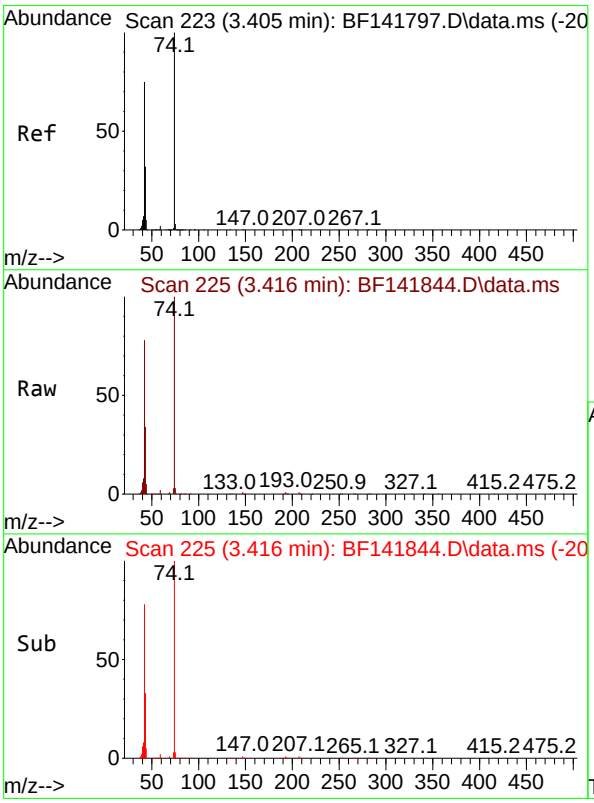



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio
03/06/2025

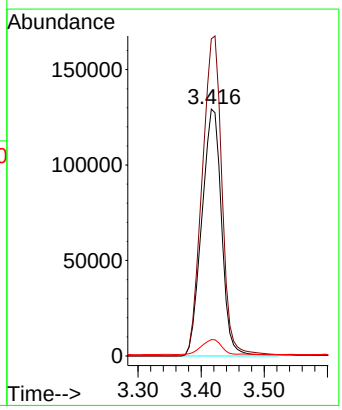
Supervised By :Jagrut Upadhyay
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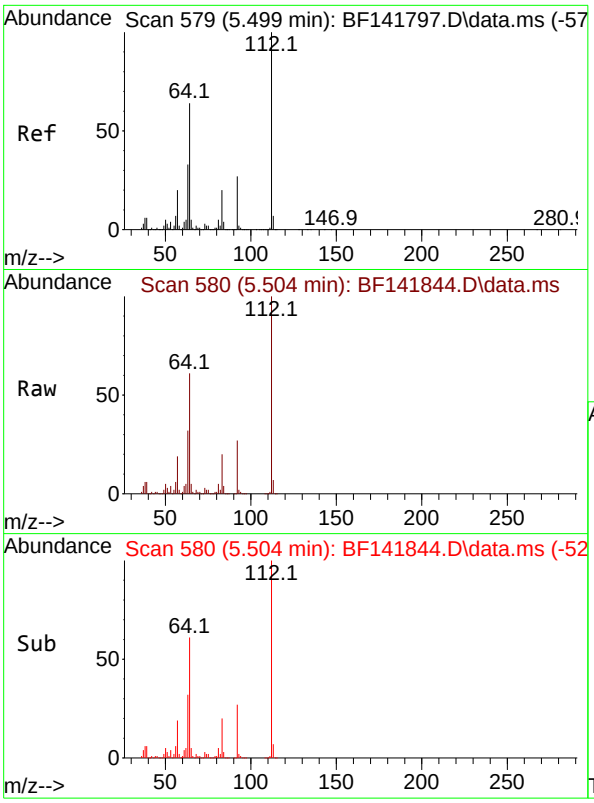



#4
n-Nitrosodimethylamine
Concen: 42.884 ng
RT: 3.416 min Scan# 225
Delta R.T. 0.011 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 42 Resp: 280375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 128.5 | 107.1 | 160.7 |
| 44 | 6.6 | 6.6 | 9.8 |

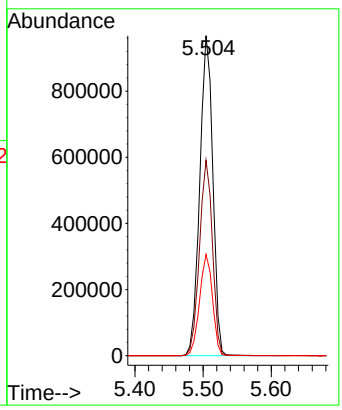





#5
2-Fluorophenol
Concen: 106.751 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:112 Resp: 128483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 61.1 | 51.3 | 76.9 |
| 63 | 31.6 | 26.2 | 39.4 |

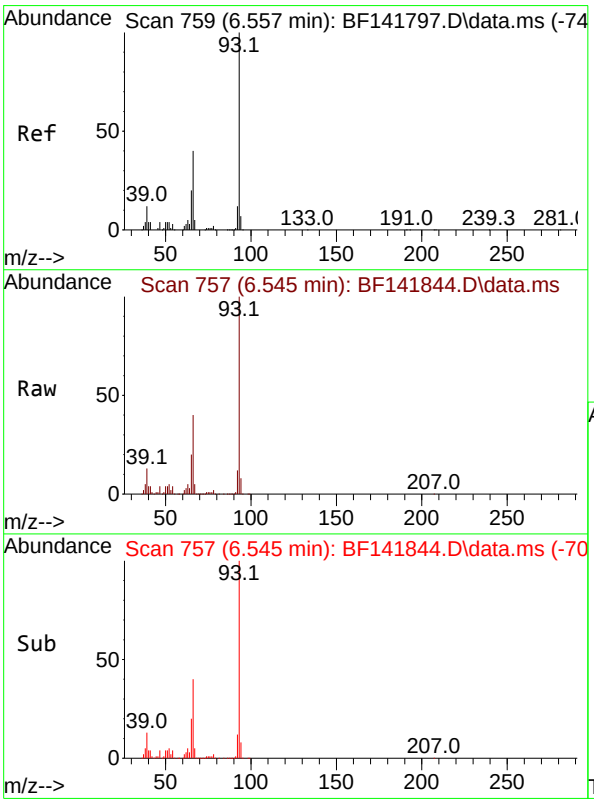



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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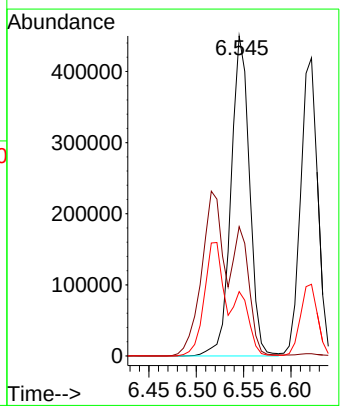
Supervised By :Jagrut Upadhyay
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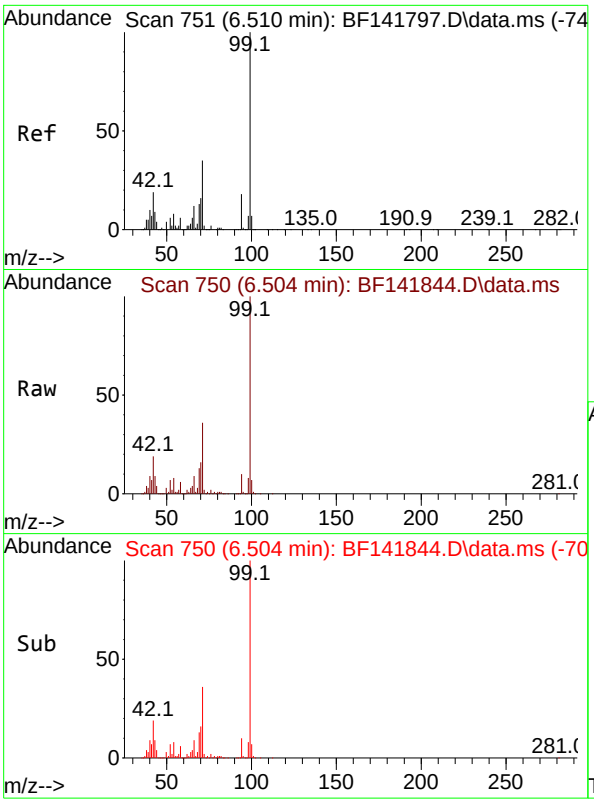



#6
Aniline
Concen: 37.620 ng
RT: 6.545 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 93 Resp: 612696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 40.4 | 32.3 | 48.5 |
| 65 | 20.1 | 15.9 | 23.9 |

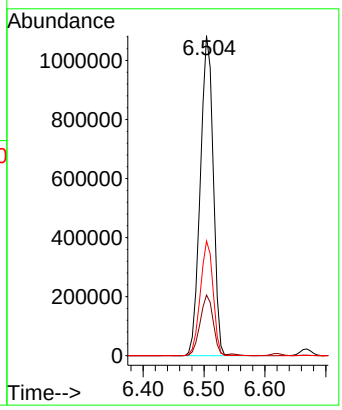





#7
Phenol-d6
Concen: 101.972 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 99 Resp: 159745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 18.9 | 15.2 | 22.8 |
| 71 | 35.8 | 28.2 | 42.2 |

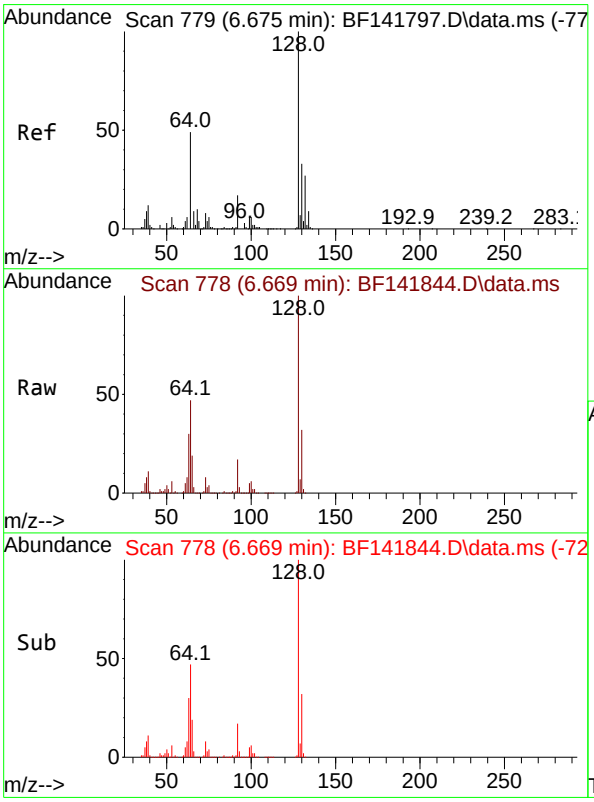



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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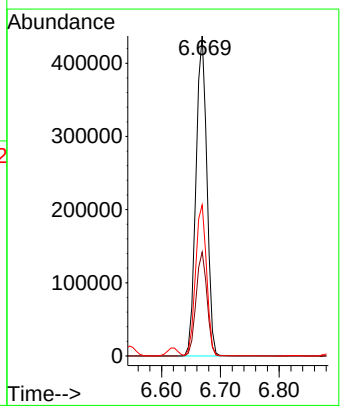
Supervised By :Jagrut Upadhyay
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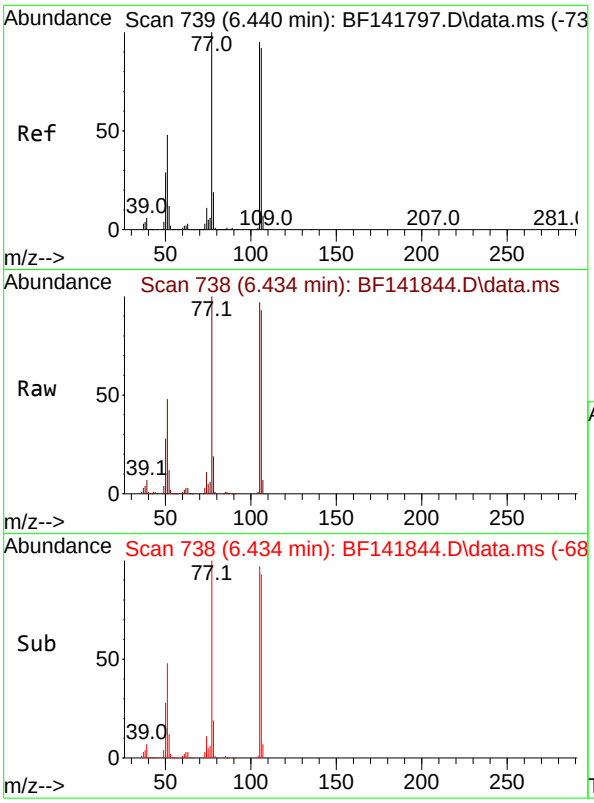



#8
2-Chlorophenol
Concen: 43.377 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:128 Resp: 564761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.5 | 12.6 | 52.6 |
| 64 | 47.2 | 31.1 | 71.1 |

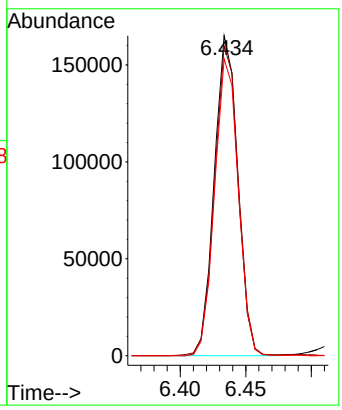





#9
Benzaldehyde
Concen: 22.462 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 77 Resp: 20468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 96.8 | 75.3 | 115.3 |
| 106 | 92.8 | 72.3 | 112.3 |

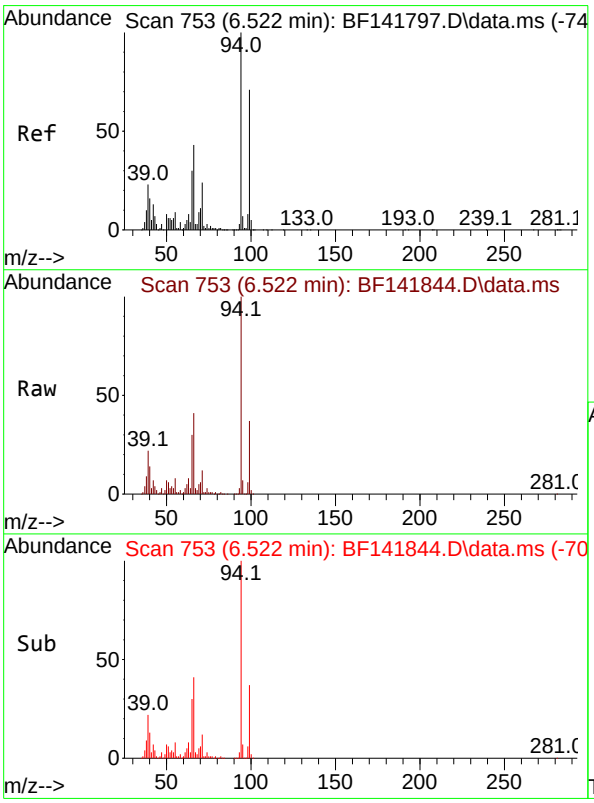



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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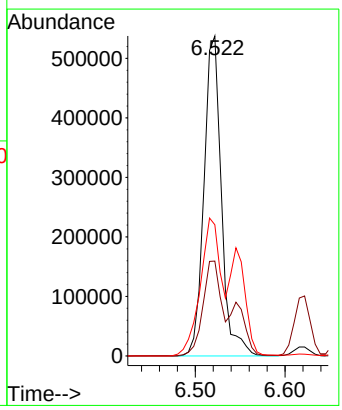
Supervised By :Jagrut Upadhyay
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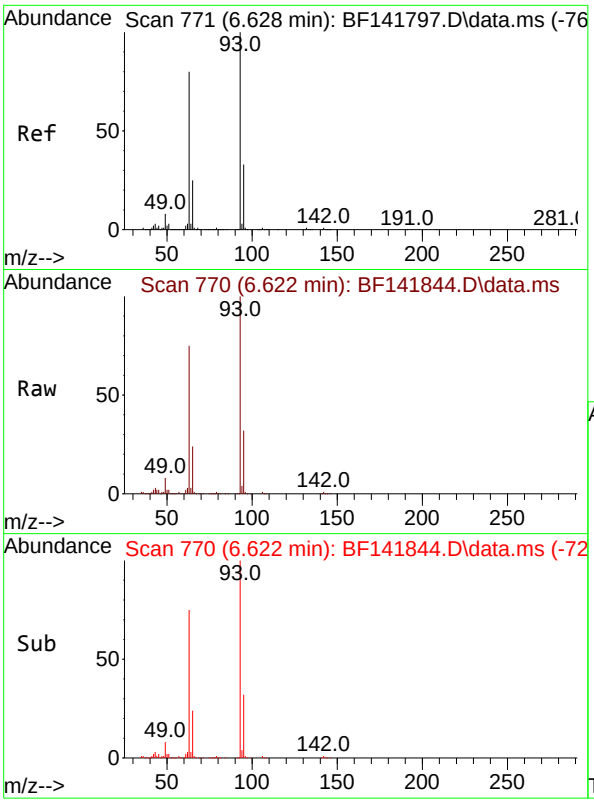



#10
Phenol
Concen: 43.368 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 94 Resp: 725989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 29.6 | 10.2 | 50.2 |
| 66 | 41.0 | 23.2 | 63.2 |

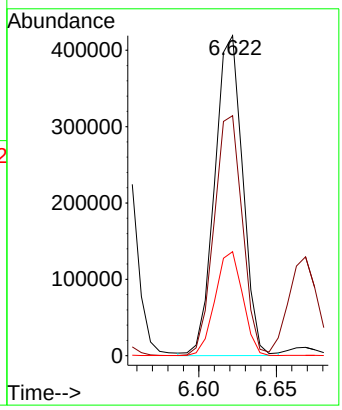





#11
bis(2-Chloroethyl)ether
Concen: 41.282 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 93 Resp: 52677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 75.0 | 59.3 | 99.3 |
| 95 | 32.5 | 13.2 | 53.2 |

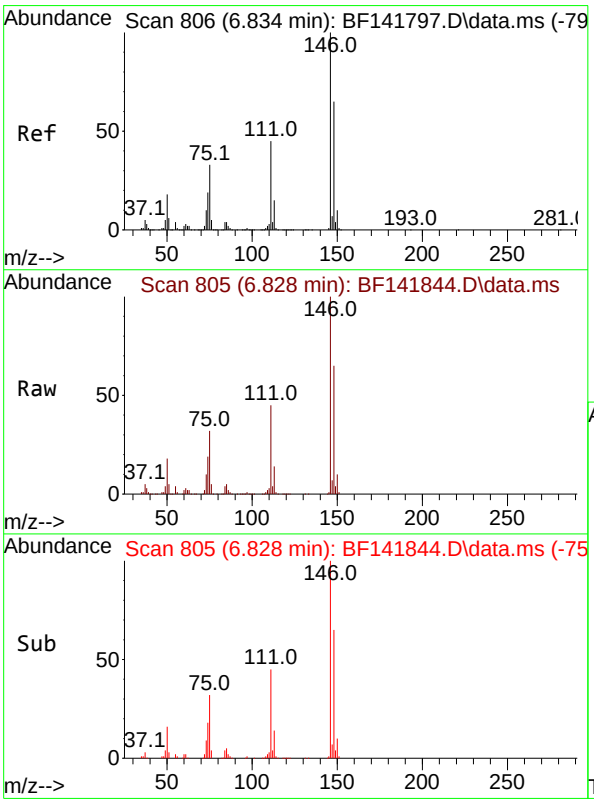



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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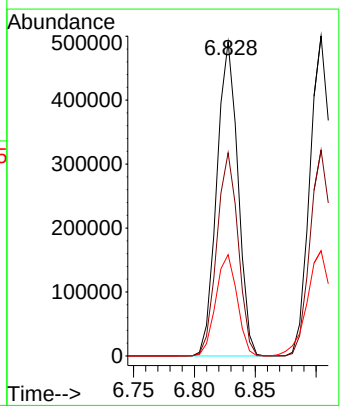
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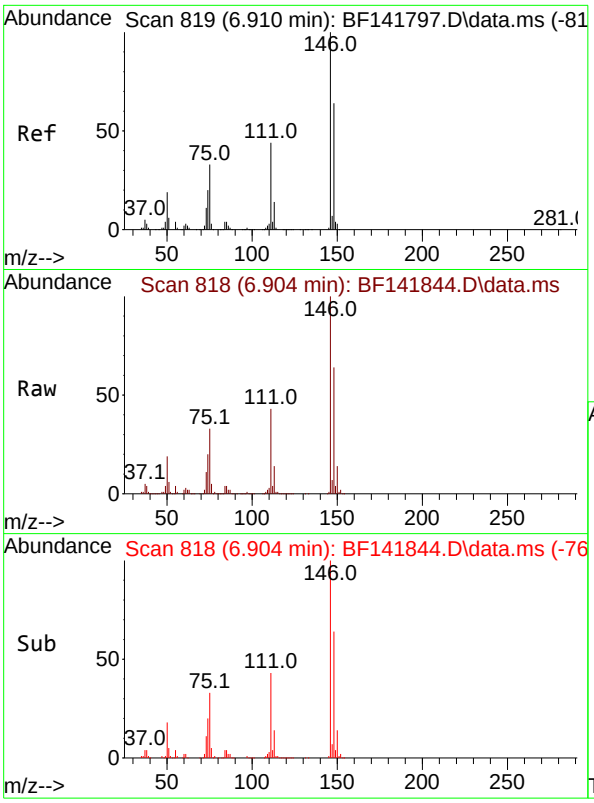



#12
1,3-Dichlorobenzene
Concen: 42.585 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:146 Resp: 593769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.7 | 51.8 | 77.6 |
| 75 | 32.3 | 26.2 | 39.4 |

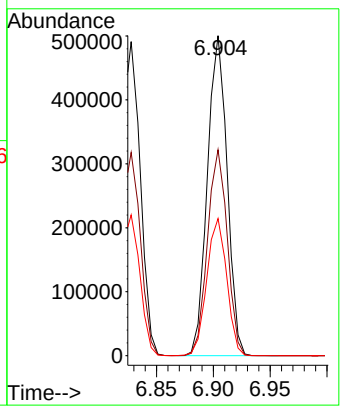





#13
1,4-Dichlorobenzene
Concen: 43.087 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:146 Resp: 60533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.4 | 51.4 | 77.2 |
| 111 | 42.9 | 35.5 | 53.3 |

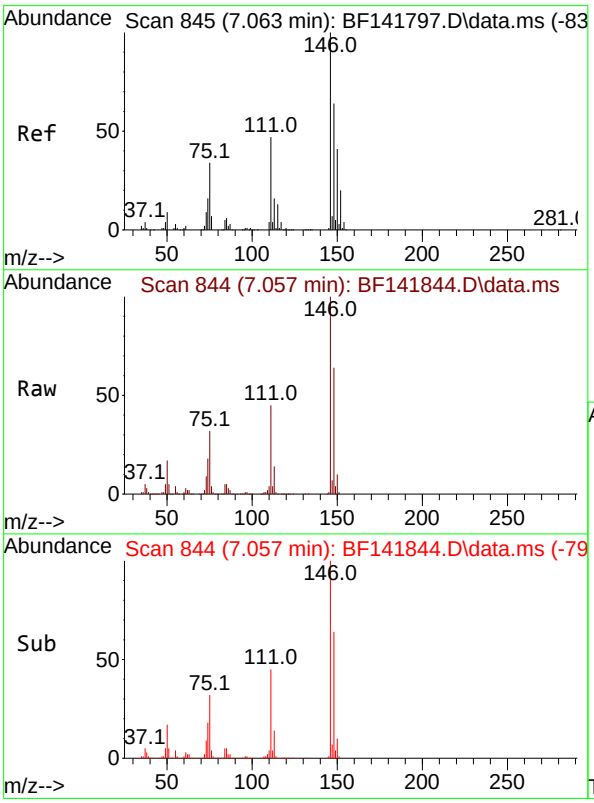



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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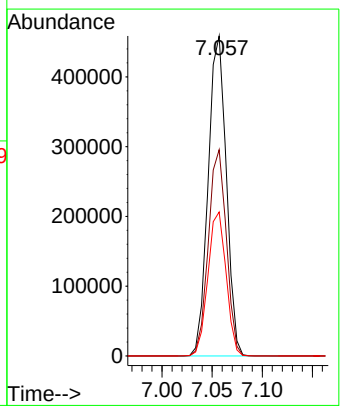
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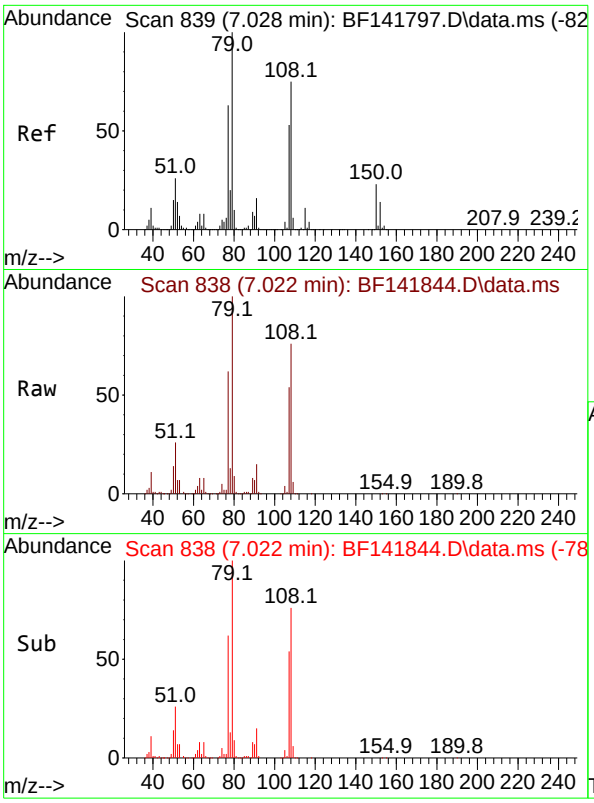



#14
1,2-Dichlorobenzene
Concen: 44.019 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:146 Resp: 577487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.5 | 51.2 | 76.8 |
| 111 | 45.0 | 37.8 | 56.6 |

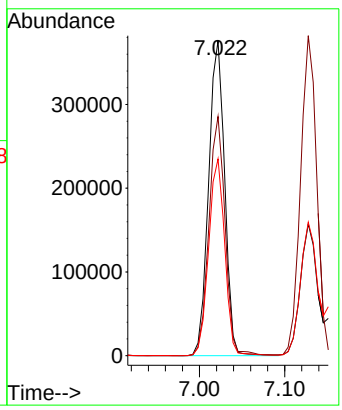





#15
Benzyl Alcohol
Concen: 39.376 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 79 Resp: 49298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 75.9 | 60.2 | 90.2 |
| 77 | 62.4 | 50.2 | 75.2 |

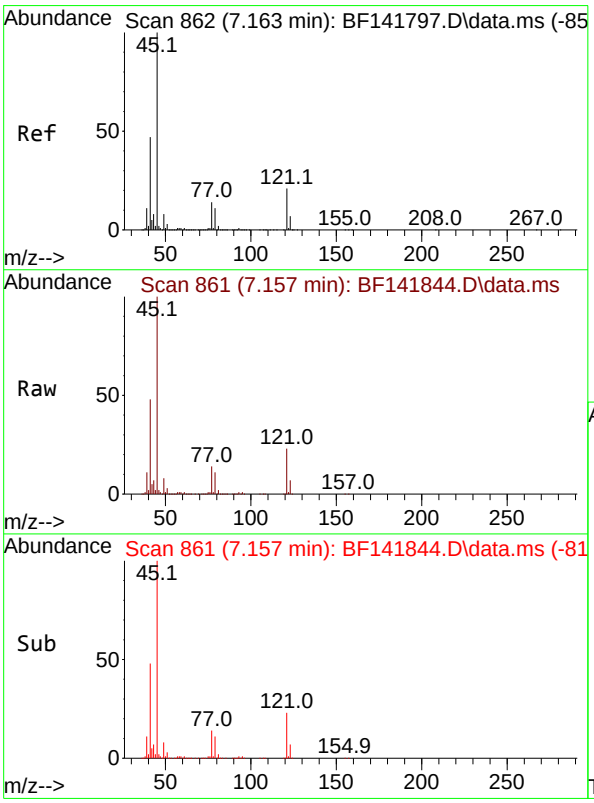



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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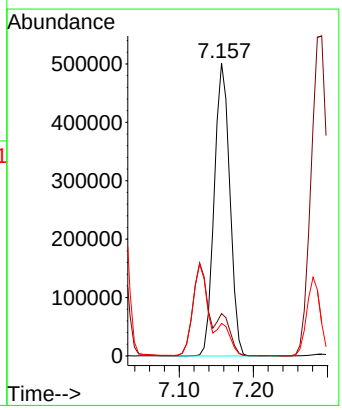
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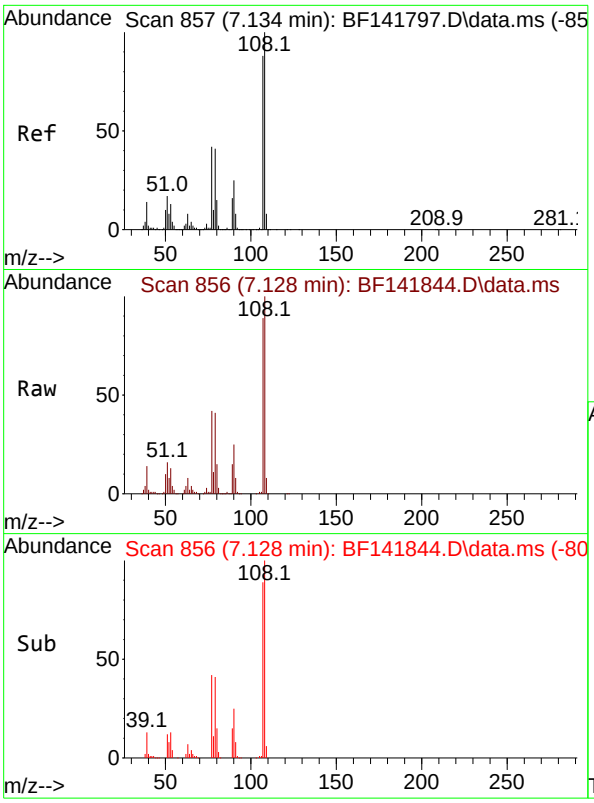



#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.645 ng
RT: 7.157 min Scan# 861
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 45 Resp: 729509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 14.5 | 0.0 | 34.4 |
| 79 | 11.1 | 0.0 | 30.9 |

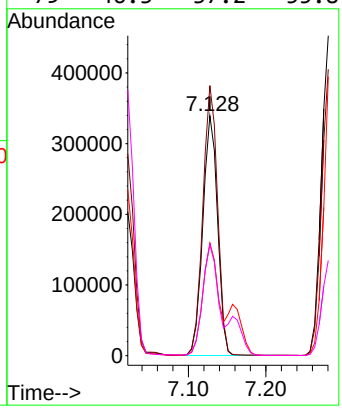





#17
2-Methylphenol
Concen: 41.743 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:107 Resp: 44860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 112.5 | 90.6 | 135.8 |
| 77 | 46.9 | 37.7 | 56.5 |
| 79 | 46.3 | 37.2 | 55.8 |

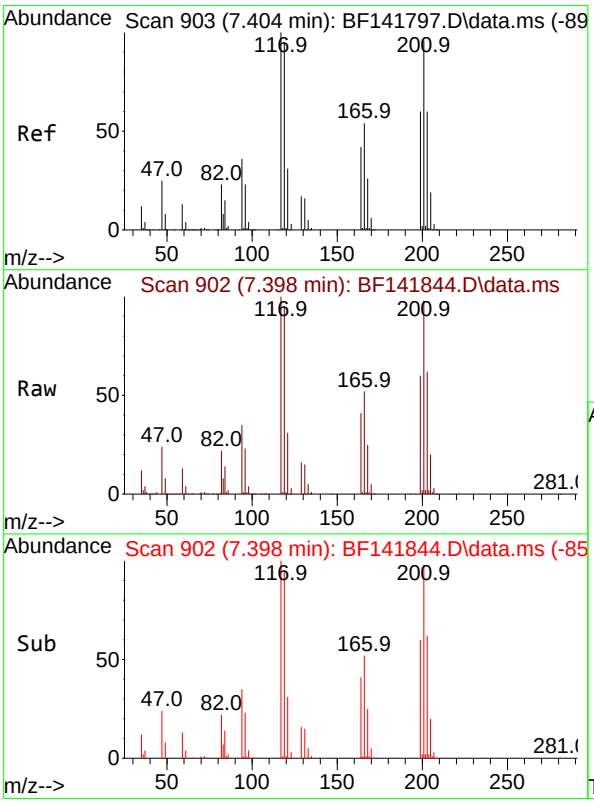



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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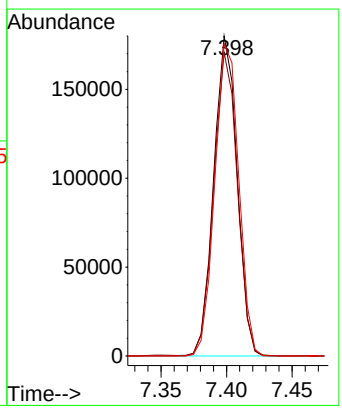
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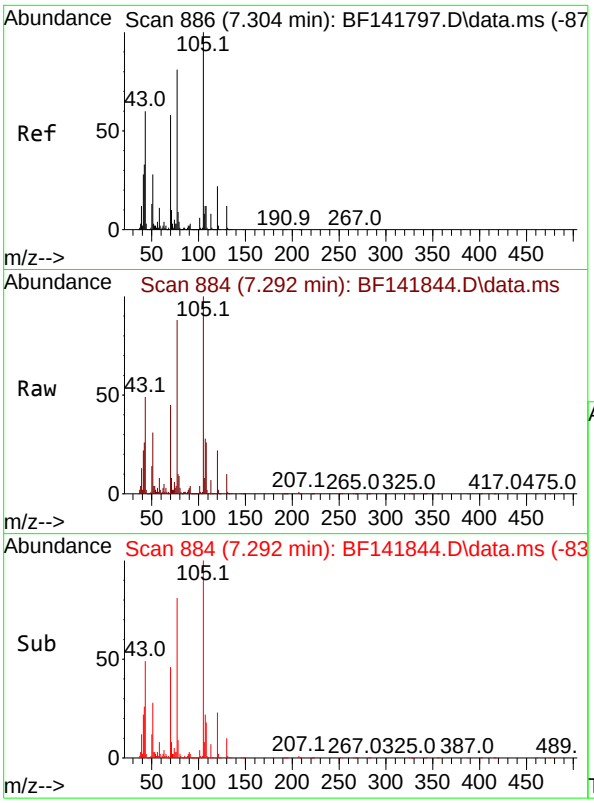



#18
Hexachloroethane
Concen: 42.419 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:117 Resp: 223054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.8 | 75.8 | 113.8 |
| 201 | 97.6 | 76.7 | 115.1 |

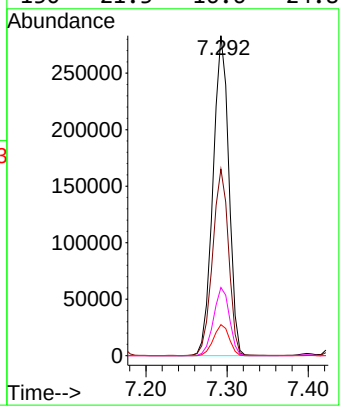





#19
n-Nitroso-di-n-propylamine
Concen: 37.380 ng
RT: 7.292 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 70 Resp: 38494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 58.3 | 45.4 | 68.0 |
| 101 | 9.7 | 7.8 | 11.8 |
| 130 | 21.3 | 16.6 | 24.8 |

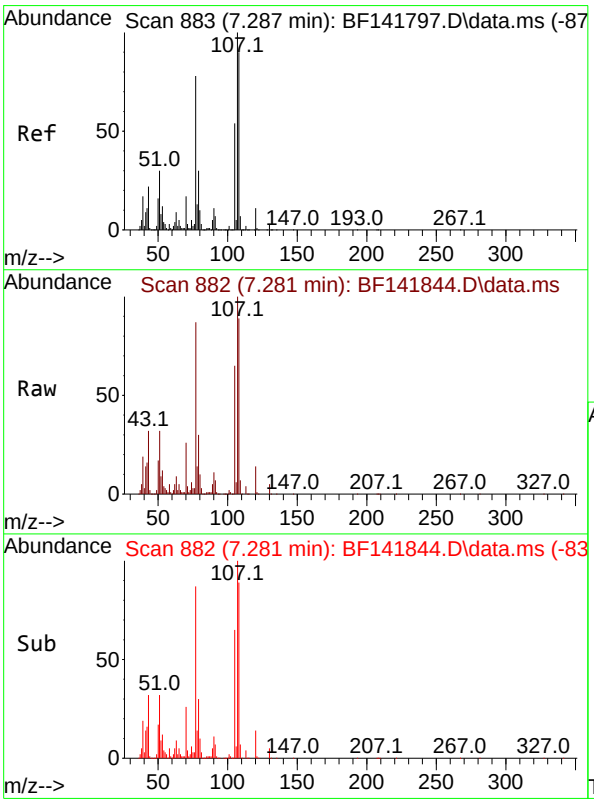



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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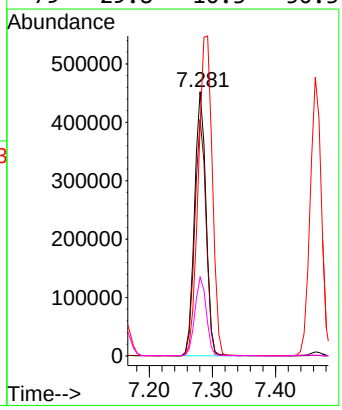
Supervised By :Jagrut Upadhyay
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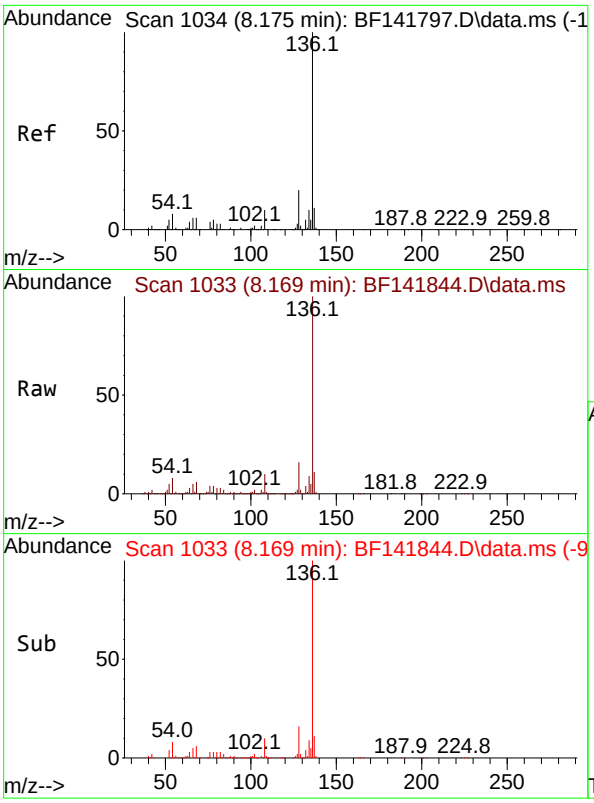



#20
3+4-Methylphenols
Concen: 42.489 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:107 Resp: 568592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 89.5 | 69.7 | 109.7 |
| 77 | 87.2 | 58.3 | 98.3 |
| 79 | 29.8 | 10.3 | 50.3 |

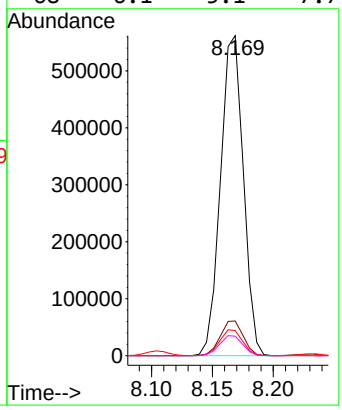





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

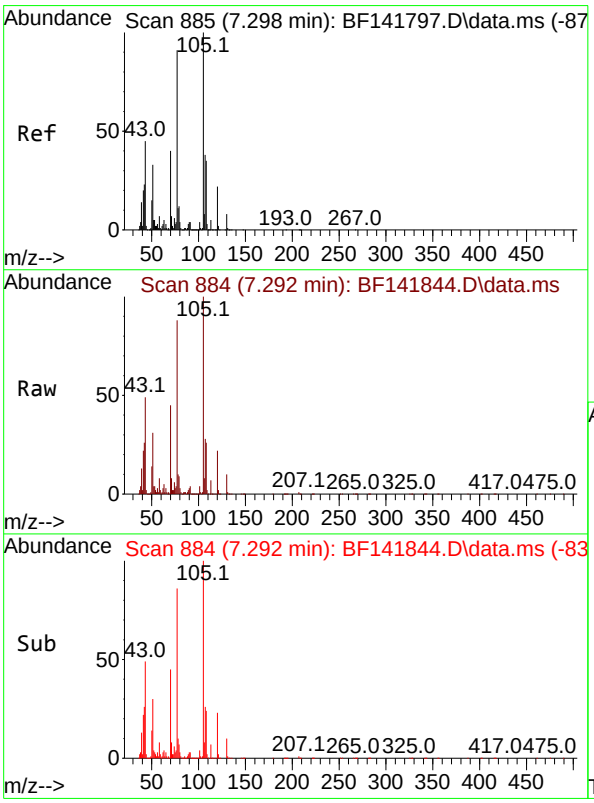
Tgt Ion:136 Resp: 73423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 10.9 | 8.9 | 13.3 |
| 54 | 7.9 | 6.9 | 10.3 |
| 68 | 6.1 | 5.1 | 7.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

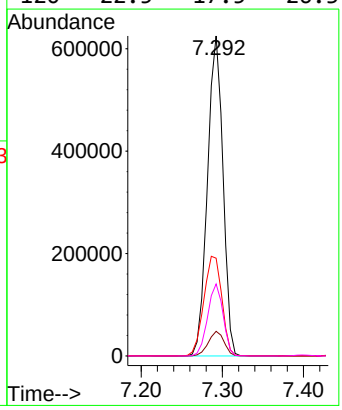
**Manual Integrations APPROVED**
Reviewed By :Anahy Claudio
03/06/2025
Supervised By :Jagrut Upadhyay
03/06/2025

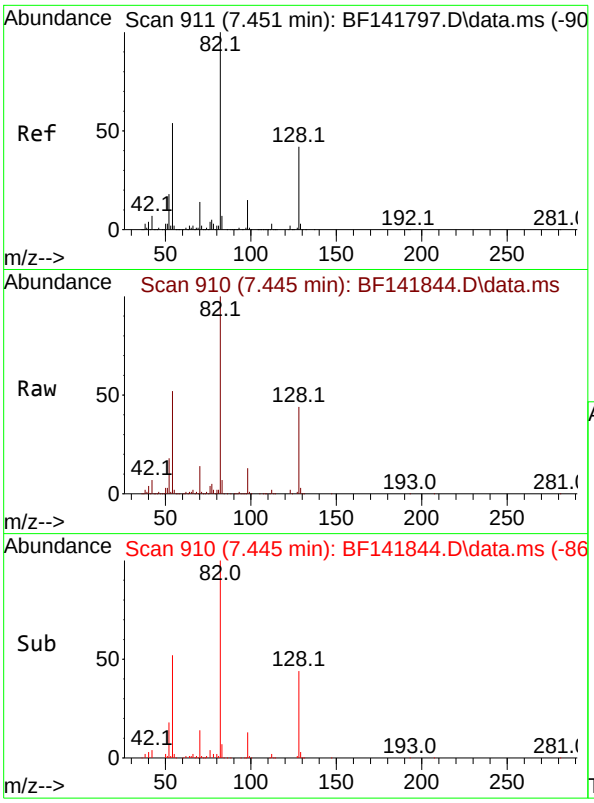



#22
Acetophenone
Concen: 46.254 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:105 Resp: 827134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 7.7 | 5.4 | 8.0 |
| 51 | 30.6 | 26.1 | 39.1 |
| 120 | 22.5 | 17.5 | 26.3 |

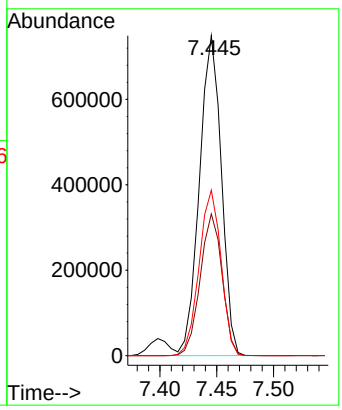





#23
Nitrobenzene-d5
Concen: 87.407 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 82 Resp: 100401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.3 | 33.5 | 50.3 |
| 54 | 51.7 | 42.7 | 64.1 |

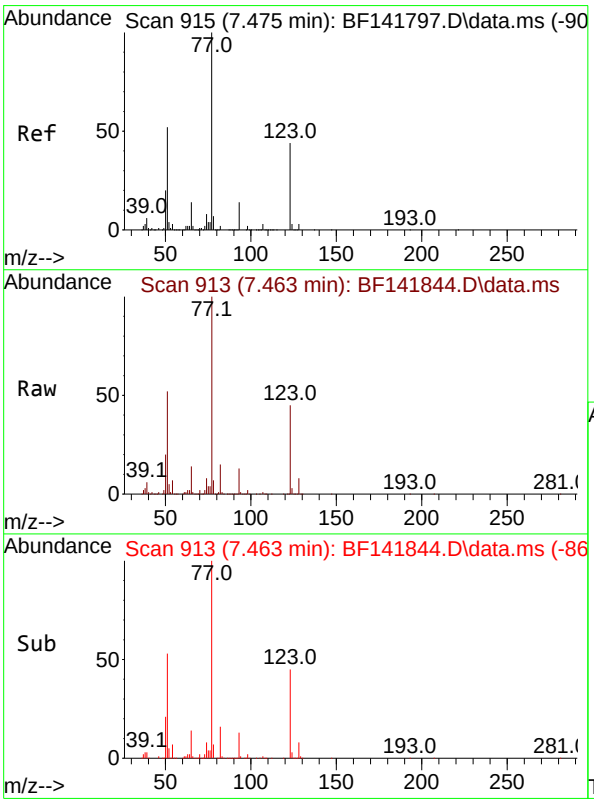



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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03/06/2025

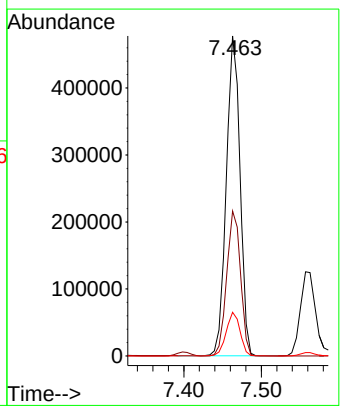
Supervised By :Jagrut Upadhyay
03/06/2025

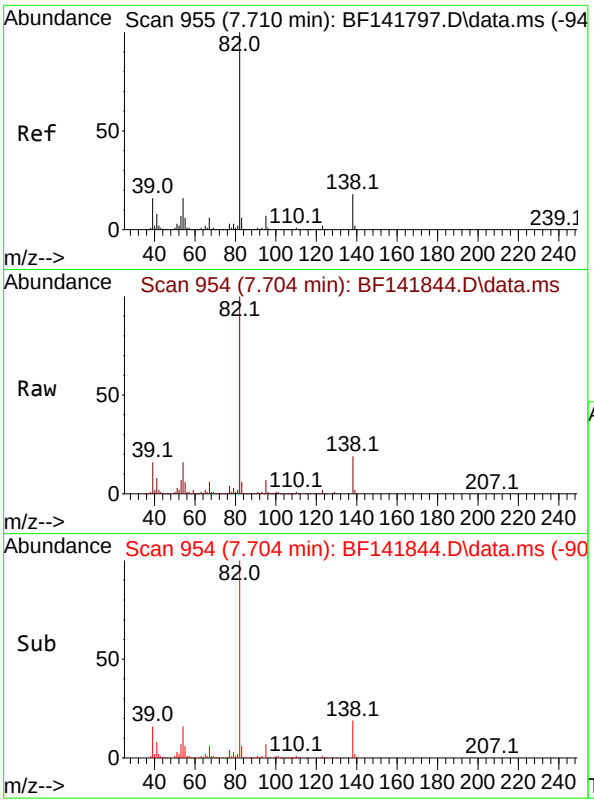



#24
Nitrobenzene
Concen: 47.838 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 77 Resp: 588435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 45.3 | 35.8 | 53.8 |
| 65 | 13.6 | 11.2 | 16.8 |

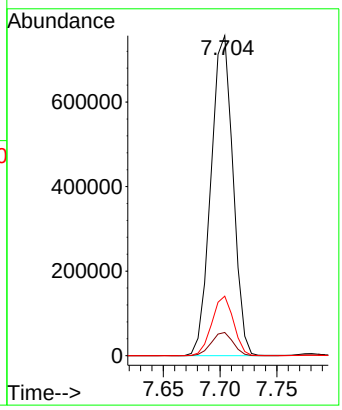





#25
Isophorone
Concen: 41.482 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 82 Resp: 102367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.3 | 5.8 | 8.8 |
| 138 | 18.6 | 14.0 | 21.0 |

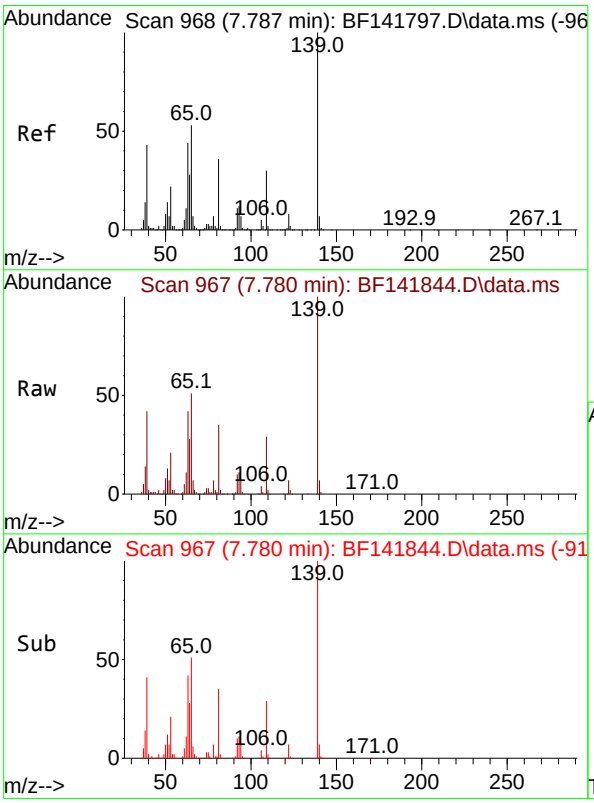



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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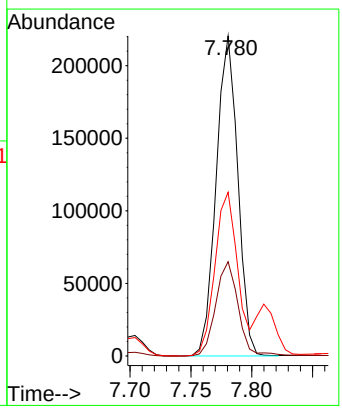
Supervised By :Jagrut Upadhyay
03/06/2025

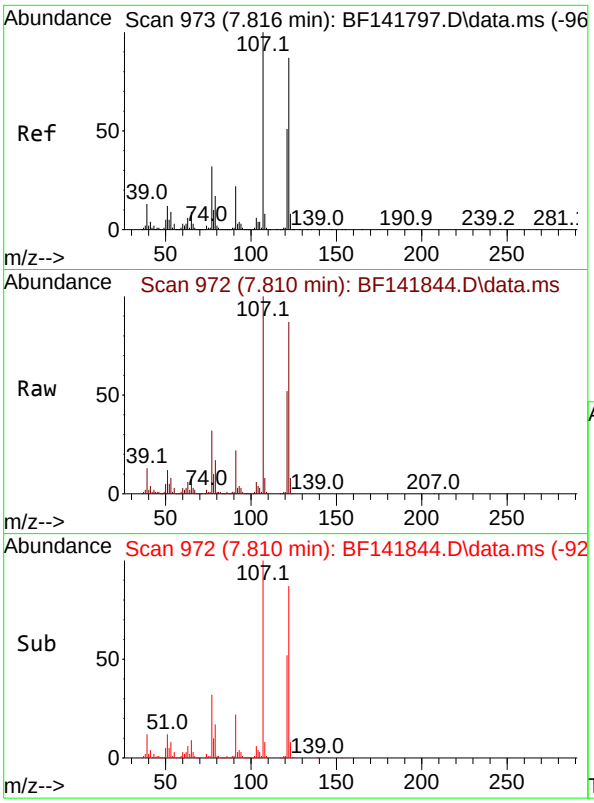



#26
2-Nitrophenol
Concen: 49.470 ng
RT: 7.780 min Scan# 967
Delta R.T. -0.007 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:139 Resp: 272681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 29.5 | 24.1 | 36.1 |
| 65 | 51.2 | 42.3 | 63.5 |

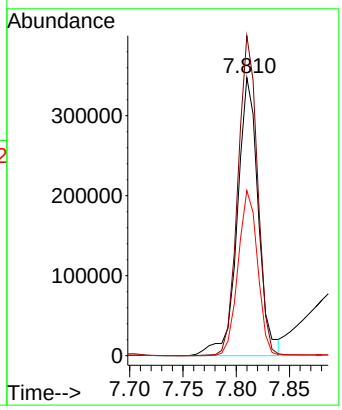





#27
2,4-Dimethylphenol
Concen: 52.462 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:122 Resp: 47590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 115.1 | 92.5 | 138.7 |
| 121 | 59.4 | 47.1 | 70.7 |

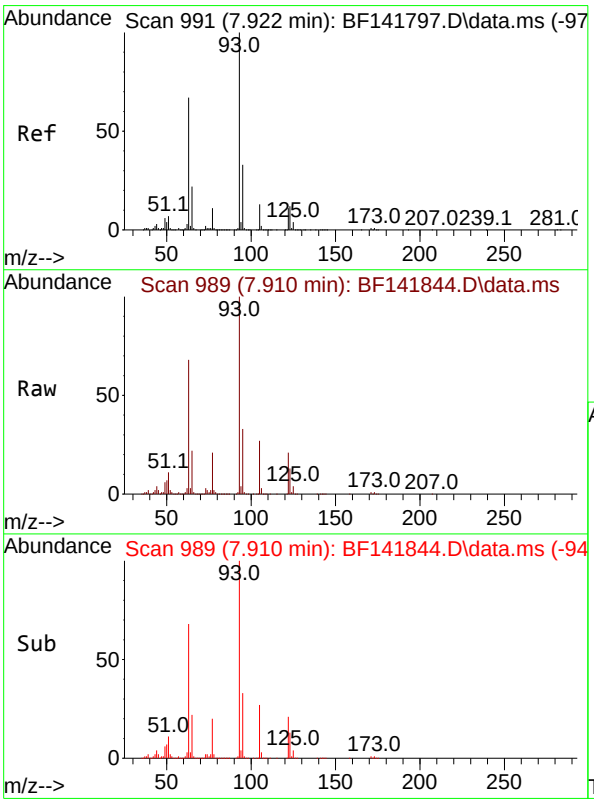



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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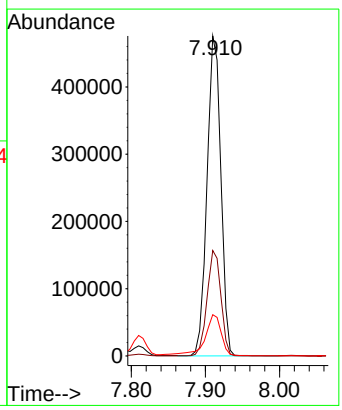
Supervised By :Jagrut Upadhyay
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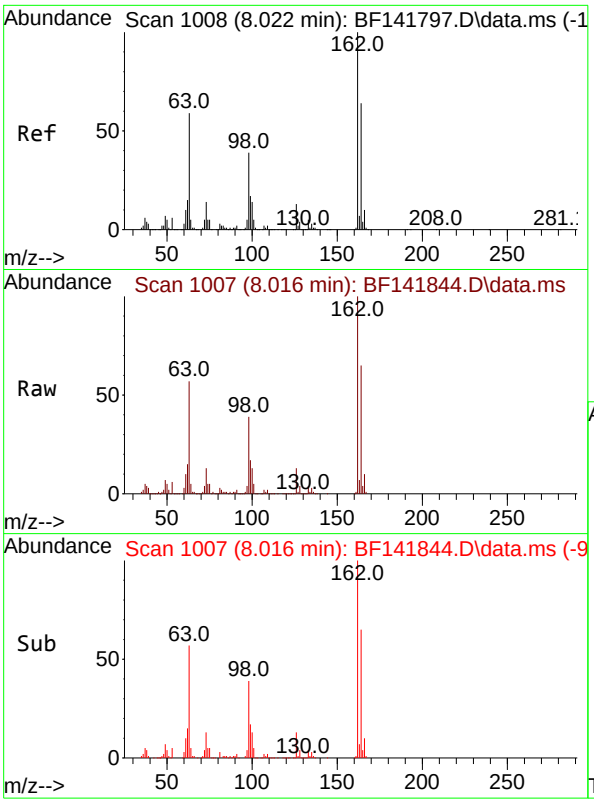



#28
bis(2-Chloroethoxy)methane
Concen: 39.071 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 93 Resp: 615055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.9 | 26.5 | 39.7 |
| 123 | 12.9 | 10.0 | 15.0 |

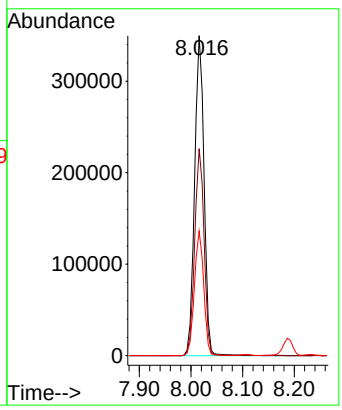





#29
2,4-Dichlorophenol
Concen: 42.337 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:162 Resp: 44305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.7 | 44.3 | 84.3 |
| 98 | 39.0 | 19.6 | 59.6 |

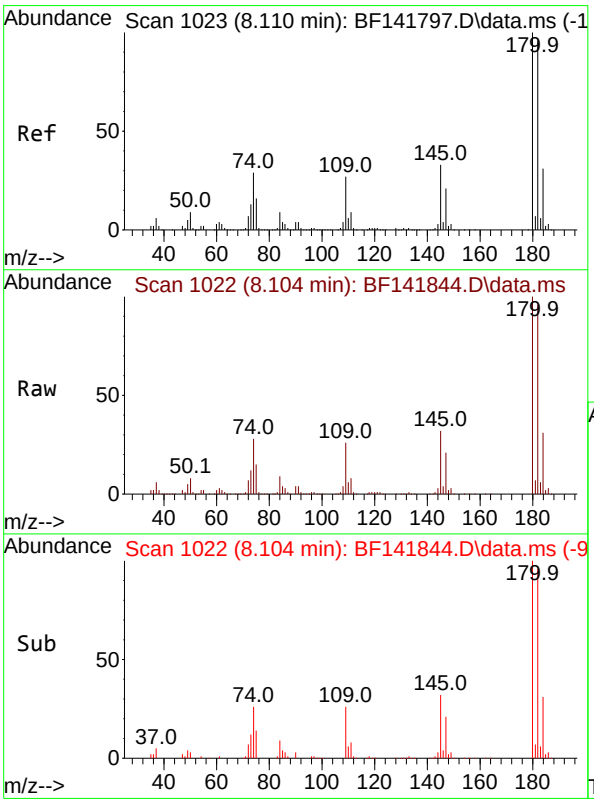



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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Reviewed By :Anahy Claudio
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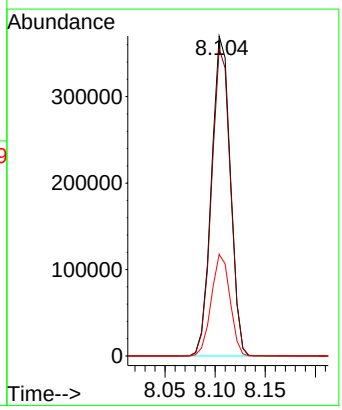
Supervised By :Jagrut Upadhyay
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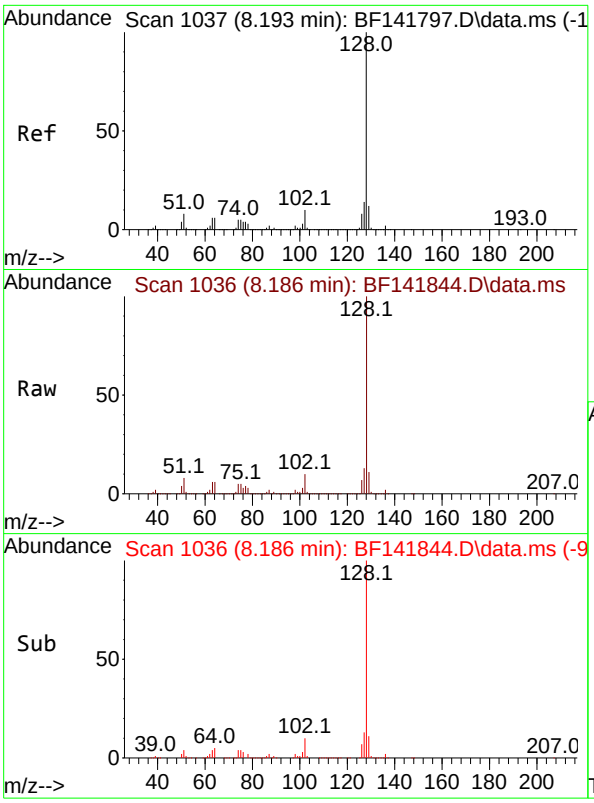



#30
1,2,4-Trichlorobenzene
Concen: 42.221 ng
RT: 8.104 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:180 Resp: 484159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.0 | 76.8 | 115.2 |
| 145 | 31.8 | 26.4 | 39.6 |

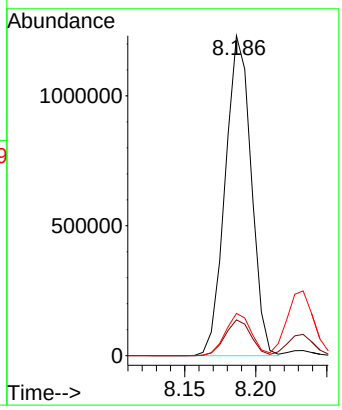





#31
Naphthalene
Concen: 41.484 ng
RT: 8.186 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:128 Resp: 156547(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.2 | 9.2 | 13.8 |
| 127 | 13.2 | 11.0 | 16.4 |

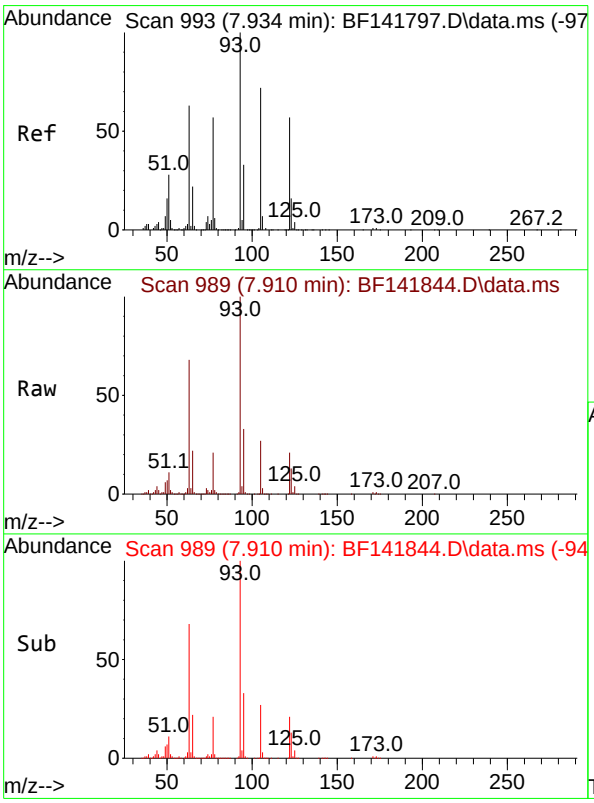



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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Reviewed By :Anahy Claudio
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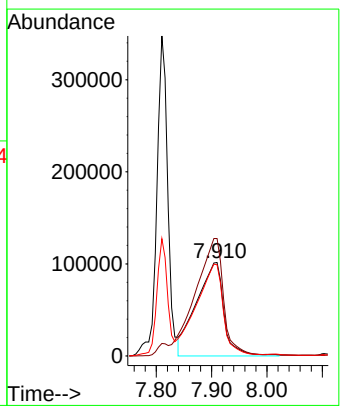
Supervised By :Jagrut Upadhyay
03/06/2025

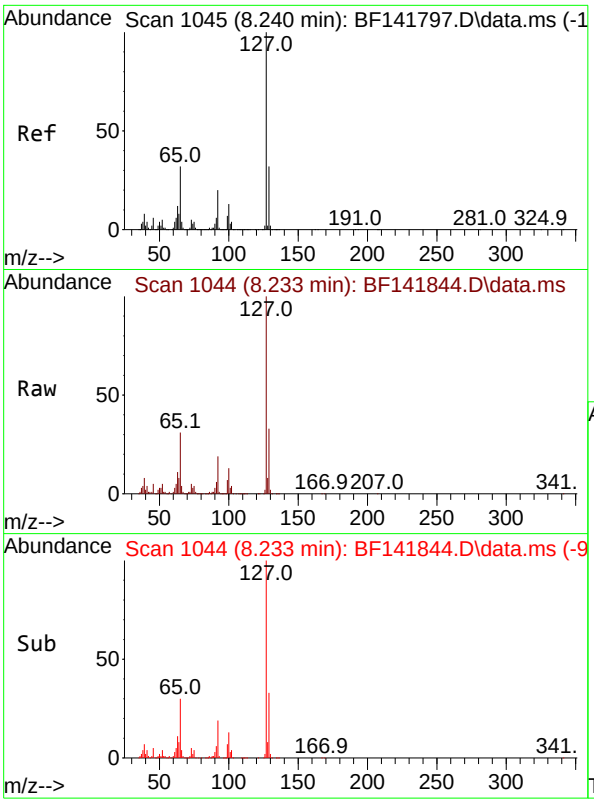



#32
Benzoic acid
Concen: 46.845 ng m
RT: 7.910 min Scan# 989
Delta R.T. -0.024 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:122 Resp: 353009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 125.6 | 105.8 | 145.8 |
| 77 | 97.6 | 79.9 | 119.9 |

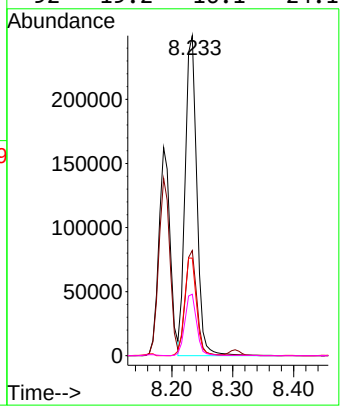





#33
4-Chloroaniline
Concen: 24.016 ng
RT: 8.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:127 Resp: 33229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.9 | 26.1 | 39.1 |
| 65 | 30.5 | 25.7 | 38.5 |
| 92 | 19.2 | 16.1 | 24.1 |

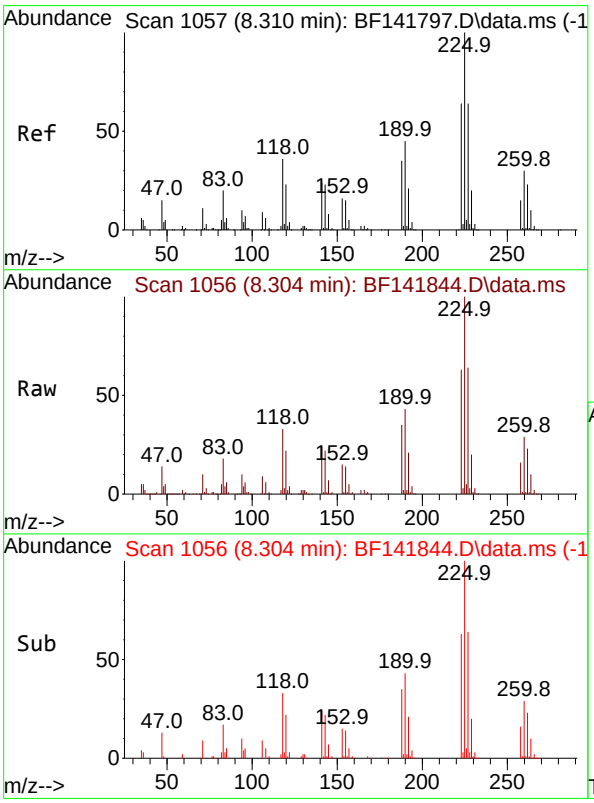



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio
03/06/2025

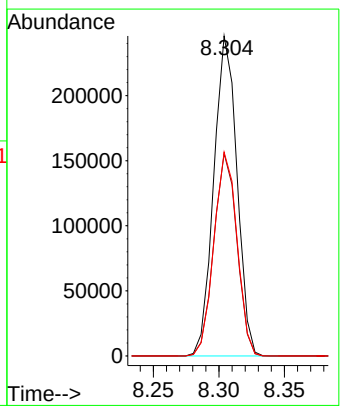
Supervised By :Jagrut Upadhyay
03/06/2025

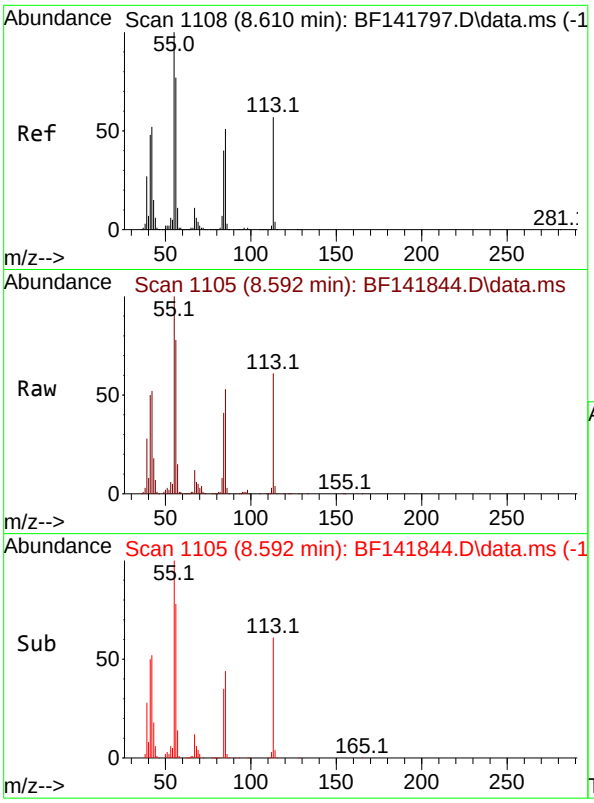



#34
Hexachlorobutadiene
Concen: 42.314 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:225 Resp: 301524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.2 | 51.4 | 77.2 |
| 227 | 63.7 | 51.6 | 77.4 |

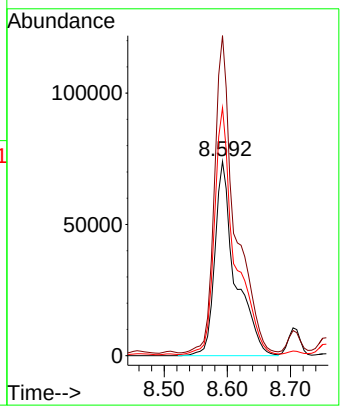





#35
Caprolactam
Concen: 51.511 ng
RT: 8.592 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:113 Resp: 16583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 164.7 | 155.6 | 195.6 |
| 56 | 127.6 | 114.6 | 154.6 |

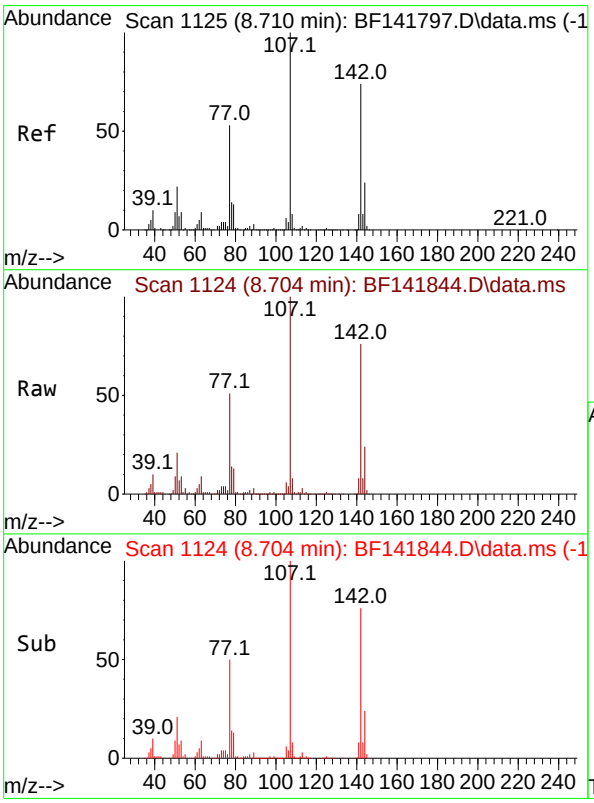



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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03/06/2025

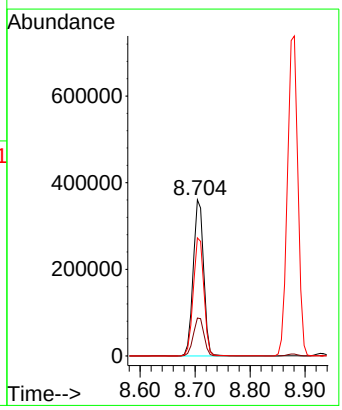
Supervised By :Jagrut Upadhyay
03/06/2025

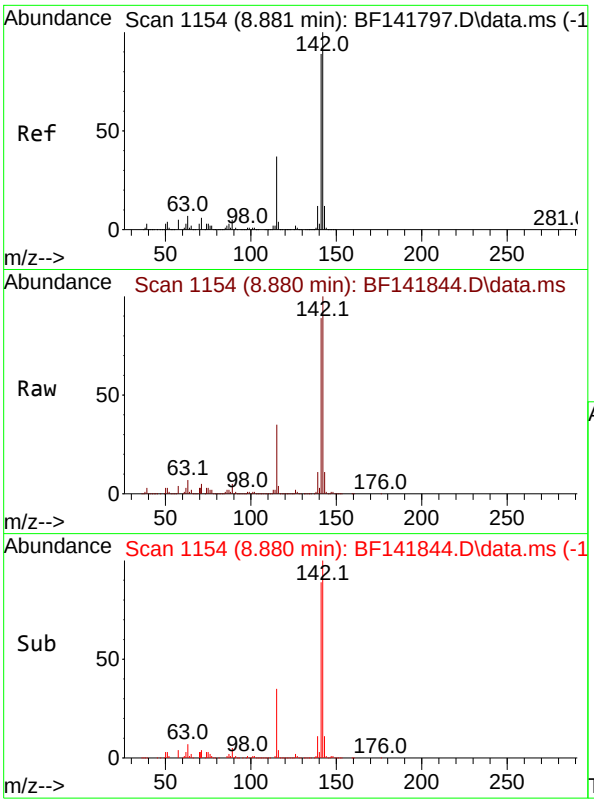



#36
4-Chloro-3-methylphenol
Concen: 41.065 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:107 Resp: 477385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 24.3 | 19.4 | 29.0 |
| 142 | 75.6 | 59.4 | 89.0 |

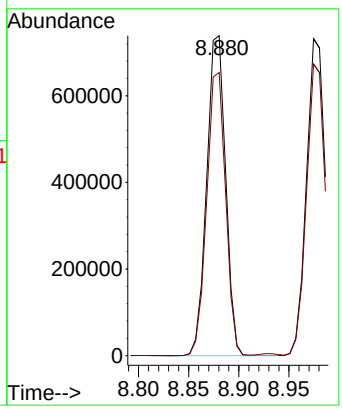





#37
2-Methylnaphthalene
Concen: 39.255 ng
RT: 8.880 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:142 Resp: 97164

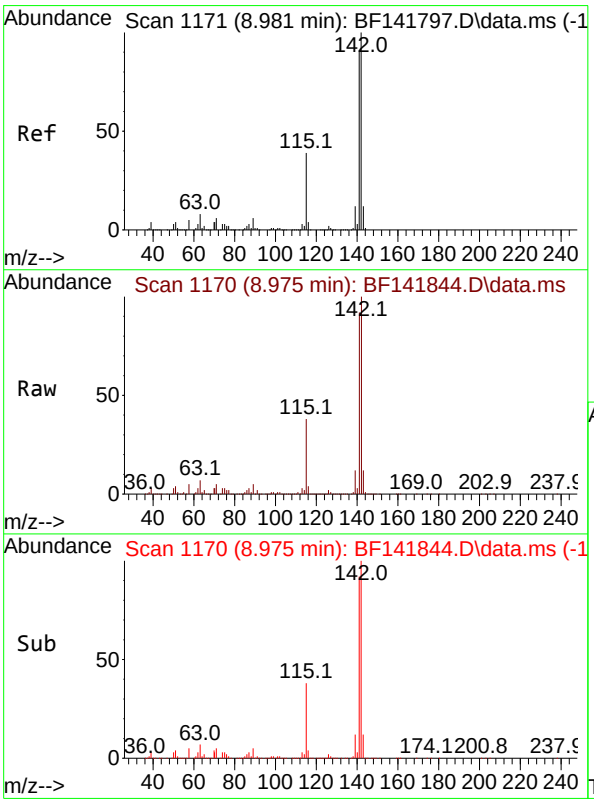
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 88.5 | 71.1 | 106.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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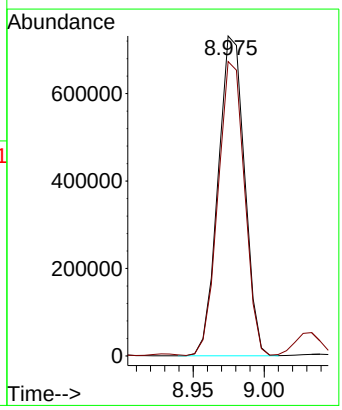
Reviewed By :Anahy Claudio
03/06/2025
Supervised By :Jagrut Upadhyay
03/06/2025

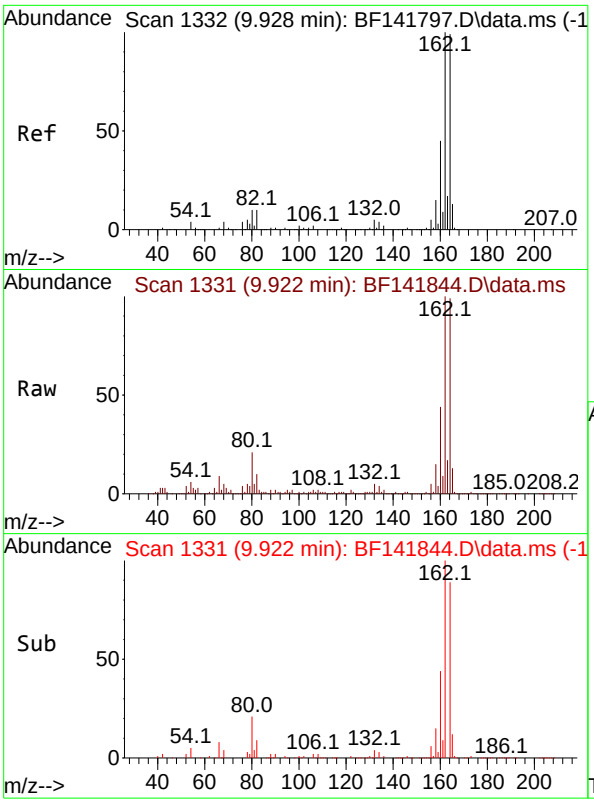



#38
1-Methylnaphthalene
Concen: 39.973 ng
RT: 8.975 min Scan# 1170
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:142 Resp: 949369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 92.0 | 73.1 | 109.7 |

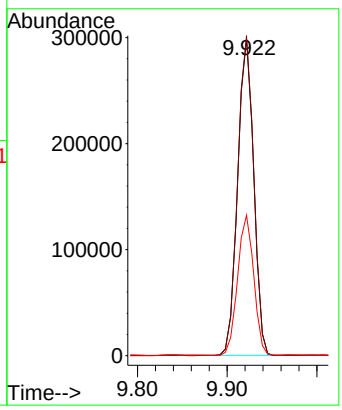





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:164 Resp: 37002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 101.0 | 80.6 | 120.8 |
| 160 | 44.3 | 36.3 | 54.5 |

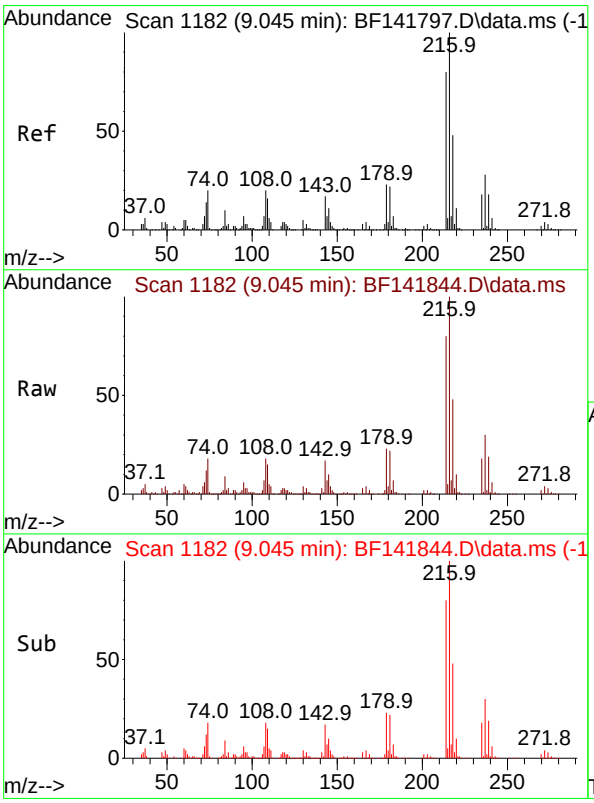



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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Reviewed By :Anahy Claudio
03/06/2025

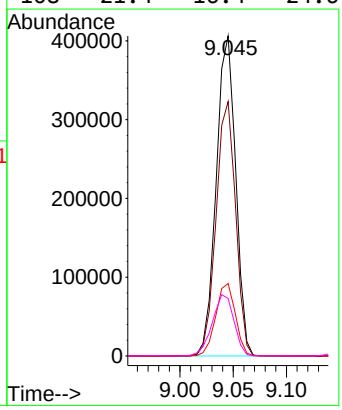
Supervised By :Jagrut Upadhyay
03/06/2025

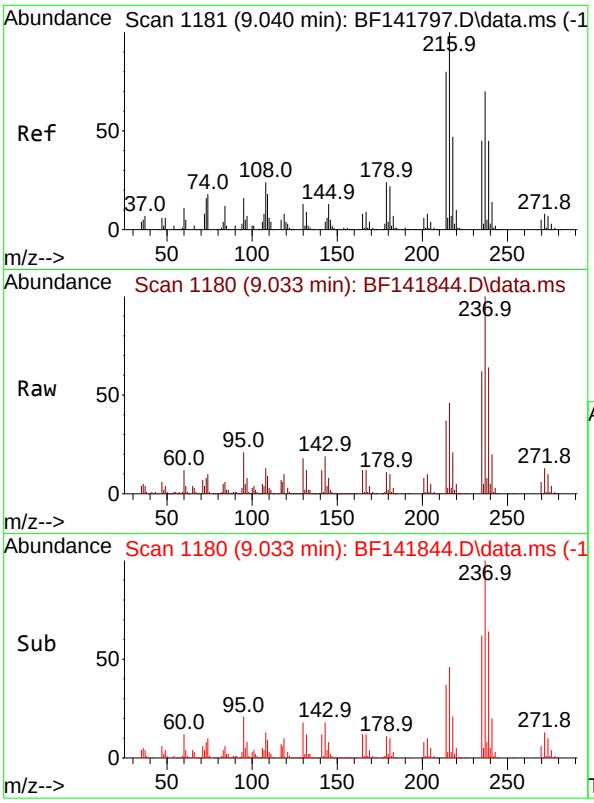



#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.211 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:216 Resp: 515221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 79.6 | 63.5 | 95.3 |
| 179 | 23.0 | 18.1 | 27.1 |
| 108 | 21.4 | 16.4 | 24.6 |

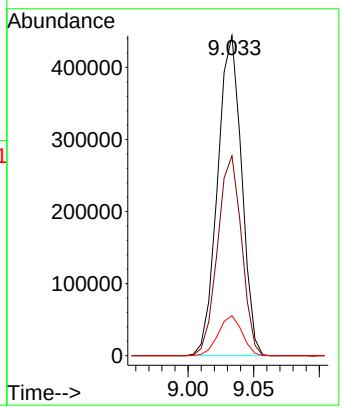





#41
Hexachlorocyclopentadiene
Concen: 126.697 ng
RT: 9.033 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:237 Resp: 56505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 62.5 | 43.3 | 83.3 |
| 272 | 12.5 | 0.0 | 31.9 |

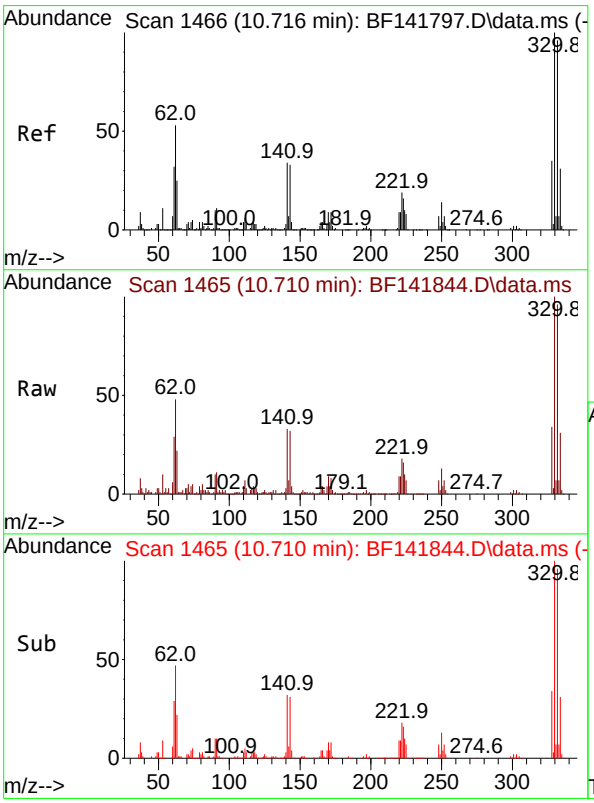



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio
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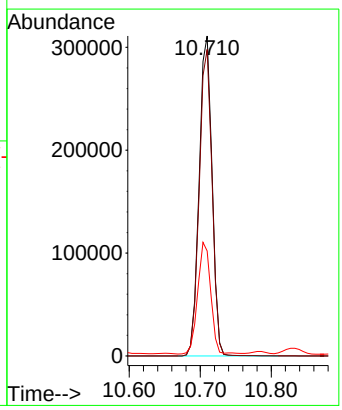
Supervised By :Jagrut Upadhyay
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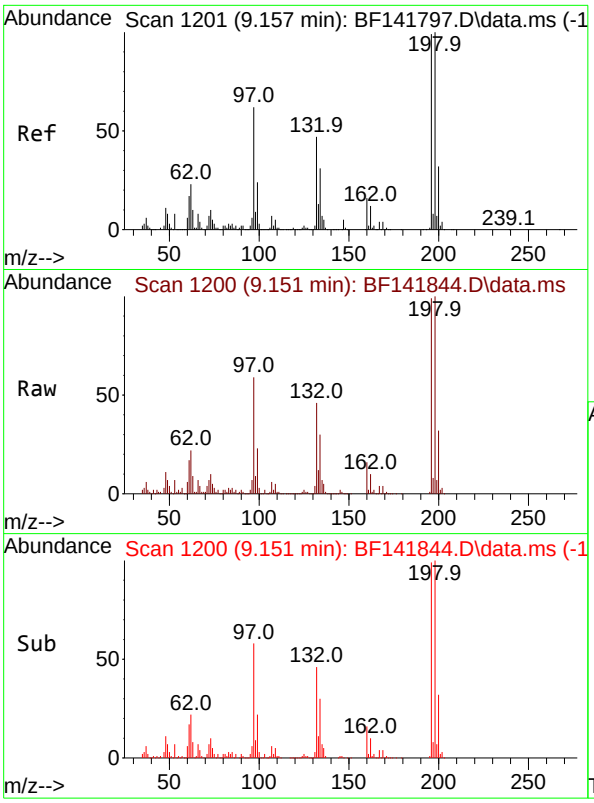



#42
2,4,6-Tribromophenol
Concen: 113.326 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:330 Resp: 393680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 95.7 | 76.6 | 115.0 |
| 141 | 35.4 | 29.0 | 43.4 |

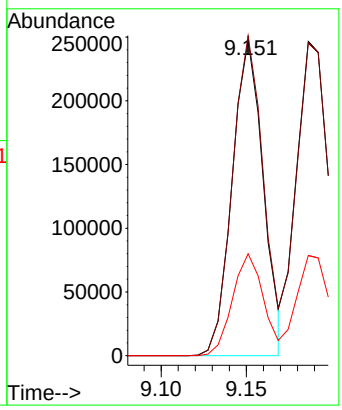





#43
2,4,6-Trichlorophenol
Concen: 45.449 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:196 Resp: 31374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 101.4 | 80.4 | 120.6 |
| 200 | 32.3 | 25.7 | 38.5 |

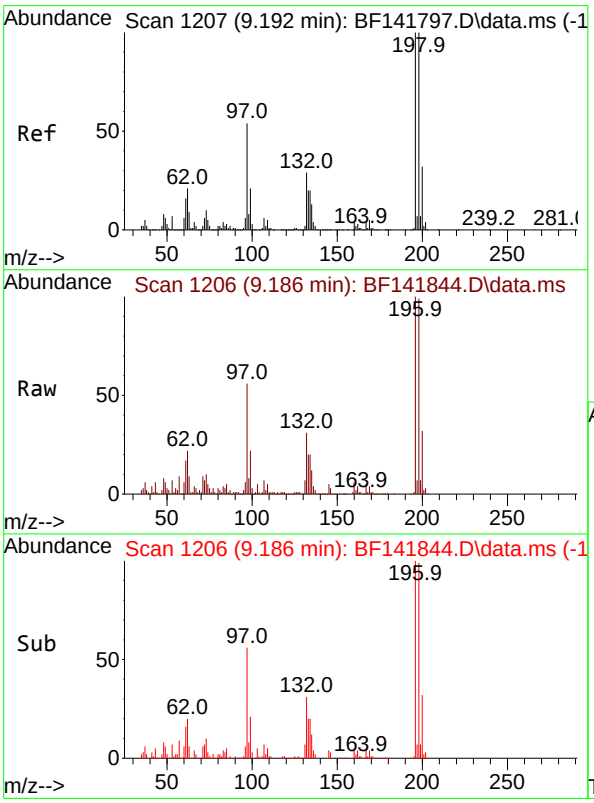



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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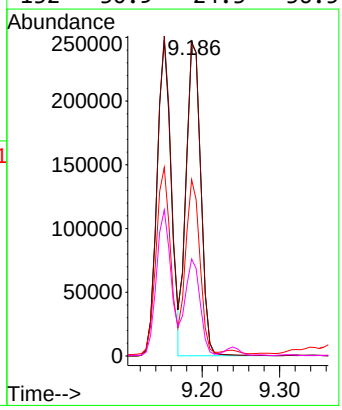
Supervised By :Jagrut Upadhyay
03/06/2025

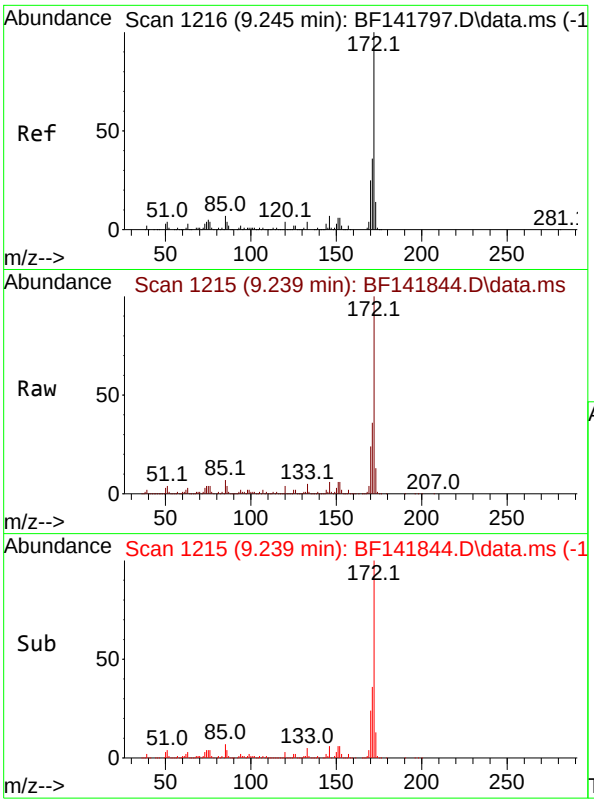



#44
2,4,5-Trichlorophenol
Concen: 47.324 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:196 Resp: 323494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 99.5 | 79.7 | 119.5 |
| 97 | 56.1 | 44.2 | 66.2 |
| 132 | 30.9 | 24.3 | 36.5 |

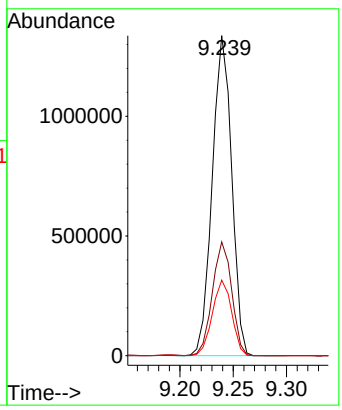





#45
2-Fluorobiphenyl
Concen: 73.287 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:172 Resp: 169123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.5 | 29.2 | 43.8 |
| 170 | 23.6 | 19.7 | 29.5 |

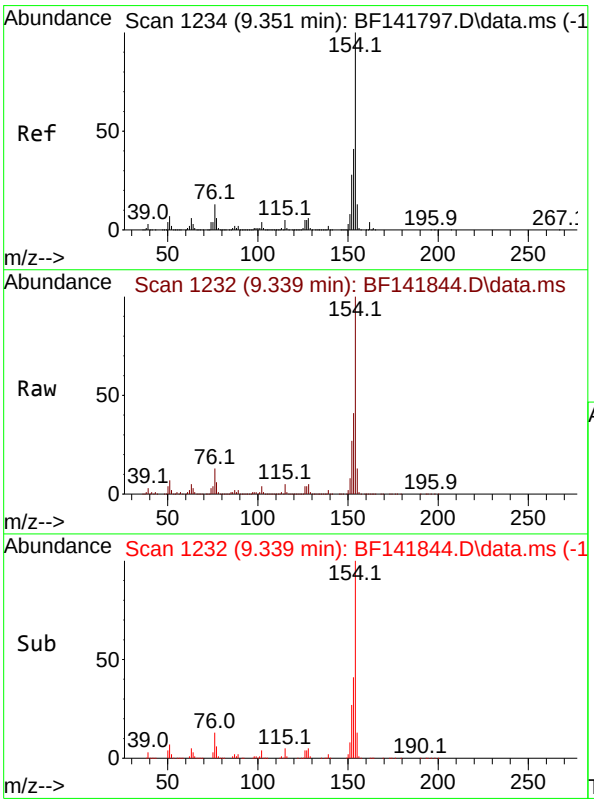



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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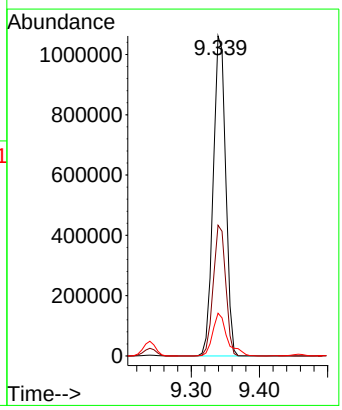
Supervised By :Jagrut Upadhyay
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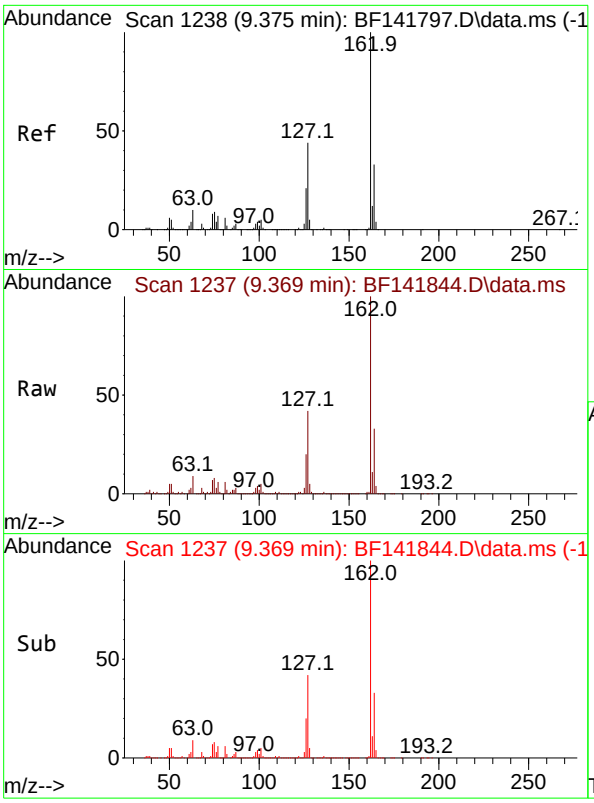



#46
1,1'-Biphenyl
Concen: 48.058 ng
RT: 9.339 min Scan# 1232
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:154 Resp: 1353556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.8 | 21.4 | 61.4 |
| 76 | 13.3 | 0.0 | 33.4 |

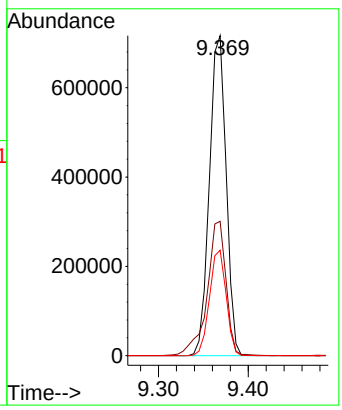





#47
2-Chloronaphthalene
Concen: 44.688 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:162 Resp: 92897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 42.0 | 35.0 | 52.6 |
| 164 | 32.9 | 26.6 | 40.0 |

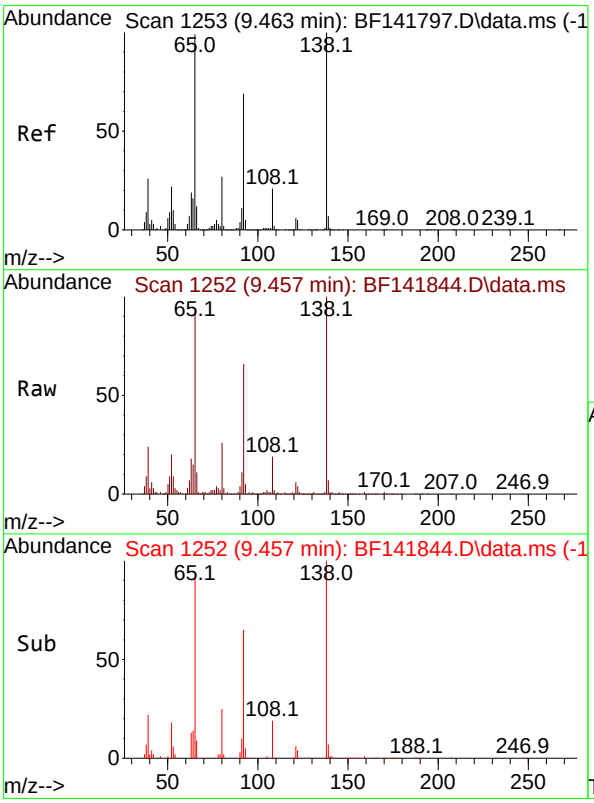



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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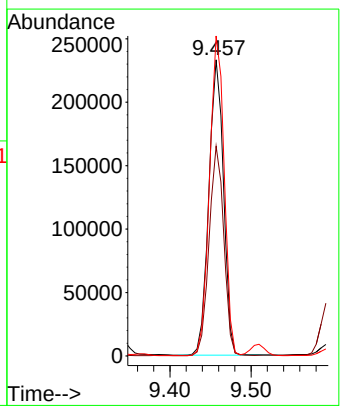
Supervised By :Jagrut Upadhyay
03/06/2025

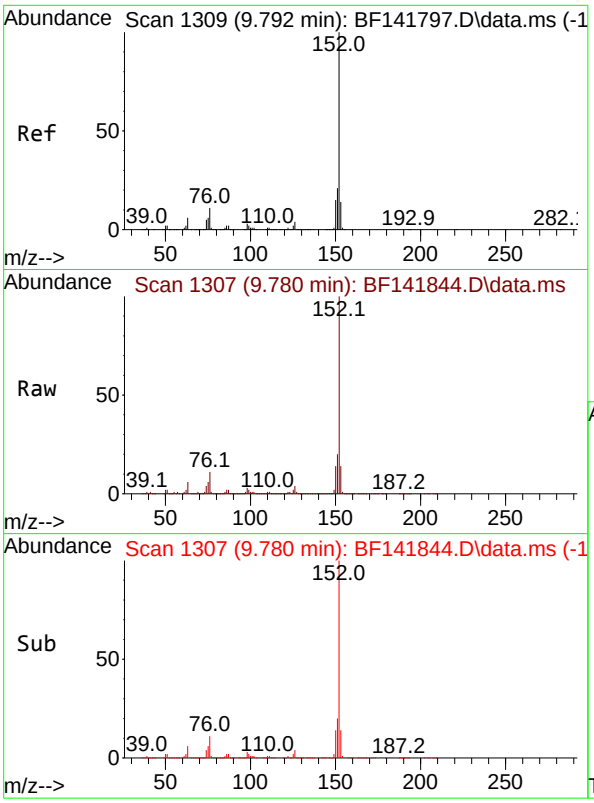



#48
2-Nitroaniline
Concen: 50.994 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 65 Resp: 291855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 70.8 | 55.7 | 83.5 |
| 138 | 108.0 | 80.6 | 121.0 |

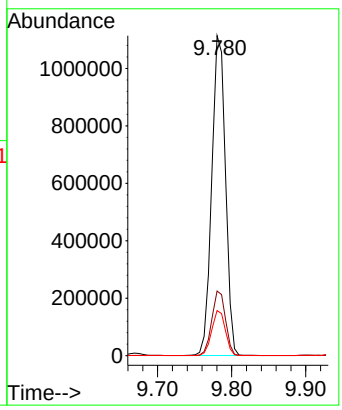





#49
Acenaphthylene
Concen: 45.995 ng
RT: 9.780 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:152 Resp: 143353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.2 | 16.6 | 24.8 |
| 153 | 14.1 | 11.2 | 16.8 |

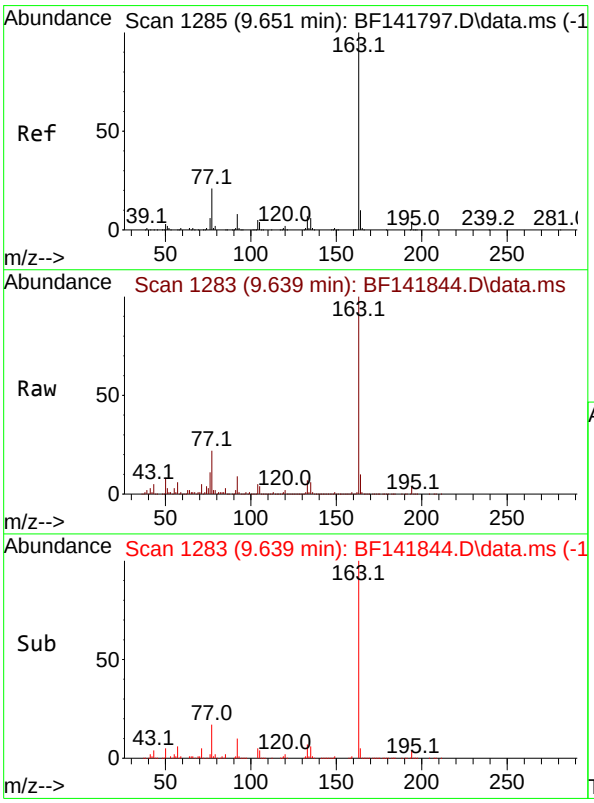



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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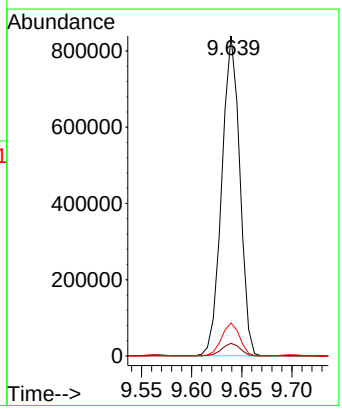
Supervised By :Jagrut Upadhyay
03/06/2025

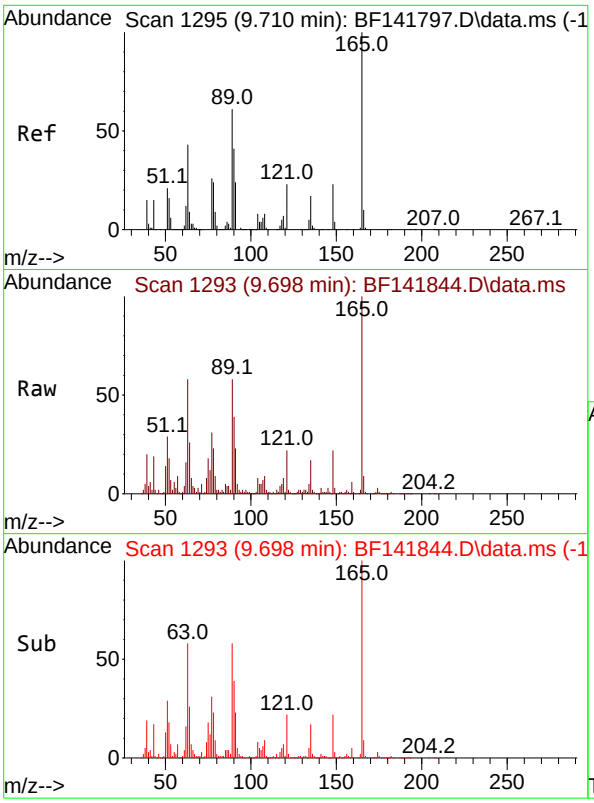



#50
Dimethylphthalate
Concen: 42.329 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:163 Resp: 1048895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.0 | 3.1 | 4.7 |
| 164 | 10.3 | 8.4 | 12.6 |

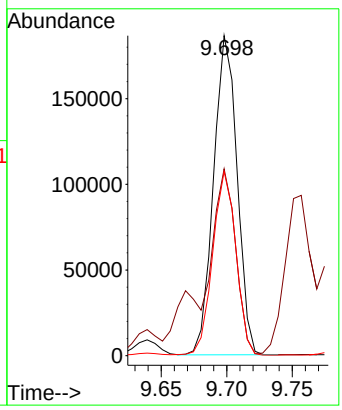





#51
2,6-Dinitrotoluene
Concen: 48.952 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:165 Resp: 23233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 58.4 | 49.5 | 74.3 |
| 89 | 57.5 | 49.0 | 73.4 |

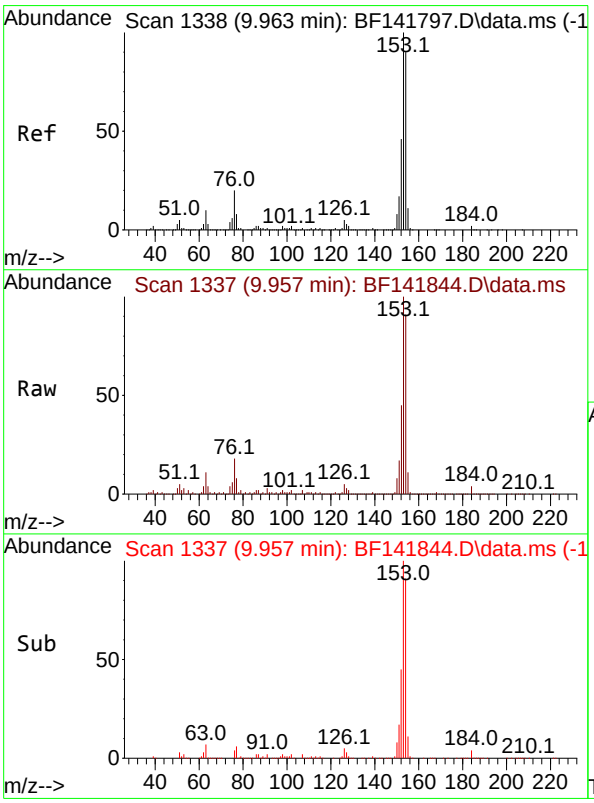



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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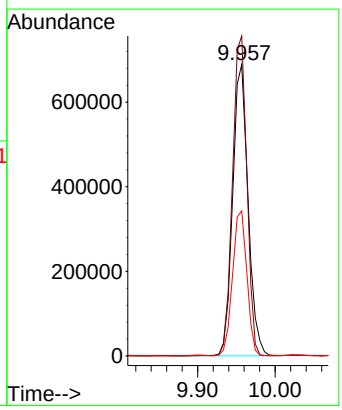
Supervised By :Jagrut Upadhyay
03/06/2025

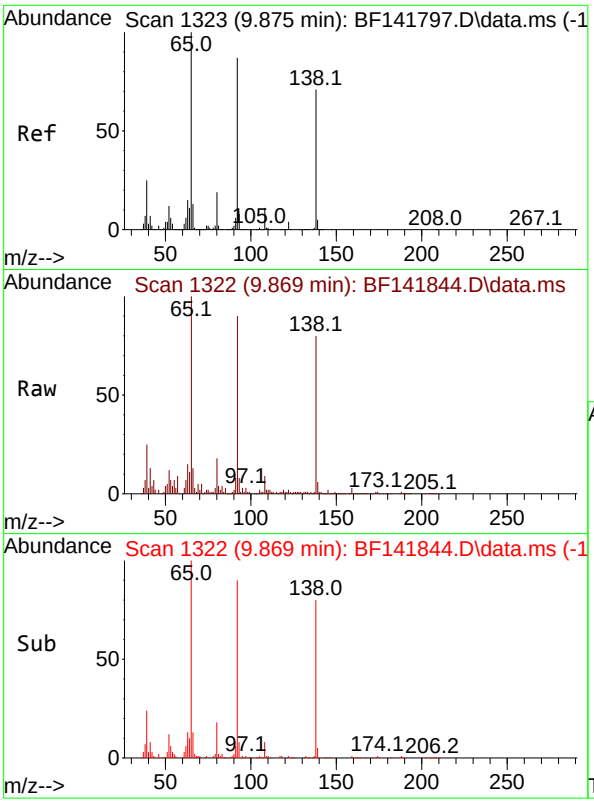



#52
Acenaphthene
Concen: 45.394 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:154 Resp: 954639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 109.8 | 88.7 | 133.1 |
| 152 | 49.8 | 40.9 | 61.3 |

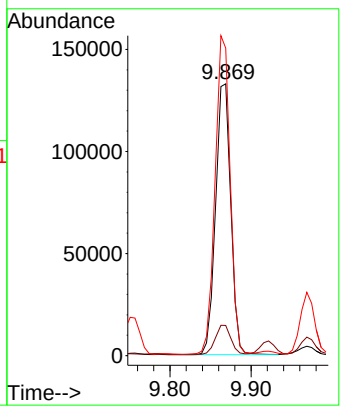





#53
3-Nitroaniline
Concen: 35.128 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:138 Resp: 17309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.1 | 12.7 | 19.1# |
| 92 | 113.1 | 97.9 | 146.9 |

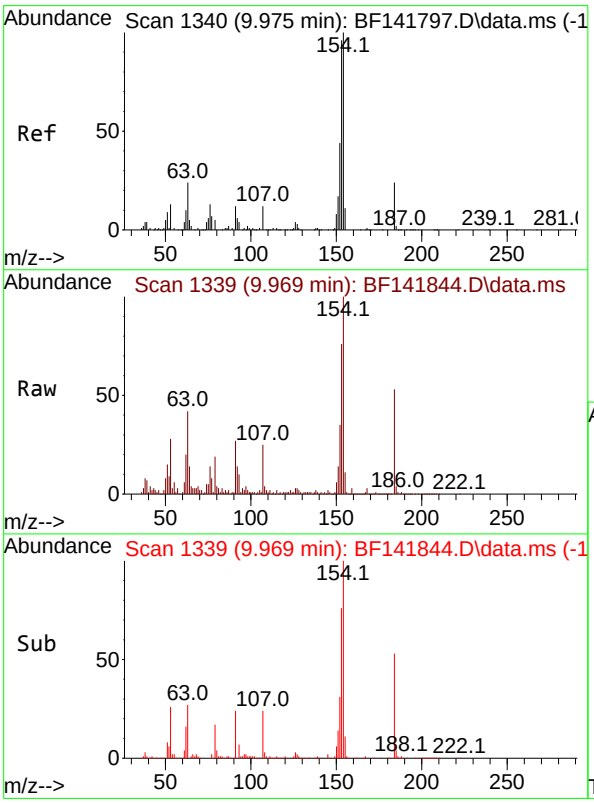



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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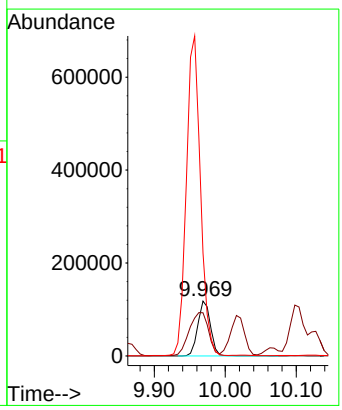
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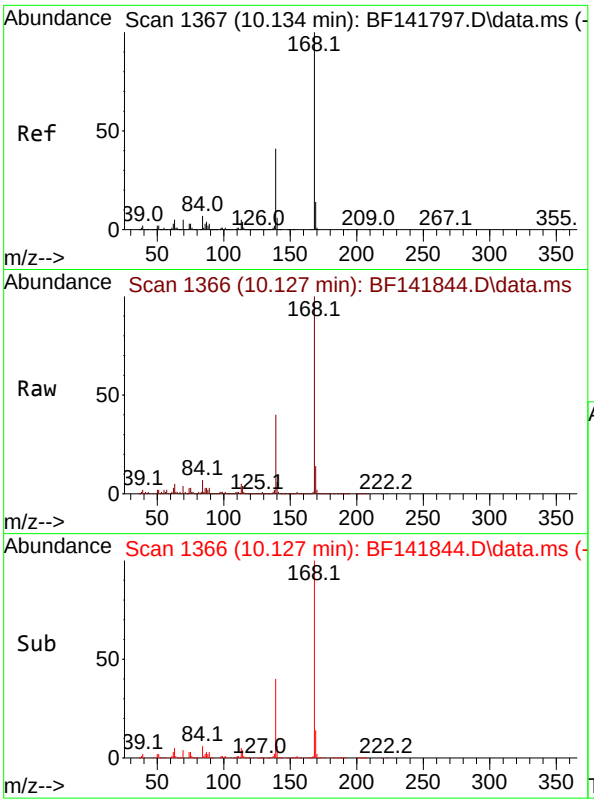



#54
2,4-Dinitrophenol
Concen: 70.645 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:184 Resp: 147123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 78.7 | 79.0 | 118.6# |
| 154 | 187.9 | 335.8 | 503.8# |

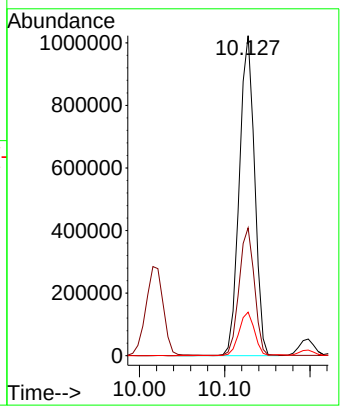





#55
Dibenzofuran
Concen: 41.477 ng
RT: 10.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:168 Resp: 126959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 39.9 | 32.9 | 49.3 |
| 169 | 13.6 | 11.1 | 16.7 |

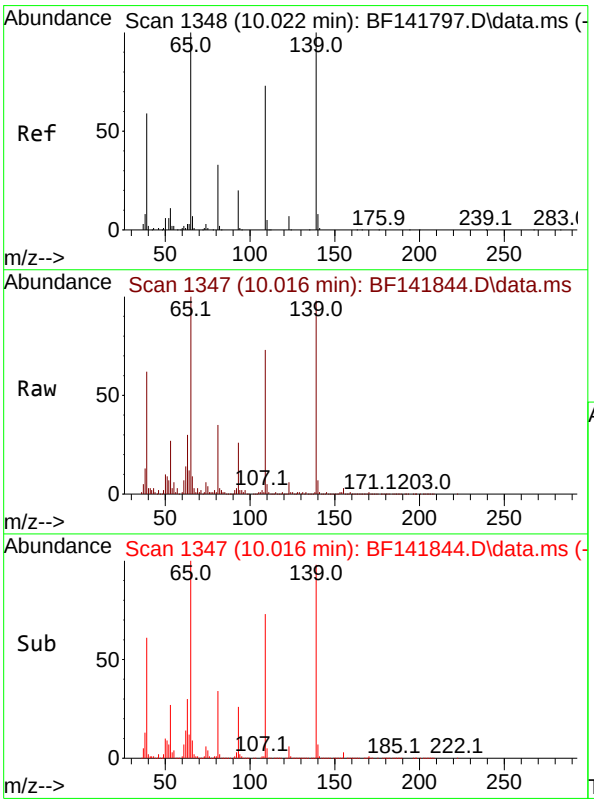



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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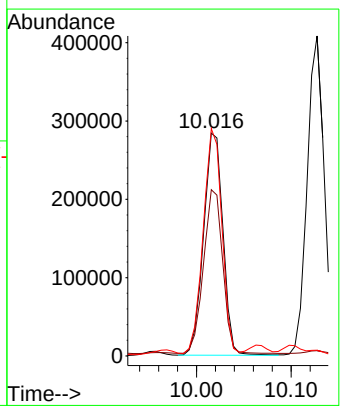
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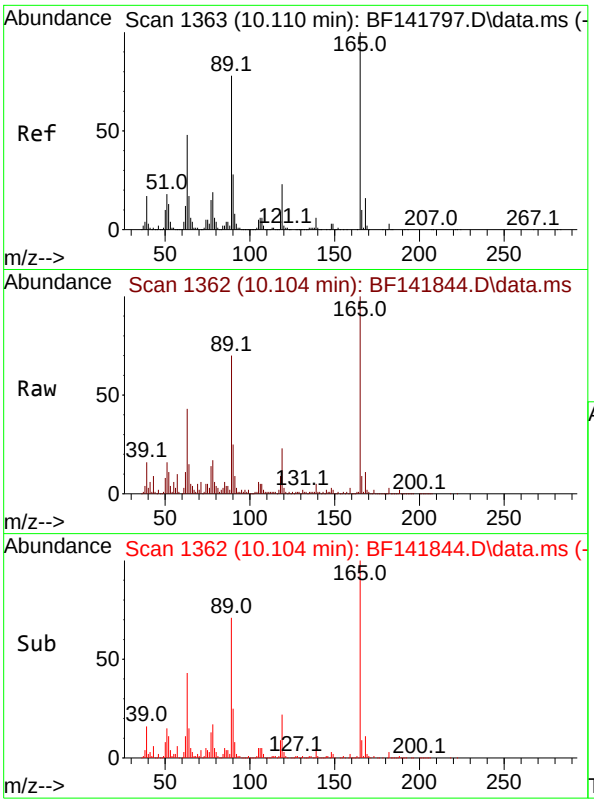



#56
4-Nitrophenol
Concen: 109.840 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:139 Resp: 401998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 74.6 | 53.4 | 93.4 |
| 65 | 102.0 | 82.1 | 122.1 |

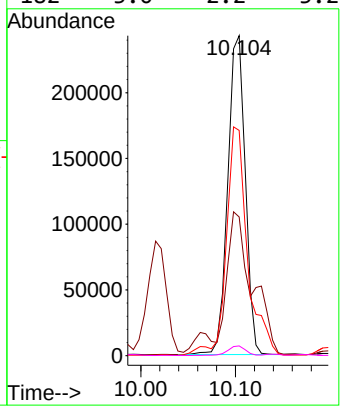





#57
2,4-Dinitrotoluene
Concen: 53.198 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:165 Resp: 31041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 43.4 | 38.8 | 58.2 |
| 89 | 70.4 | 62.6 | 94.0 |
| 182 | 3.0 | 2.2 | 3.2 |

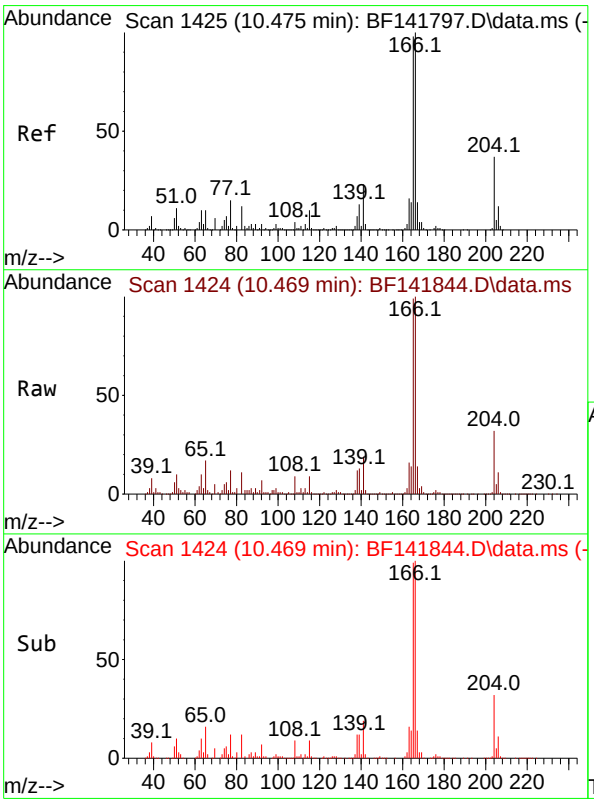



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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03/06/2025

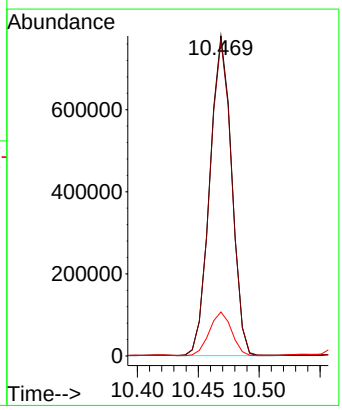
Supervised By :Jagrut Upadhyay
03/06/2025

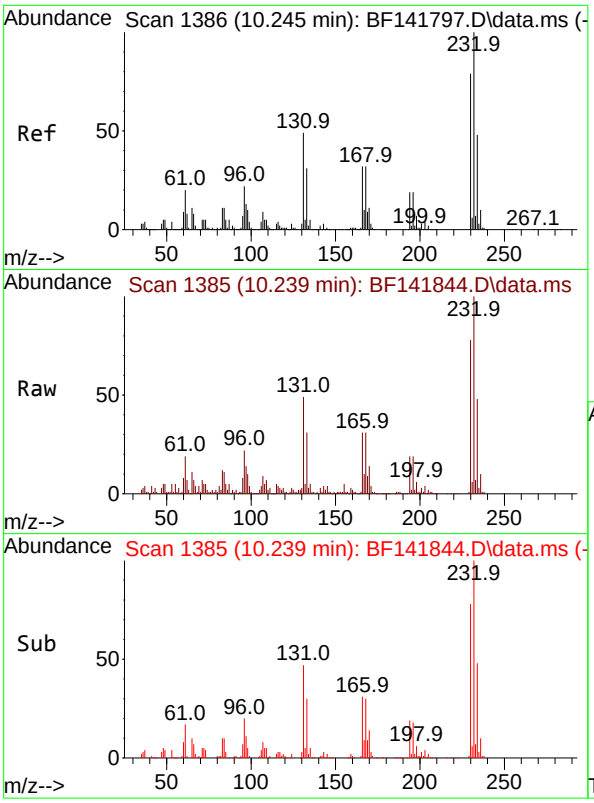



#58
Fluorene
Concen: 42.361 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:166 Resp: 971273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.6 | 78.6 | 117.8 |
| 167 | 13.7 | 11.0 | 16.4 |

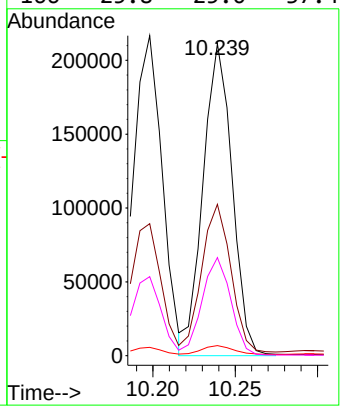





#59
2,3,4,6-Tetrachlorophenol
Concen: 43.653 ng m
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:232 Resp: 25952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 42.9 | 37.8 | 56.8 |
| 130 | 2.5 | 2.0 | 3.0 |
| 166 | 25.8 | 25.0 | 37.4 |

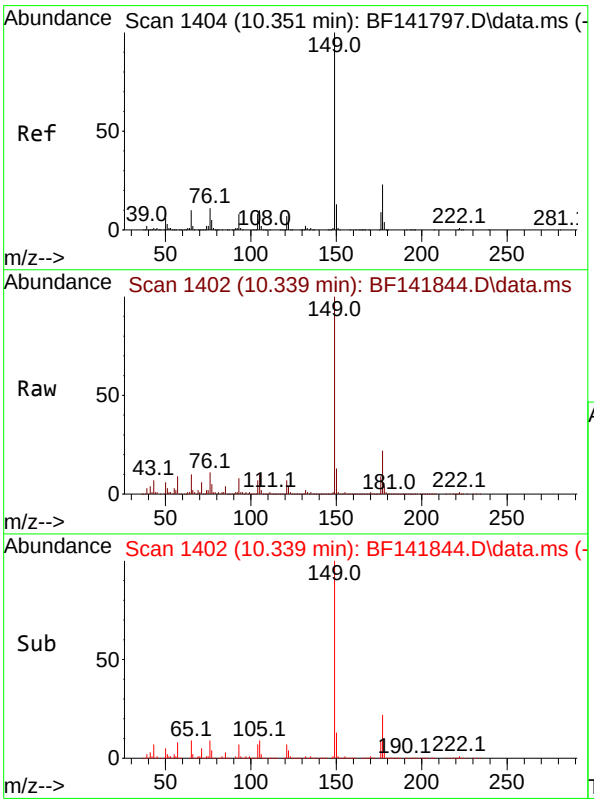



**Instrument :**
BNA_F
**ClientSampleId :**
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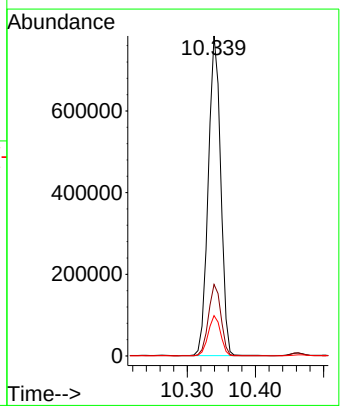
Supervised By :Jagrut Upadhyay
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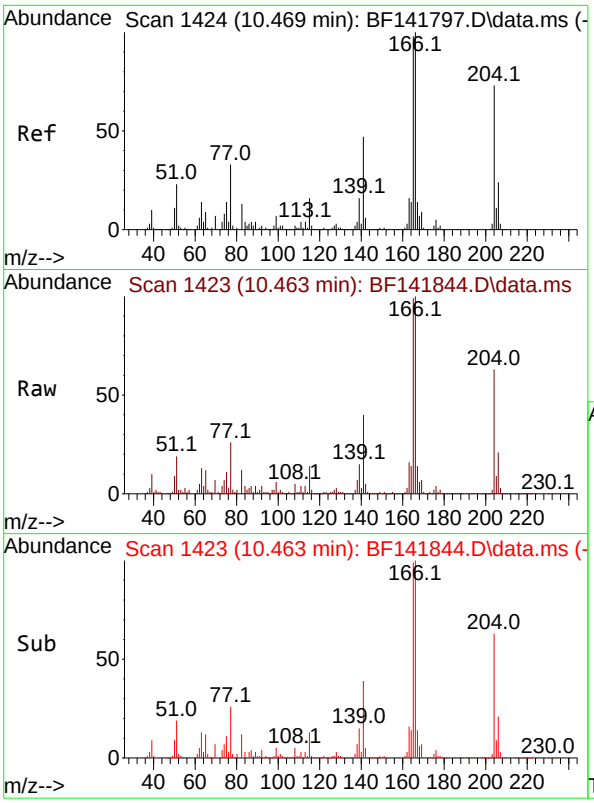



#60
Diethylphthalate
Concen: 39.903 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 991255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.4 | 18.3 | 27.5 |
| 150 | 12.6 | 10.3 | 15.5 |

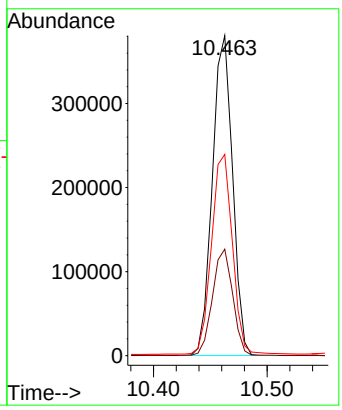





#61
4-Chlorophenyl-phenylether
Concen: 40.915 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:204 Resp: 47002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 33.3 | 26.2 | 39.4 |
| 141 | 62.9 | 51.7 | 77.5 |

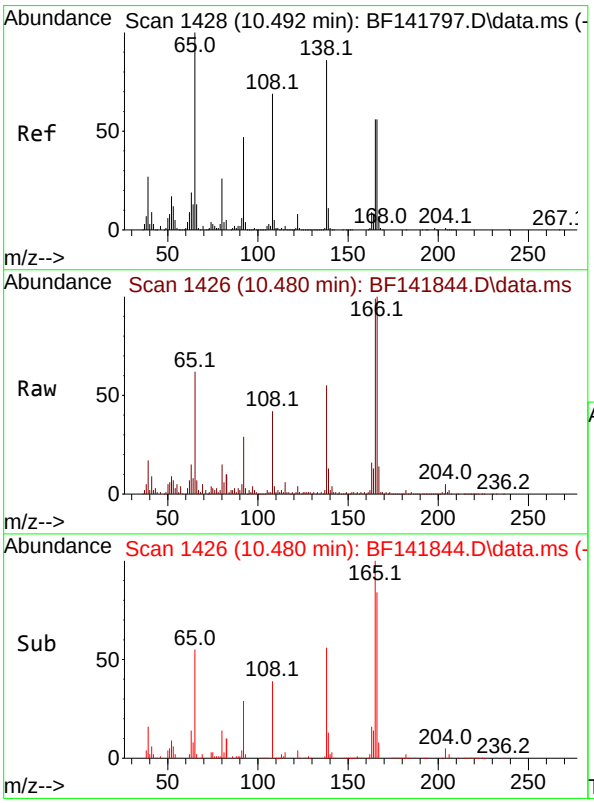



**Instrument :**
BNA_F
**ClientSampleId :**
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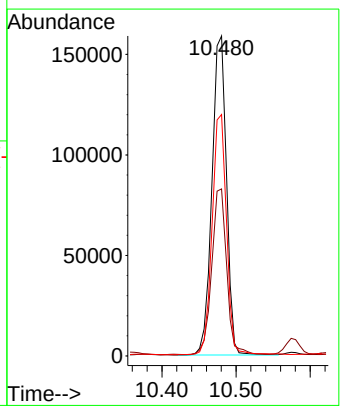
Supervised By :Jagrut Upadhyay
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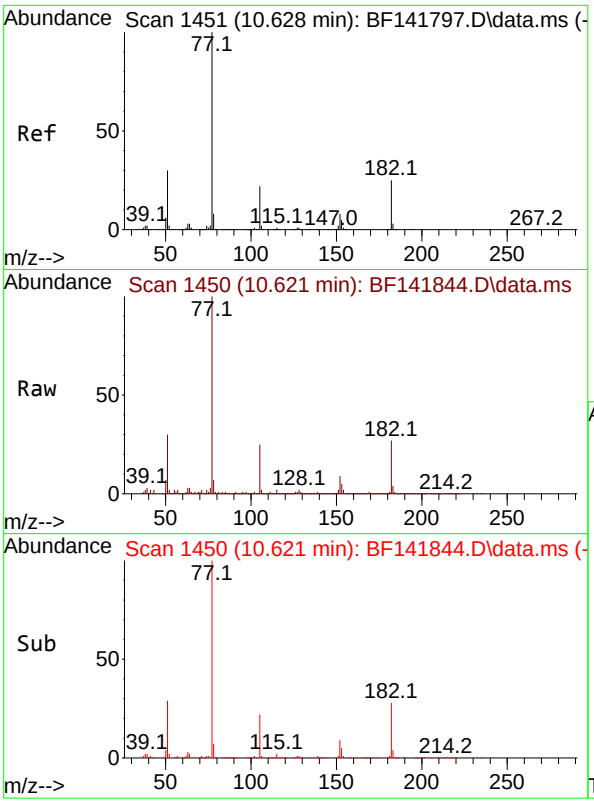



#62
4-Nitroaniline
Concen: 51.021 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:138 Resp: 215910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 52.2 | 34.9 | 74.9 |
| 108 | 75.4 | 59.6 | 99.6 |

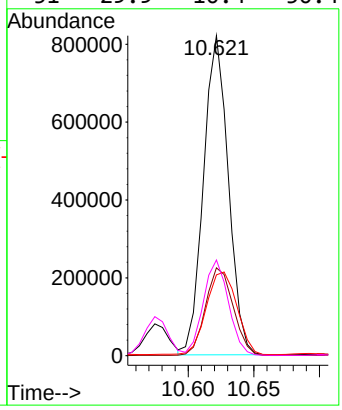





#63
Azobenzene
Concen: 41.298 ng
RT: 10.621 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 77 Resp: 108020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 27.5 | 4.2 | 44.2 |
| 105 | 25.3 | 1.5 | 41.5 |
| 51 | 29.9 | 10.4 | 50.4 |

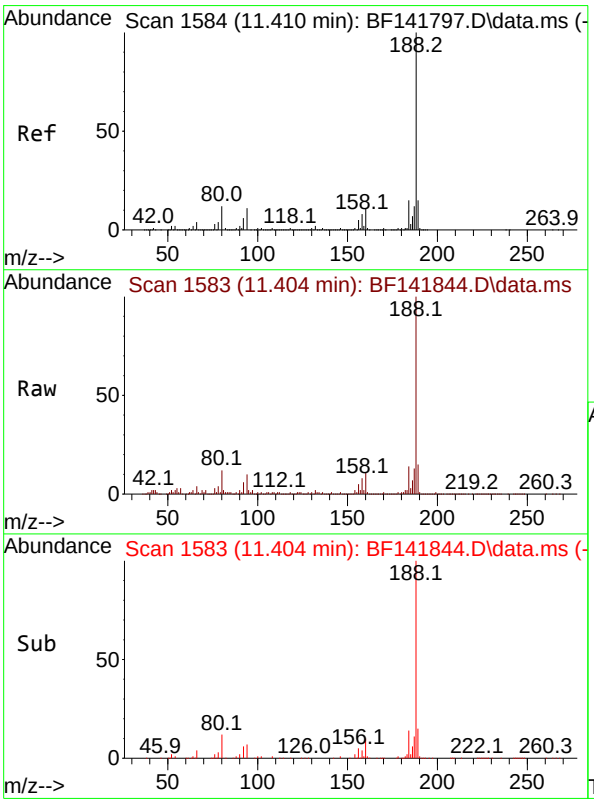



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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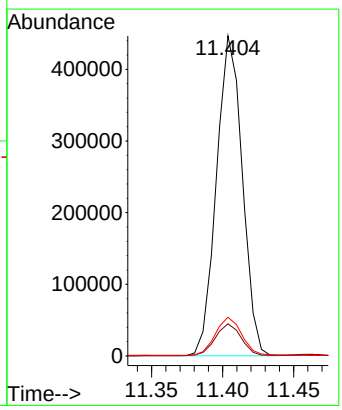
Supervised By :Jagrut Upadhyay
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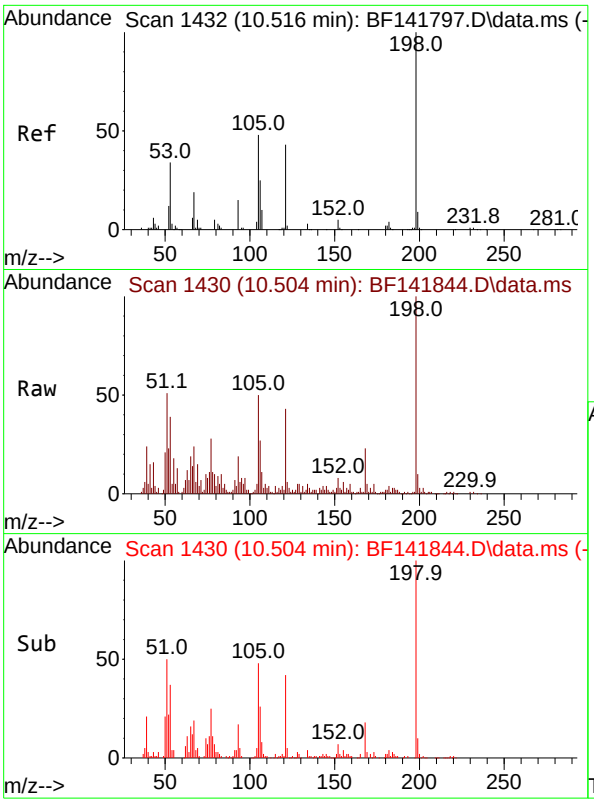



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:188 Resp: 565314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.0 | 8.9 | 13.3 |
| 80 | 12.1 | 9.7 | 14.5 |

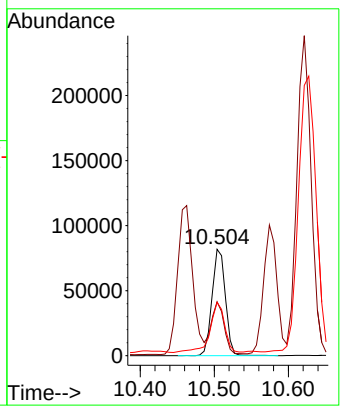





#65
4,6-Dinitro-2-methylphenol
Concen: 40.086 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:198 Resp: 10241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 50.7 | 32.1 | 72.1 |
| 105 | 50.0 | 28.5 | 68.5 |

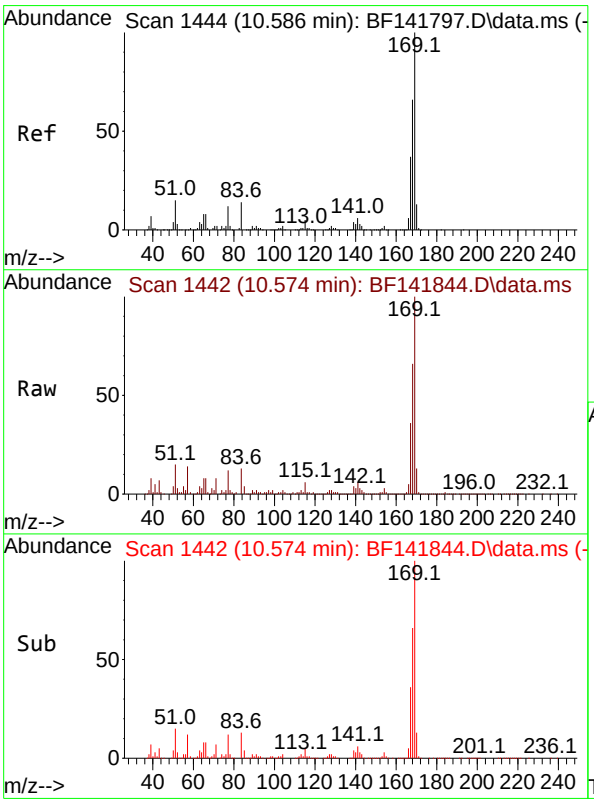



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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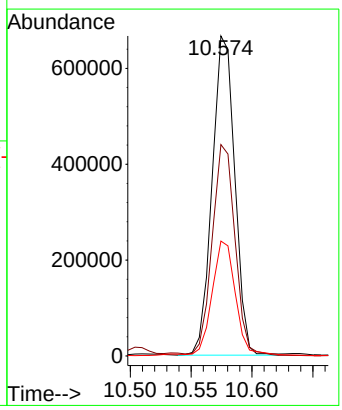
Supervised By :Jagrut Upadhyay
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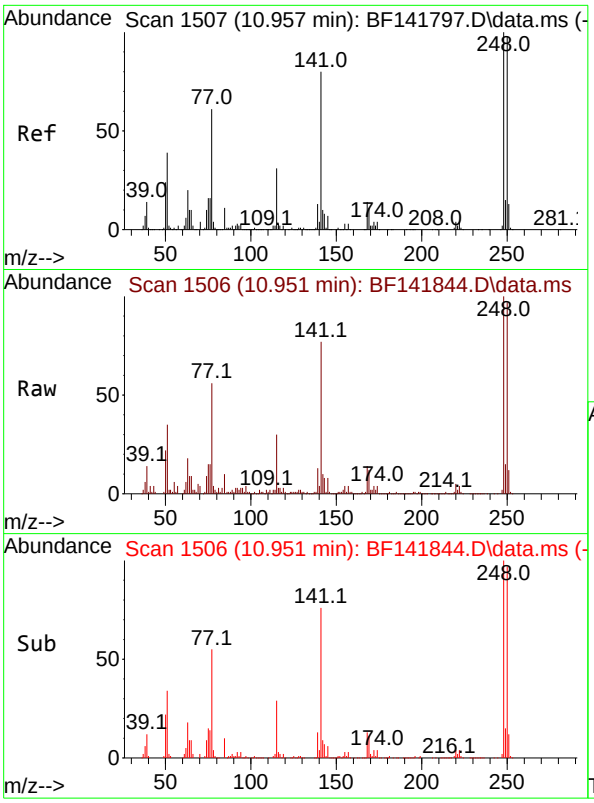



#66
n-Nitrosodiphenylamine
Concen: 46.428 ng
RT: 10.574 min Scan# 1442
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:169 Resp: 861837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.1 | 53.0 | 79.6 |
| 167 | 35.9 | 29.3 | 43.9 |

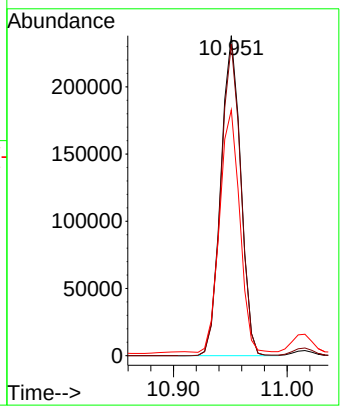





#67
4-Bromophenyl-phenylether
Concen: 43.759 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:248 Resp: 28894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 97.4 | 78.1 | 117.1 |
| 141 | 76.8 | 64.3 | 96.5 |

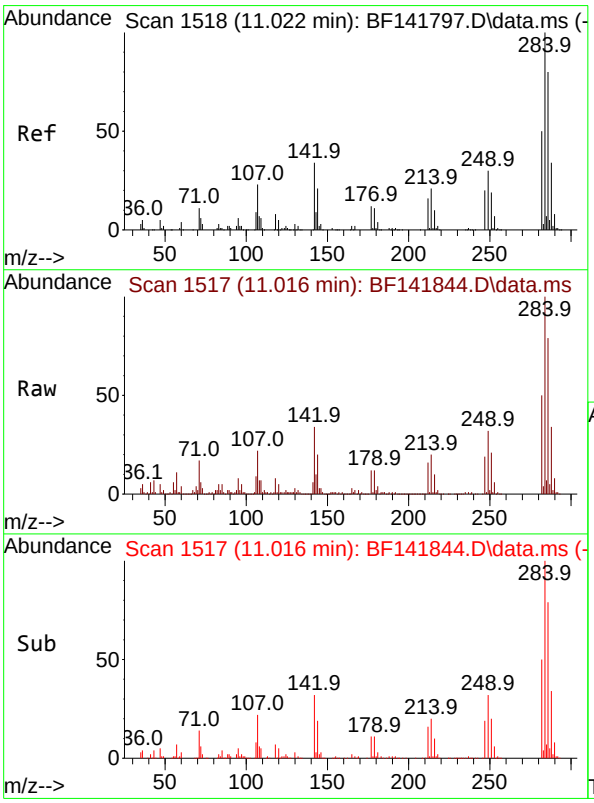



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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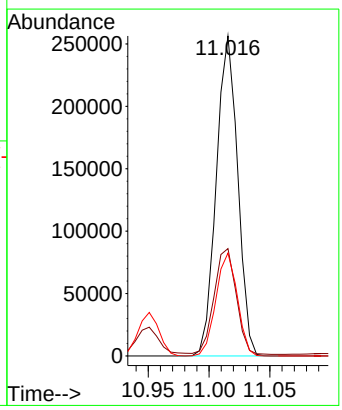
Supervised By :Jagrut Upadhyay
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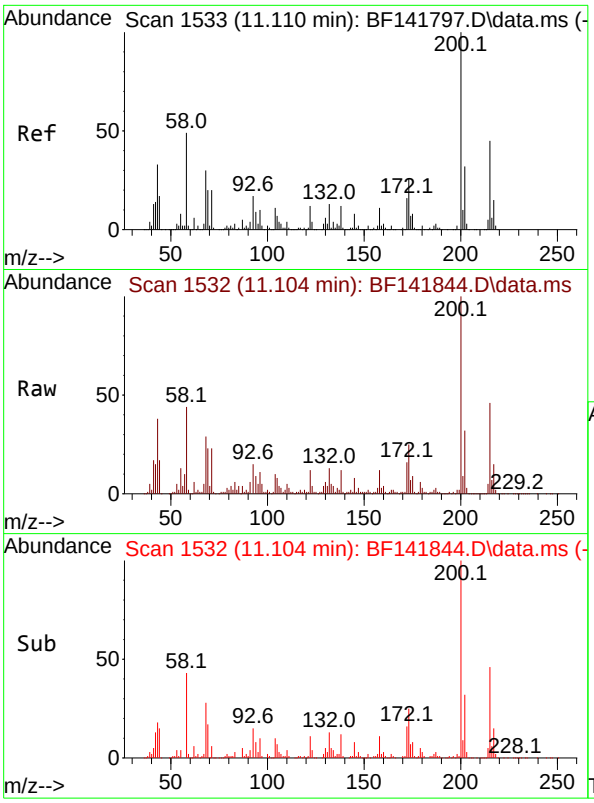



#68
Hexachlorobenzene
Concen: 45.037 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:284 Resp: 314028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 33.6 | 28.2 | 42.2 |
| 249 | 32.1 | 25.5 | 38.3 |

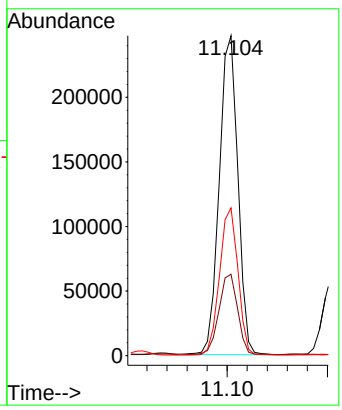





#69
Atrazine
Concen: 62.190 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:200 Resp: 31746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.4 | 5.6 | 45.6 |
| 215 | 46.2 | 25.3 | 65.3 |

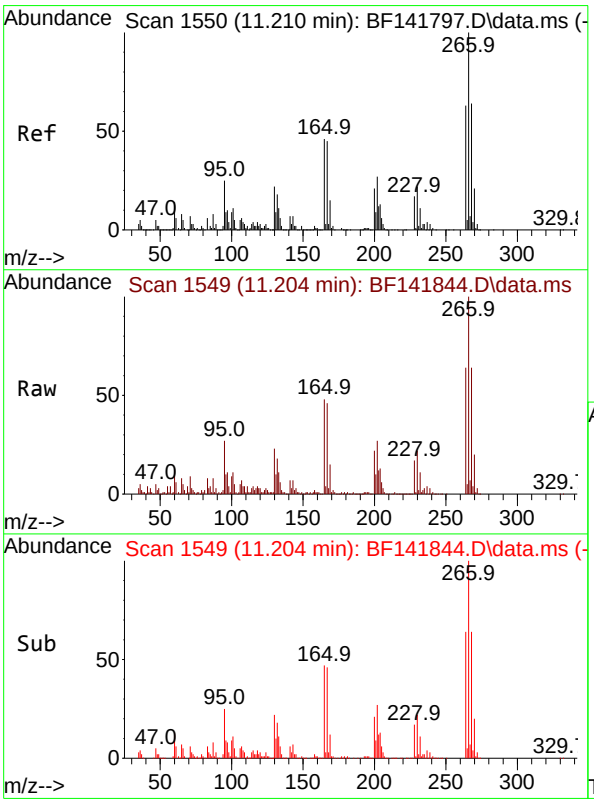



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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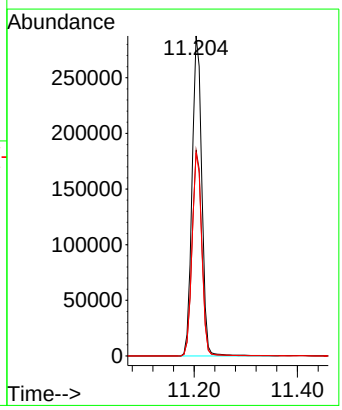
Supervised By :Jagrut Upadhyay
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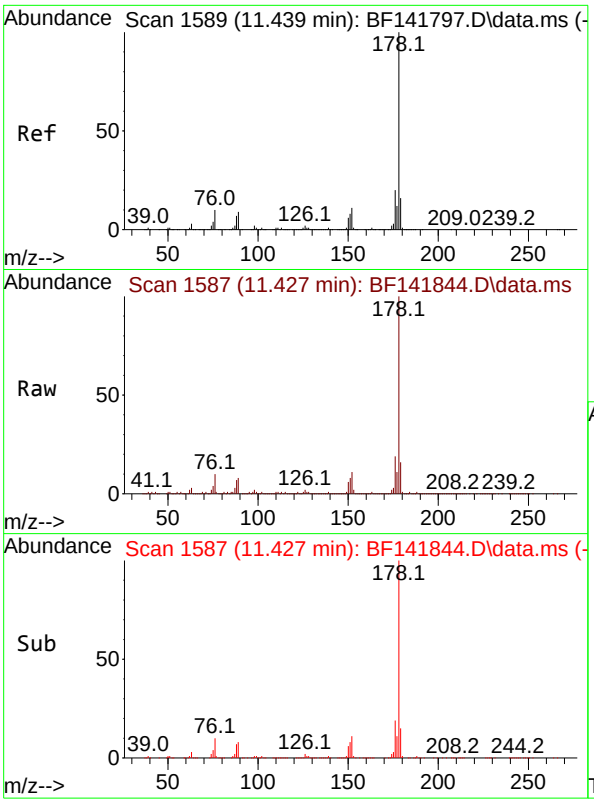



#70
Pentachlorophenol
Concen: 84.690 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:266 Resp: 374526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 64.3 | 50.9 | 76.3 |
| 264 | 63.5 | 50.2 | 75.4 |

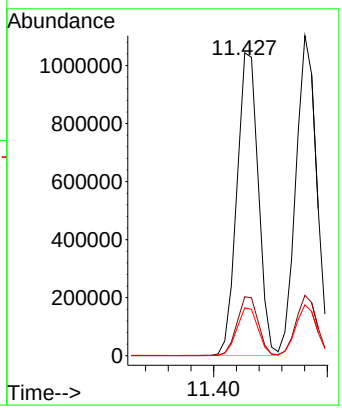





#71
Phenanthrene
Concen: 45.003 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:178 Resp: 136084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.5 | 16.0 | 24.0 |
| 179 | 15.8 | 12.6 | 19.0 |

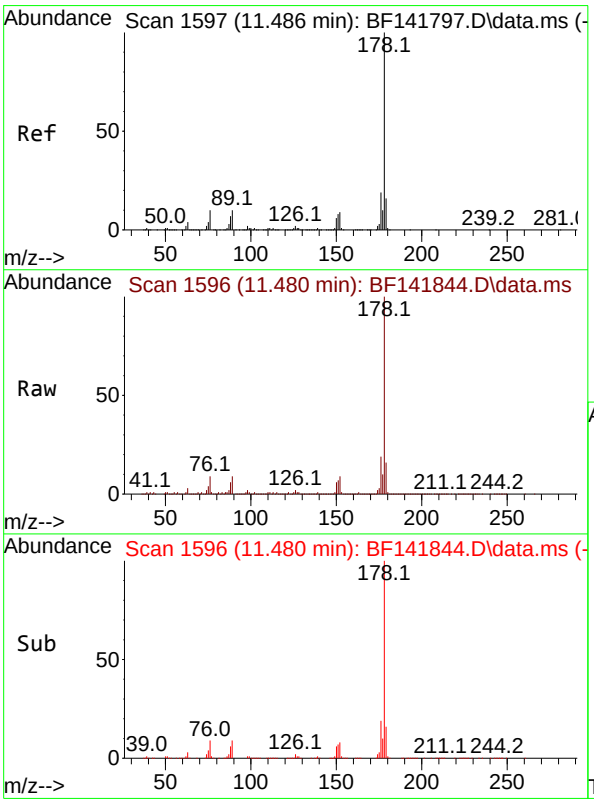



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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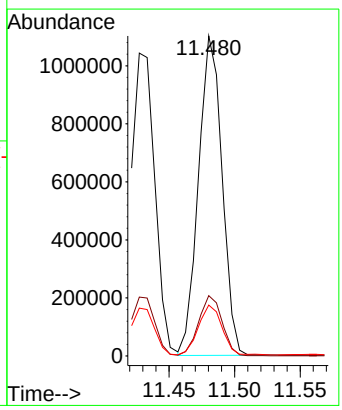
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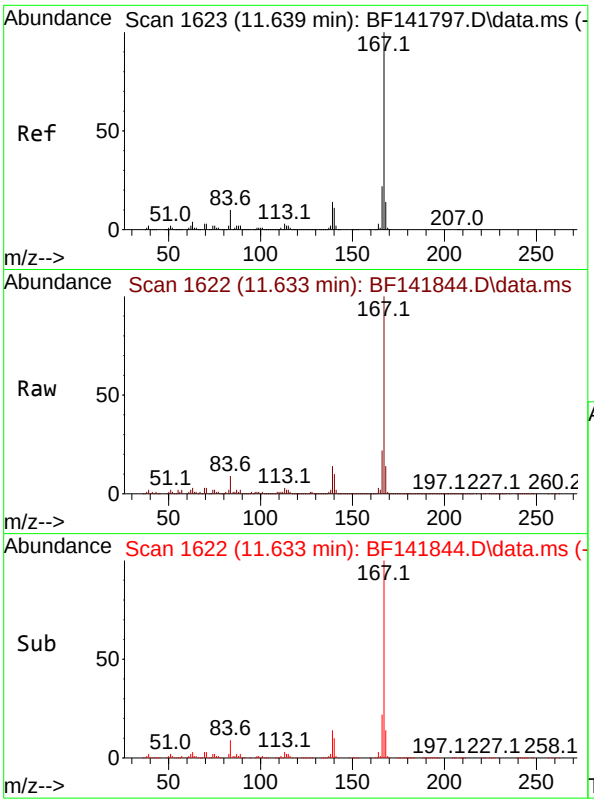



#72
Anthracene
Concen: 45.574 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:178 Resp: 1381172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.4 | 23.0 |
| 179 | 15.9 | 12.8 | 19.2 |

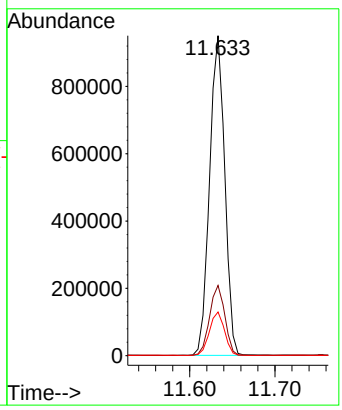





#73
Carbazole
Concen: 43.987 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:167 Resp: 117719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.9 | 17.5 | 26.3 |
| 139 | 13.6 | 11.3 | 16.9 |

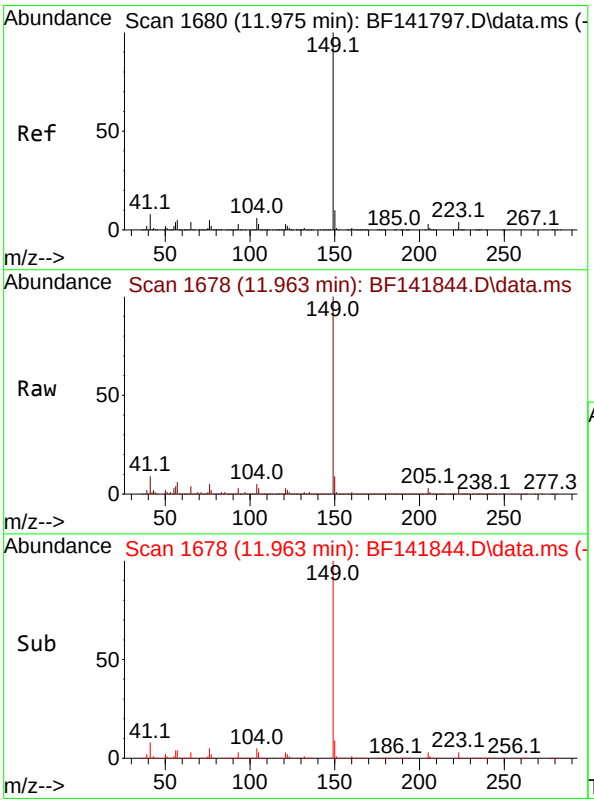



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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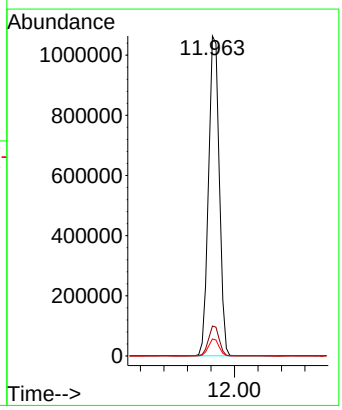
Supervised By :Jagrut Upadhyay
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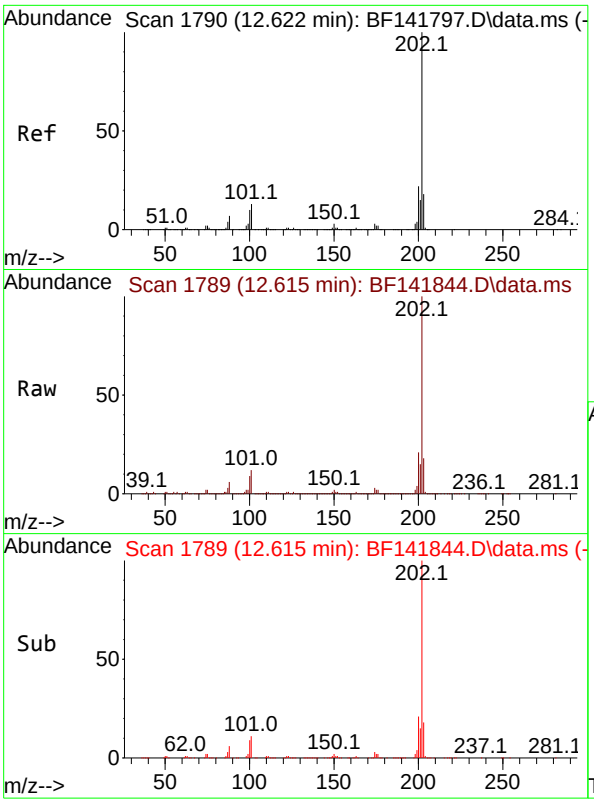



#74
Di-n-butylphthalate
Concen: 40.005 ng
RT: 11.963 min Scan# 1678
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 1357104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.3 | 7.7 | 11.5 |
| 104 | 5.3 | 4.4 | 6.6 |

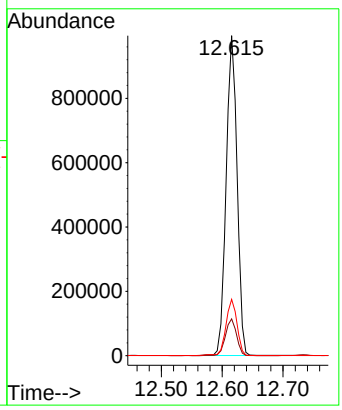





#75
Fluoranthene
Concen: 40.050 ng
RT: 12.615 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:202 Resp: 124093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.5 | 0.0 | 32.8 |
| 203 | 17.6 | 0.0 | 38.0 |

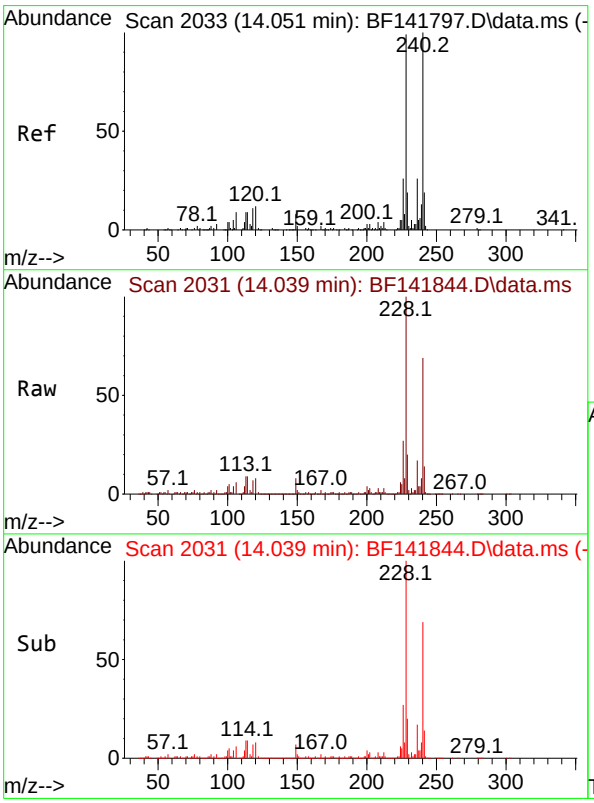



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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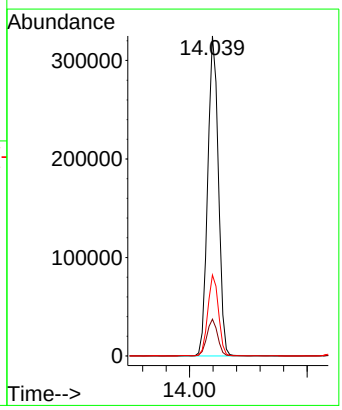
Supervised By :Jagrut Upadhyay
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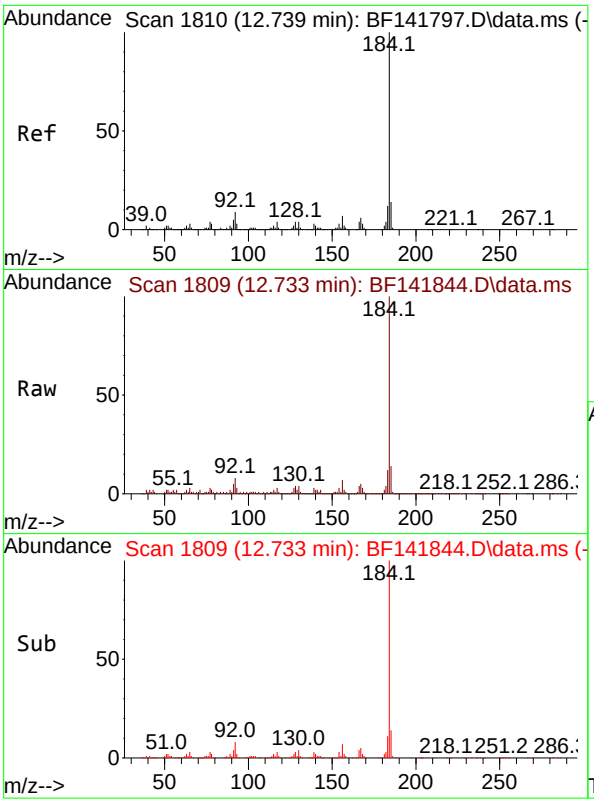



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:240 Resp: 409462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.5 | 9.7 | 14.5 |
| 236 | 25.3 | 21.0 | 31.4 |

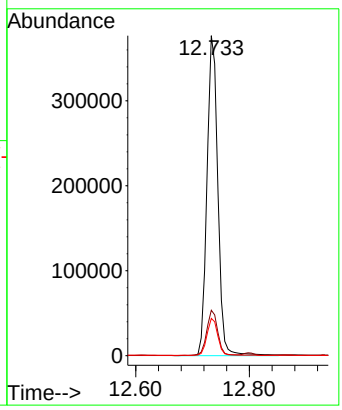





#77
Benzidine
Concen: 96.436 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:184 Resp: 496999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.2 | 11.6 | 17.4 |
| 183 | 11.6 | 9.4 | 14.0 |

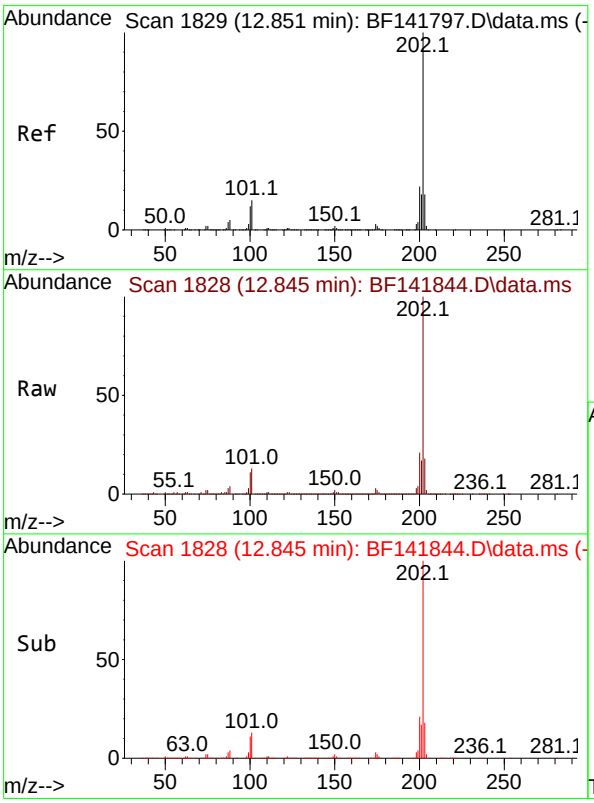



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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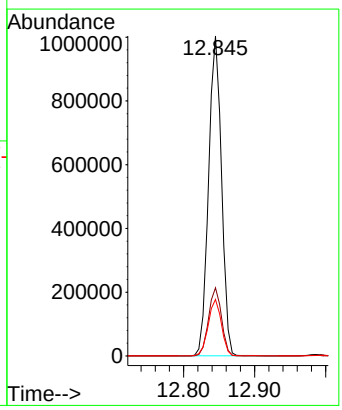
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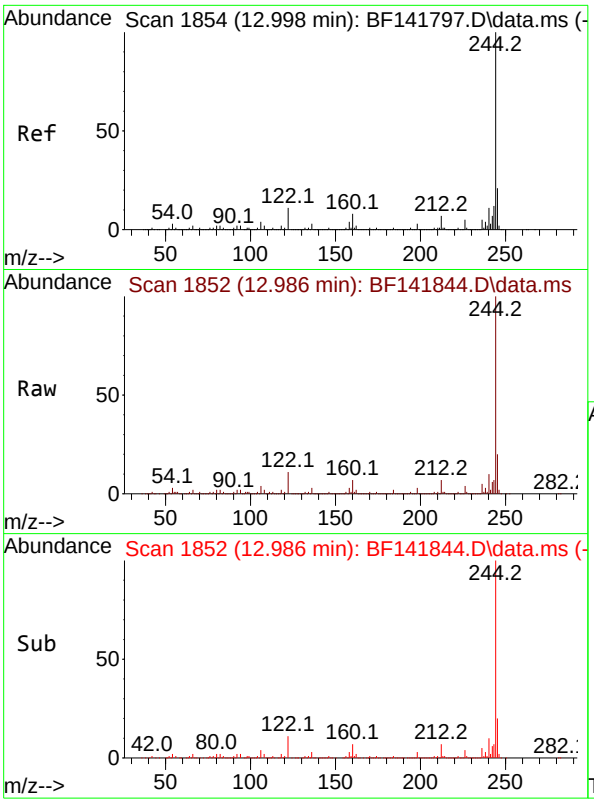



#78
Pyrene
Concen: 35.792 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:202 Resp: 1269067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.3 | 17.4 | 26.0 |
| 203 | 17.6 | 14.6 | 22.0 |

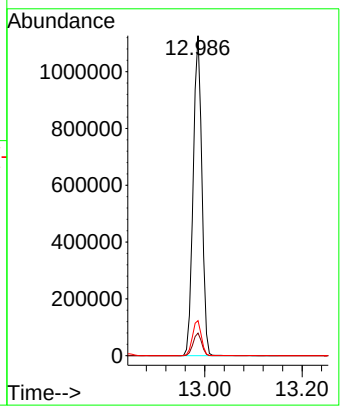





#79
Terphenyl-d14
Concen: 55.502 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:244 Resp: 140464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.0 | 6.0 | 9.0 |
| 122 | 10.9 | 9.0 | 13.6 |

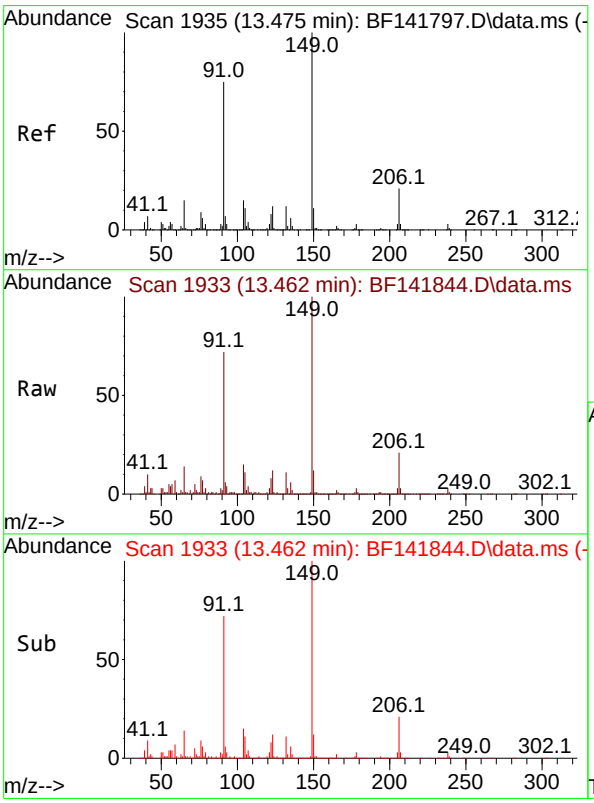



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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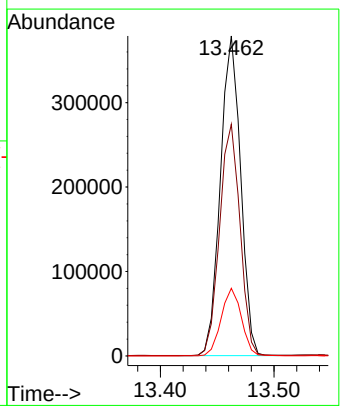
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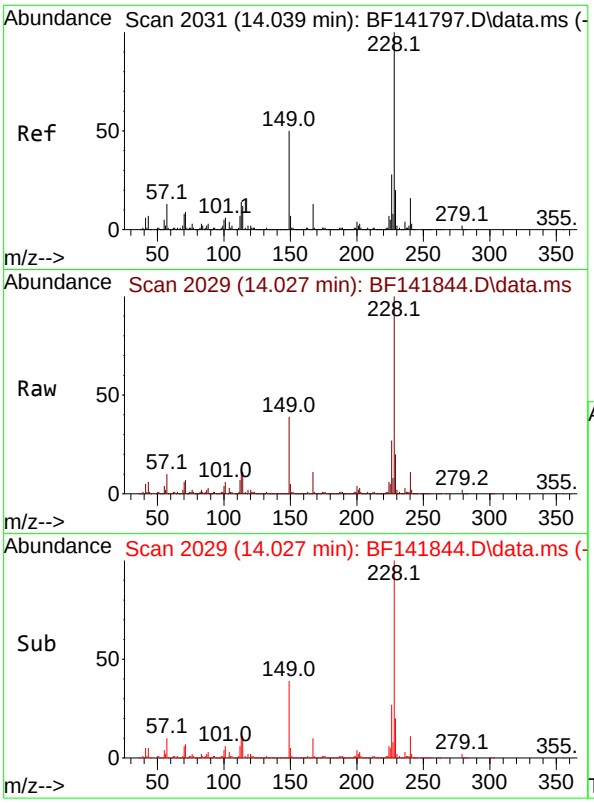



#80
Butylbenzylphthalate
Concen: 36.456 ng
RT: 13.462 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 469636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 72.4 | 60.1 | 90.1 |
| 206 | 21.2 | 16.8 | 25.2 |

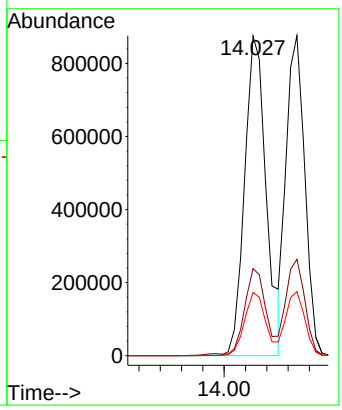





#81
Benzo(a)anthracene
Concen: 45.561 ng
RT: 14.027 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:228 Resp: 123222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.2 | 22.1 | 33.1 |
| 229 | 19.7 | 16.1 | 24.1 |

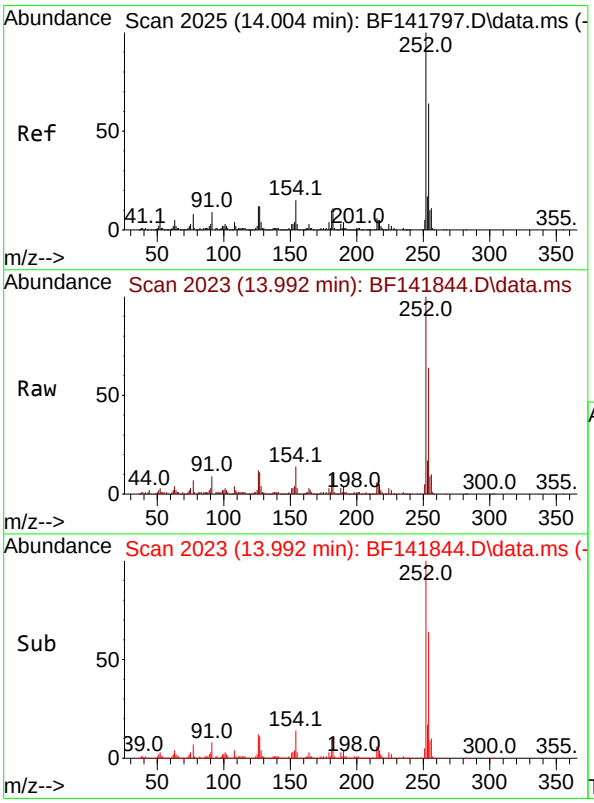



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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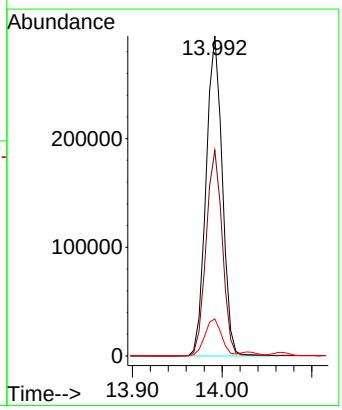
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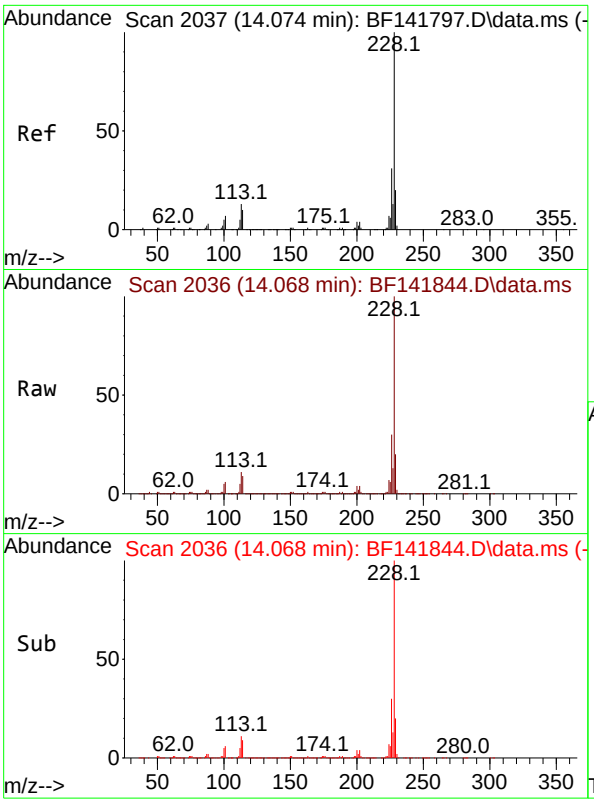



#82
3,3'-Dichlorobenzidine
Concen: 47.653 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:252 Resp: 369769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 64.2 | 51.4 | 77.0 |
| 126 | 11.6 | 9.8 | 14.6 |

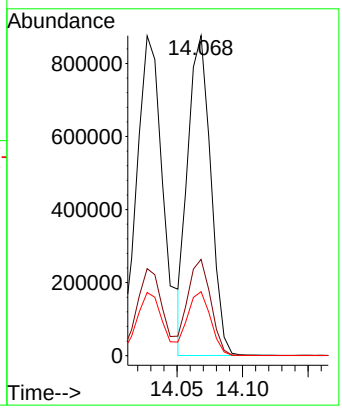





#83
Chrysene
Concen: 42.613 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:228 Resp: 106238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.1 | 24.6 | 37.0 |
| 229 | 20.0 | 16.1 | 24.1 |

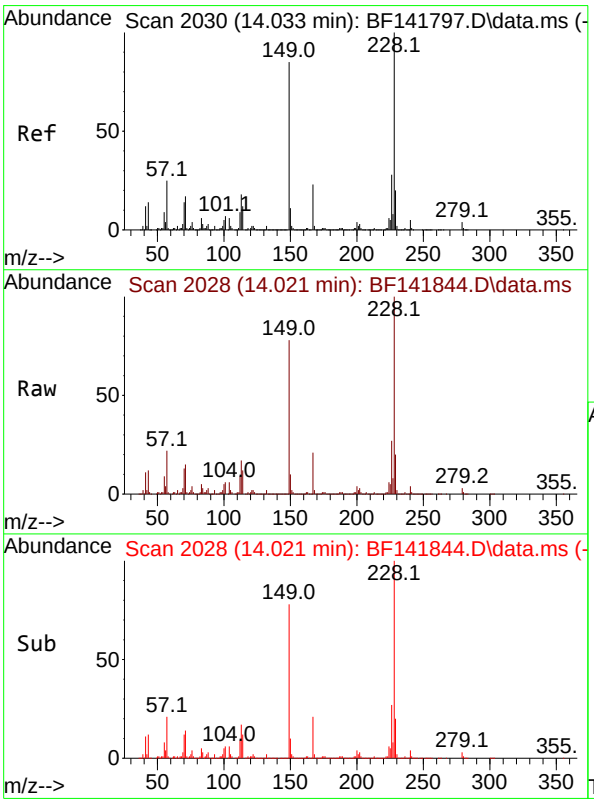



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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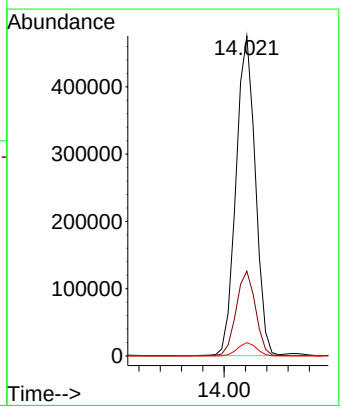
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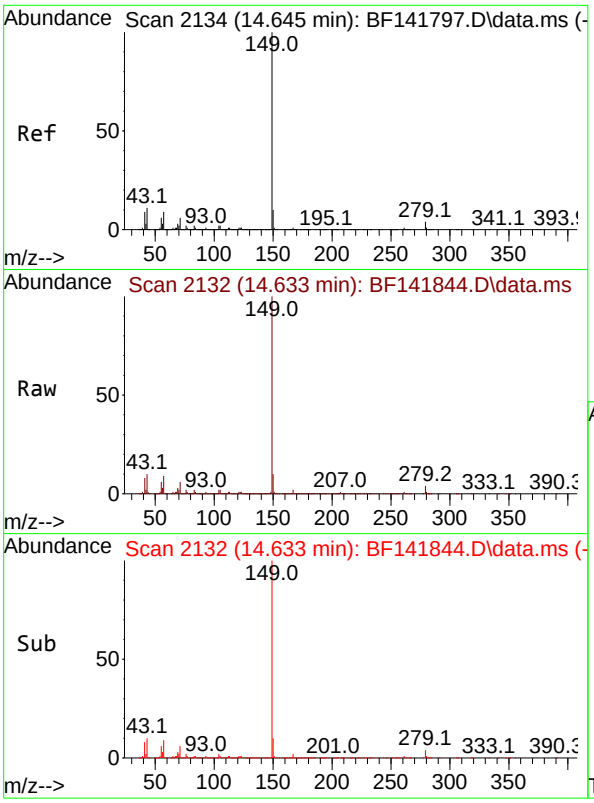



#84
Bis(2-ethylhexyl)phthalate
Concen: 37.423 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 600275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.5 | 21.2 | 31.8 |
| 279 | 4.2 | 3.3 | 4.9 |

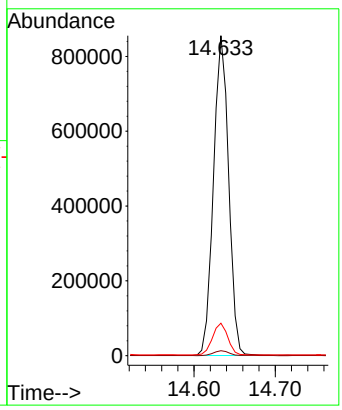





#85
Di-n-octyl phthalate
Concen: 46.163 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 110857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.2 | 1.8 |
| 43 | 10.0 | 8.6 | 12.8 |

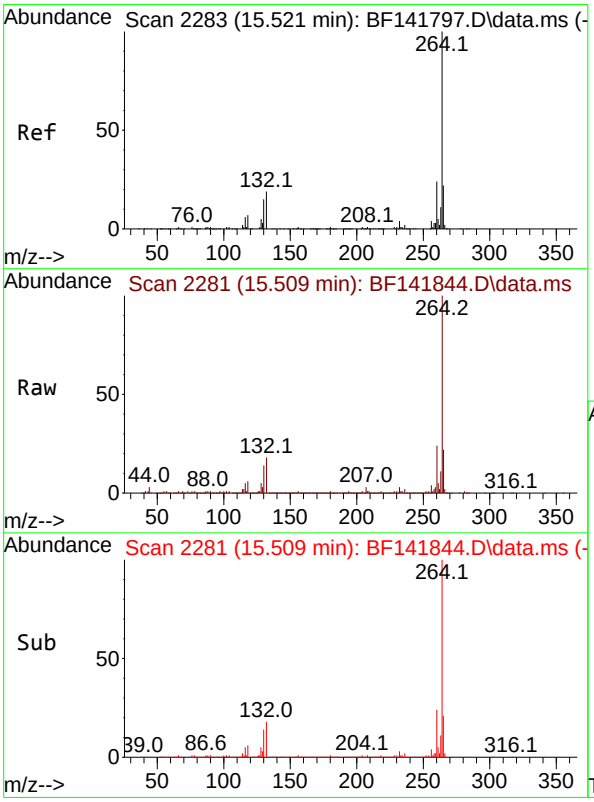



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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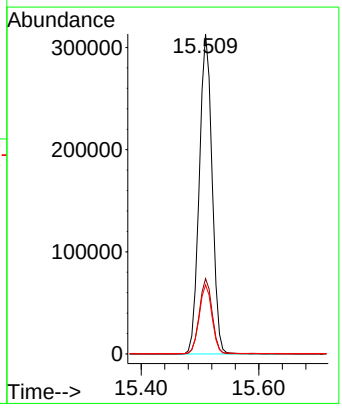
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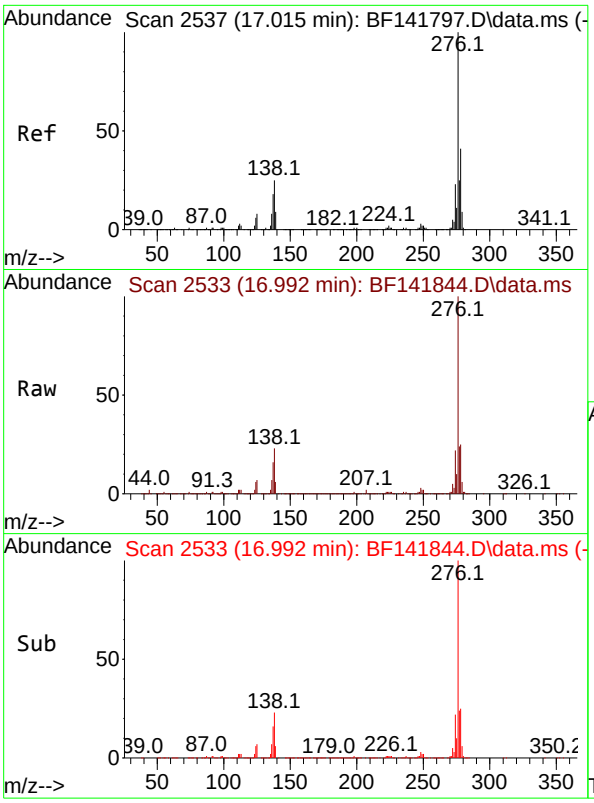



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:264 Resp: 473342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.5 | 18.9 | 28.3 |
| 265 | 21.6 | 17.4 | 26.0 |

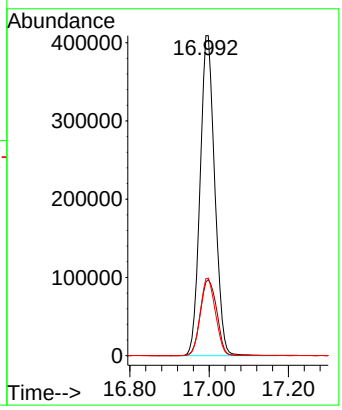





#87
Indeno(1,2,3-cd)pyrene
Concen: 34.852 ng
RT: 16.992 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:276 Resp: 105046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.5 | 22.5 | 33.7 |
| 277 | 25.2 | 20.3 | 30.5 |

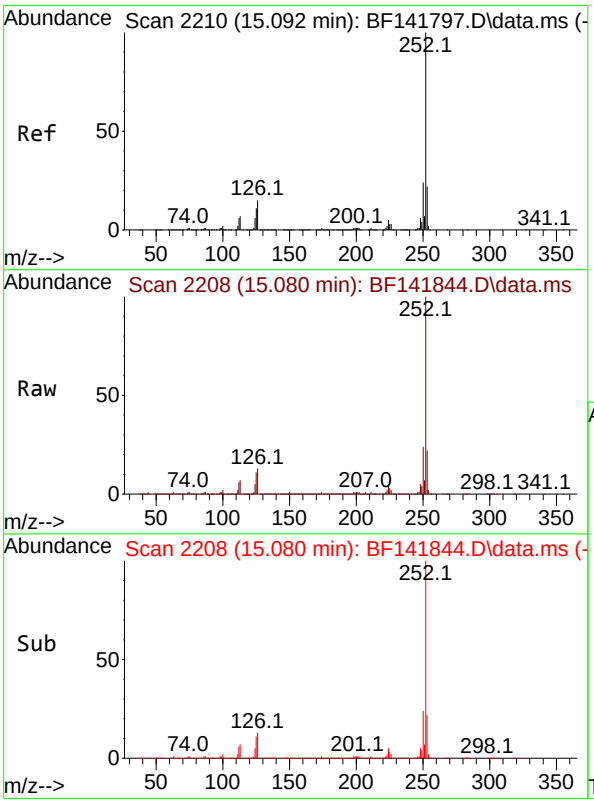



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

**Manual Integrations**
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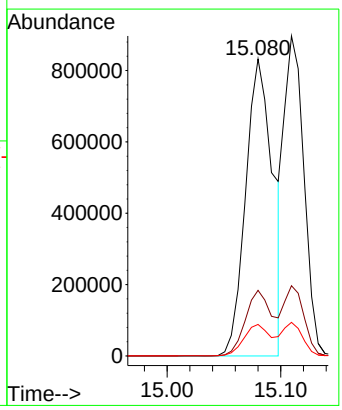
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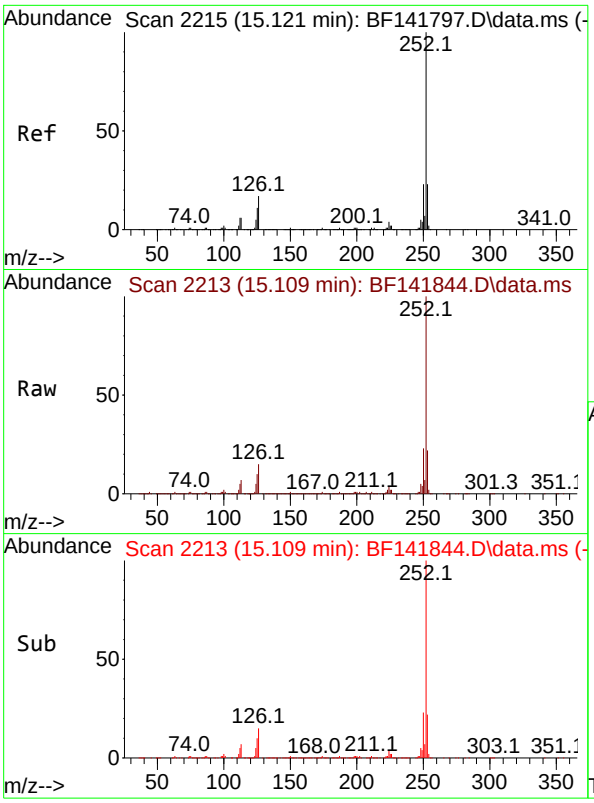



#88
Benzo(b)fluoranthene
Concen: 43.082 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:252 Resp: 1389072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 17.7 | 26.5 |
| 125 | 10.6 | 8.6 | 13.0 |

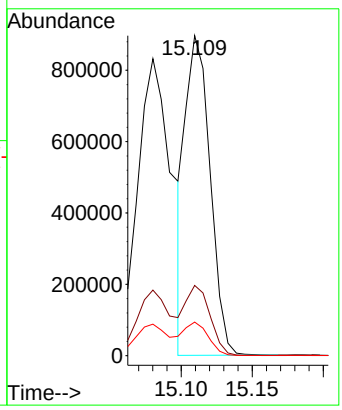





#89
Benzo(k)fluoranthene
Concen: 39.606 ng
RT: 15.109 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:252 Resp: 108539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.0 | 17.8 | 26.8 |
| 125 | 10.5 | 8.8 | 13.2 |

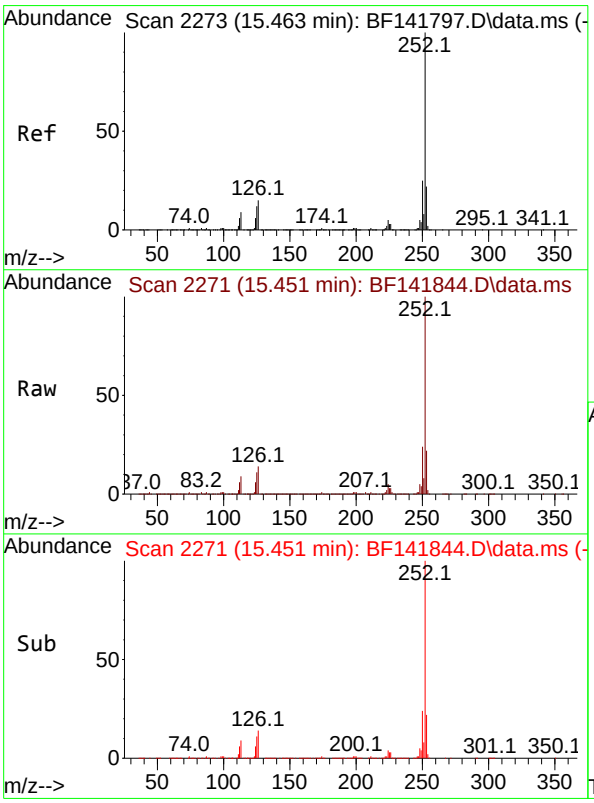



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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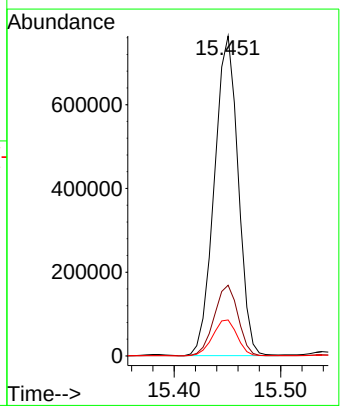
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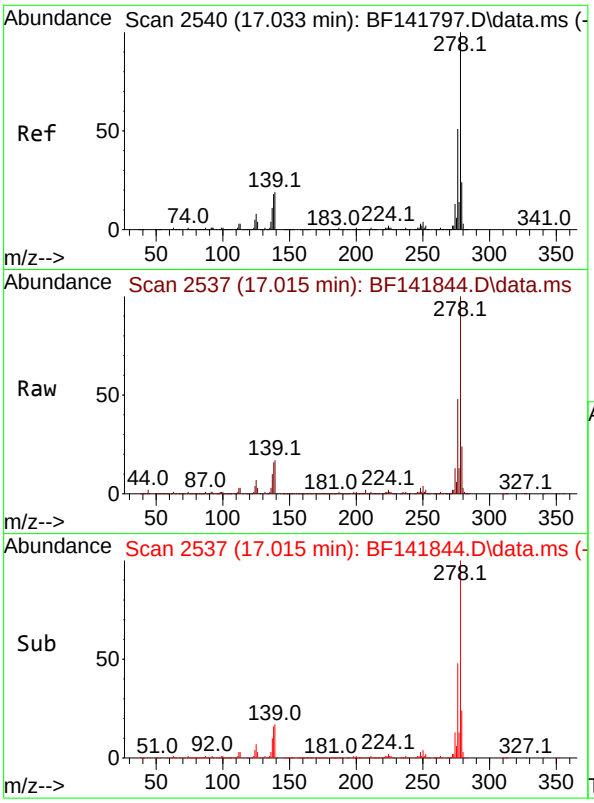



#90
Benzo(a)pyrene
Concen: 45.749 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:252 Resp: 1182996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.1 | 17.5 | 26.3 |
| 125 | 11.3 | 9.4 | 14.2 |

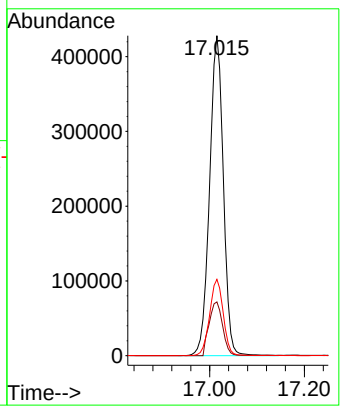





#91
Dibenzo(a,h)anthracene
Concen: 35.102 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:278 Resp: 86359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 16.8 | 14.9 | 22.3 |
| 279 | 23.8 | 19.3 | 28.9 |

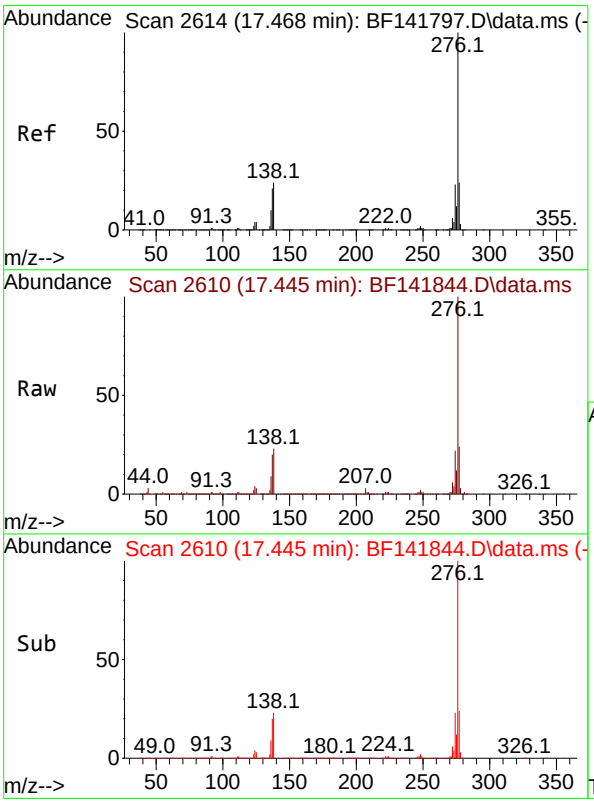



**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MS

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Reviewed By :Anahy Claudio
03/06/2025

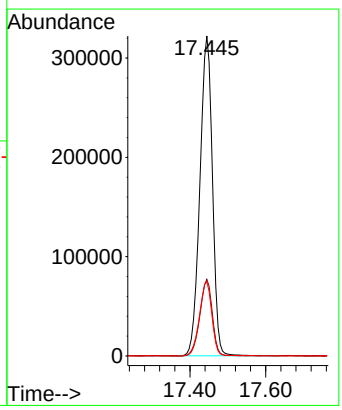
Supervised By :Jagrut Upadhyay
03/06/2025




#92
Benzo(g,h,i)perylene
Concen: 29.280 ng
RT: 17.445 min Scan# 2610
Delta R.T. -0.024 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:276 Resp: 737995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.9 | 19.4 | 29.0 |
| 138 | 23.2 | 19.3 | 28.9 |



Raw Data: **BF141845.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | 03/04/25 |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | 03/04/25 |
| Client Sample ID: | DN-B-42MSD | SDG No.: | Q1485 |
| Lab Sample ID: | Q1487-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 88.1 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141845.D | 1 | 03/05/25 09:40 | 03/05/25 15:51 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 100-52-7 | Benzaldehyde | 860 | | 210 | 370 | ug/Kg |
| 108-95-2 | Phenol | 1700 | | 93.9 | 190 | ug/Kg |
| 111-44-4 | bis(2-Chloroethyl)ether | 1600 | | 94.8 | 190 | ug/Kg |
| 95-57-8 | 2-Chlorophenol | 1700 | | 94.6 | 190 | ug/Kg |
| 95-48-7 | 2-Methylphenol | 1600 | | 91.3 | 190 | ug/Kg |
| 108-60-1 | 2,2-oxybis(1-Chloropropane) | 1400 | | 100 | 190 | ug/Kg |
| 98-86-2 | Acetophenone | 1800 | | 98.5 | 190 | ug/Kg |
| 65794-96-9 | 3+4-Methylphenols | 1600 | | 90.4 | 370 | ug/Kg |
| 621-64-7 | n-Nitroso-di-n-propylamine | 1400 | | 45.7 | 90.7 | ug/Kg |
| 67-72-1 | Hexachloroethane | 1600 | | 94.1 | 190 | ug/Kg |
| 98-95-3 | Nitrobenzene | 1800 | | 100 | 190 | ug/Kg |
| 78-59-1 | Isophorone | 1600 | | 95.9 | 190 | ug/Kg |
| 88-75-5 | 2-Nitrophenol | 1900 | | 110 | 190 | ug/Kg |
| 105-67-9 | 2,4-Dimethylphenol | 2000 | | 110 | 190 | ug/Kg |
| 111-91-1 | bis(2-Chloroethoxy)methane | 1500 | | 97.2 | 190 | ug/Kg |
| 120-83-2 | 2,4-Dichlorophenol | 1600 | | 85.6 | 190 | ug/Kg |
| 91-20-3 | Naphthalene | 1600 | | 93.6 | 190 | ug/Kg |
| 106-47-8 | 4-Chloroaniline | 950 | | 93.6 | 190 | ug/Kg |
| 87-68-3 | Hexachlorobutadiene | 1600 | | 94.4 | 190 | ug/Kg |
| 105-60-2 | Caprolactam | 1900 | | 98.4 | 370 | ug/Kg |
| 59-50-7 | 4-Chloro-3-methylphenol | 1600 | | 87.8 | 190 | ug/Kg |
| 91-57-6 | 2-Methylnaphthalene | 1500 | | 93.5 | 190 | ug/Kg |
| 77-47-4 | Hexachlorocyclopentadiene | 4900 | E | 180 | 370 | ug/Kg |
| 88-06-2 | 2,4,6-Trichlorophenol | 1800 | | 80.9 | 190 | ug/Kg |
| 95-95-4 | 2,4,5-Trichlorophenol | 1800 | | 83.9 | 190 | ug/Kg |
| 92-52-4 | 1,1-Biphenyl | 1900 | | 99.0 | 190 | ug/Kg |
| 91-58-7 | 2-Chloronaphthalene | 1700 | | 94.4 | 190 | ug/Kg |
| 88-74-4 | 2-Nitroaniline | 2000 | | 110 | 190 | ug/Kg |
| 131-11-3 | Dimethylphthalate | 1600 | | 92.6 | 190 | ug/Kg |

Raw Data: **BF141845.D**

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | 03/04/25 |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | 03/04/25 |
| Client Sample ID: | DN-B-42MSD | SDG No.: | Q1485 |
| Lab Sample ID: | Q1487-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 88.1 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141845.D | 1 | 03/05/25 09:40 | 03/05/25 15:51 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 208-96-8 | Acenaphthylene | 1800 | | 98.0 | 190 | ug/Kg |
| 606-20-2 | 2,6-Dinitrotoluene | 1900 | | 94.3 | 190 | ug/Kg |
| 99-09-2 | 3-Nitroaniline | 1400 | | 100 | 190 | ug/Kg |
| 83-32-9 | Acenaphthene | 1800 | | 91.9 | 190 | ug/Kg |
| 51-28-5 | 2,4-Dinitrophenol | 2800 | | 280 | 370 | ug/Kg |
| 100-02-7 | 4-Nitrophenol | 4300 | E | 130 | 370 | ug/Kg |
| 132-64-9 | Dibenzofuran | 1600 | | 95.6 | 190 | ug/Kg |
| 121-14-2 | 2,4-Dinitrotoluene | 2100 | | 97.7 | 190 | ug/Kg |
| 84-66-2 | Diethylphthalate | 1500 | | 90.8 | 190 | ug/Kg |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1600 | | 97.0 | 190 | ug/Kg |
| 86-73-7 | Fluorene | 1600 | | 96.9 | 190 | ug/Kg |
| 100-01-6 | 4-Nitroaniline | 2000 | | 120 | 190 | ug/Kg |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1600 | | 130 | 370 | ug/Kg |
| 86-30-6 | n-Nitrosodiphenylamine | 1700 | | 92.5 | 190 | ug/Kg |
| 101-55-3 | 4-Bromophenyl-phenylether | 1700 | | 89.4 | 190 | ug/Kg |
| 118-74-1 | Hexachlorobenzene | 1700 | | 96.3 | 190 | ug/Kg |
| 1912-24-9 | Atrazine | 2400 | | 100 | 190 | ug/Kg |
| 87-86-5 | Pentachlorophenol | 3200 | E | 87.6 | 370 | ug/Kg |
| 85-01-8 | Phenanthrene | 1700 | | 95.2 | 190 | ug/Kg |
| 120-12-7 | Anthracene | 1700 | | 95.6 | 190 | ug/Kg |
| 86-74-8 | Carbazole | 1700 | | 91.0 | 190 | ug/Kg |
| 84-74-2 | Di-n-butylphthalate | 1500 | | 95.5 | 190 | ug/Kg |
| 206-44-0 | Fluoranthene | 1600 | | 92.6 | 190 | ug/Kg |
| 129-00-0 | Pyrene | 1400 | | 94.1 | 190 | ug/Kg |
| 85-68-7 | Butylbenzylphthalate | 1400 | | 110 | 190 | ug/Kg |
| 91-94-1 | 3,3-Dichlorobenzidine | 1800 | | 110 | 370 | ug/Kg |
| 56-55-3 | Benzo(a)anthracene | 1700 | | 91.4 | 190 | ug/Kg |
| 218-01-9 | Chrysene | 1700 | | 90.1 | 190 | ug/Kg |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1500 | | 100 | 190 | ug/Kg |
| 117-84-0 | Di-n-octyl phthalate | 1800 | | 120 | 370 | ug/Kg |
| 205-99-2 | Benzo(b)fluoranthene | 1700 | | 91.9 | 190 | ug/Kg |

Raw Data: **BF141845.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | JPCL Engineering | Date Collected: | 03/04/25 |
| Project: | NYSDOT Two Bronx River Parkway Bridges | Date Received: | 03/04/25 |
| Client Sample ID: | DN-B-42MSD | SDG No.: | Q1485 |
| Lab Sample ID: | Q1487-01MSD | Matrix: | SOIL |
| Analytical Method: | SW8270 | % Solid: | 88.1 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | SVOC-TCL BNA -20 |
| Extraction Type : | Decanted : N | Level : | LOW |
| Injection Volume : | GPC Factor : 1.0 | GPC Cleanup : | N PH : |
| Prep Method : | SW3541 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| BF141845.D | 1 | 03/05/25 09:40 | 03/05/25 15:51 | PB166984 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|
| 207-08-9 | Benzo(k)fluoranthene | 1500 | | 93.6 | 190 | ug/Kg |
| 50-32-8 | Benzo(a)pyrene | 1800 | | 110 | 190 | ug/Kg |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1300 | | 88.5 | 190 | ug/Kg |
| 53-70-3 | Dibenzo(a,h)anthracene | 1400 | | 92.0 | 190 | ug/Kg |
| 191-24-2 | Benzo(g,h,i)perylene | 1100 | | 90.8 | 190 | ug/Kg |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1900 | | 98.4 | 190 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 1600 | | 120 | 190 | ug/Kg |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1700 | | 84.6 | 190 | ug/Kg |
| **SURROGATES** | | | | | | |
| 367-12-4 | 2-Fluorophenol | 109 | | 18 - 112 | 72% | SPK: 150 |
| 13127-88-3 | Phenol-d6 | 104 | | 15 - 107 | 70% | SPK: 150 |
| 4165-60-0 | Nitrobenzene-d5 | 89.9 | | 18 - 107 | 90% | SPK: 100 |
| 321-60-8 | 2-Fluorobiphenyl | 75.0 | | 20 - 109 | 75% | SPK: 100 |
| 118-79-6 | 2,4,6-Tribromophenol | 117 | | 10 - 116 | 78% | SPK: 150 |
| 1718-51-0 | Terphenyl-d14 | 56.9 | | 10 - 105 | 57% | SPK: 100 |
| **INTERNAL STANDARDS** | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 191000 | 6.886 | | | |
| 1146-65-2 | Naphthalene-d8 | 732000 | 8.169 | | | |
| 15067-26-2 | Acenaphthene-d10 | 367000 | 9.922 | | | |
| 1517-22-2 | Phenanthrene-d10 | 575000 | 11.404 | | | |
| 1719-03-5 | Chrysene-d12 | 415000 | 14.039 | | | |
| 1520-96-3 | Perylene-d12 | 465000 | 15.509 | | | |

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

Sample Results: **BF141845.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141845.D
Acq On : 05 Mar 2025 15:51
Operator : RC/JU
Sample : Q1487-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 05 16:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 6.886 | 152 | 191311 | 20.000 | ng | 0.00 |
| 21) Naphthalene-d8 | 8.169 | 136 | 731999 | 20.000 | ng | 0.00 |
| 39) Acenaphthene-d10 | 9.922 | 164 | 367233 | 20.000 | ng | 0.00 |
| 64) Phenanthrene-d10 | 11.404 | 188 | 575333 | 20.000 | ng | 0.00 |
| 76) Chrysene-d12 | 14.039 | 240 | 414755 | 20.000 | ng | -0.01 |
| 86) Perylene-d12 | 15.509 | 264 | 465047 | 20.000 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 5) 2-Fluorophenol | 5.504 | 112 | 1301485 | 108.643 | ng | 0.00 |
| 7) Phenol-d6 | 6.504 | 99 | 1625710 | 104.263 | ng | 0.00 |
| 23) Nitrobenzene-d5 | 7.445 | 82 | 1029379 | 89.888 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.710 | 330 | 402954 | 116.878 | ng | 0.00 |
| 45) 2-Fluorobiphenyl | 9.239 | 172 | 1718796 | 75.048 | ng | 0.00 |
| 79) Terphenyl-d14 | 12.986 | 244 | 1459806 | 56.946 | ng | -0.01 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 2.710 | 88 | 228087 | 41.961 | ng | 99 |
| 3) Pyridine | 3.475 | 79 | 547422 | 40.476 | ng | 98 |
| 4) n-Nitrosodimethylamine | 3.416 | 42 | 283179 | 43.516 | ng | 97 |
| 6) Aniline | 6.545 | 93 | 629942 | 38.861 | ng | 100 |
| 8) 2-Chlorophenol | 6.669 | 128 | 575056 | 44.375 | ng | 96 |
| 9) Benzaldehyde | 6.434 | 77 | 206651 | 22.785 | ng | 98 |
| 10) Phenol | 6.522 | 94 | 741516 | 44.504 | ng | 97 |
| 11) bis(2-Chloroethyl)ether | 6.622 | 93 | 531330 | 41.835 | ng | 97 |
| 12) 1,3-Dichlorobenzene | 6.828 | 146 | 603684 | 43.499 | ng | 99 |
| 13) 1,4-Dichlorobenzene | 6.904 | 146 | 616390 | 44.080 | ng | 99 |
| 14) 1,2-Dichlorobenzene | 7.057 | 146 | 583334 | 44.674 | ng | 98 |
| 15) Benzyl Alcohol | 7.022 | 79 | 497324 | 39.909 | ng | 100 |
| 16) 2,2'-oxybis(1-Chloropr... | 7.157 | 45 | 733553 | 38.031 | ng | 99 |
| 17) 2-Methylphenol | 7.128 | 107 | 454751 | 42.513 | ng | 100 |
| 18) Hexachloroethane | 7.398 | 117 | 224314 | 42.859 | ng | 99 |
| 19) n-Nitroso-di-n-propyla... | 7.292 | 70 | 390439 | 38.092 | ng | 99 |
| 20) 3+4-Methylphenols | 7.281 | 107 | 581786 | 43.679 | ng | 97 |
| 22) Acetophenone | 7.292 | 105 | 842821 | 47.275 | ng | 98 |
| 24) Nitrobenzene | 7.463 | 77 | 598766 | 48.826 | ng | 99 |
| 25) Isophorone | 7.704 | 82 | 1045129 | 42.481 | ng | 99 |
| 26) 2-Nitrophenol | 7.781 | 139 | 281708 | 51.099 | ng | 99 |
| 27) 2,4-Dimethylphenol | 7.810 | 122 | 484864 | 53.613 | ng | 99 |
| 28) bis(2-Chloroethoxy)met... | 7.910 | 93 | 621875 | 39.625 | ng | 99 |
| 29) 2,4-Dichlorophenol | 8.016 | 162 | 452566 | 43.378 | ng | 99 |
| 30) 1,2,4-Trichlorobenzene | 8.104 | 180 | 495020 | 43.300 | ng | 98 |
| 31) Naphthalene | 8.186 | 128 | 1597999 | 42.475 | ng | 99 |
| 32) Benzoic acid | 7.910 | 122 | 356667m | 47.372 | ng | |
| 33) 4-Chloroaniline | 8.233 | 127 | 347428 | 25.186 | ng | 98 |
| 34) Hexachlorobutadiene | 8.304 | 225 | 307767 | 43.322 | ng | 98 |
| 35) Caprolactam | 8.592 | 113 | 165656 | 51.613 | ng | 97 |
| 36) 4-Chloro-3-methylphenol | 8.704 | 107 | 485311 | 41.874 | ng | 99 |
| 37) 2-Methylnaphthalene | 8.880 | 142 | 980751 | 39.744 | ng | 99 |
| 38) 1-Methylnaphthalene | 8.975 | 142 | 970185 | 40.974 | ng | 99 |
| 40) 1,2,4,5-Tetrachloroben... | 9.045 | 216 | 524773 | 49.478 | ng | 99 |
| 41) Hexachlorocyclopentadiene | 9.033 | 237 | 568656 | 128.474 | ng | 100 |
| 43) 2,4,6-Trichlorophenol | 9.151 | 196 | 320323 | 46.755 | ng | 100 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141845.D
Acq On : 05 Mar 2025 15:51
Operator : RC/JU
Sample : Q1487-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 05 16:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 44) 2,4,5-Trichlorophenol | 9.186 | 196 | 326554 | 48.135 | ng | | 99 |
| 46) 1,1'-Biphenyl | 9.339 | 154 | 1381301 | 49.416 | ng | | 99 |
| 47) 2-Chloronaphthalene | 9.369 | 162 | 939307 | 45.529 | ng | | 98 |
| 48) 2-Nitroaniline | 9.457 | 65 | 301849 | 52.958 | ng | | 97 |
| 49) Acenaphthylene | 9.780 | 152 | 1444944 | 46.713 | ng | | 100 |
| 50) Dimethylphthalate | 9.639 | 163 | 1069323 | 43.481 | ng | | 99 |
| 51) 2,6-Dinitrotoluene | 9.698 | 165 | 235755 | 49.987 | ng | | 96 |
| 52) Acenaphthene | 9.957 | 154 | 980429 | 46.974 | ng | | 99 |
| 53) 3-Nitroaniline | 9.869 | 138 | 179159 | 36.508 | ng | # | 94 |
| 54) 2,4-Dinitrophenol | 9.969 | 184 | 153518 | 73.318 | ng | # | 18 |
| 55) Dibenzofuran | 10.127 | 168 | 1289752 | 42.456 | ng | | 98 |
| 56) 4-Nitrophenol | 10.016 | 139 | 414529 | 114.125 | ng | | 99 |
| 57) 2,4-Dinitrotoluene | 10.104 | 165 | 323093 | 55.621 | ng | | 91 |
| 58) Fluorene | 10.469 | 166 | 986733 | 43.363 | ng | | 100 |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232 | 269777 | 45.723 | ng | | 98 |
| 60) Diethylphthalate | 10.339 | 149 | 1010574 | 40.990 | ng | | 100 |
| 61) 4-Chlorophenyl-phenyle... | 10.463 | 204 | 482285 | 42.302 | ng | | 99 |
| 62) 4-Nitroaniline | 10.480 | 138 | 222496 | 52.977 | ng | | 96 |
| 63) Azobenzene | 10.622 | 77 | 1103992 | 42.529 | ng | | 95 |
| 65) 4,6-Dinitro-2-methylph... | 10.510 | 198 | 112278 | 42.552 | ng | | 92 |
| 66) n-Nitrosodiphenylamine | 10.574 | 169 | 874306 | 46.279 | ng | | 100 |
| 67) 4-Bromophenyl-phenylether | 10.951 | 248 | 299369 | 44.548 | ng | | 97 |
| 68) Hexachlorobenzene | 11.016 | 284 | 318600 | 44.897 | ng | | 99 |
| 69) Atrazine | 11.104 | 200 | 327584 | 63.055 | ng | | 98 |
| 70) Pentachlorophenol | 11.204 | 266 | 378895 | 84.186 | ng | | 99 |
| 71) Phenanthrene | 11.427 | 178 | 1401406 | 45.538 | ng | | 99 |
| 72) Anthracene | 11.480 | 178 | 1410204 | 45.722 | ng | | 99 |
| 73) Carbazole | 11.633 | 167 | 1207332 | 44.327 | ng | | 99 |
| 74) Di-n-butylphthalate | 11.963 | 149 | 1415465 | 40.999 | ng | | 100 |
| 75) Fluoranthene | 12.616 | 202 | 1296948 | 41.129 | ng | | 98 |
| 77) Benzidine | 12.733 | 184 | 567942 | 108.795 | ng | | 99 |
| 78) Pyrene | 12.845 | 202 | 1302790 | 36.274 | ng | | 99 |
| 80) Butylbenzylphthalate | 13.463 | 149 | 493506 | 37.820 | ng | | 98 |
| 81) Benzo(a)anthracene | 14.033 | 228 | 1246967 | 45.518 | ng | | 100 |
| 82) 3,3'-Dichlorobenzidine | 13.992 | 252 | 378006 | 48.093 | ng | | 100 |
| 83) Chrysene | 14.068 | 228 | 1103430 | 43.694 | ng | | 99 |
| 84) Bis(2-ethylhexyl)phtha... | 14.021 | 149 | 628755 | 38.698 | ng | | 100 |
| 85) Di-n-octyl phthalate | 14.633 | 149 | 1135656 | 46.687 | ng | | 98 |
| 87) Indeno(1,2,3-cd)pyrene | 16.992 | 276 | 1039862 | 35.115 | ng | | 98 |
| 88) Benzo(b)fluoranthene | 15.080 | 252 | 1433060 | 45.239 | ng | | 99 |
| 89) Benzo(k)fluoranthene | 15.109 | 252 | 1063202 | 39.488 | ng | | 99 |
| 90) Benzo(a)pyrene | 15.451 | 252 | 1186012 | 46.684 | ng | | 99 |
| 91) Dibenzo(a,h)anthracene | 17.015 | 278 | 871243 | 36.044 | ng | | 98 |
| 92) Benzo(g,h,i)perylene | 17.445 | 276 | 735371 | 29.696 | ng | | 98 |

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

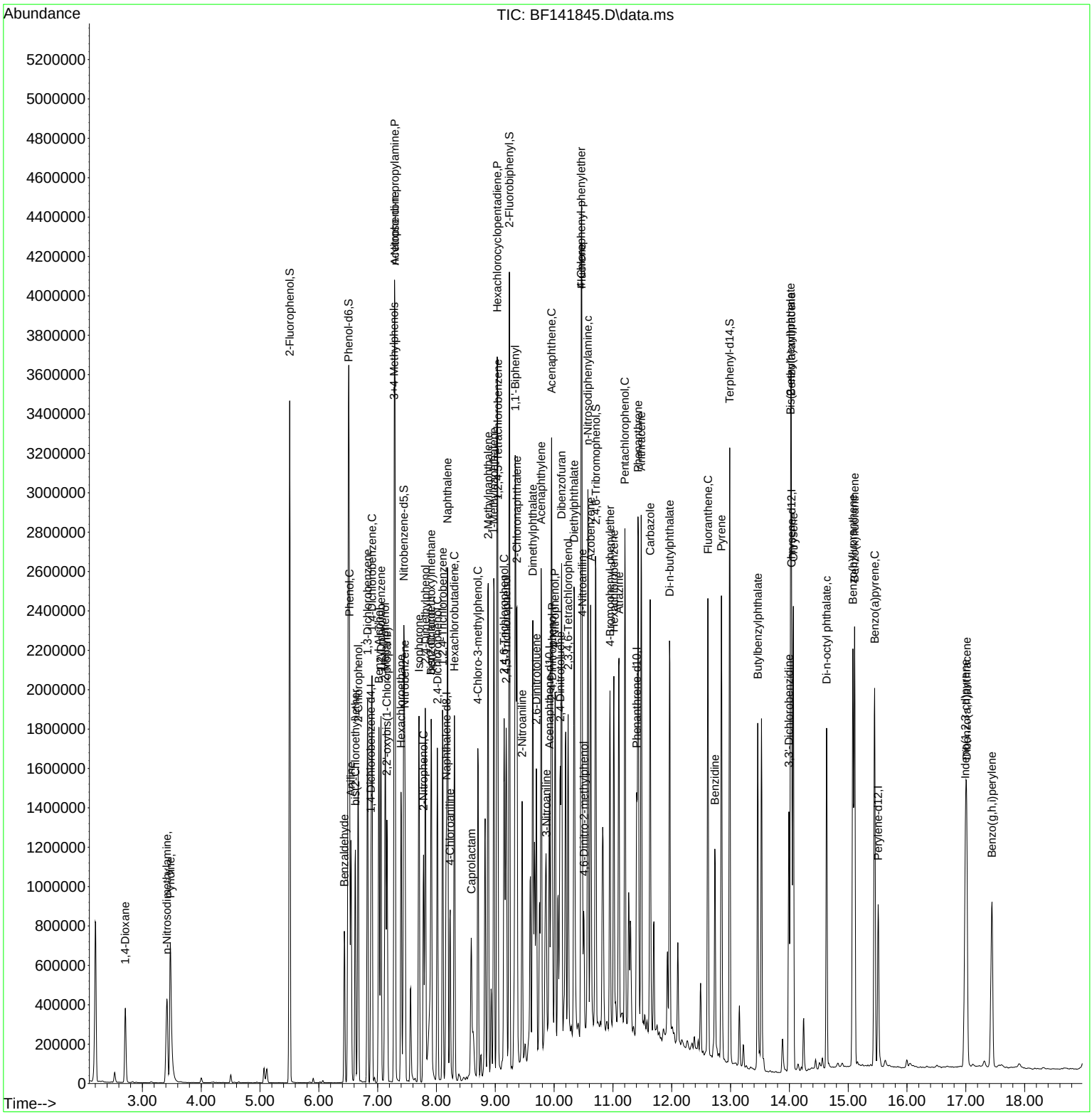
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141845.D
Acq On : 05 Mar 2025 15:51
Operator : RC/JU
Sample : Q1487-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

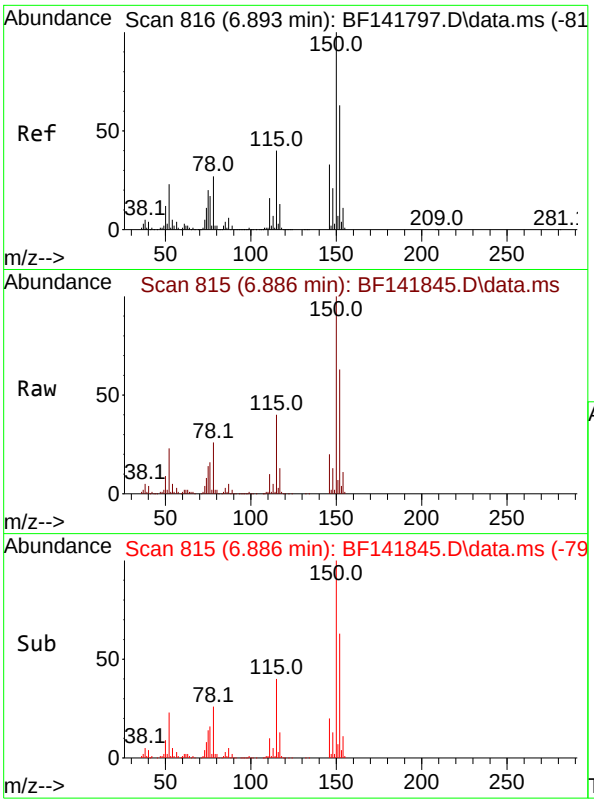
Quant Time: Mar 05 16:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations APPROVED**

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

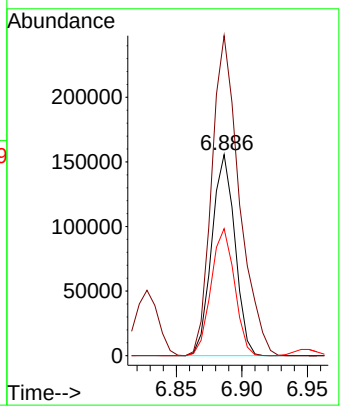





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.007 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:152 Resp: 19131

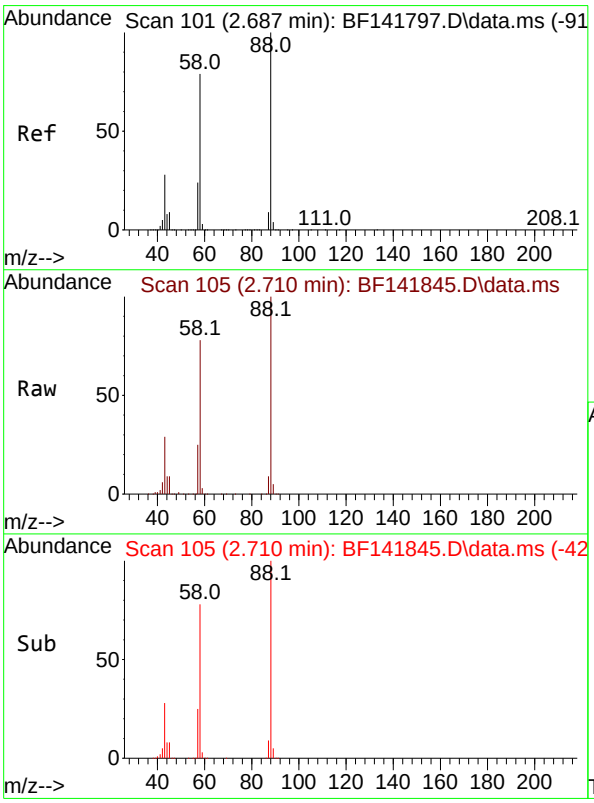
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 150 | 159.1 | 127.5 | 191.3 |
| 115 | 63.2 | 51.4 | 77.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

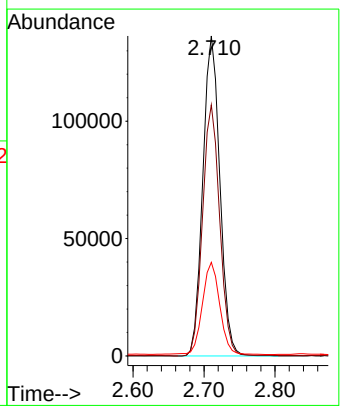
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

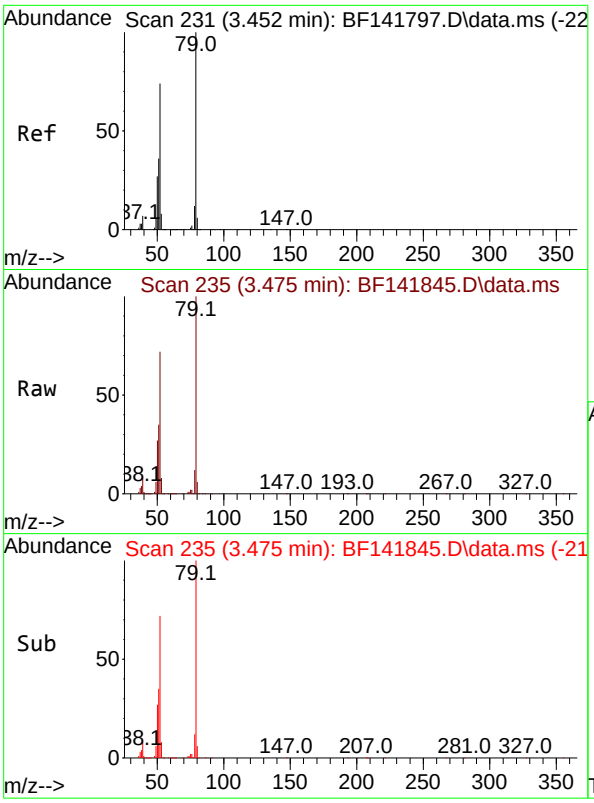



#2
1,4-Dioxane
Concen: 41.961 ng
RT: 2.710 min Scan# 105
Delta R.T. 0.023 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 88 Resp: 228087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 78.8 | 63.9 | 95.9 |
| 43 | 29.3 | 23.0 | 34.6 |

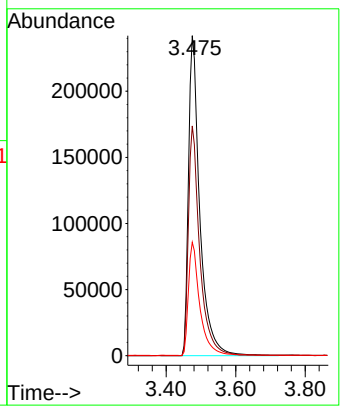





#3
Pyridine
Concen: 40.476 ng
RT: 3.475 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 79 Resp: 54742

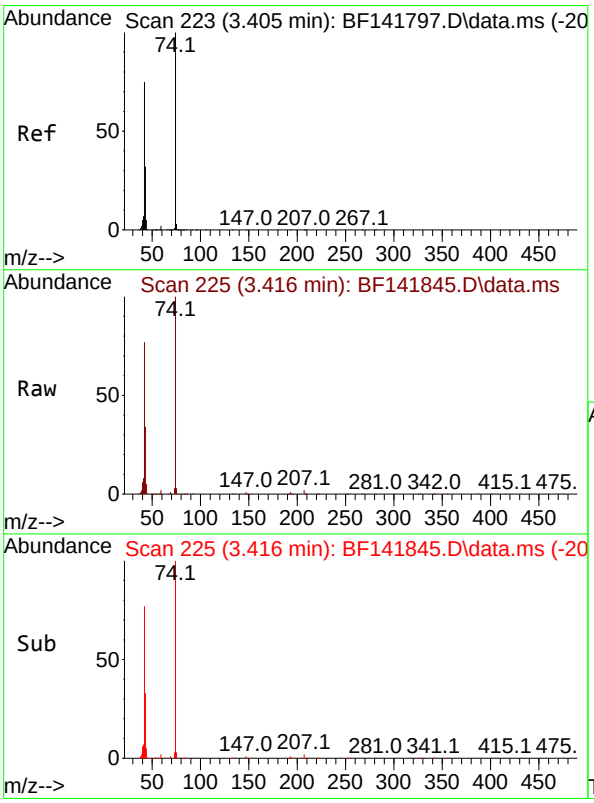
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 52 | 71.8 | 59.0 | 88.4 |
| 51 | 35.5 | 29.0 | 43.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

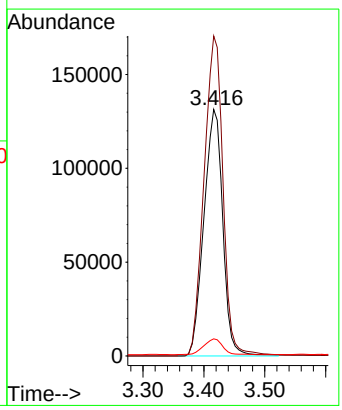
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

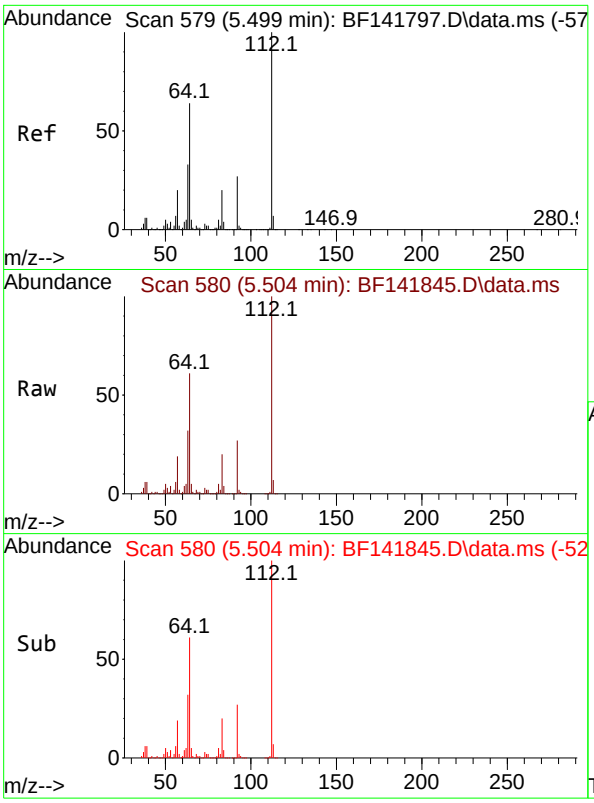



#4
n-Nitrosodimethylamine
Concen: 43.516 ng
RT: 3.416 min Scan# 225
Delta R.T. 0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 42 Resp: 283179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 74 | 129.8 | 107.1 | 160.7 |
| 44 | 6.9 | 6.6 | 9.8 |

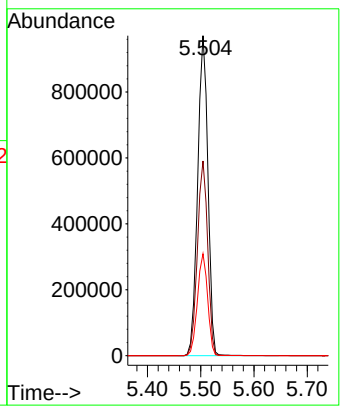





#5
2-Fluorophenol
Concen: 108.643 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:112 Resp: 130148

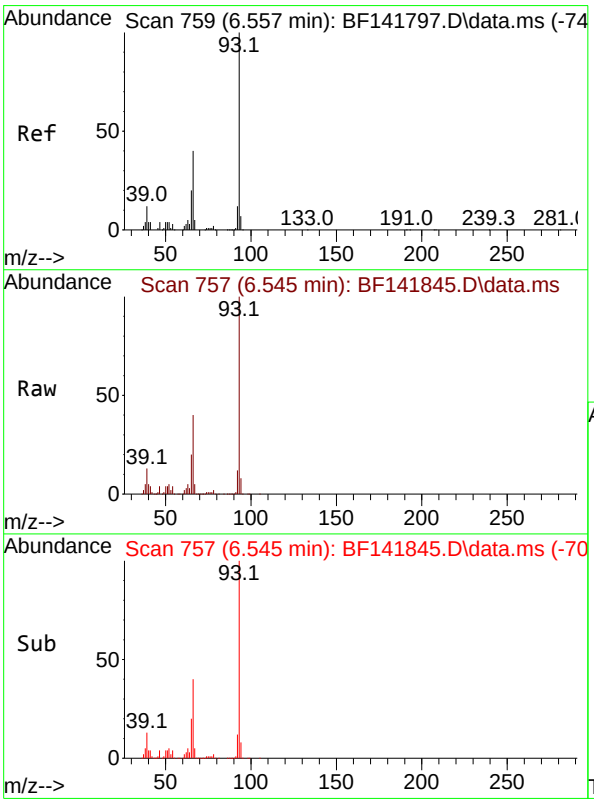
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 64 | 60.9 | 51.3 | 76.9 |
| 63 | 31.8 | 26.2 | 39.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

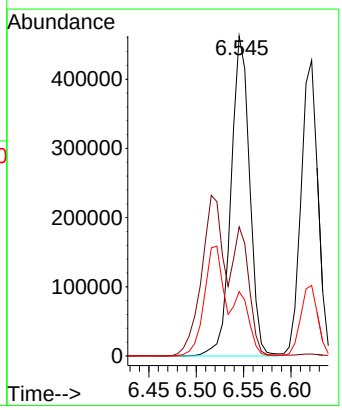
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

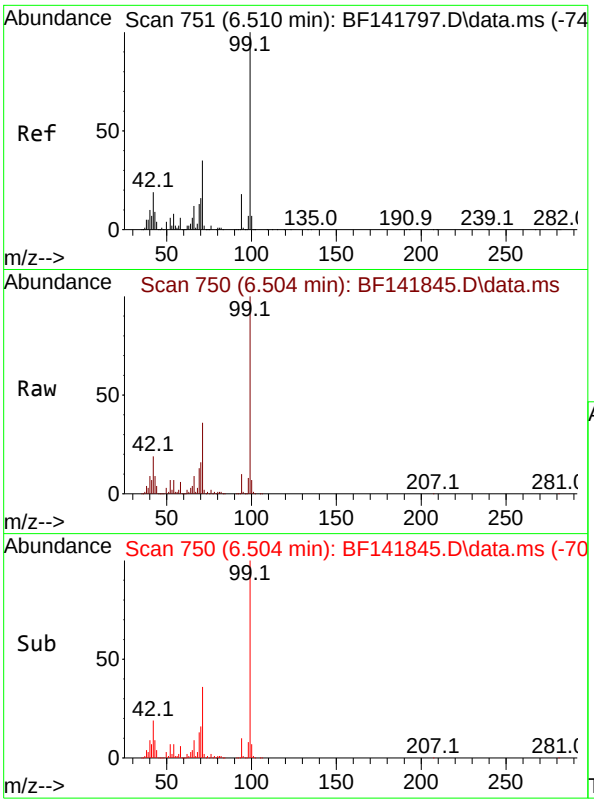



#6
Aniline
Concen: 38.861 ng
RT: 6.545 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 93 Resp: 629942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 66 | 40.4 | 32.3 | 48.5 |
| 65 | 20.1 | 15.9 | 23.9 |

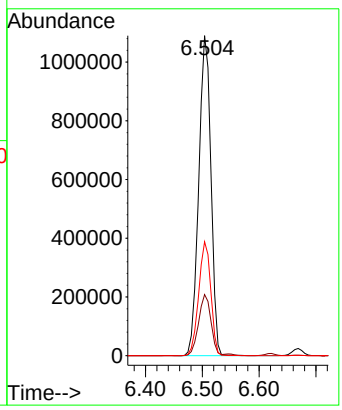





#7
Phenol-d6
Concen: 104.263 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 99 Resp: 162571

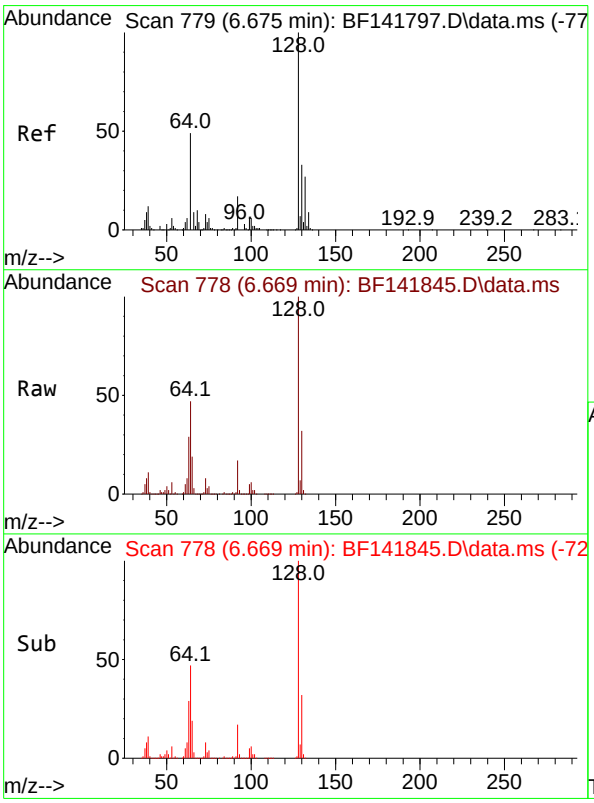
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 99 | 100 | | |
| 42 | 19.1 | 15.2 | 22.8 |
| 71 | 35.6 | 28.2 | 42.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

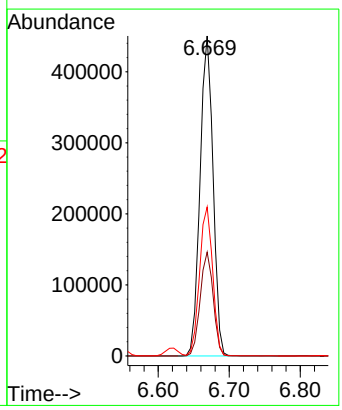
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

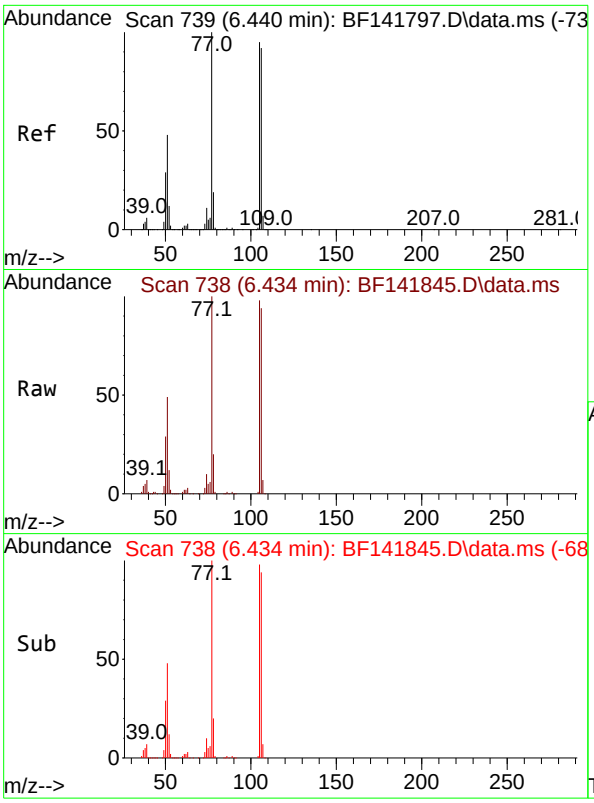



#8
2-Chlorophenol
Concen: 44.375 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:128 Resp: 575056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 130 | 32.5 | 12.6 | 52.6 |
| 64 | 46.5 | 31.1 | 71.1 |

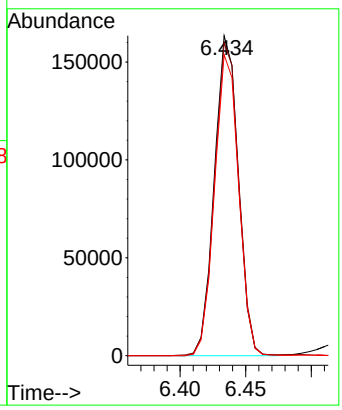





#9
Benzaldehyde
Concen: 22.785 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 77 Resp: 20665

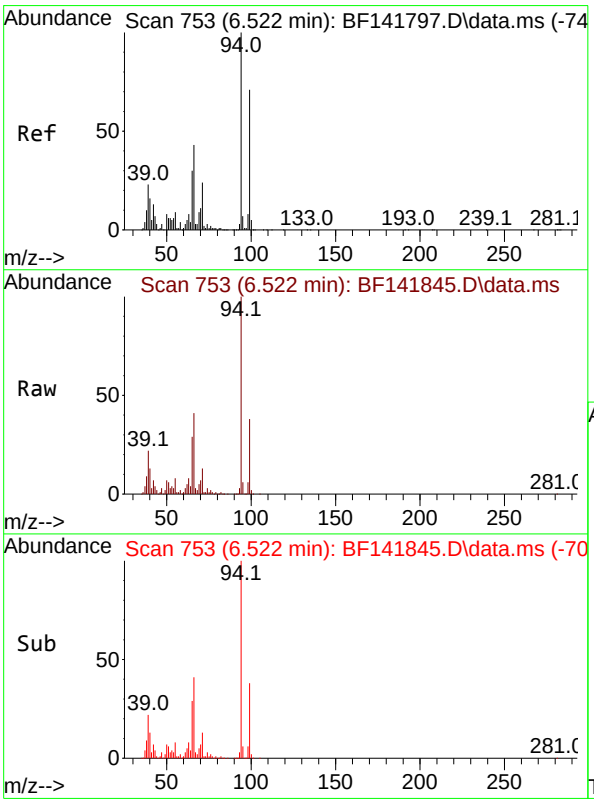
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 105 | 97.8 | 75.3 | 115.3 |
| 106 | 94.0 | 72.3 | 112.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

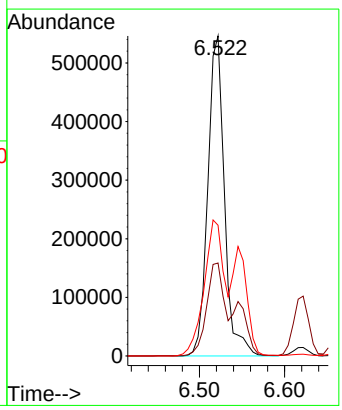
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

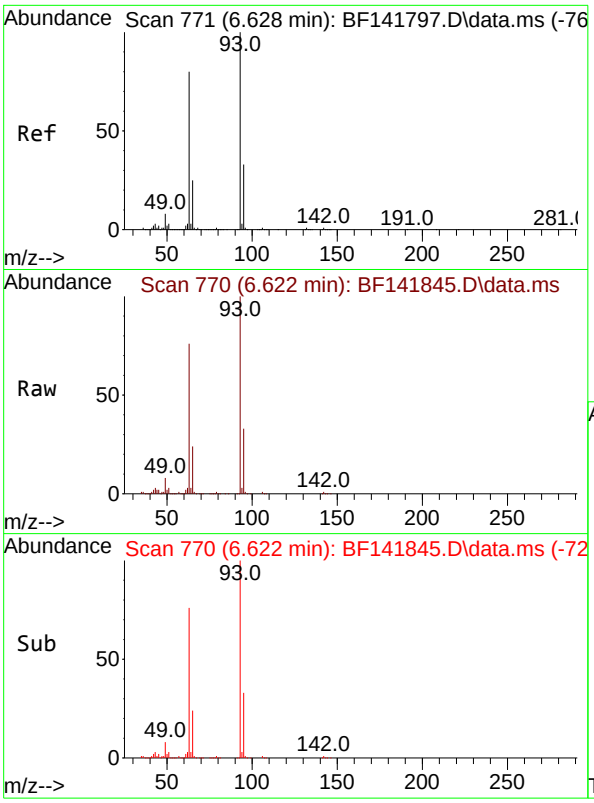



#10
Phenol
Concen: 44.504 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 94 Resp: 741516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 65 | 29.1 | 10.2 | 50.2 |
| 66 | 40.8 | 23.2 | 63.2 |

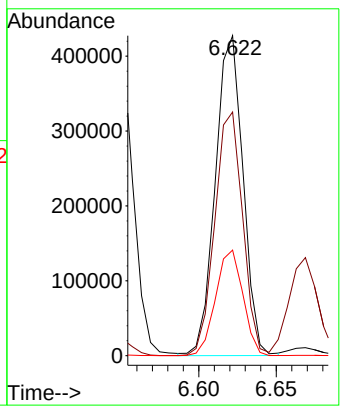





#11
bis(2-Chloroethyl)ether
Concen: 41.835 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 93 Resp: 53133

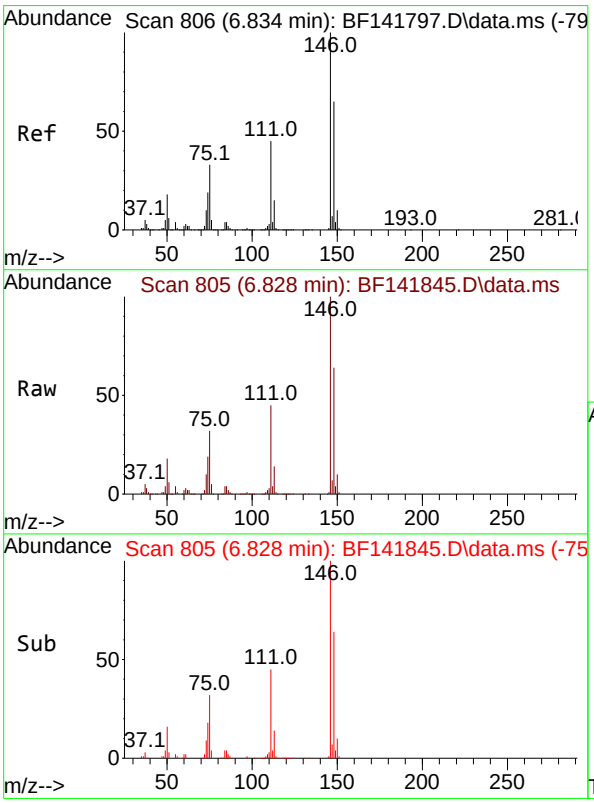
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 63 | 76.2 | 59.3 | 99.3 |
| 95 | 33.0 | 13.2 | 53.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

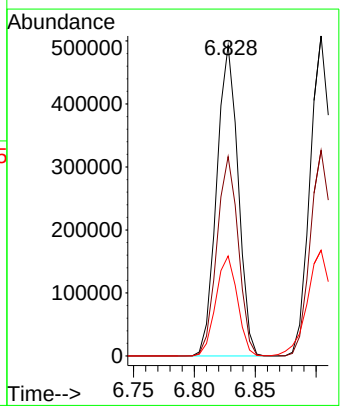
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

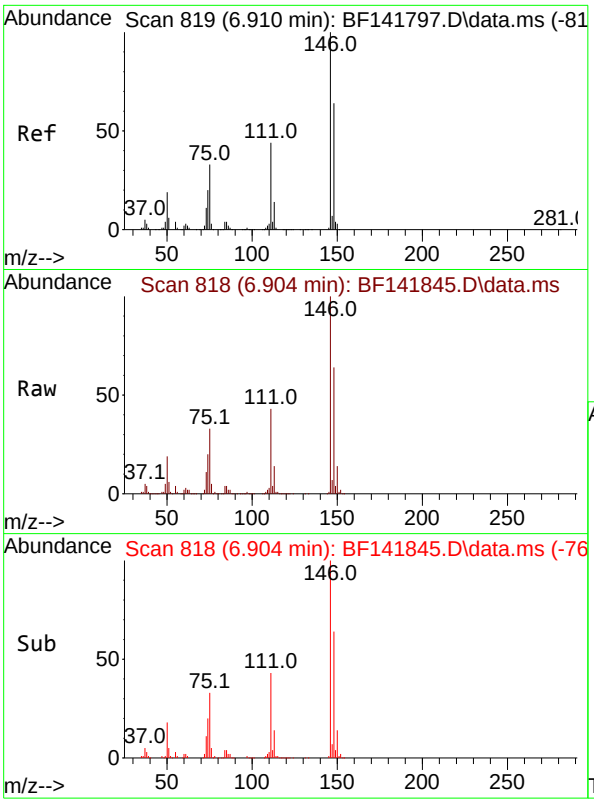



#12
1,3-Dichlorobenzene
Concen: 43.499 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:146 Resp: 603684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.2 | 51.8 | 77.6 |
| 75 | 32.2 | 26.2 | 39.4 |

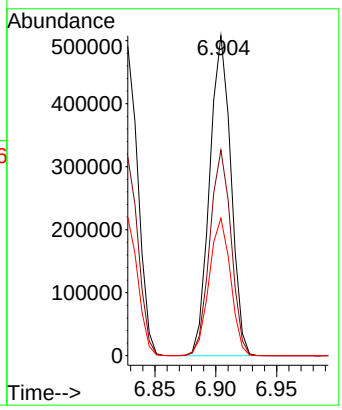





#13
1,4-Dichlorobenzene
Concen: 44.080 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:146 Resp: 61639

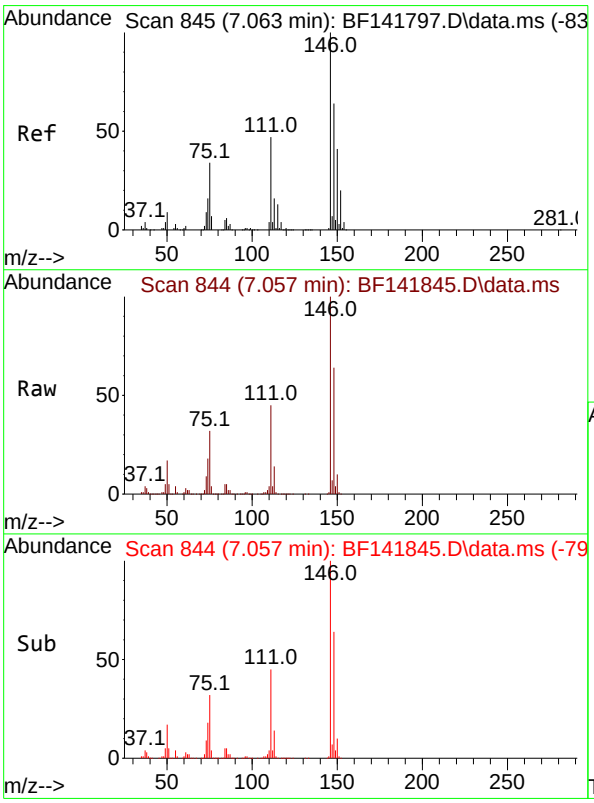
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.2 | 51.4 | 77.2 |
| 111 | 43.0 | 35.5 | 53.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

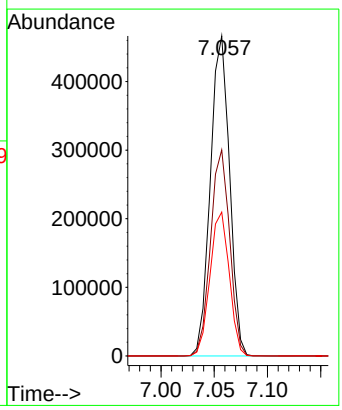
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

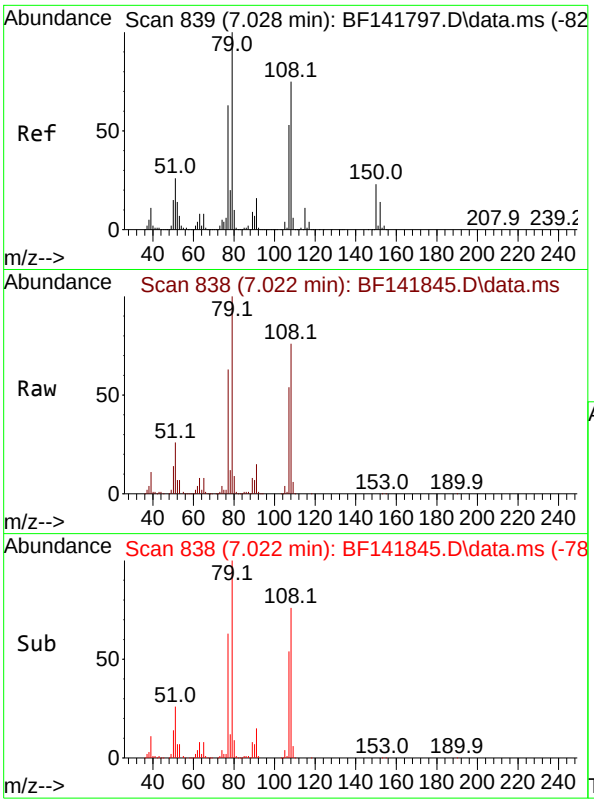



#14
1,2-Dichlorobenzene
Concen: 44.674 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:146 Resp: 583334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 148 | 64.4 | 51.2 | 76.8 |
| 111 | 44.9 | 37.8 | 56.6 |

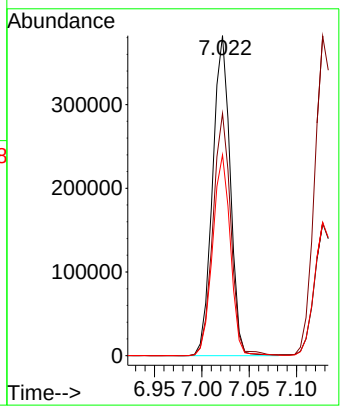





#15
Benzyl Alcohol
Concen: 39.909 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 79 Resp: 49732

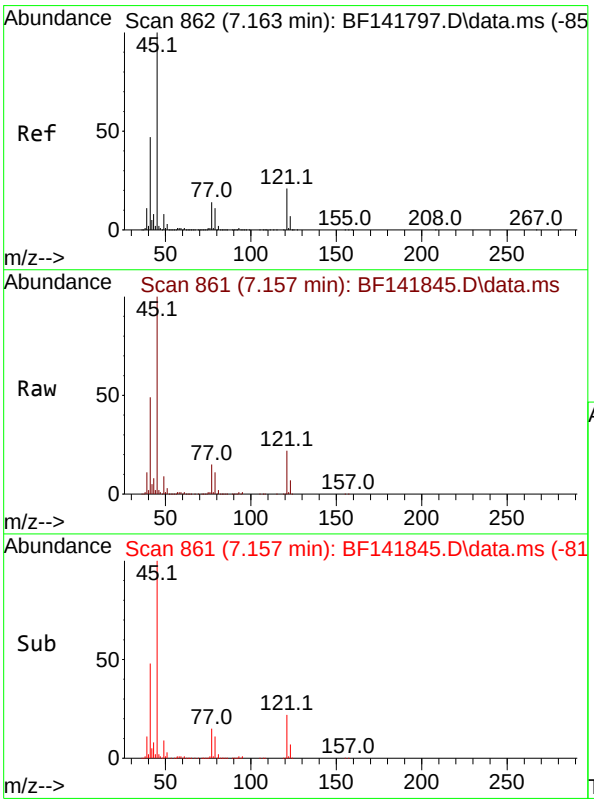
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 79 | 100 | | |
| 108 | 75.7 | 60.2 | 90.2 |
| 77 | 62.7 | 50.2 | 75.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

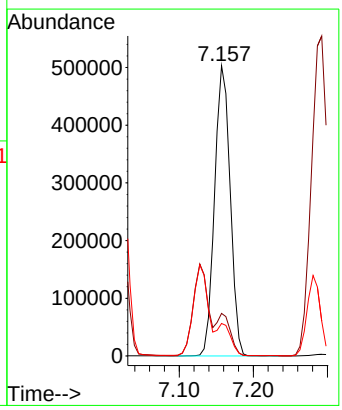
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

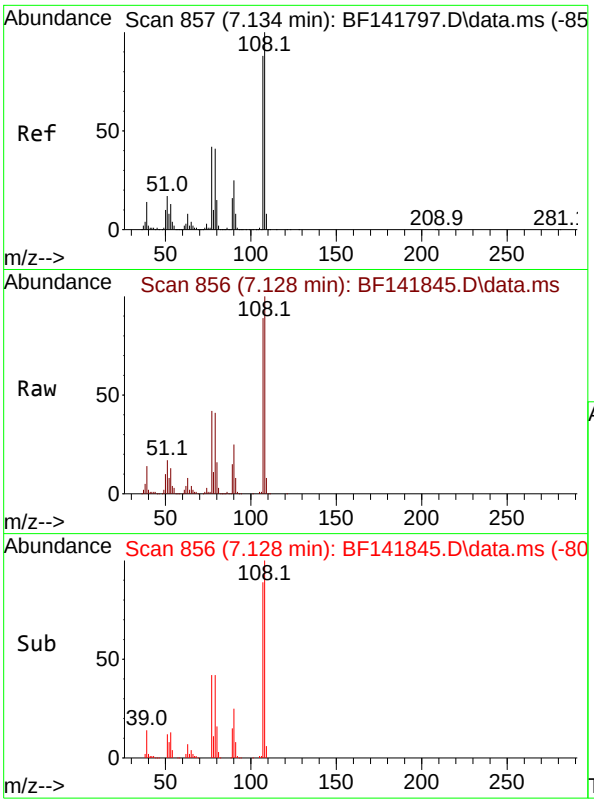



#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.031 ng
RT: 7.157 min Scan# 861
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 45 Resp: 733553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 77 | 14.7 | 0.0 | 34.4 |
| 79 | 11.2 | 0.0 | 30.9 |

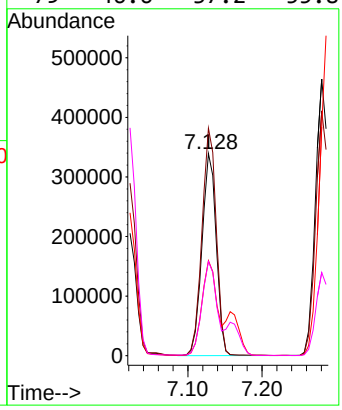





#17
2-Methylphenol
Concen: 42.513 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:107 Resp: 45475

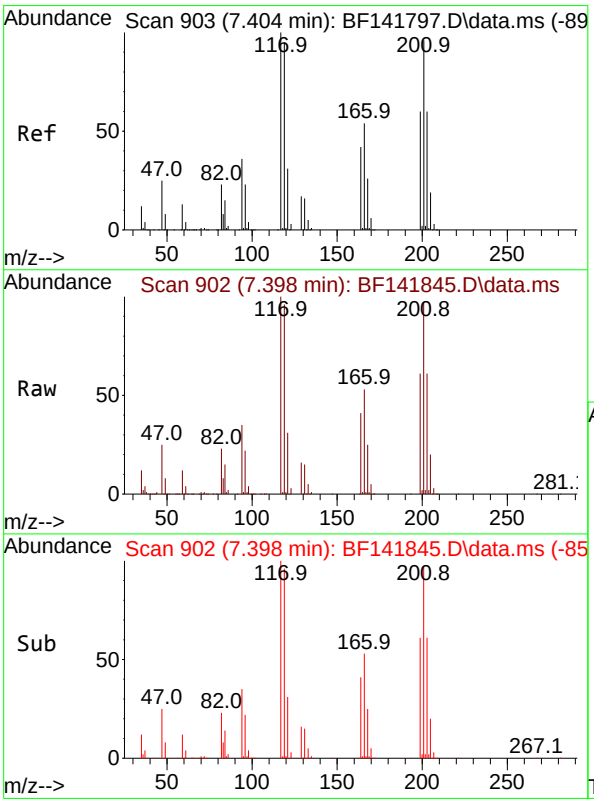
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 112.5 | 90.6 | 135.8 |
| 77 | 47.0 | 37.7 | 56.5 |
| 79 | 46.6 | 37.2 | 55.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

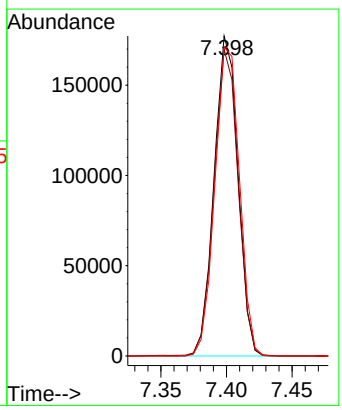
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

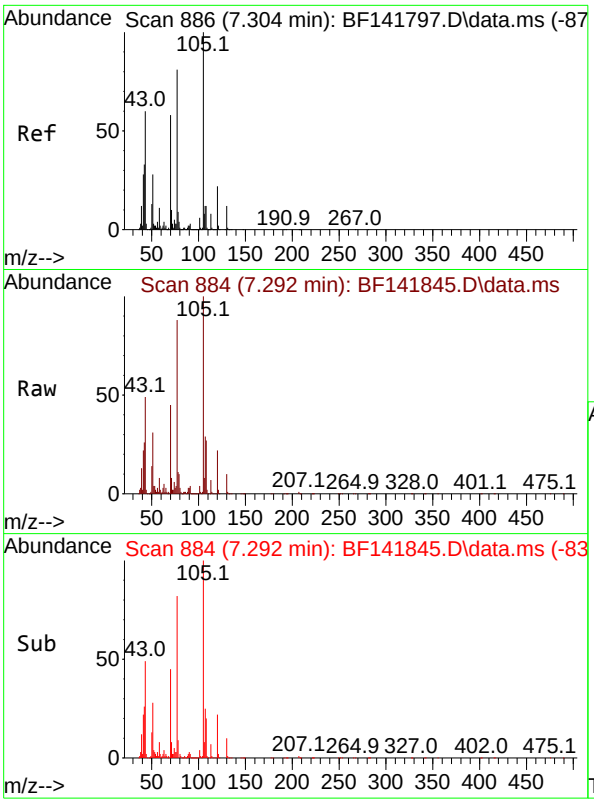



#18
Hexachloroethane
Concen: 42.859 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:117 Resp: 224314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.8 | 75.8 | 113.8 |
| 201 | 96.6 | 76.7 | 115.1 |

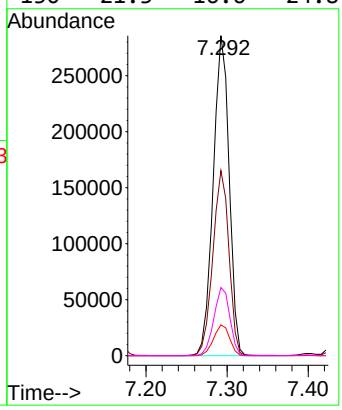





#19
n-Nitroso-di-n-propylamine
Concen: 38.092 ng
RT: 7.292 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 70 Resp: 39043

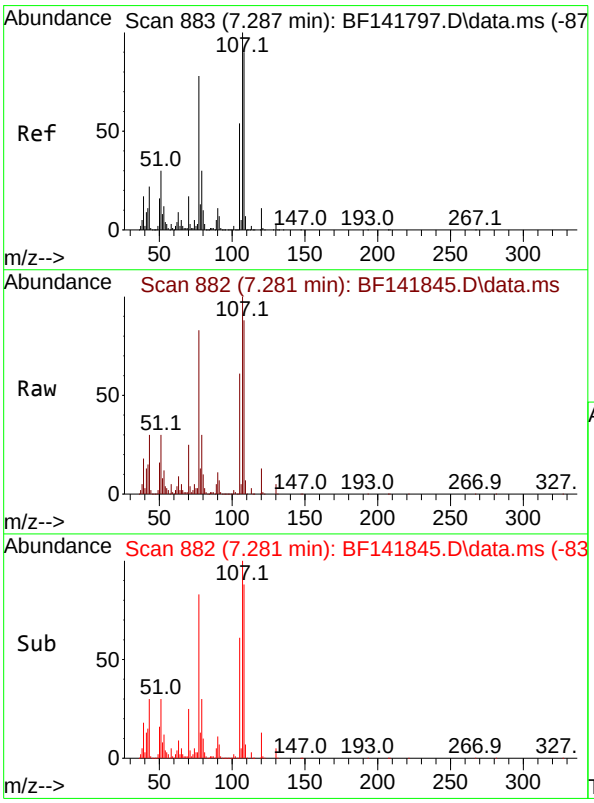
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 70 | 100 | | |
| 42 | 57.8 | 45.4 | 68.0 |
| 101 | 9.7 | 7.8 | 11.8 |
| 130 | 21.3 | 16.6 | 24.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

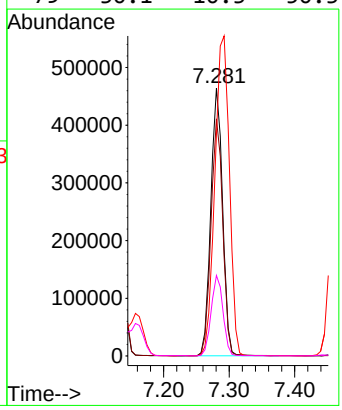
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

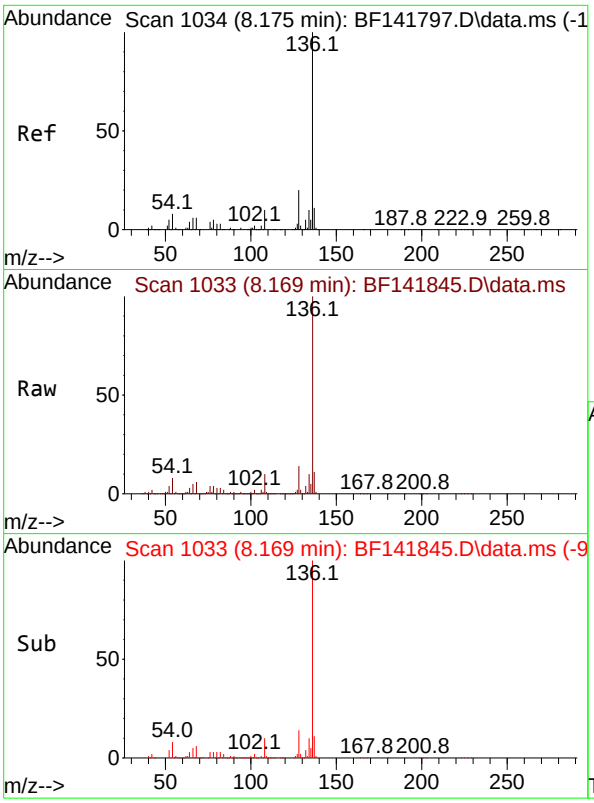



#20
3+4-Methylphenols
Concen: 43.679 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:107 Resp: 581786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 108 | 88.5 | 69.7 | 109.7 |
| 77 | 82.7 | 58.3 | 98.3 |
| 79 | 30.1 | 10.3 | 50.3 |

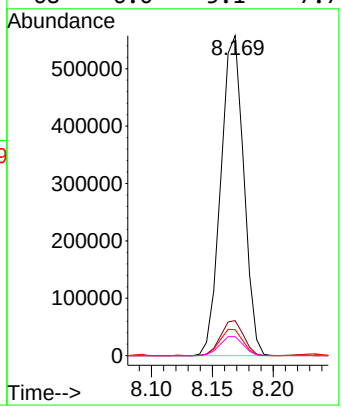





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:136 Resp: 731999

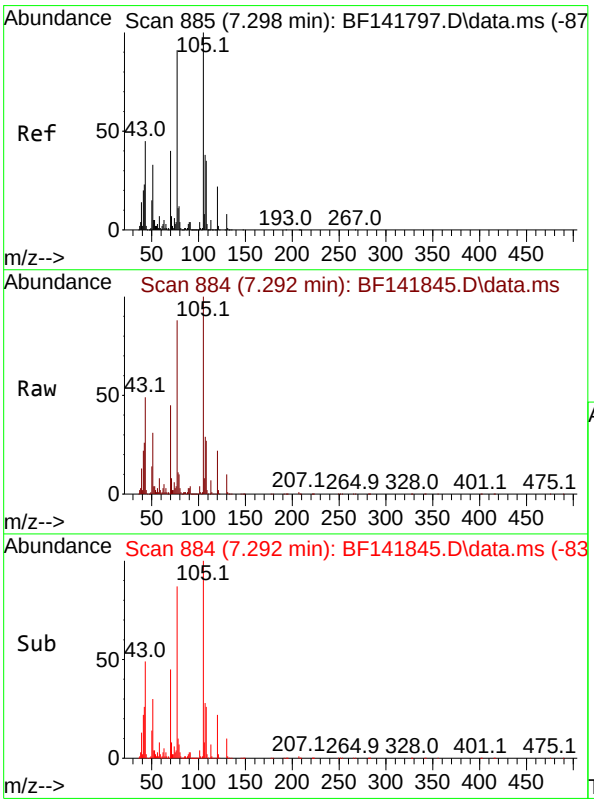
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 136 | 100 | | |
| 137 | 11.0 | 8.9 | 13.3 |
| 54 | 8.1 | 6.9 | 10.3 |
| 68 | 6.0 | 5.1 | 7.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

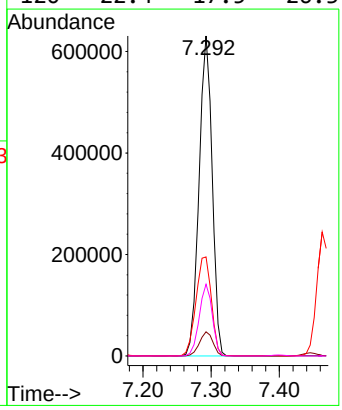
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

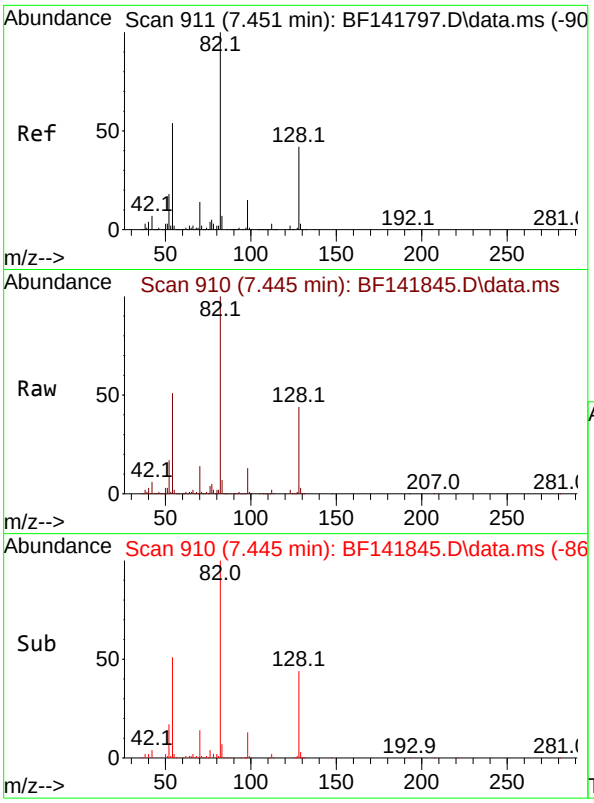



#22
Acetophenone
Concen: 47.275 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:105 Resp: 842821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 71 | 7.6 | 5.4 | 8.0 |
| 51 | 31.0 | 26.1 | 39.1 |
| 120 | 22.4 | 17.5 | 26.3 |

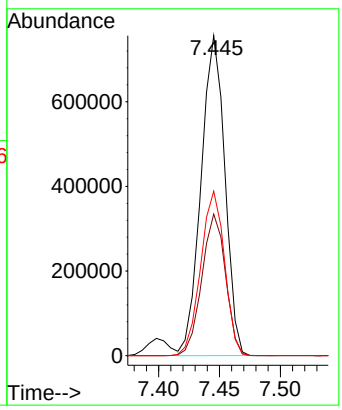





#23
Nitrobenzene-d5
Concen: 89.888 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 82 Resp: 102937

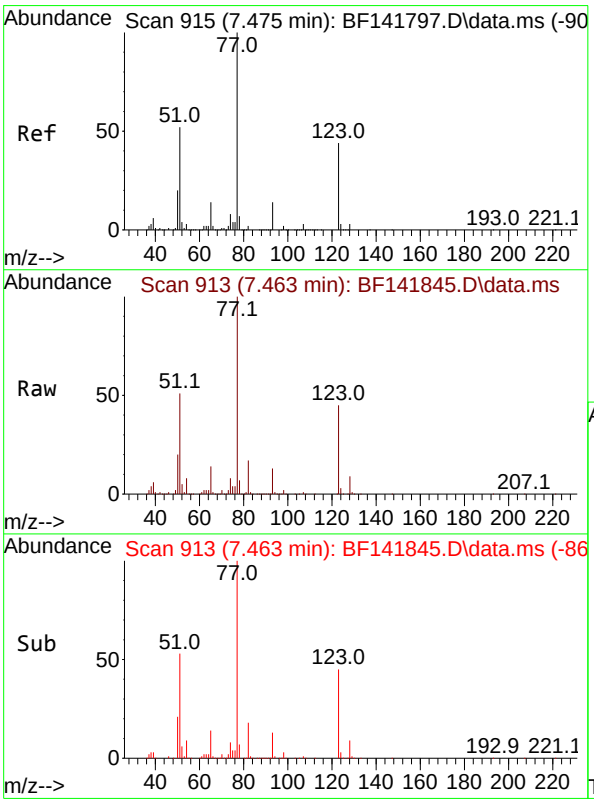
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 128 | 44.3 | 33.5 | 50.3 |
| 54 | 51.4 | 42.7 | 64.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

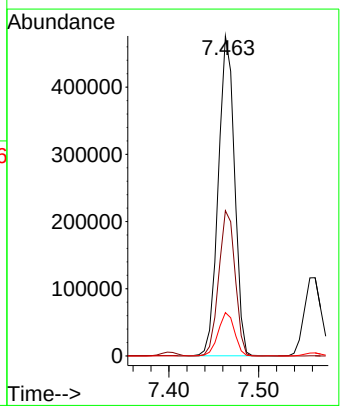
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

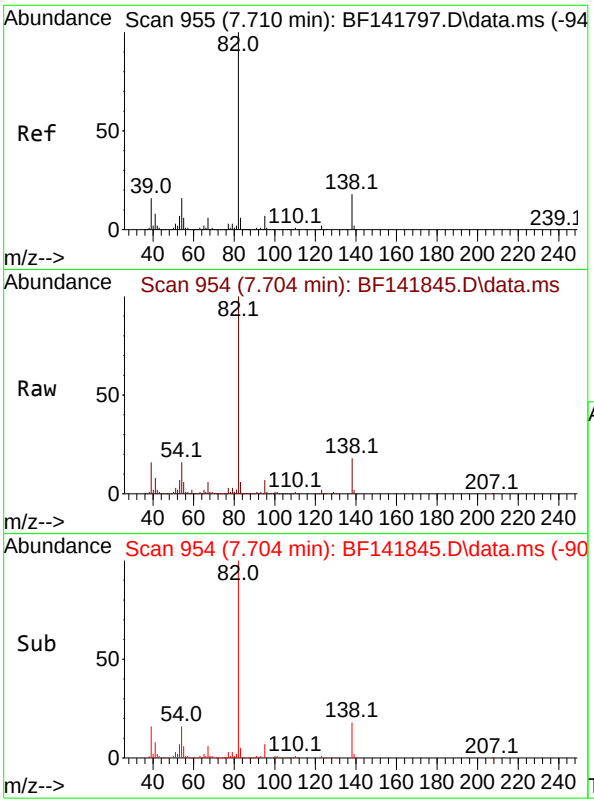



#24
Nitrobenzene
Concen: 48.826 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 77 Resp: 598766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 123 | 45.4 | 35.8 | 53.8 |
| 65 | 13.5 | 11.2 | 16.8 |

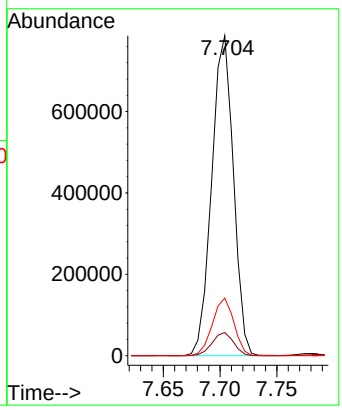





#25
Isophorone
Concen: 42.481 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 82 Resp: 104512

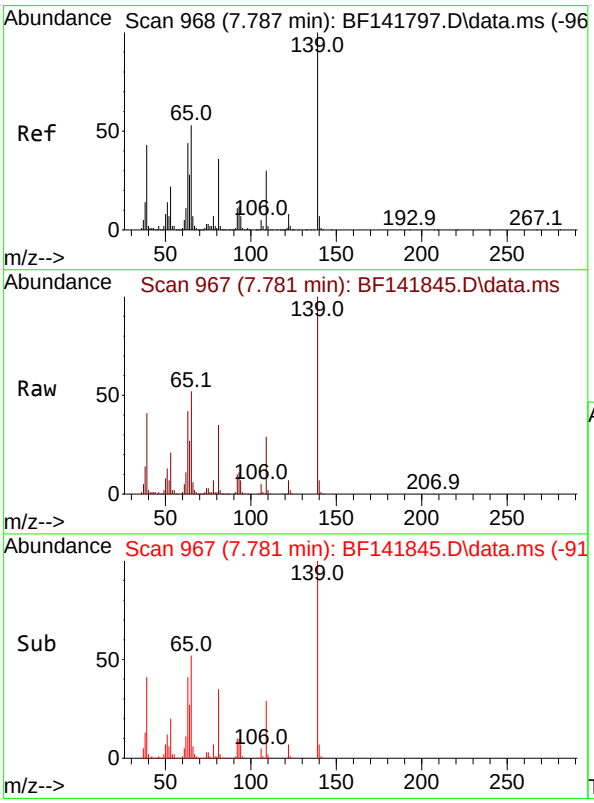
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 82 | 100 | | |
| 95 | 7.3 | 5.8 | 8.8 |
| 138 | 18.0 | 14.0 | 21.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

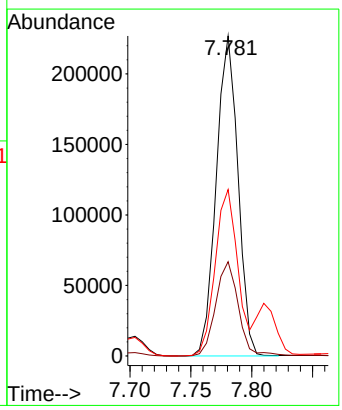
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

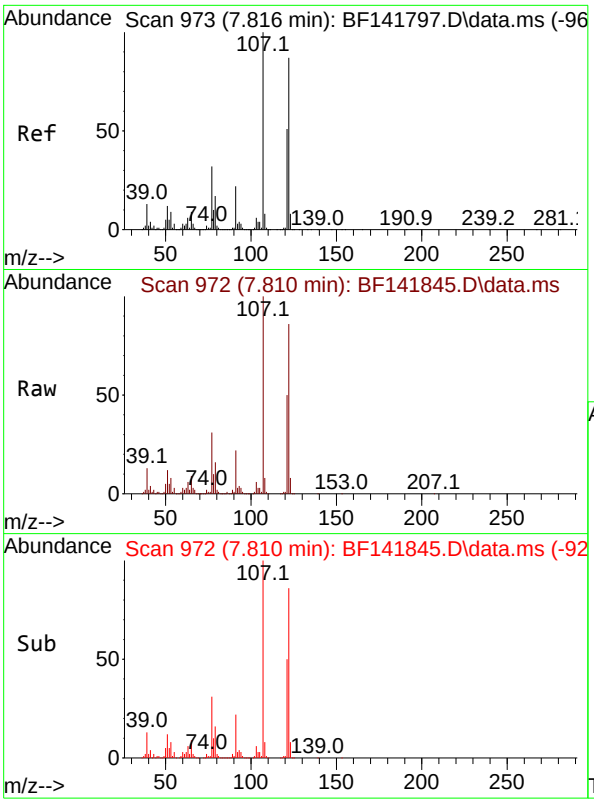



#26
2-Nitrophenol
Concen: 51.099 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:139 Resp: 281708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 29.4 | 24.1 | 36.1 |
| 65 | 52.0 | 42.3 | 63.5 |

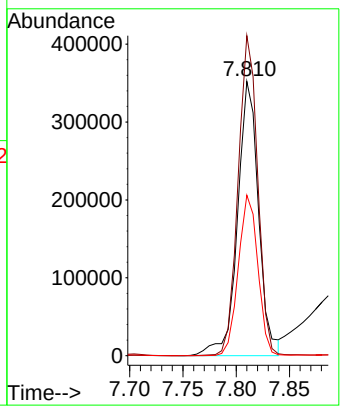





#27
2,4-Dimethylphenol
Concen: 53.613 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:122 Resp: 48486

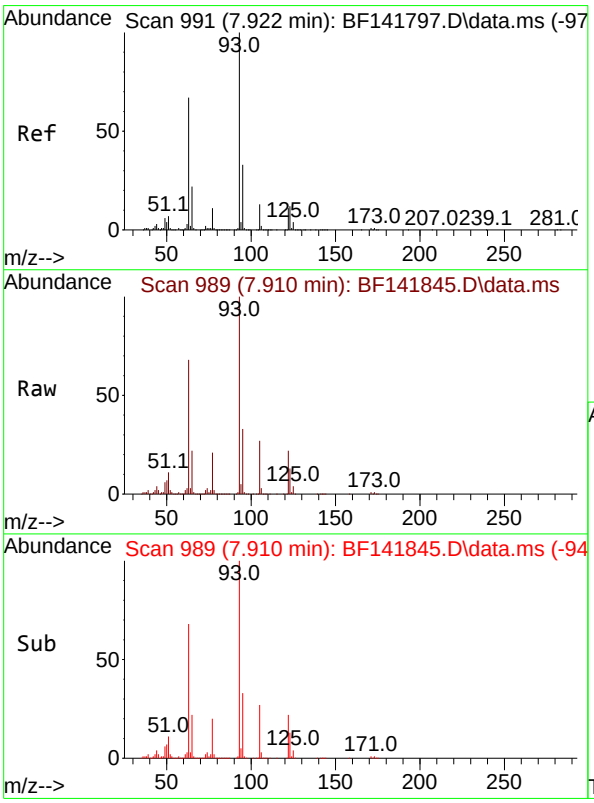
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 107 | 116.7 | 92.5 | 138.7 |
| 121 | 58.5 | 47.1 | 70.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

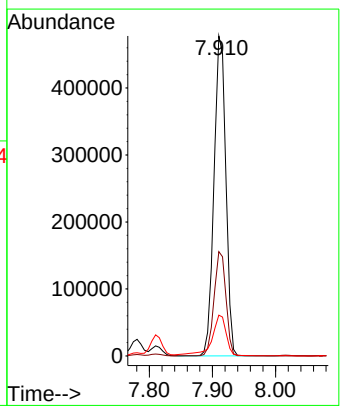
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

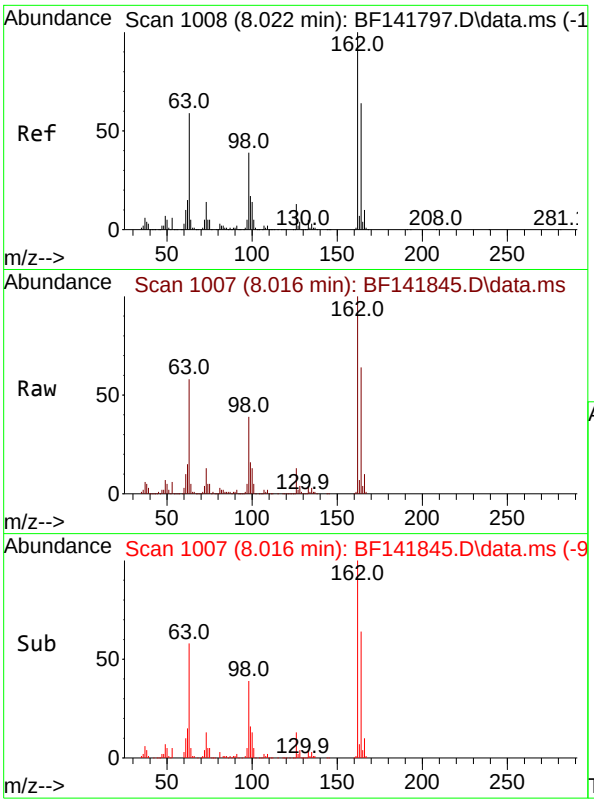



#28
bis(2-Chloroethoxy)methane
Concen: 39.625 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 93 Resp: 621875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 32.6 | 26.5 | 39.7 |
| 123 | 12.8 | 10.0 | 15.0 |

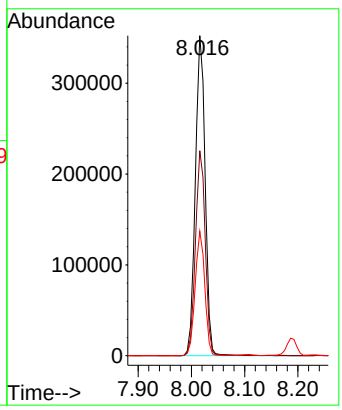





#29
2,4-Dichlorophenol
Concen: 43.378 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:162 Resp: 45256

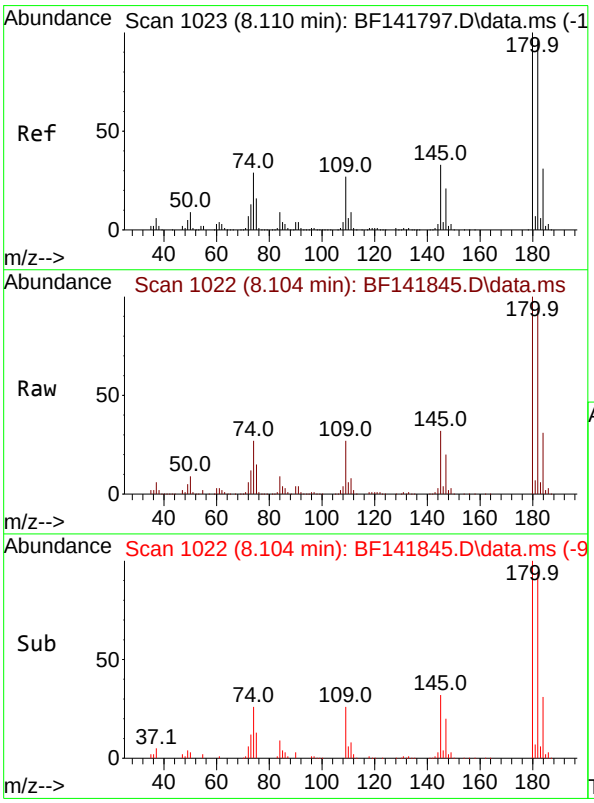
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 164 | 64.0 | 44.3 | 84.3 |
| 98 | 38.9 | 19.6 | 59.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

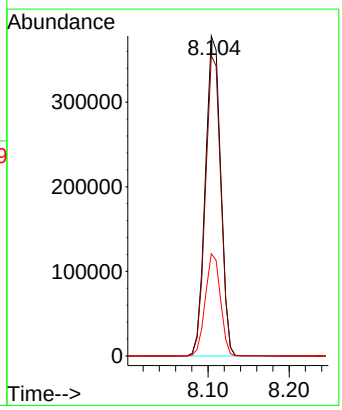
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

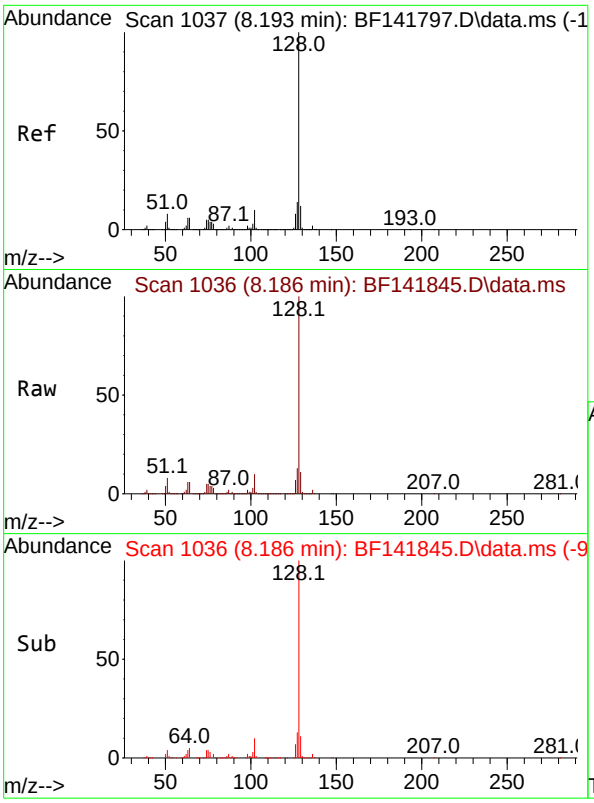



#30
1,2,4-Trichlorobenzene
Concen: 43.300 ng
RT: 8.104 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:180 Resp: 495020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 76.8 | 115.2 |
| 145 | 32.0 | 26.4 | 39.6 |

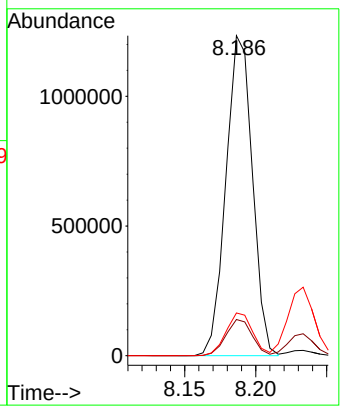





#31
Naphthalene
Concen: 42.475 ng
RT: 8.186 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:128 Resp: 159799

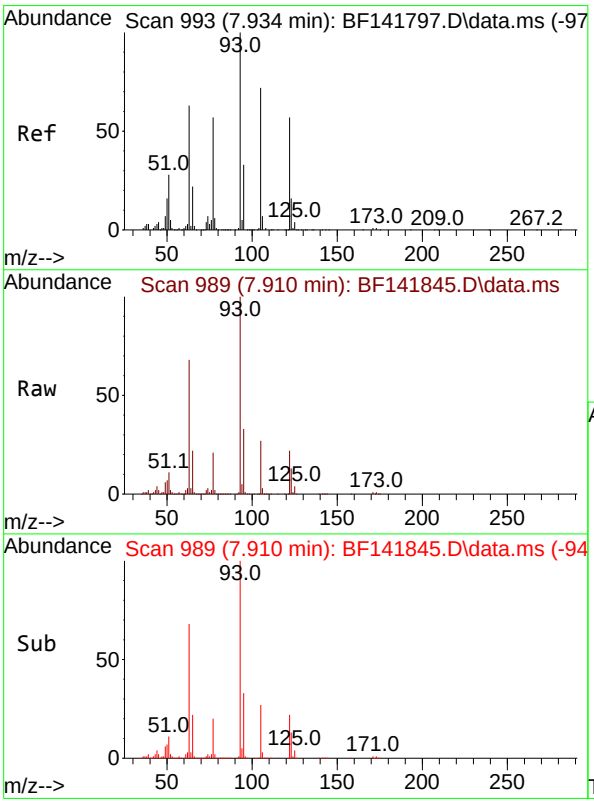
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 129 | 11.3 | 9.2 | 13.8 |
| 127 | 13.4 | 11.0 | 16.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

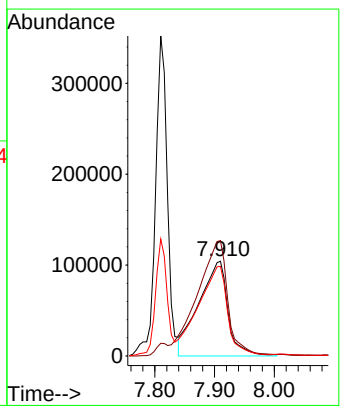
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

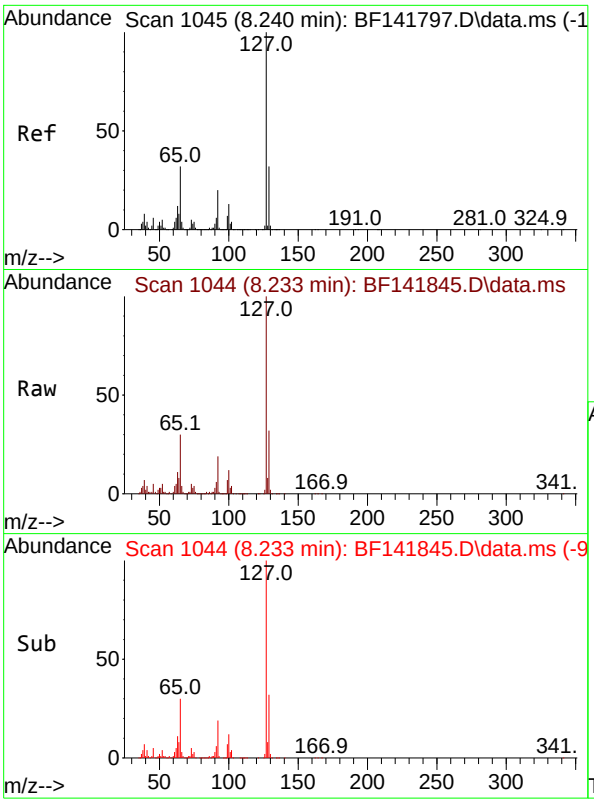



#32
Benzoic acid
Concen: 47.372 ng m
RT: 7.910 min Scan# 989
Delta R.T. -0.024 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:122 Resp: 356667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 122 | 100 | | |
| 105 | 121.9 | 105.8 | 145.8 |
| 77 | 94.6 | 79.9 | 119.9 |

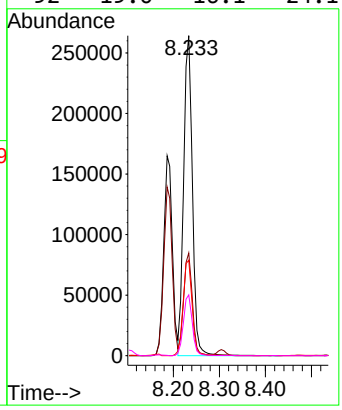





#33
4-Chloroaniline
Concen: 25.186 ng
RT: 8.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:127 Resp: 34742

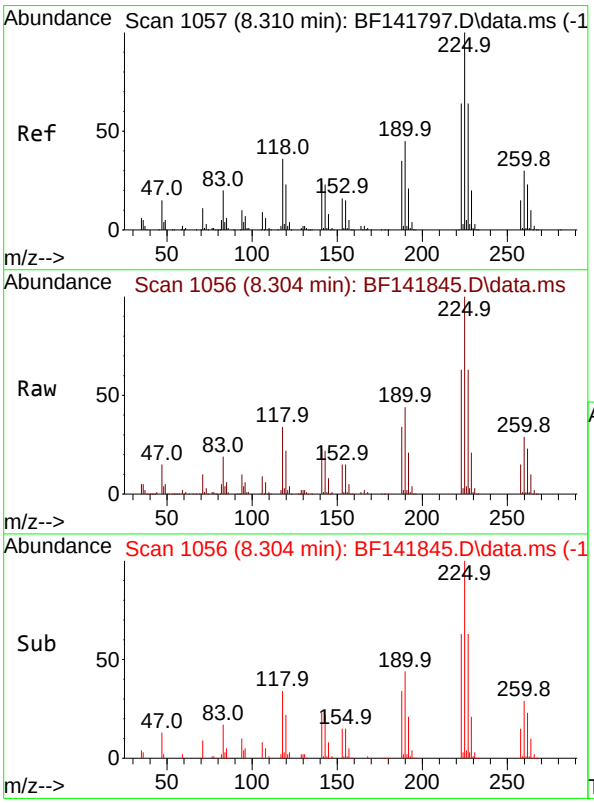
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 127 | 100 | | |
| 129 | 32.1 | 26.1 | 39.1 |
| 65 | 29.8 | 25.7 | 38.5 |
| 92 | 19.0 | 16.1 | 24.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

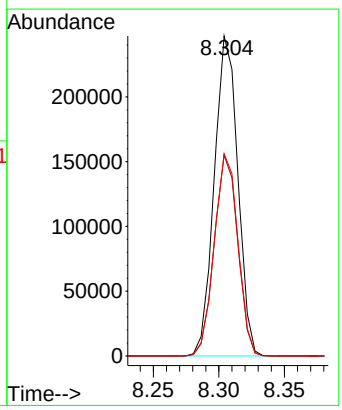
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

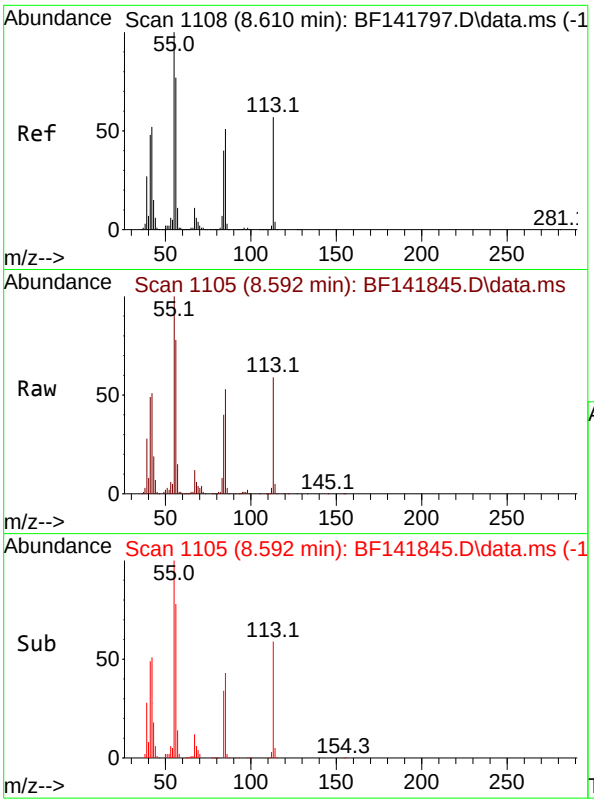



#34
Hexachlorobutadiene
Concen: 43.322 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:225 Resp: 307767

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 51.4 | 77.2 |
| 227 | 63.2 | 51.6 | 77.4 |






#35
Caprolactam
Concen: 51.613 ng
RT: 8.592 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

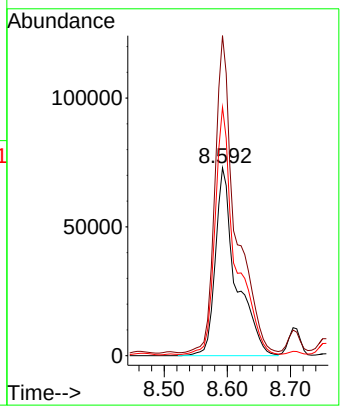
Tgt Ion:113 Resp: 16565

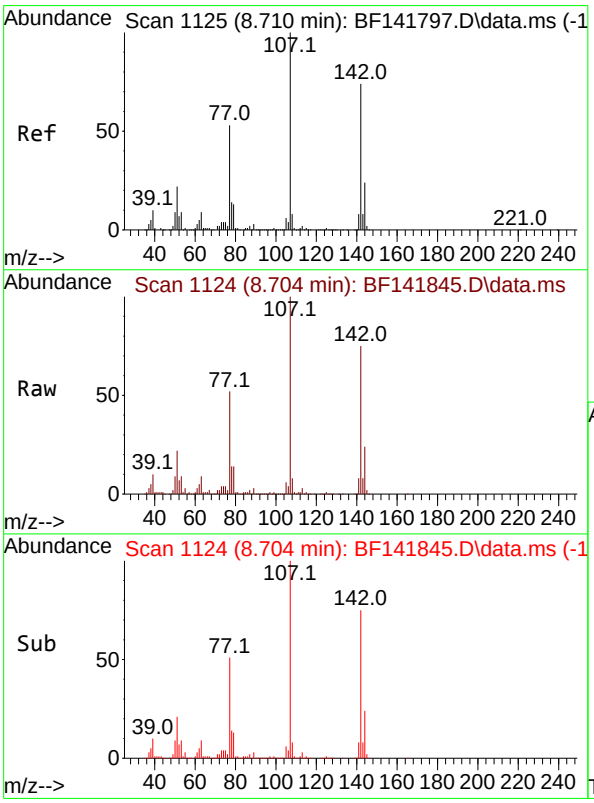
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 55 | 170.4 | 155.6 | 195.6 |
| 56 | 132.3 | 114.6 | 154.6 |

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

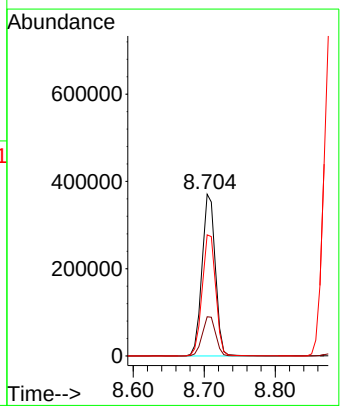


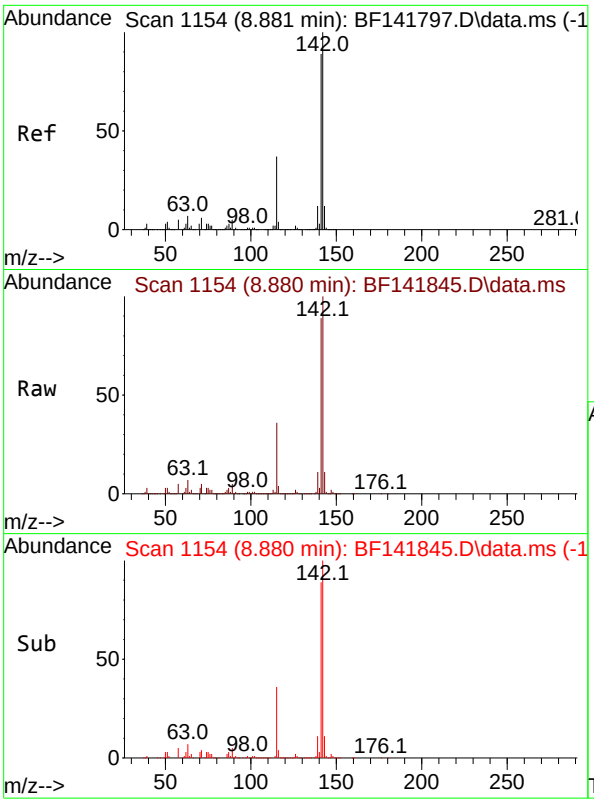




#36
4-Chloro-3-methylphenol
Concen: 41.874 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:107 Resp: 485311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 144 | 24.2 | 19.4 | 29.0 |
| 142 | 74.9 | 59.4 | 89.0 |

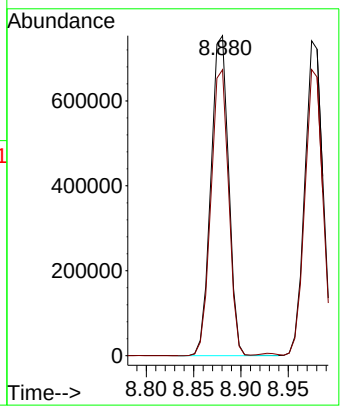





#37
2-Methylnaphthalene
Concen: 39.744 ng
RT: 8.880 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:142 Resp: 98075

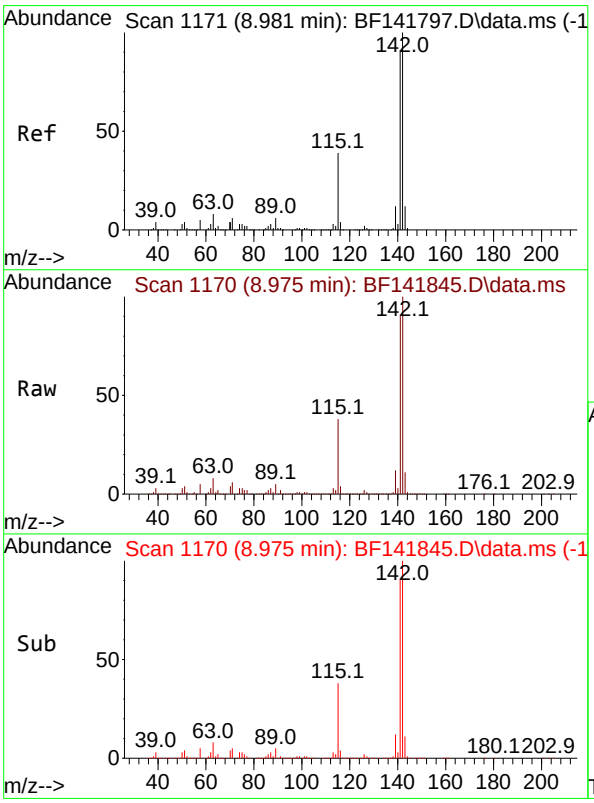
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 89.4 | 71.1 | 106.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

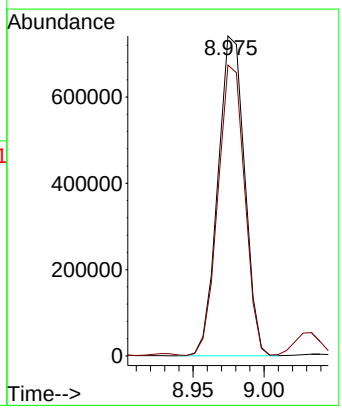
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

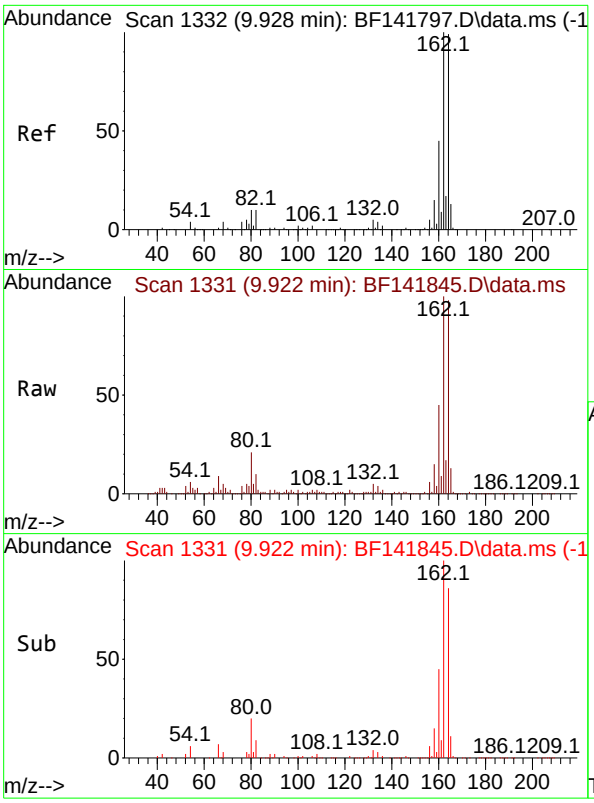



#38
1-Methylnaphthalene
Concen: 40.974 ng
RT: 8.975 min Scan# 1170
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:142 Resp: 970185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 90.9 | 73.1 | 109.7 |

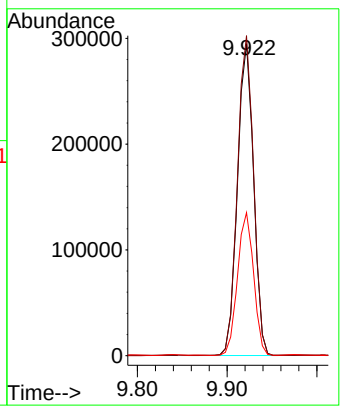





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:164 Resp: 36723

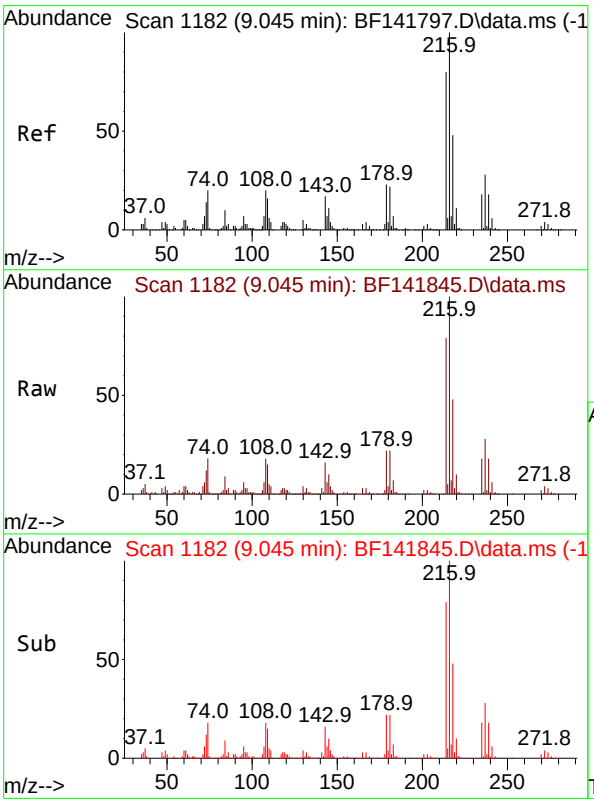
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 162 | 102.5 | 80.6 | 120.8 |
| 160 | 45.8 | 36.3 | 54.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

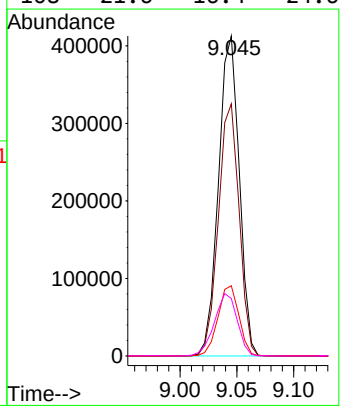
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

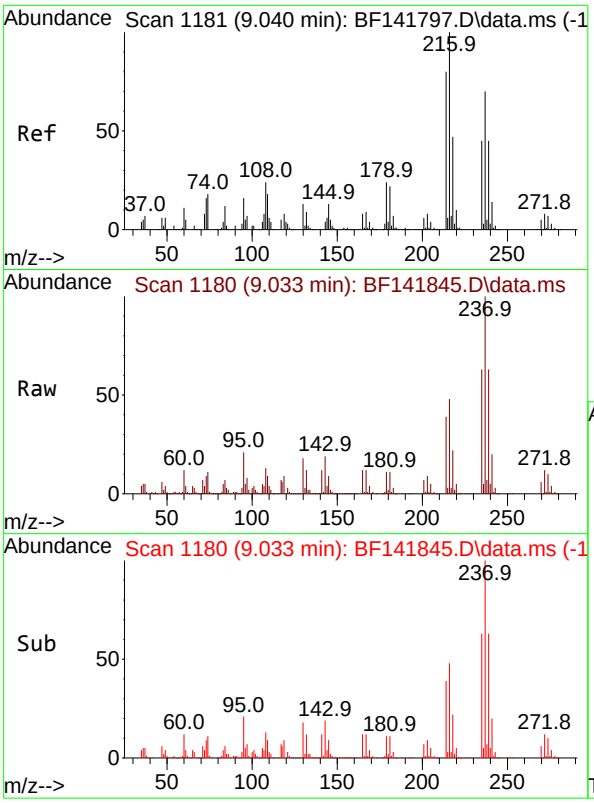



#40
1,2,4,5-Tetrachlorobenzene
Concen: 49.478 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:216 Resp: 524773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 216 | 100 | | |
| 214 | 78.9 | 63.5 | 95.3 |
| 179 | 22.3 | 18.1 | 27.1 |
| 108 | 21.6 | 16.4 | 24.6 |

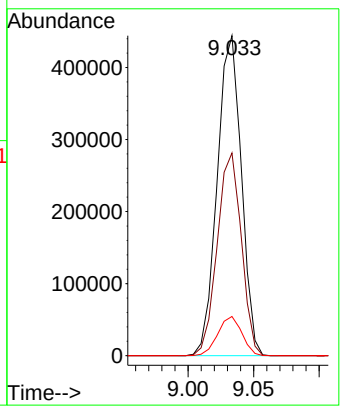





#41
Hexachlorocyclopentadiene
Concen: 128.474 ng
RT: 9.033 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:237 Resp: 56865

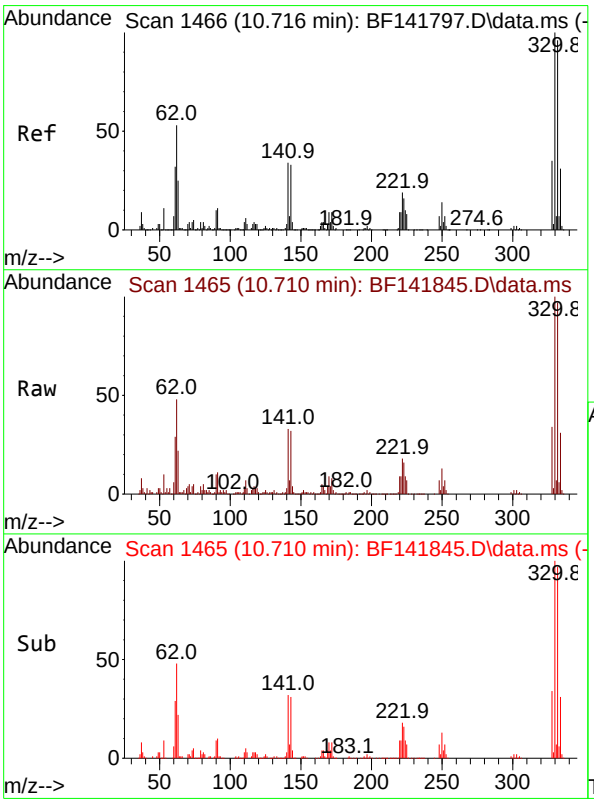
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 237 | 100 | | |
| 235 | 63.3 | 43.3 | 83.3 |
| 272 | 12.2 | 0.0 | 31.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

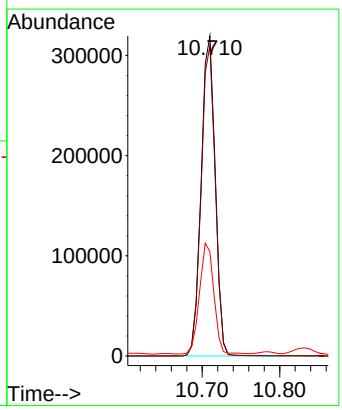
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

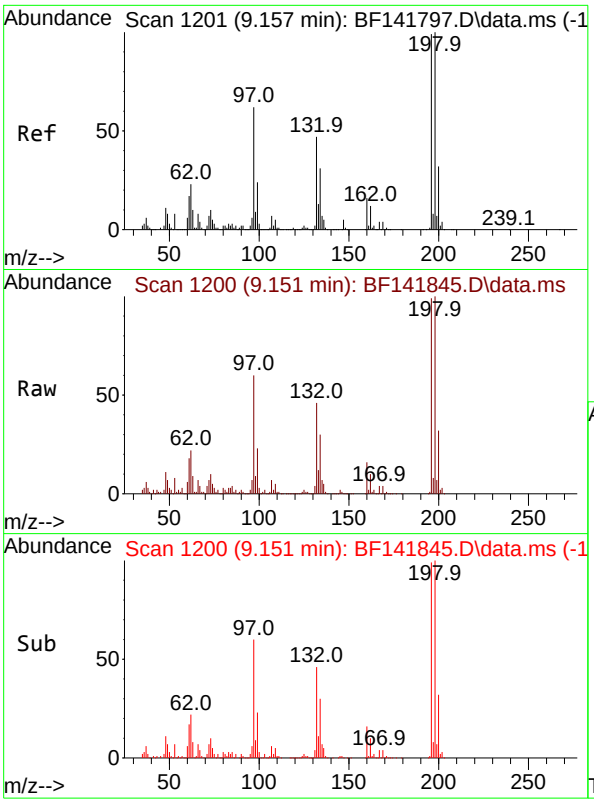



#42
2,4,6-Tribromophenol
Concen: 116.878 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:330 Resp: 402954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 330 | 100 | | |
| 332 | 96.7 | 76.6 | 115.0 |
| 141 | 35.2 | 29.0 | 43.4 |






#43
2,4,6-Trichlorophenol
Concen: 46.755 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

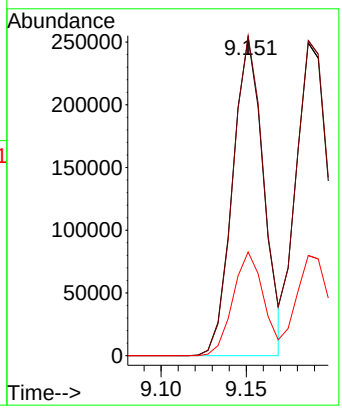
Tgt Ion:196 Resp: 32032

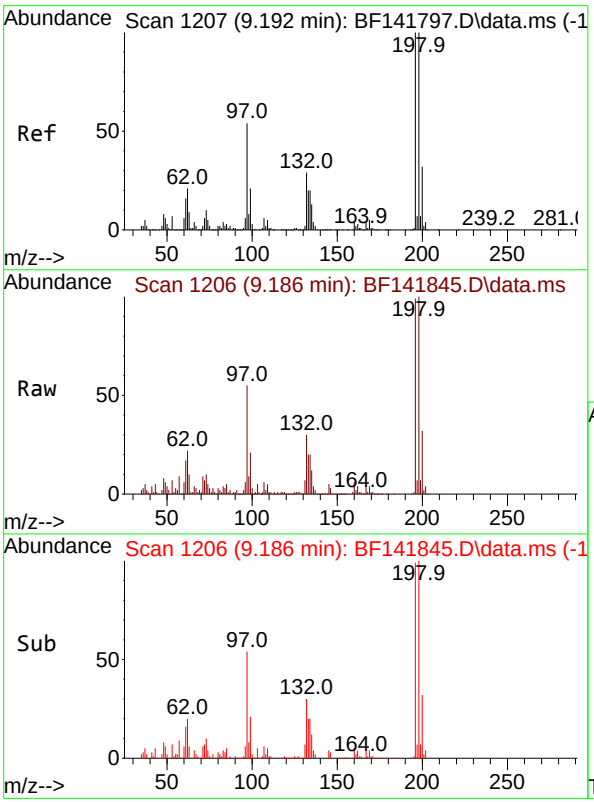
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.8 | 80.4 | 120.6 |
| 200 | 32.7 | 25.7 | 38.5 |

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

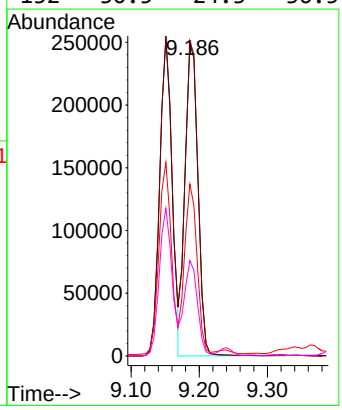


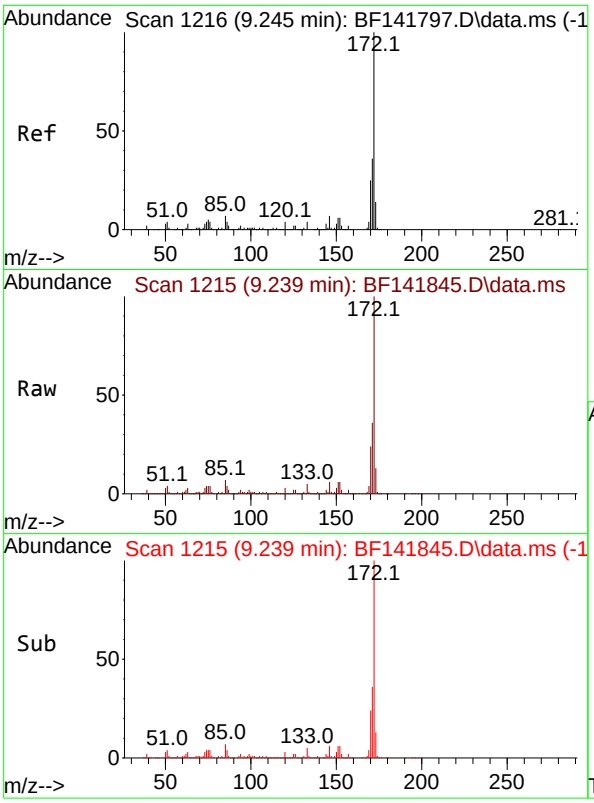




#44
2,4,5-Trichlorophenol
Concen: 48.135 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:196 Resp: 326554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 196 | 100 | | |
| 198 | 100.7 | 79.7 | 119.5 |
| 97 | 54.9 | 44.2 | 66.2 |
| 132 | 30.5 | 24.3 | 36.5 |

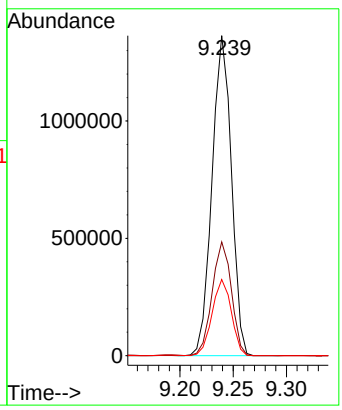





#45
2-Fluorobiphenyl
Concen: 75.048 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:172 Resp: 171879

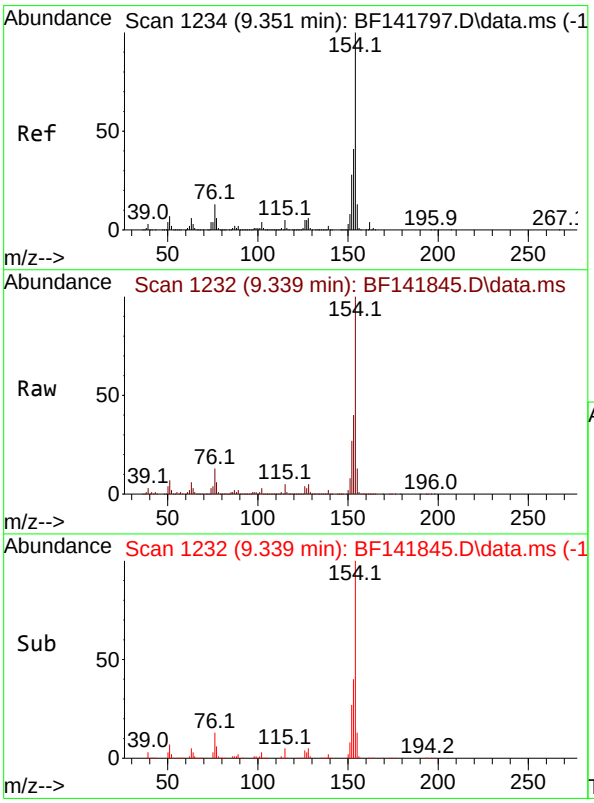
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 172 | 100 | | |
| 171 | 35.5 | 29.2 | 43.8 |
| 170 | 23.8 | 19.7 | 29.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

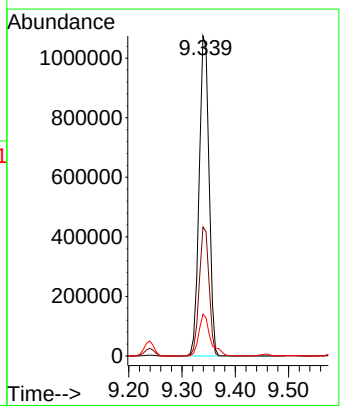
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

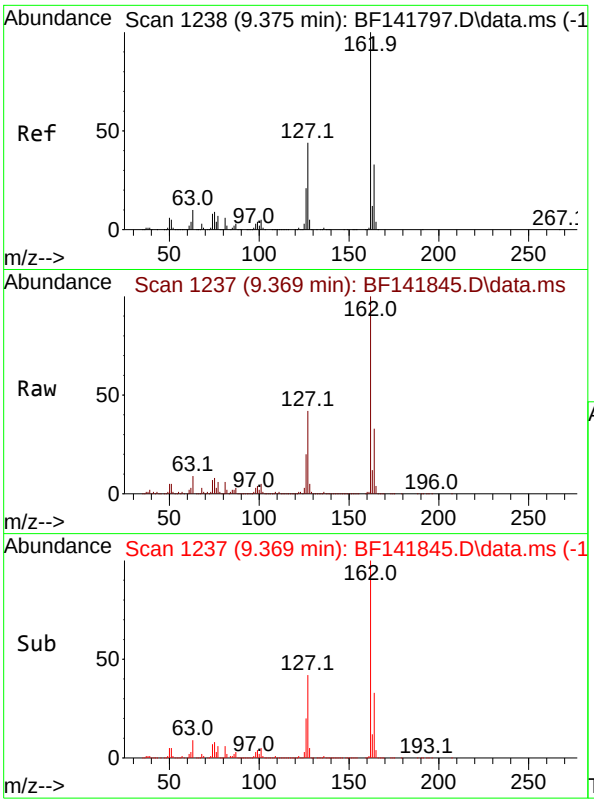



#46
1,1'-Biphenyl
Concen: 49.416 ng
RT: 9.339 min Scan# 1232
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:154 Resp: 1381301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 40.3 | 21.4 | 61.4 |
| 76 | 13.1 | 0.0 | 33.4 |

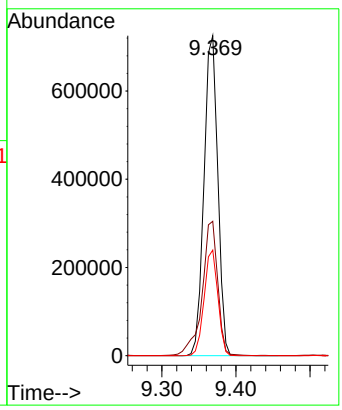





#47
2-Chloronaphthalene
Concen: 45.529 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:162 Resp: 93930

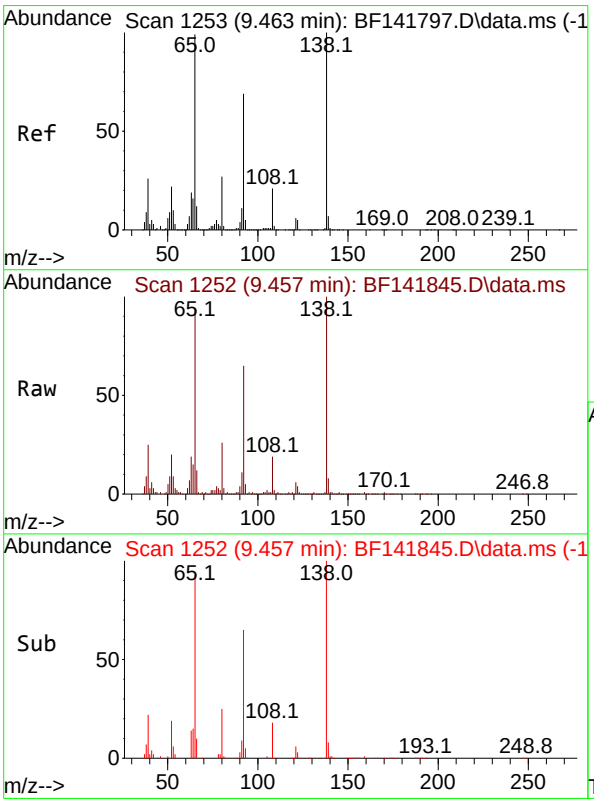
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 162 | 100 | | |
| 127 | 42.0 | 35.0 | 52.6 |
| 164 | 33.0 | 26.6 | 40.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

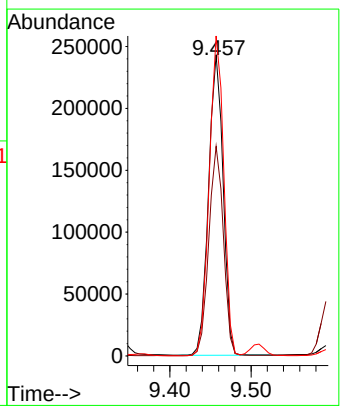
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

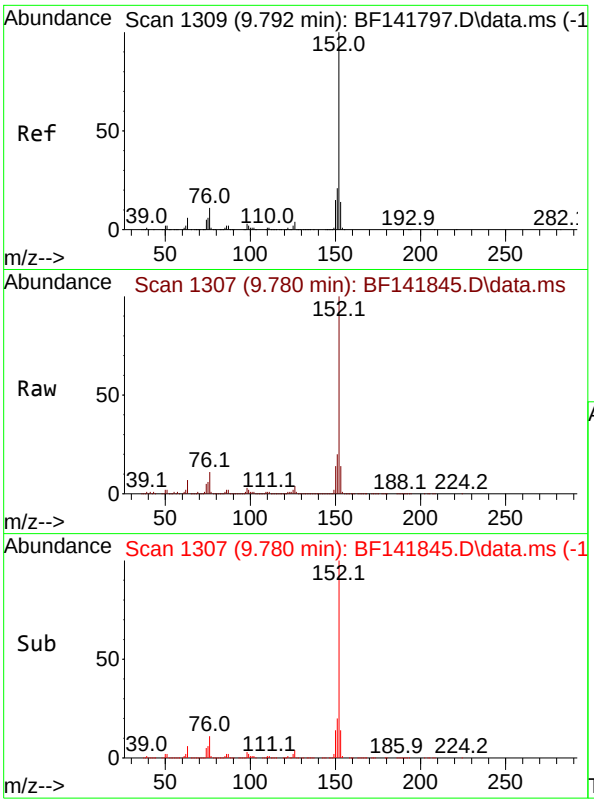



#48
2-Nitroaniline
Concen: 52.958 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 65 Resp: 301849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 92 | 69.6 | 55.7 | 83.5 |
| 138 | 106.2 | 80.6 | 121.0 |

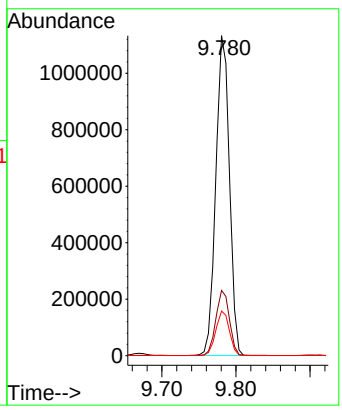





#49
Acenaphthylene
Concen: 46.713 ng
RT: 9.780 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:152 Resp: 144494

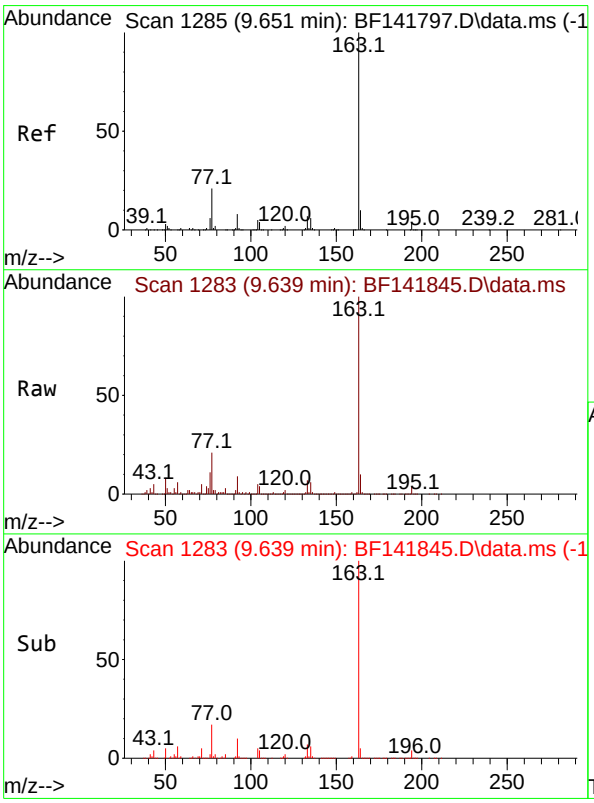
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 151 | 20.4 | 16.6 | 24.8 |
| 153 | 14.0 | 11.2 | 16.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

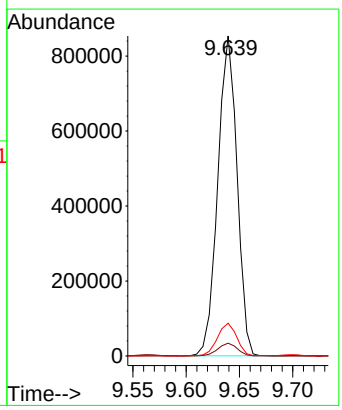
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

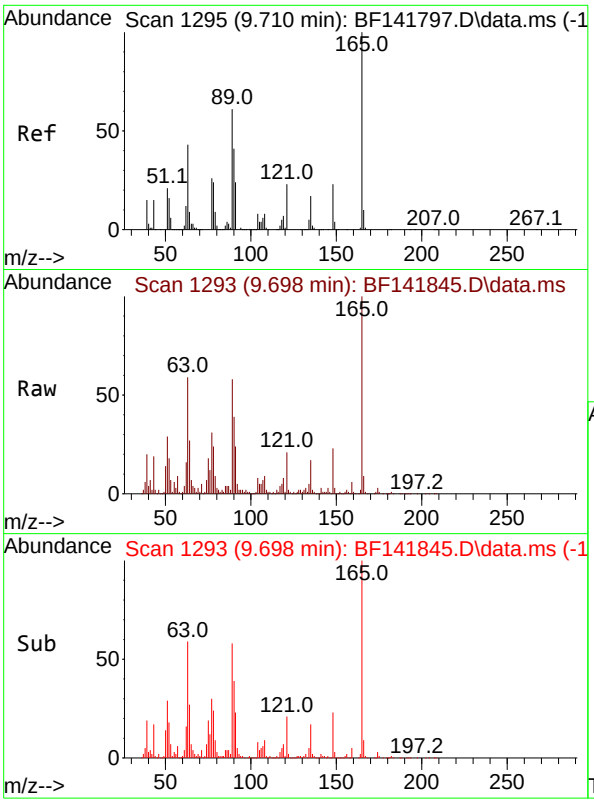



#50
Dimethylphthalate
Concen: 43.481 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:163 Resp: 1069323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 163 | 100 | | |
| 194 | 4.0 | 3.1 | 4.7 |
| 164 | 10.3 | 8.4 | 12.6 |






#51
2,6-Dinitrotoluene
Concen: 49.987 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

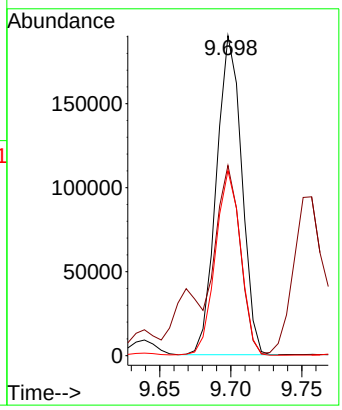
Tgt Ion:165 Resp: 23575

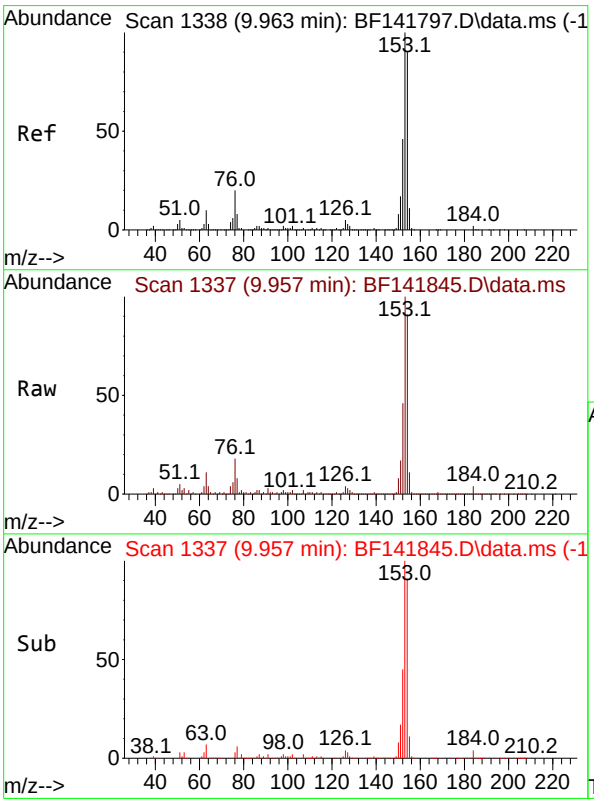
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 59.4 | 49.5 | 74.3 |
| 89 | 57.8 | 49.0 | 73.4 |

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

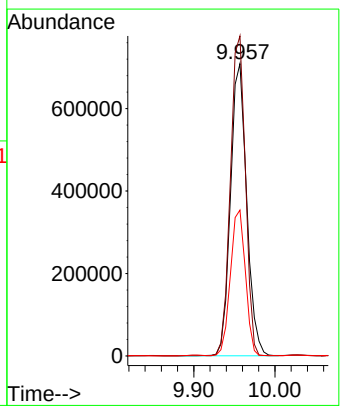


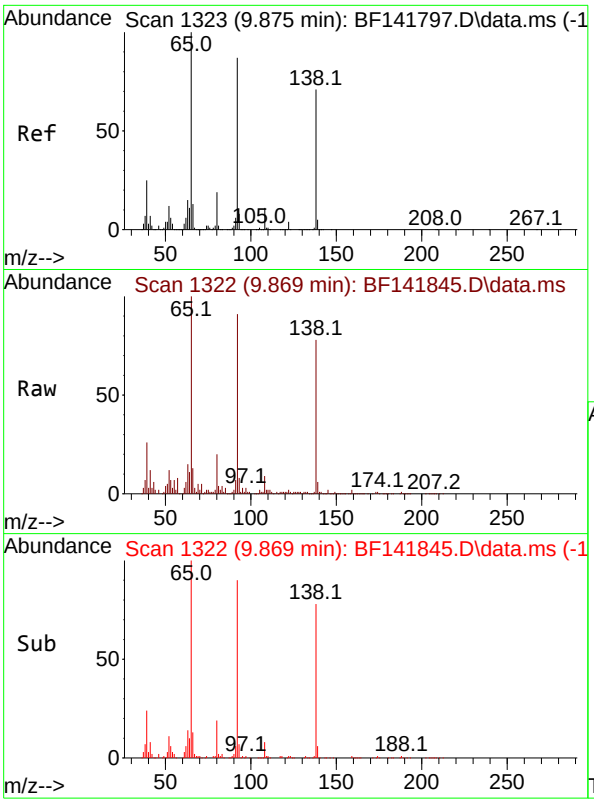




#52
Acenaphthene
Concen: 46.974 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:154 Resp: 980429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 154 | 100 | | |
| 153 | 109.5 | 88.7 | 133.1 |
| 152 | 49.9 | 40.9 | 61.3 |

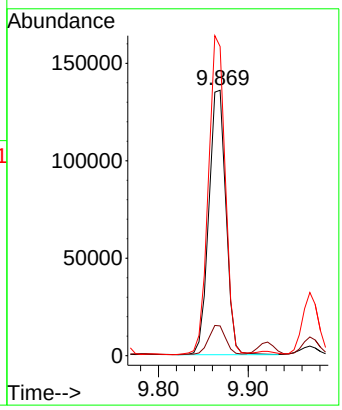





#53
3-Nitroaniline
Concen: 36.508 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:138 Resp: 17915

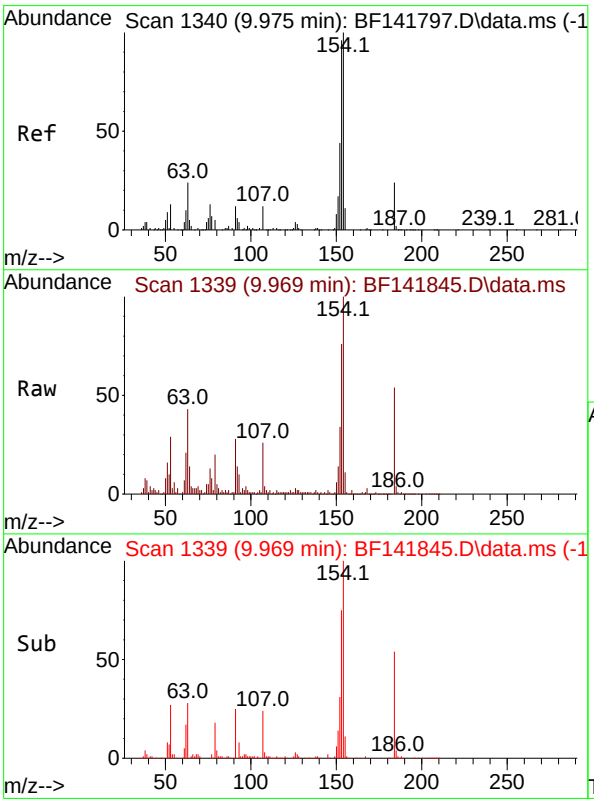
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 108 | 11.2 | 12.7 | 19.1# |
| 92 | 116.4 | 97.9 | 146.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

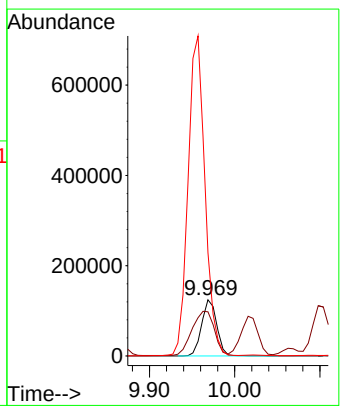
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

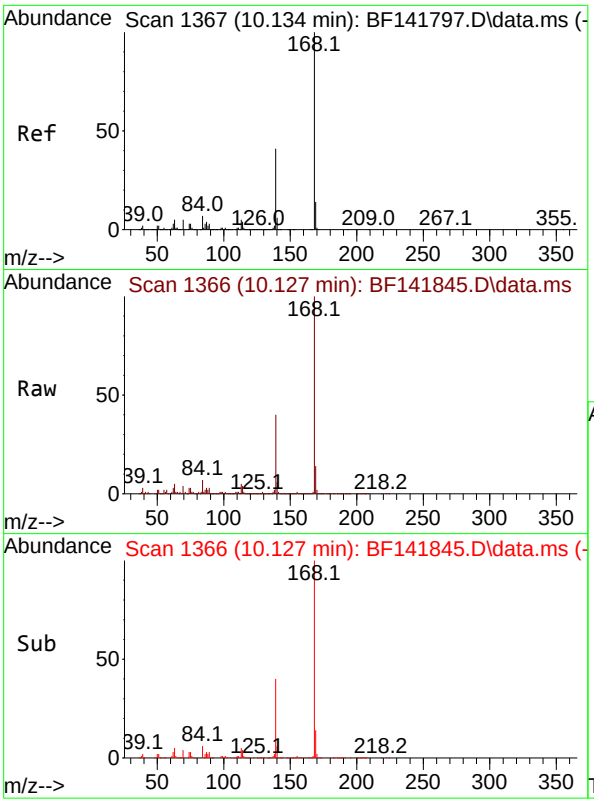



#54
2,4-Dinitrophenol
Concen: 73.318 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:184 Resp: 153518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 63 | 78.6 | 79.0 | 118.6# |
| 154 | 184.3 | 335.8 | 503.8# |

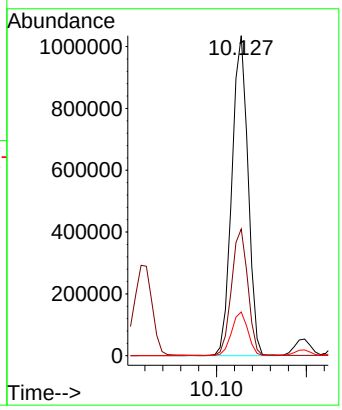





#55
Dibenzofuran
Concen: 42.456 ng
RT: 10.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:168 Resp: 128975

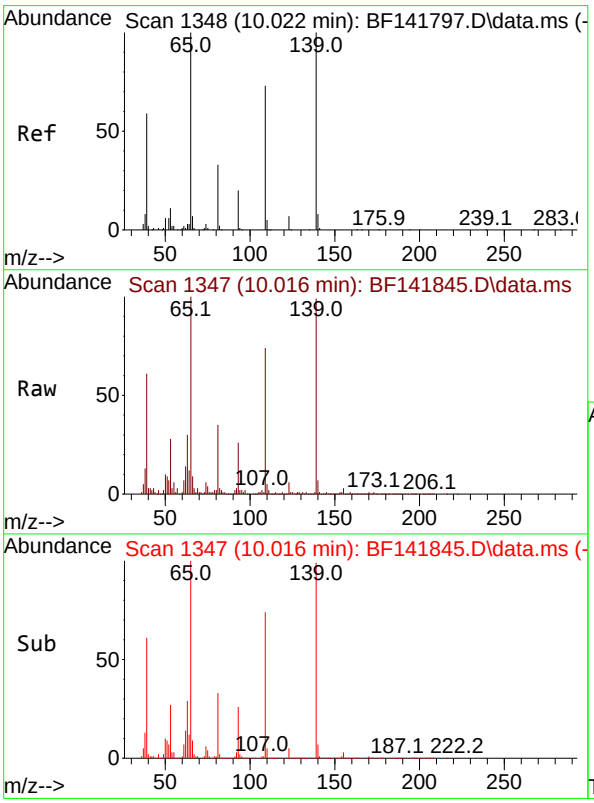
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 139 | 39.6 | 32.9 | 49.3 |
| 169 | 13.7 | 11.1 | 16.7 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

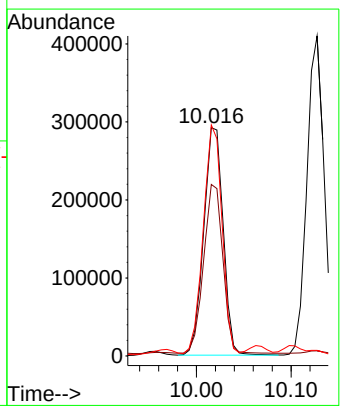
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

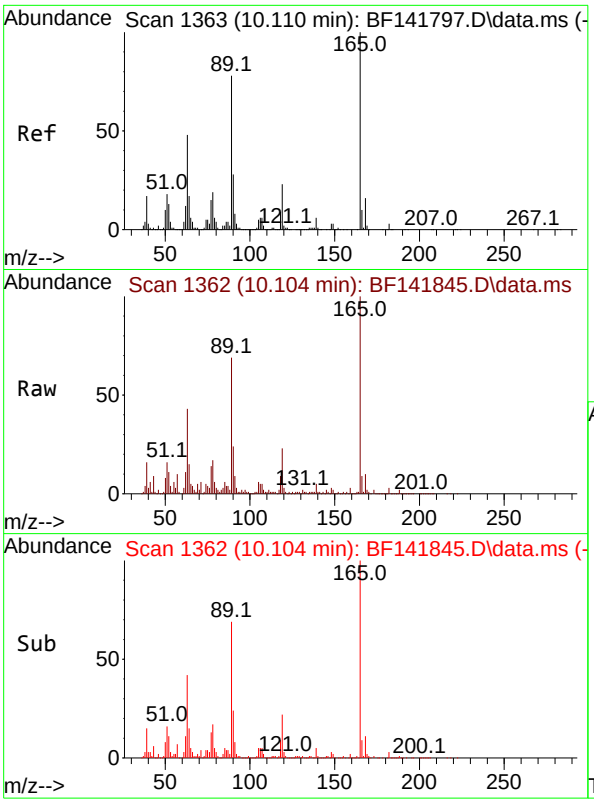



#56
4-Nitrophenol
Concen: 114.125 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:139 Resp: 414529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 139 | 100 | | |
| 109 | 75.1 | 53.4 | 93.4 |
| 65 | 101.2 | 82.1 | 122.1 |

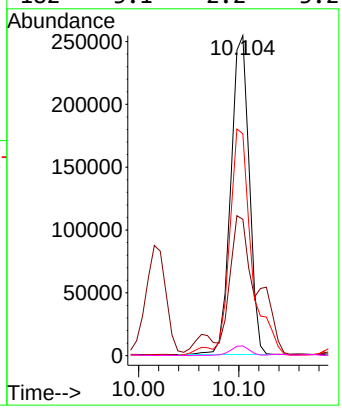





#57
2,4-Dinitrotoluene
Concen: 55.621 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:165 Resp: 32309

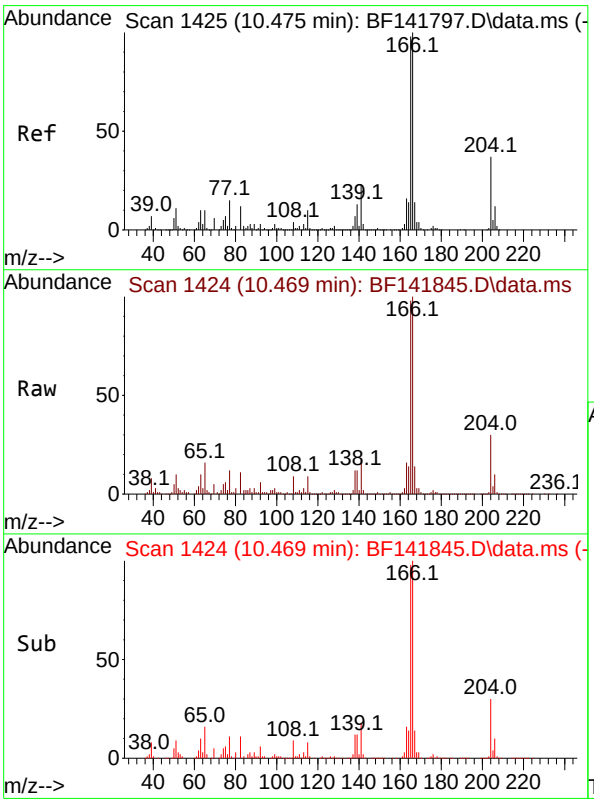
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 165 | 100 | | |
| 63 | 42.6 | 38.8 | 58.2 |
| 89 | 69.4 | 62.6 | 94.0 |
| 182 | 3.1 | 2.2 | 3.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

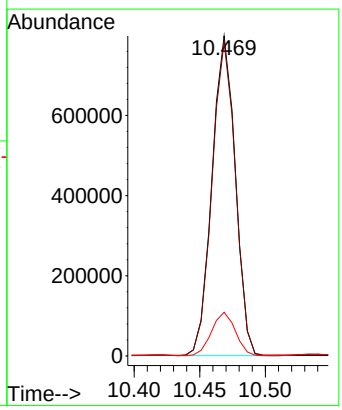
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

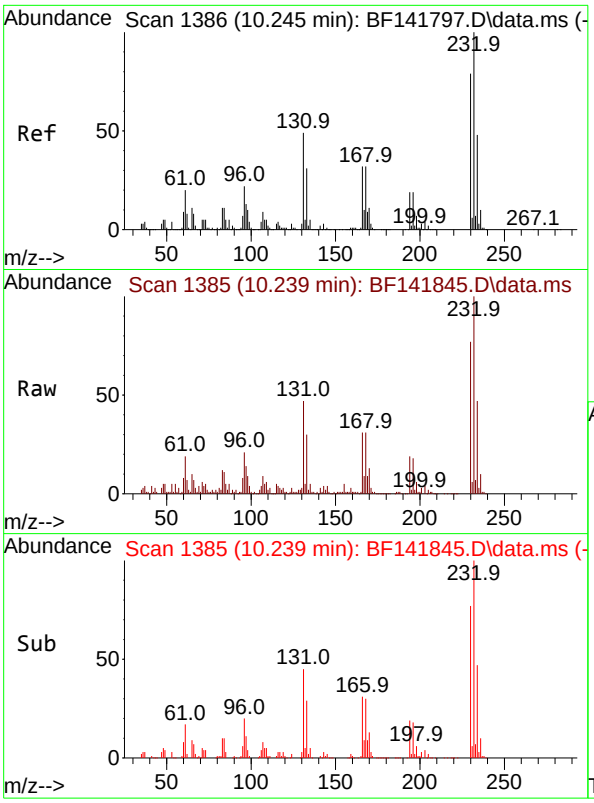



#58
Fluorene
Concen: 43.363 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:166 Resp: 986733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 165 | 98.1 | 78.6 | 117.8 |
| 167 | 13.6 | 11.0 | 16.4 |

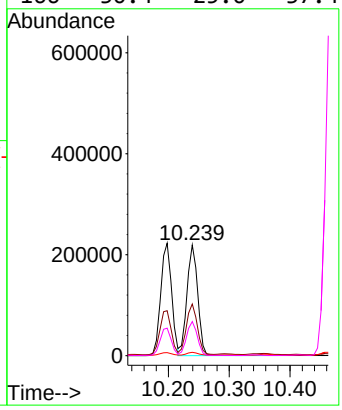





#59
2,3,4,6-Tetrachlorophenol
Concen: 45.723 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:232 Resp: 26977

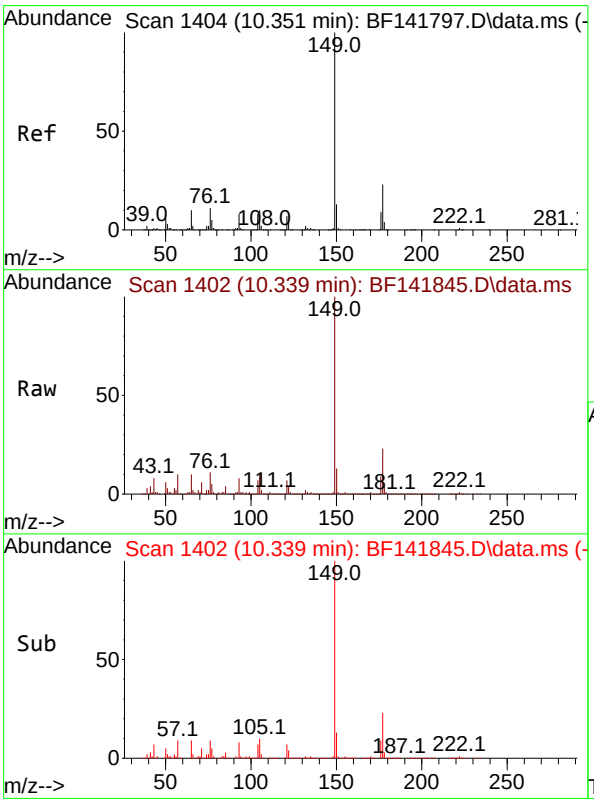
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 232 | 100 | | |
| 131 | 45.8 | 37.8 | 56.8 |
| 130 | 2.8 | 2.0 | 3.0 |
| 166 | 30.4 | 25.0 | 37.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

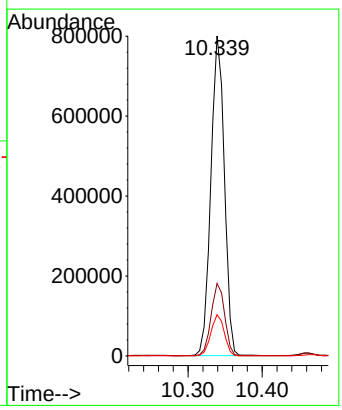
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

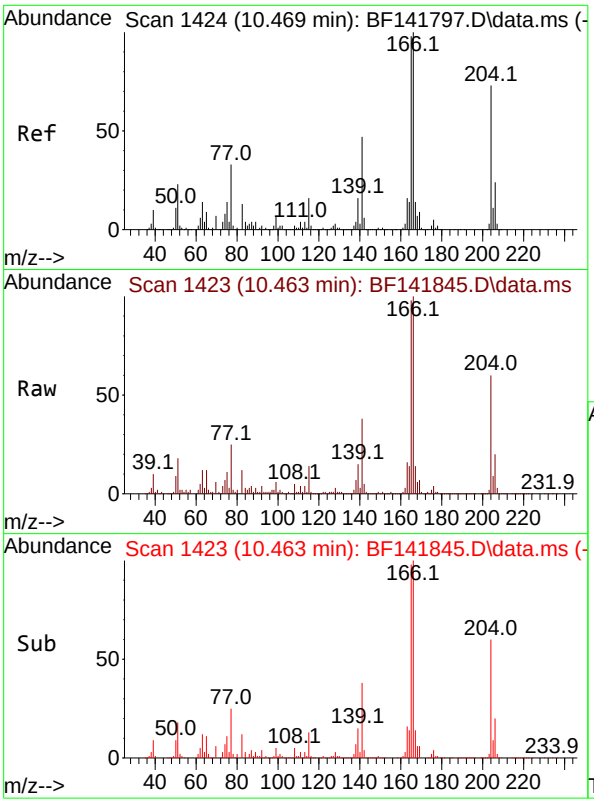



#60
Diethylphthalate
Concen: 40.990 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 1010574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 177 | 22.6 | 18.3 | 27.5 |
| 150 | 12.9 | 10.3 | 15.5 |






#61
4-Chlorophenyl-phenylether
Concen: 42.302 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

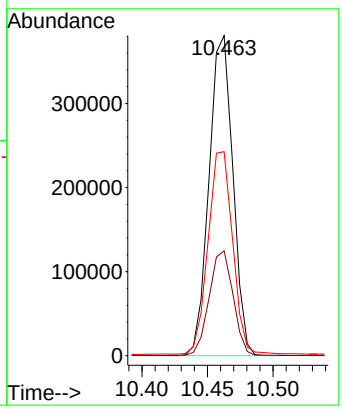
**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

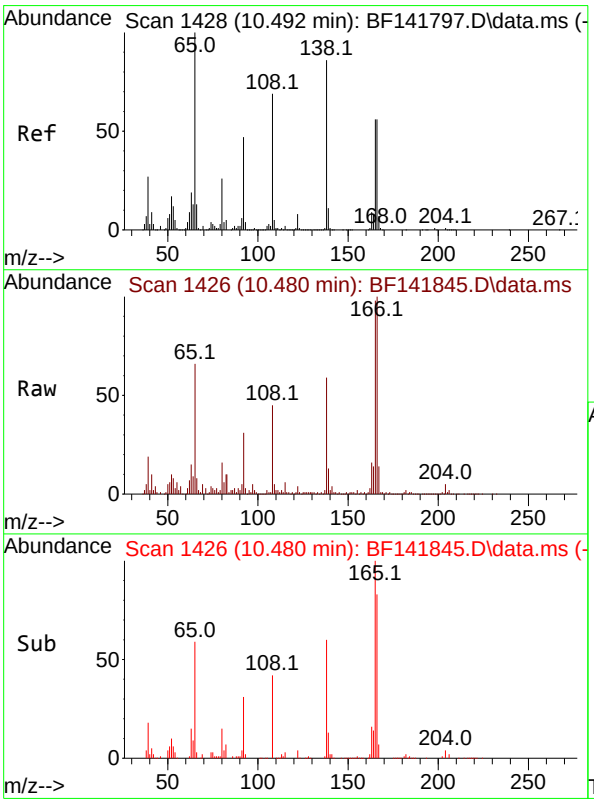
Tgt Ion:204 Resp: 48228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 204 | 100 | | |
| 206 | 32.7 | 26.2 | 39.4 |
| 141 | 63.7 | 51.7 | 77.5 |

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

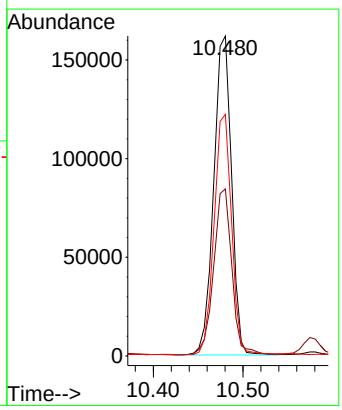


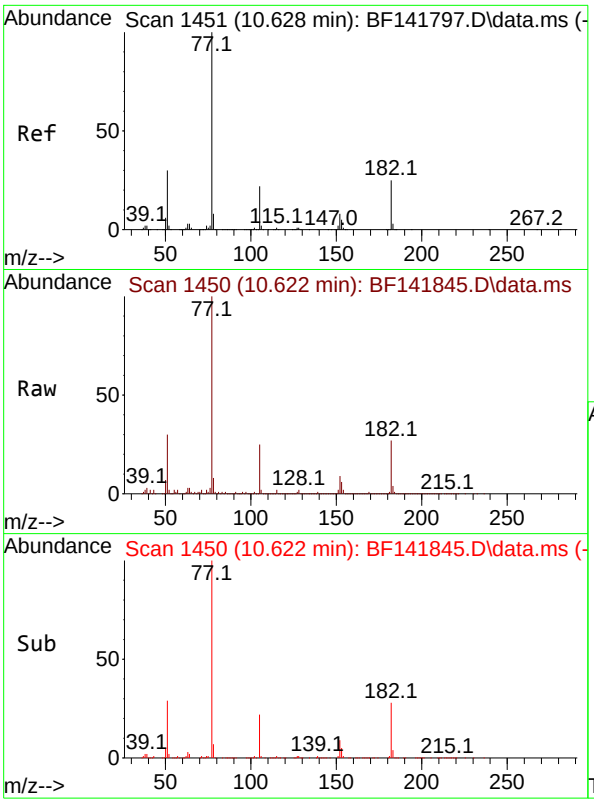




#62
4-Nitroaniline
Concen: 52.977 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:138 Resp: 222496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 138 | 100 | | |
| 92 | 52.2 | 34.9 | 74.9 |
| 108 | 75.5 | 59.6 | 99.6 |

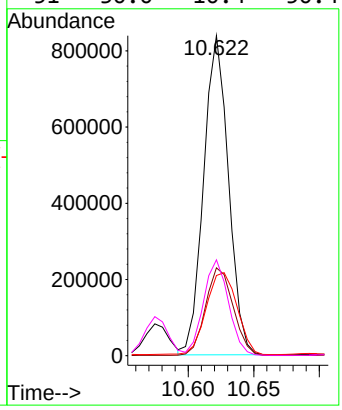





#63
Azobenzene
Concen: 42.529 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 77 Resp: 110399

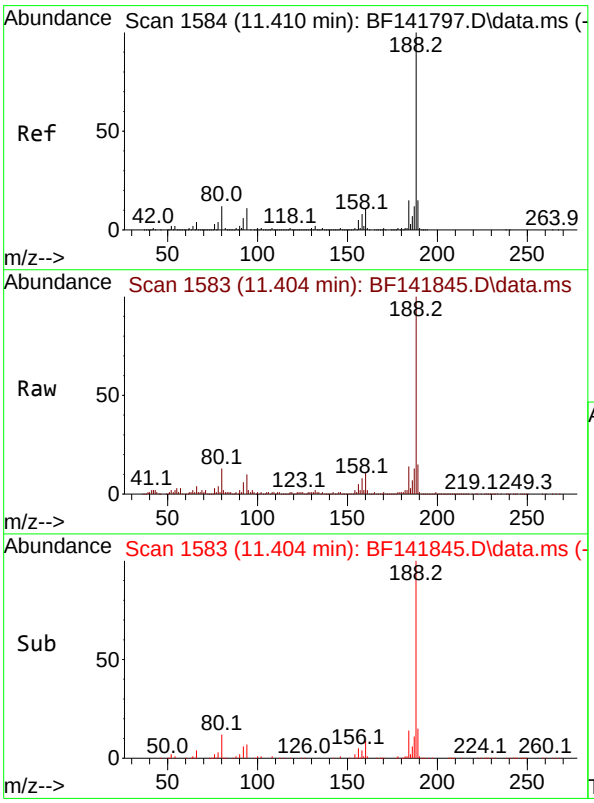
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 182 | 27.5 | 4.2 | 44.2 |
| 105 | 25.1 | 1.5 | 41.5 |
| 51 | 30.0 | 10.4 | 50.4 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

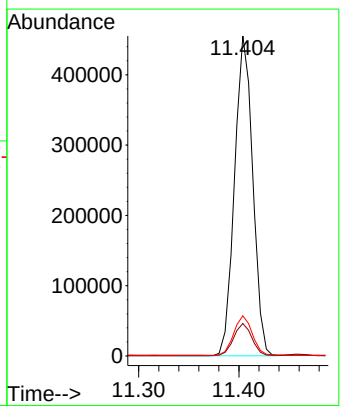
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

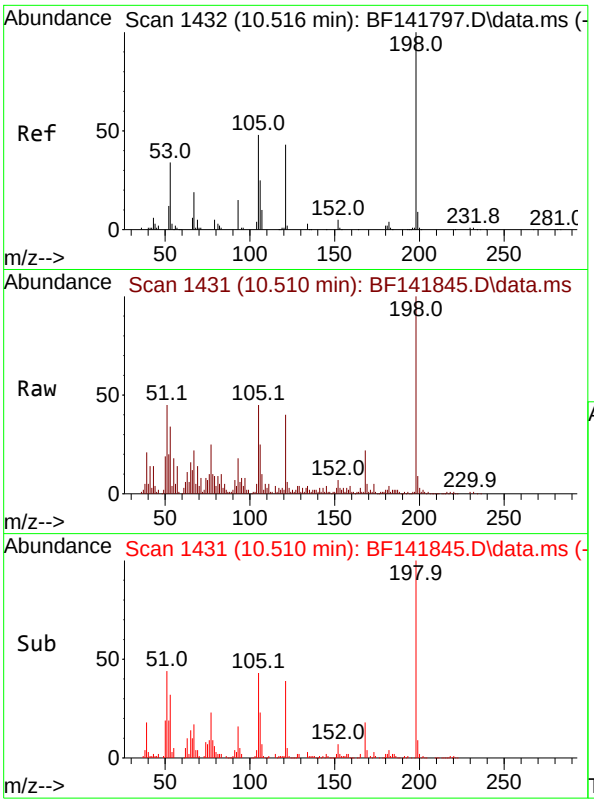



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:188 Resp: 575333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 188 | 100 | | |
| 94 | 10.1 | 8.9 | 13.3 |
| 80 | 12.5 | 9.7 | 14.5 |

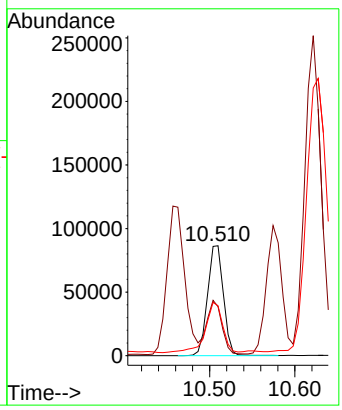





#65
4,6-Dinitro-2-methylphenol
Concen: 42.552 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:198 Resp: 11227

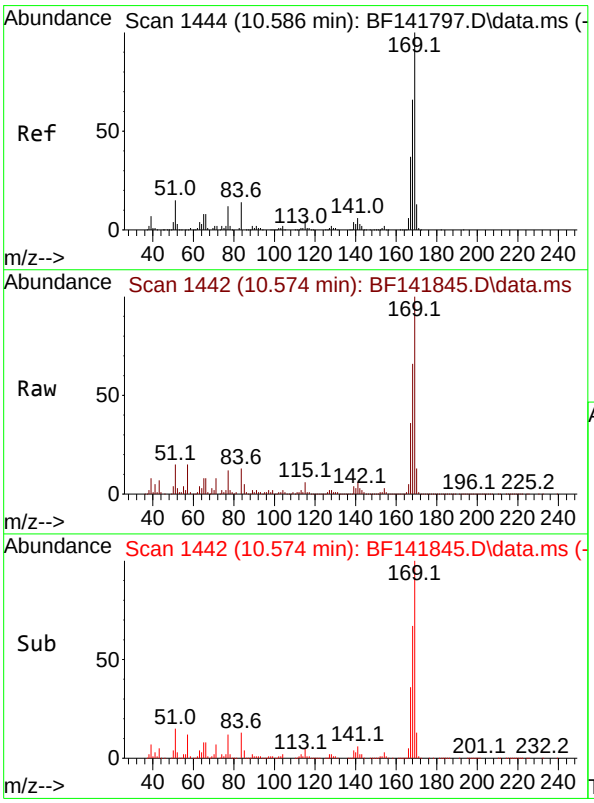
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 198 | 100 | | |
| 51 | 44.5 | 32.1 | 72.1 |
| 105 | 45.4 | 28.5 | 68.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

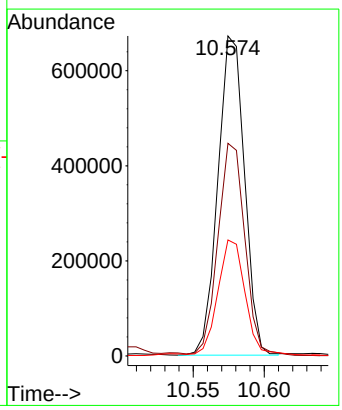
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

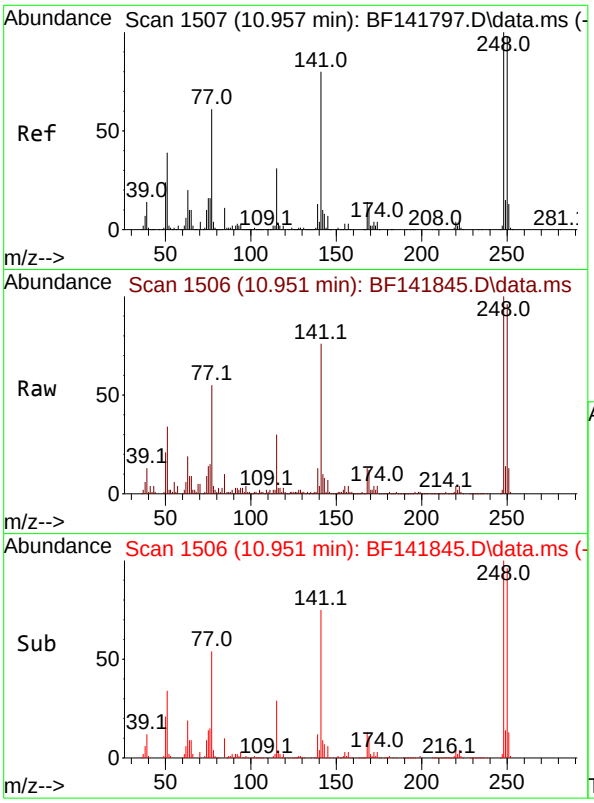



#66
n-Nitrosodiphenylamine
Concen: 46.279 ng
RT: 10.574 min Scan# 1442
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:169 Resp: 874306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 169 | 100 | | |
| 168 | 66.5 | 53.0 | 79.6 |
| 167 | 36.3 | 29.3 | 43.9 |






#67
4-Bromophenyl-phenylether
Concen: 44.548 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

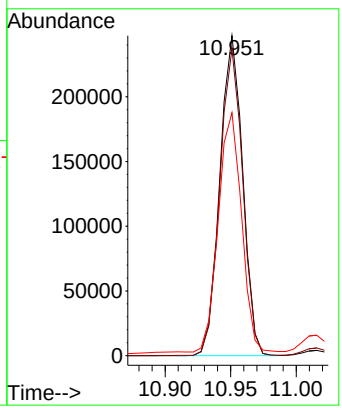
Tgt Ion:248 Resp: 29936

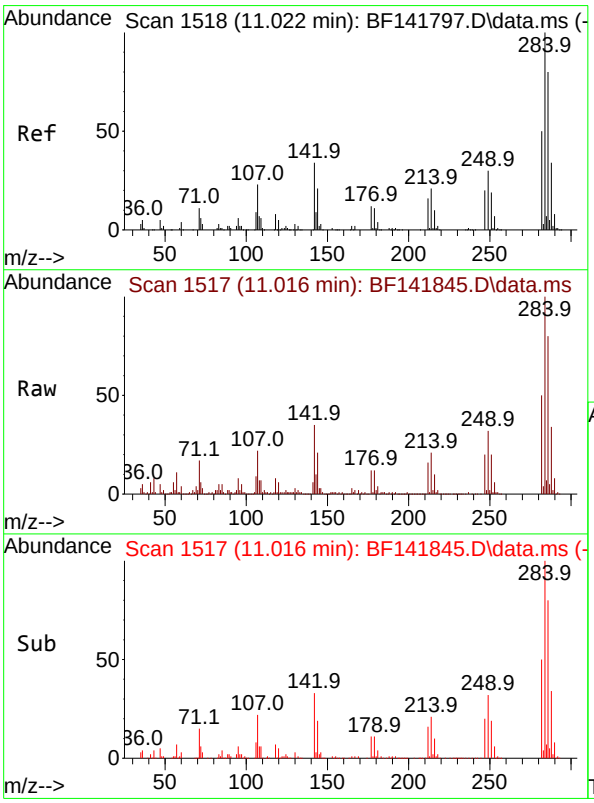
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 248 | 100 | | |
| 250 | 95.9 | 78.1 | 117.1 |
| 141 | 76.0 | 64.3 | 96.5 |

**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

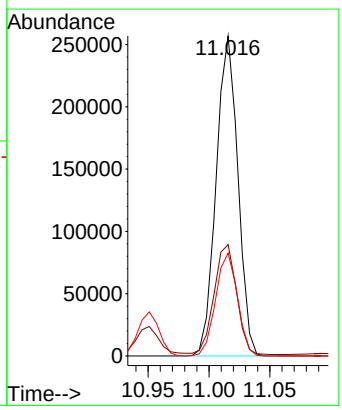


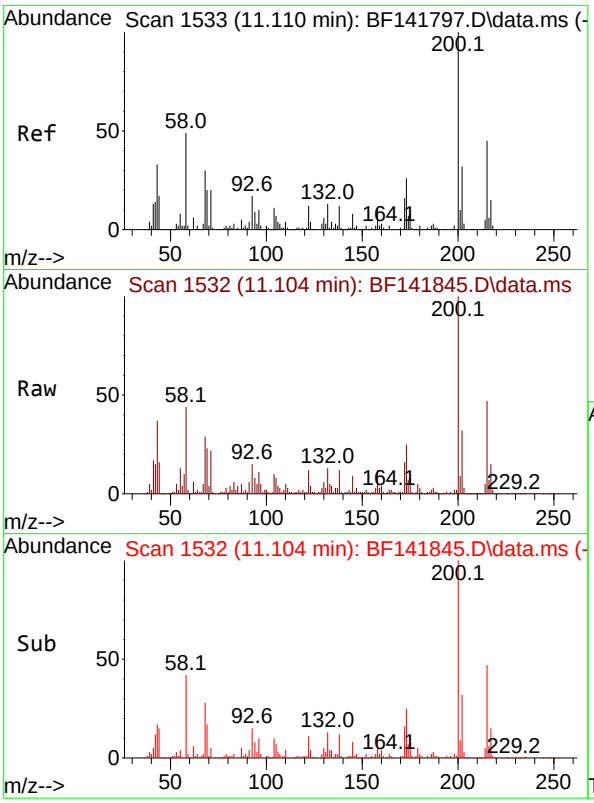




#68
Hexachlorobenzene
Concen: 44.897 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:284 Resp: 318600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 284 | 100 | | |
| 142 | 34.8 | 28.2 | 42.2 |
| 249 | 32.1 | 25.5 | 38.3 |

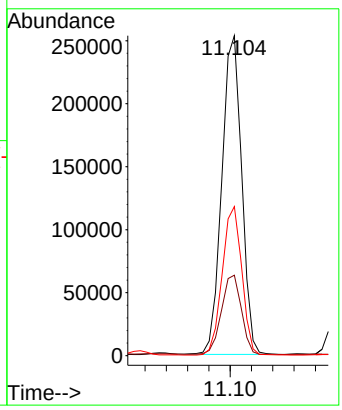





#69
Atrazine
Concen: 63.055 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:200 Resp: 32758

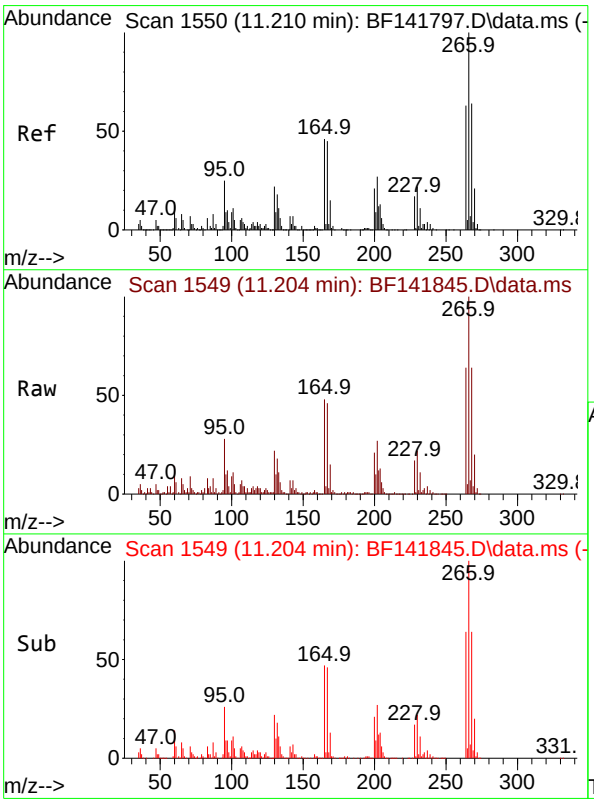
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 200 | 100 | | |
| 173 | 25.1 | 5.6 | 45.6 |
| 215 | 46.6 | 25.3 | 65.3 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

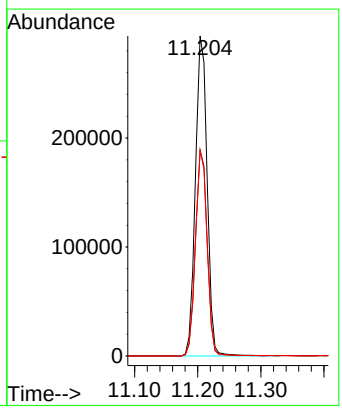
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

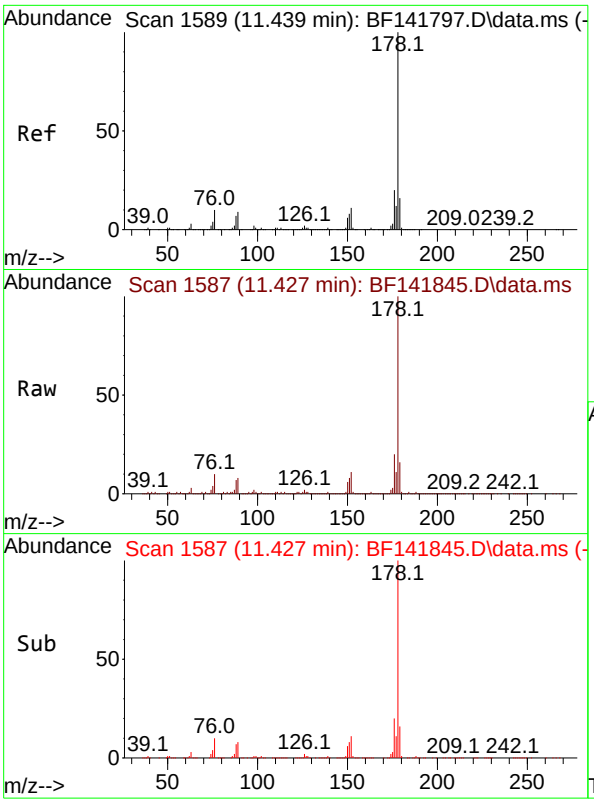



#70
Pentachlorophenol
Concen: 84.186 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:266 Resp: 378895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 266 | 100 | | |
| 268 | 64.4 | 50.9 | 76.3 |
| 264 | 64.0 | 50.2 | 75.4 |

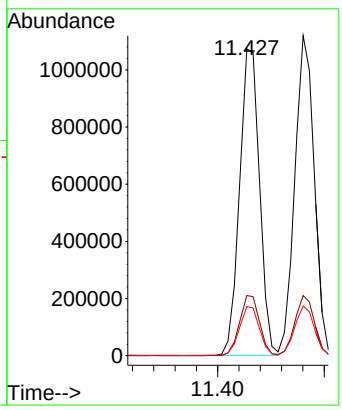





#71
Phenanthrene
Concen: 45.538 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:178 Resp: 140140

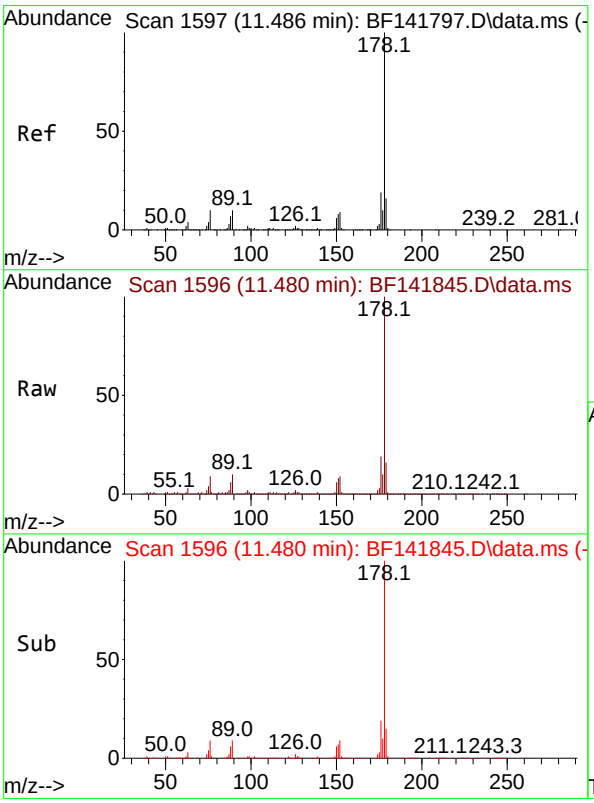
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 19.6 | 16.0 | 24.0 |
| 179 | 16.0 | 12.6 | 19.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

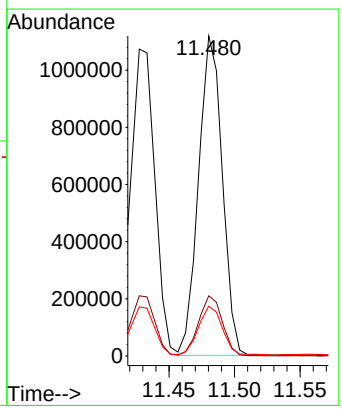
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

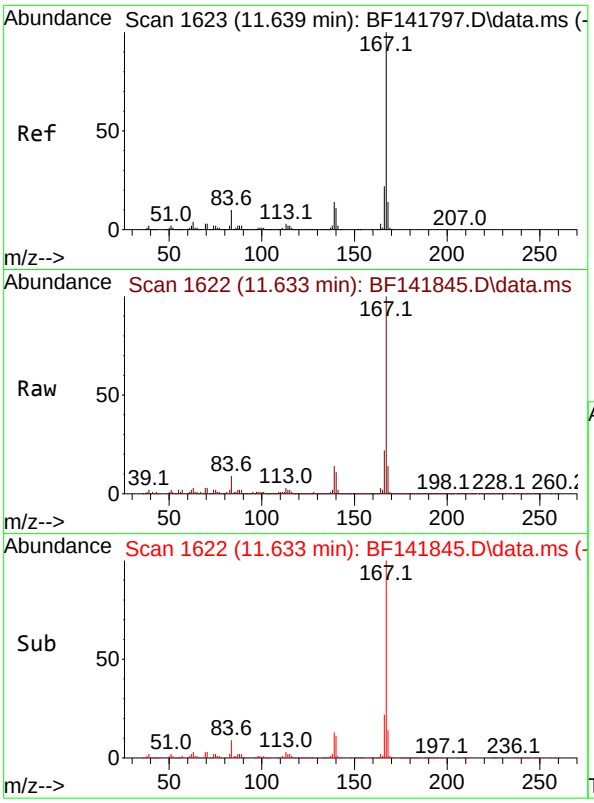



#72
Anthracene
Concen: 45.722 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:178 Resp: 1410204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 178 | 100 | | |
| 176 | 18.8 | 15.4 | 23.0 |
| 179 | 15.6 | 12.8 | 19.2 |

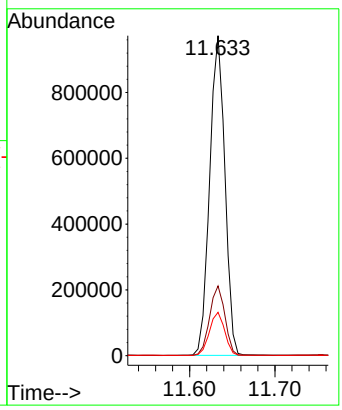





#73
Carbazole
Concen: 44.327 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:167 Resp: 120733

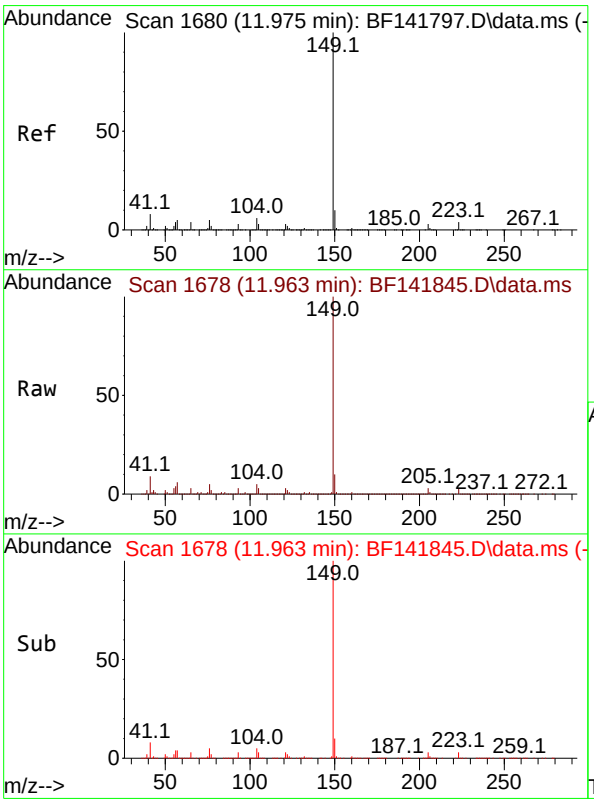
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 167 | 100 | | |
| 166 | 21.8 | 17.5 | 26.3 |
| 139 | 13.5 | 11.3 | 16.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

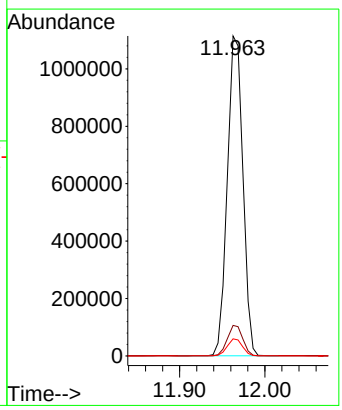
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

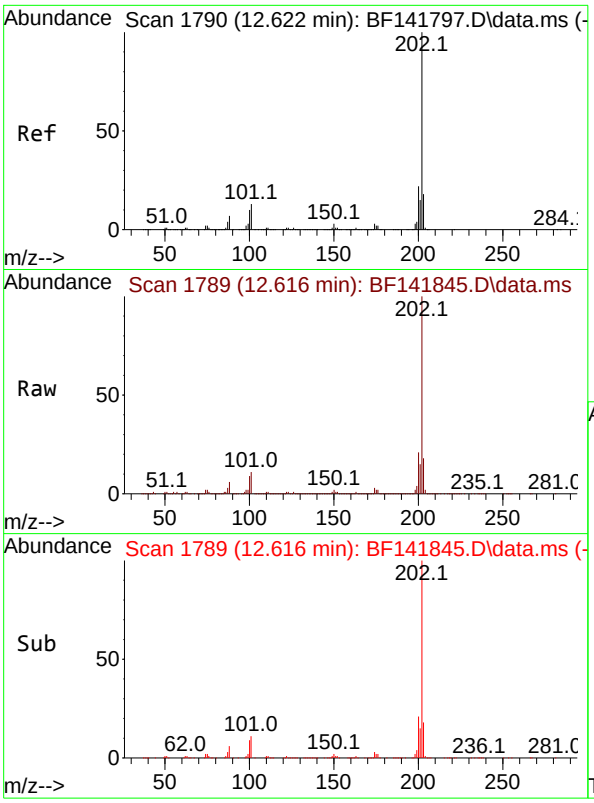



#74
Di-n-butylphthalate
Concen: 40.999 ng
RT: 11.963 min Scan# 1678
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 1415465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 150 | 9.5 | 7.7 | 11.5 |
| 104 | 5.4 | 4.4 | 6.6 |

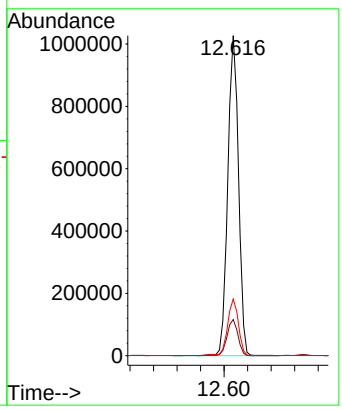





#75
Fluoranthene
Concen: 41.129 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:202 Resp: 129694

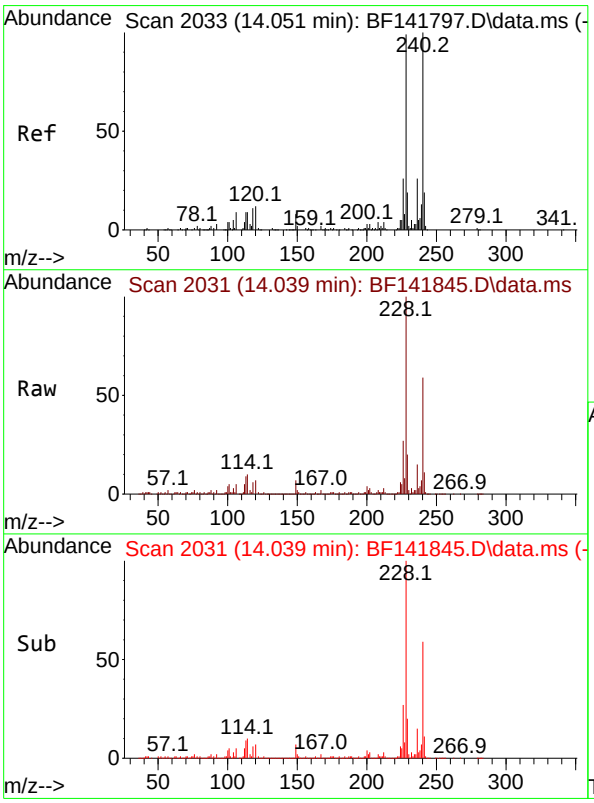
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 101 | 11.3 | 0.0 | 32.8 |
| 203 | 17.7 | 0.0 | 38.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

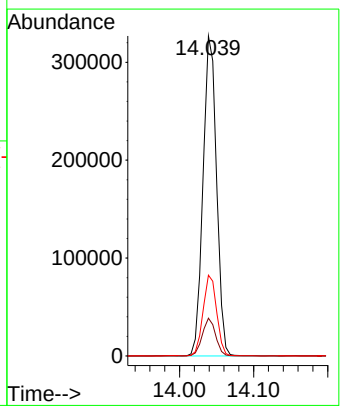
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

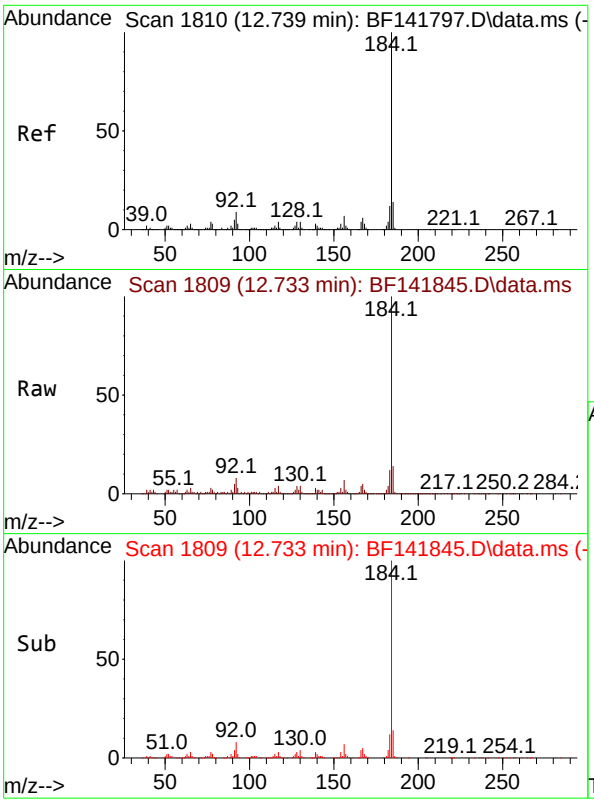



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:240 Resp: 414755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 240 | 100 | | |
| 120 | 11.8 | 9.7 | 14.5 |
| 236 | 25.3 | 21.0 | 31.4 |

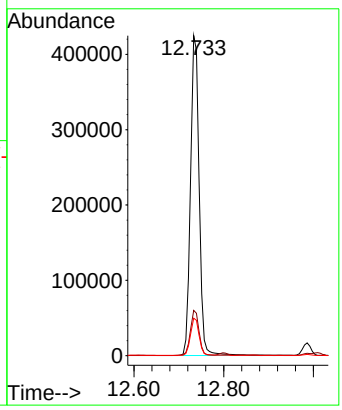





#77
Benzidine
Concen: 108.795 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:184 Resp: 56794

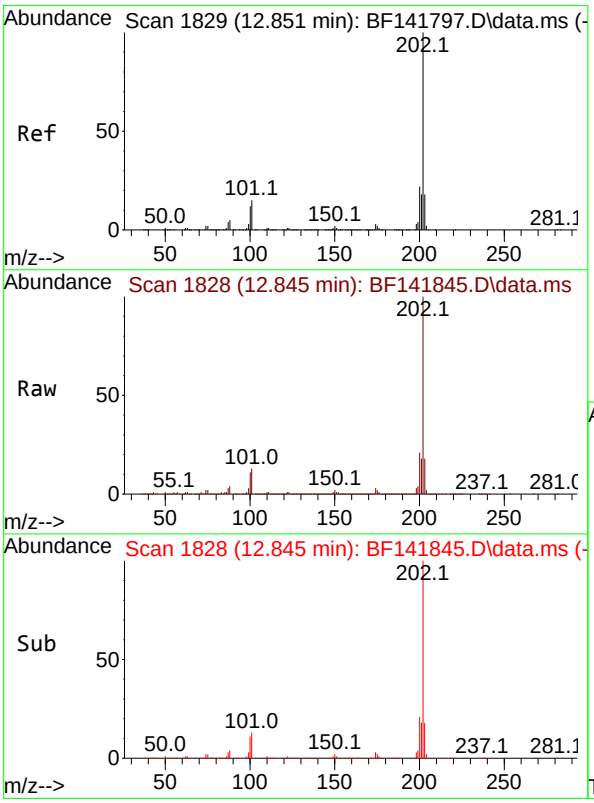
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 184 | 100 | | |
| 185 | 14.1 | 11.6 | 17.4 |
| 183 | 11.7 | 9.4 | 14.0 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

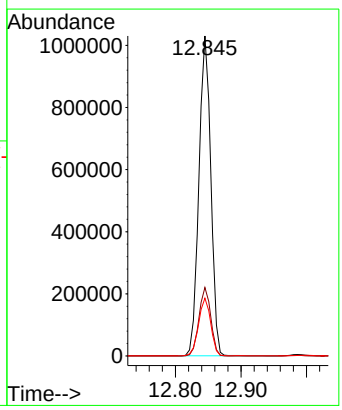
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

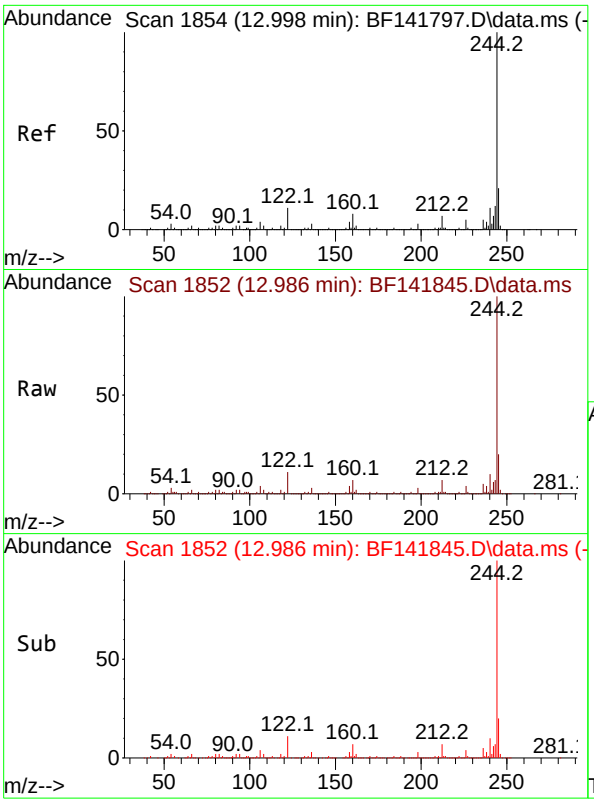



#78
Pyrene
Concen: 36.274 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:202 Resp: 1302790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 202 | 100 | | |
| 200 | 21.4 | 17.4 | 26.0 |
| 203 | 18.1 | 14.6 | 22.0 |

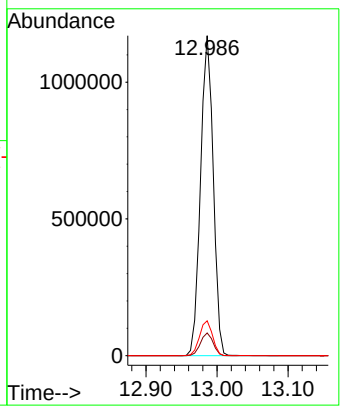





#79
Terphenyl-d14
Concen: 56.946 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:244 Resp: 145980

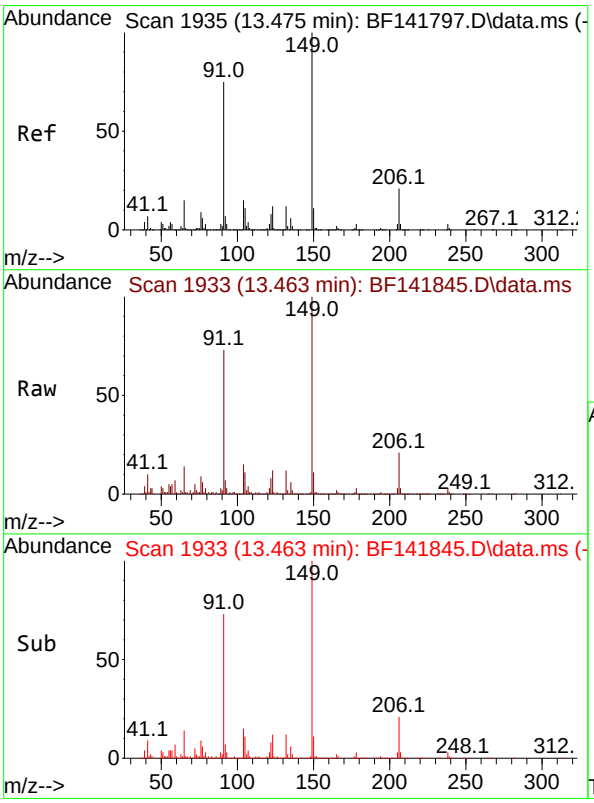
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 244 | 100 | | |
| 212 | 7.1 | 6.0 | 9.0 |
| 122 | 10.9 | 9.0 | 13.6 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

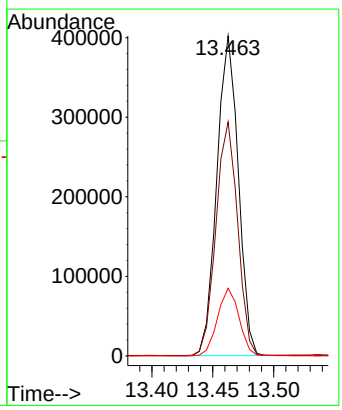
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

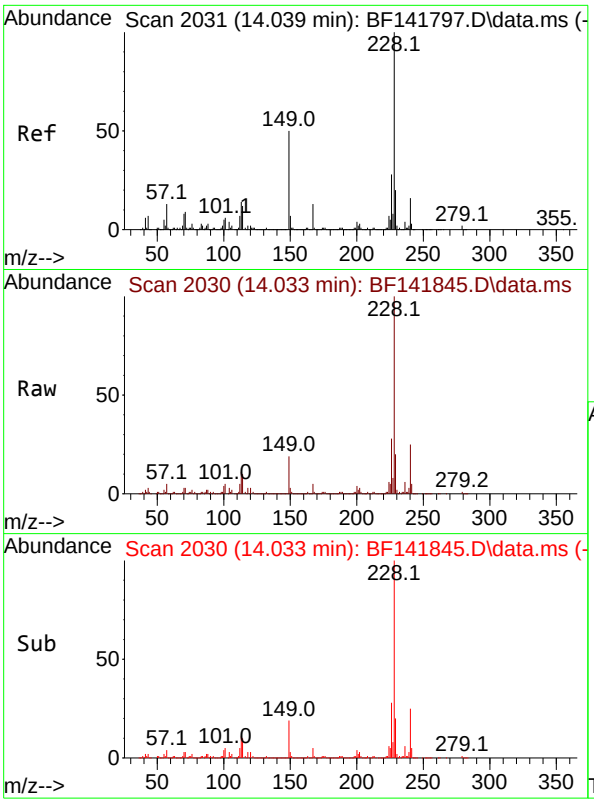



#80
Butylbenzylphthalate
Concen: 37.820 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 493506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 91 | 73.1 | 60.1 | 90.1 |
| 206 | 21.1 | 16.8 | 25.2 |

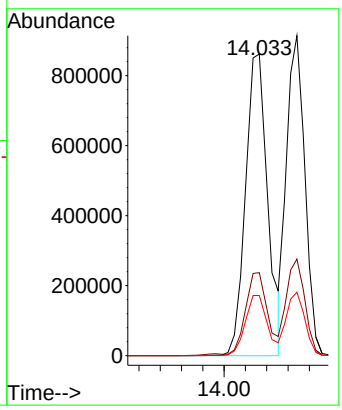





#81
Benzo(a)anthracene
Concen: 45.518 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:228 Resp: 124696

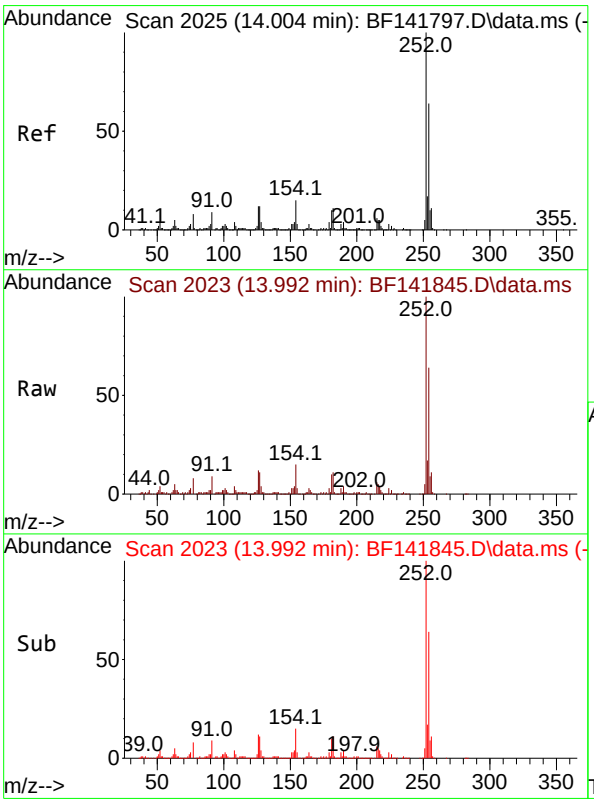
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 27.5 | 22.1 | 33.1 |
| 229 | 19.9 | 16.1 | 24.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

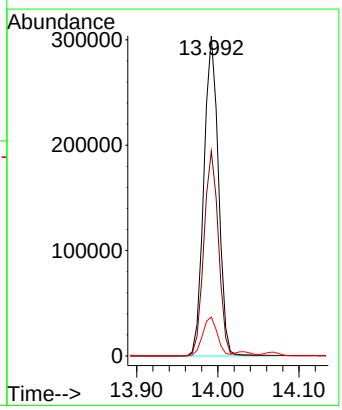
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

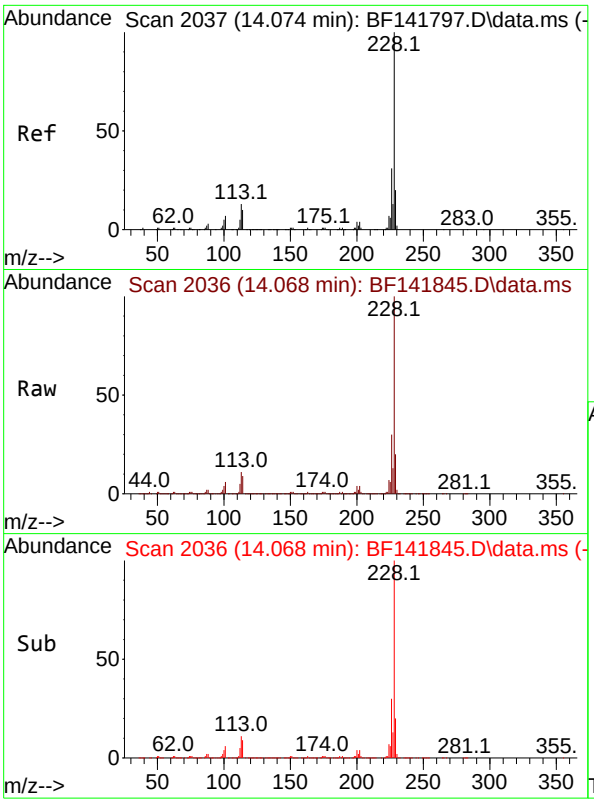



#82
3,3'-Dichlorobenzidine
Concen: 48.093 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:252 Resp: 378006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 254 | 64.0 | 51.4 | 77.0 |
| 126 | 12.1 | 9.8 | 14.6 |

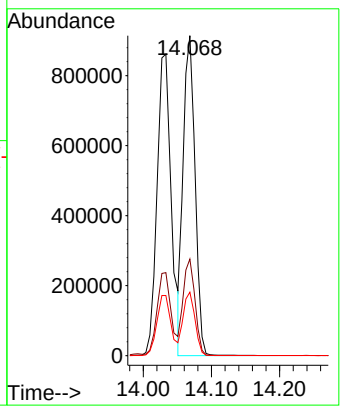





#83
Chrysene
Concen: 43.694 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:228 Resp: 110343

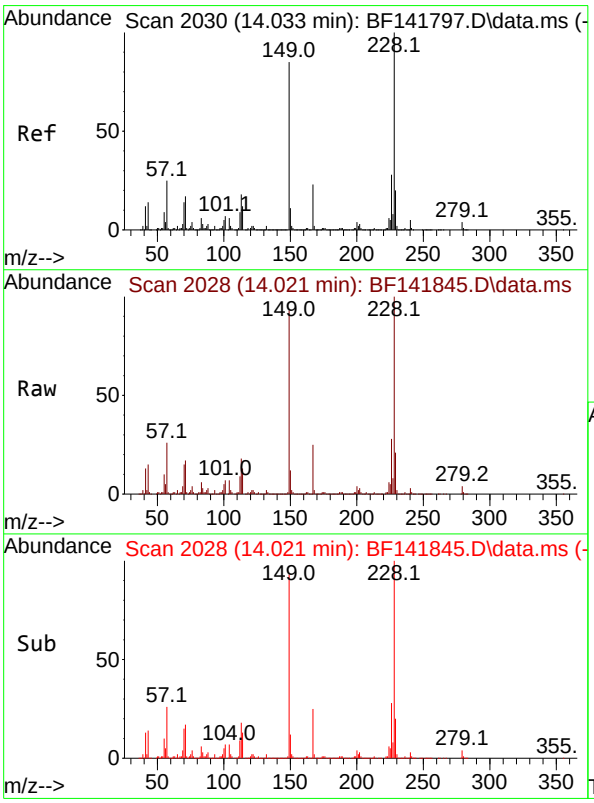
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 228 | 100 | | |
| 226 | 30.2 | 24.6 | 37.0 |
| 229 | 19.9 | 16.1 | 24.1 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

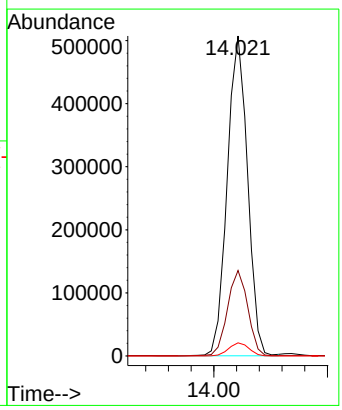
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

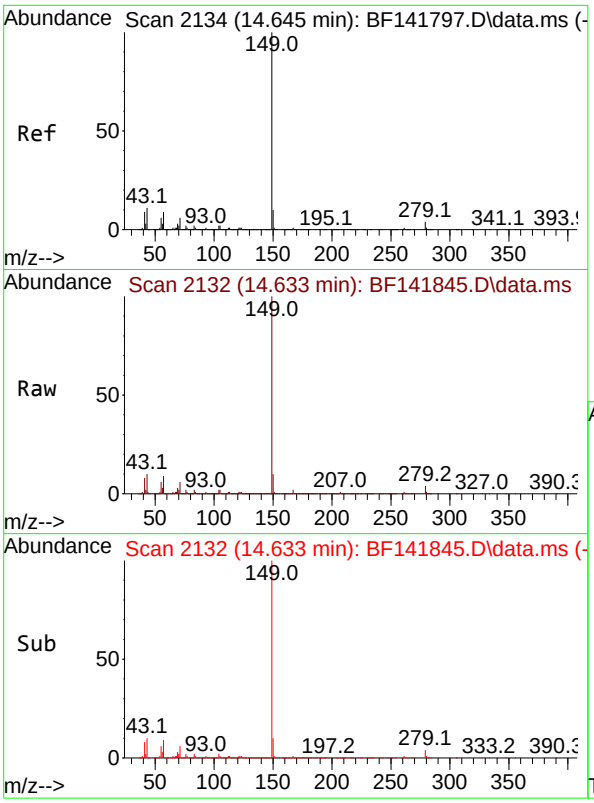



#84
Bis(2-ethylhexyl)phthalate
Concen: 38.698 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 628755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 26.7 | 21.2 | 31.8 |
| 279 | 4.1 | 3.3 | 4.9 |

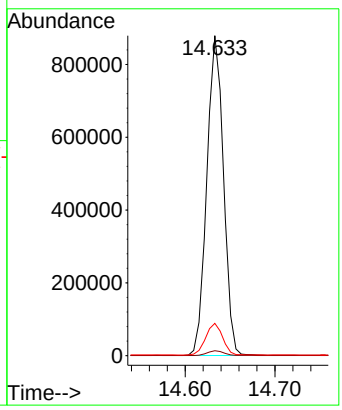





#85
Di-n-octyl phthalate
Concen: 46.687 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 113565

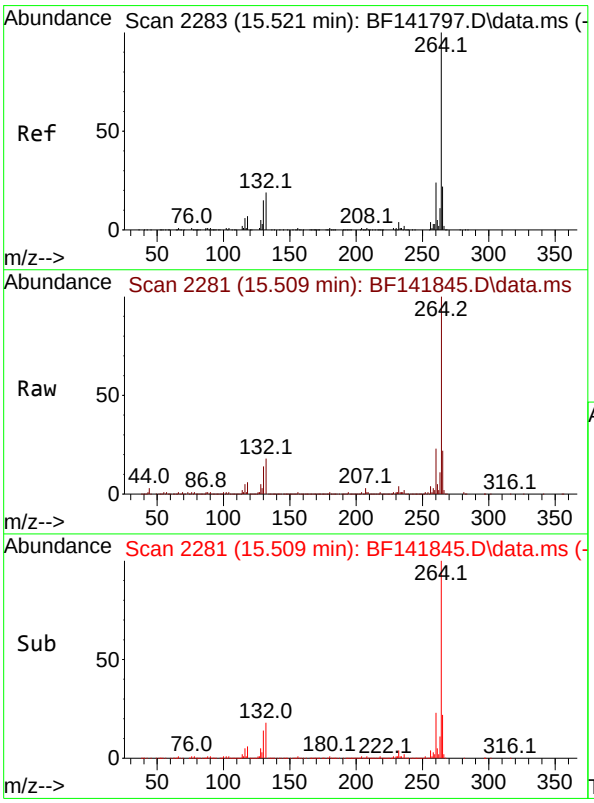
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 149 | 100 | | |
| 167 | 1.6 | 1.2 | 1.8 |
| 43 | 9.9 | 8.6 | 12.8 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

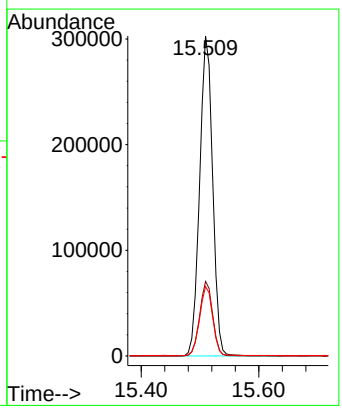
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

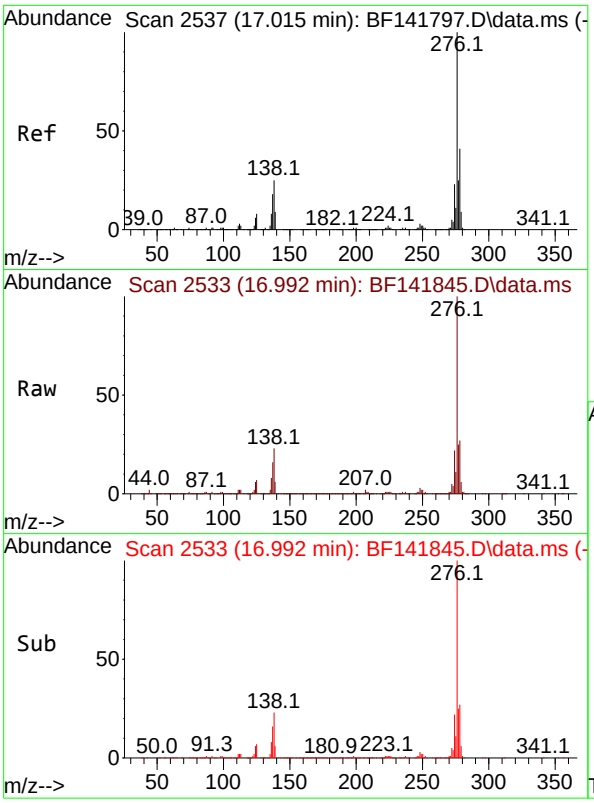



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:264 Resp: 465047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 264 | 100 | | |
| 260 | 23.3 | 18.9 | 28.3 |
| 265 | 21.7 | 17.4 | 26.0 |

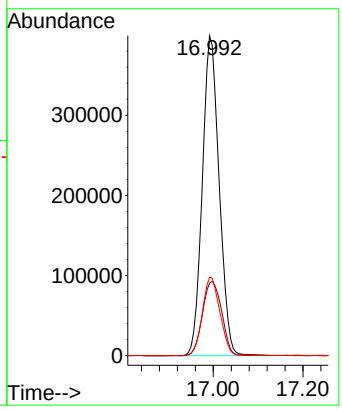





#87
Indeno(1,2,3-cd)pyrene
Concen: 35.115 ng
RT: 16.992 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:276 Resp: 103986

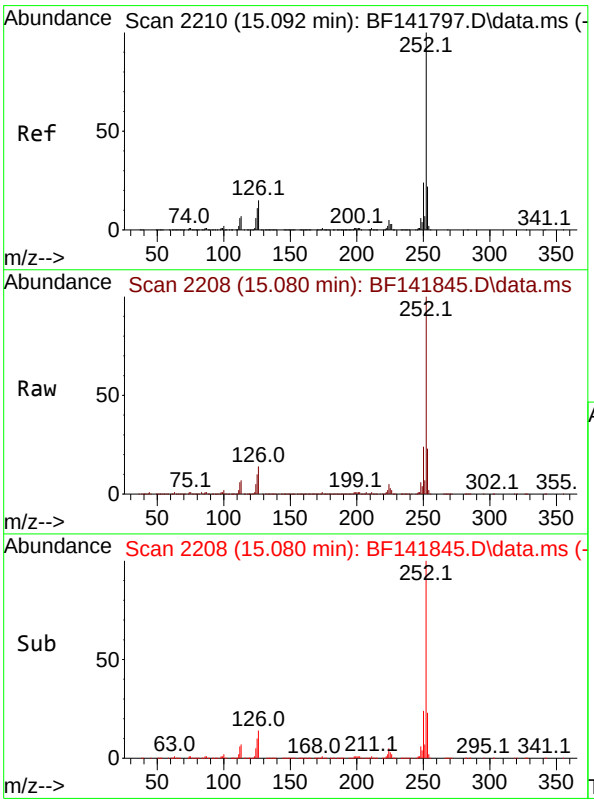
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 138 | 26.6 | 22.5 | 33.7 |
| 277 | 25.5 | 20.3 | 30.5 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

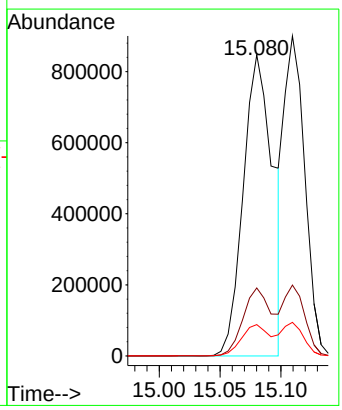
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

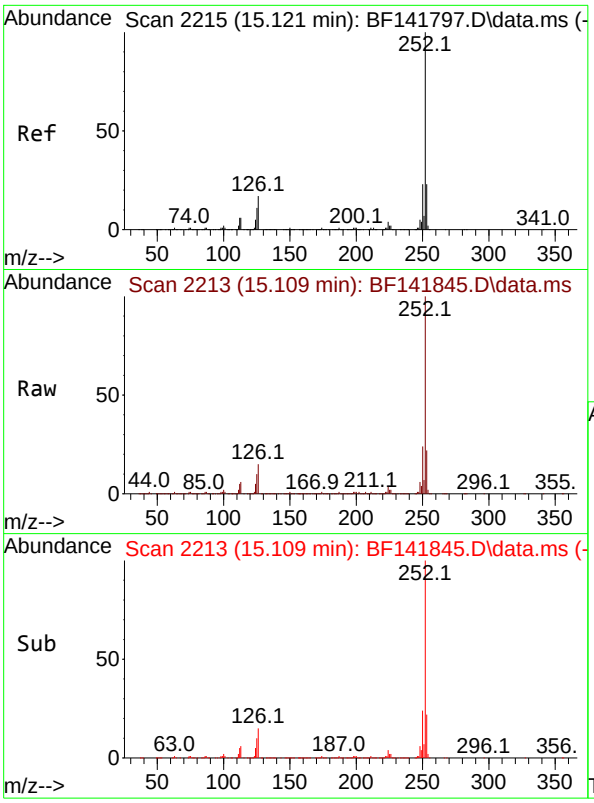



#88
Benzo(b)fluoranthene
Concen: 45.239 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:252 Resp: 1433060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.6 | 17.7 | 26.5 |
| 125 | 10.4 | 8.6 | 13.0 |

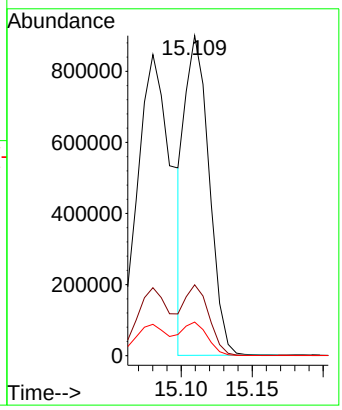





#89
Benzo(k)fluoranthene
Concen: 39.488 ng
RT: 15.109 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:252 Resp: 106320

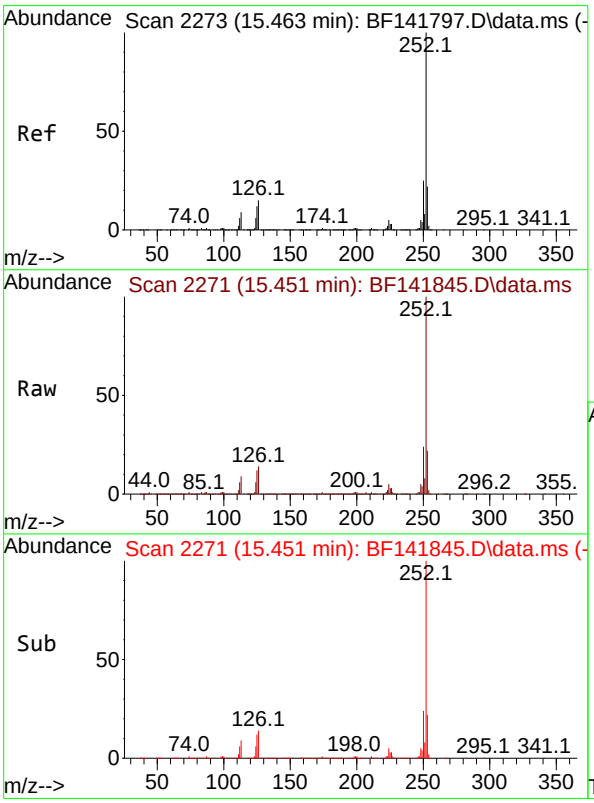
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.2 | 17.8 | 26.8 |
| 125 | 10.5 | 8.8 | 13.2 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

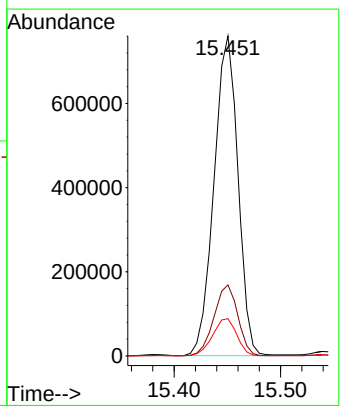
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

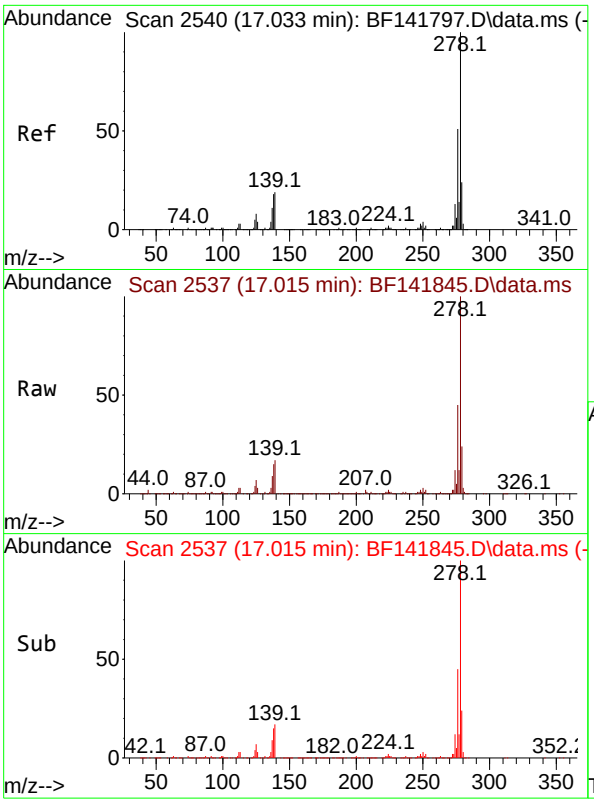



#90
Benzo(a)pyrene
Concen: 46.684 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:252 Resp: 1186012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 252 | 100 | | |
| 253 | 22.2 | 17.5 | 26.3 |
| 125 | 11.6 | 9.4 | 14.2 |

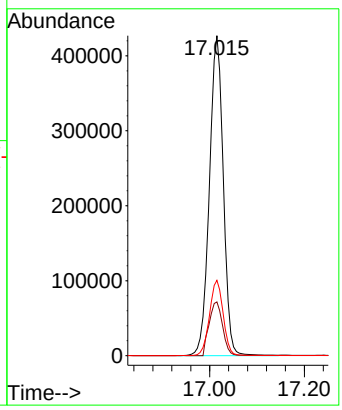





#91
Dibenzo(a,h)anthracene
Concen: 36.044 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:278 Resp: 87124

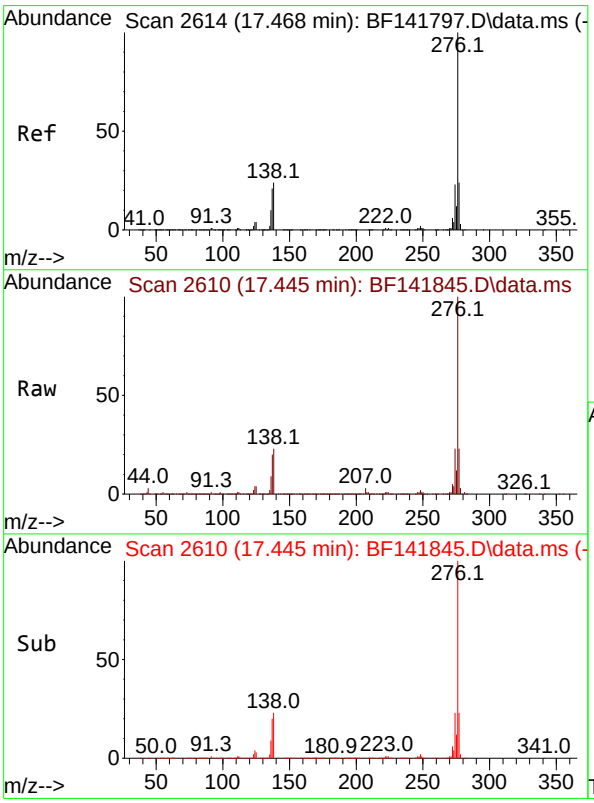
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 278 | 100 | | |
| 139 | 16.8 | 14.9 | 22.3 |
| 279 | 23.6 | 19.3 | 28.9 |




**Instrument :**
BNA_F
**ClientSampleId :**
DN-B-42MSD

**Manual Integrations**
**APPROVED**

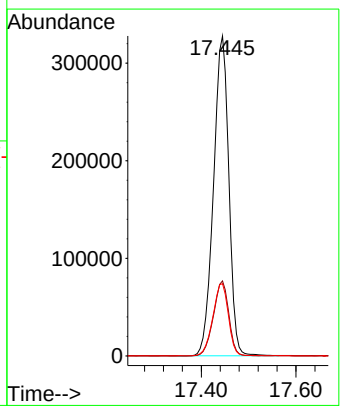
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025




#92
Benzo(g,h,i)perylene
Concen: 29.696 ng
RT: 17.445 min Scan# 2610
Delta R.T. -0.024 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:276 Resp: 735371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 276 | 100 | | |
| 277 | 23.4 | 19.4 | 29.0 |
| 138 | 22.6 | 19.3 | 28.9 |



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# Manual Integration Report

| Sequence: | BF022725 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| SSTDICC005 | BF141794.D | Aniline | yogesh | 2/28/2025 7:30:31 AM | mohammad | 2/28/2025 7:32:51 AM | Peak Integrated by Software |
| SSTDICC005 | BF141794.D | Phenol | yogesh | 2/28/2025 7:30:31 AM | mohammad | 2/28/2025 7:32:51 AM | Peak Integrated by Software |
| SSTDICC010 | BF141795.D | Phenol | yogesh | 2/28/2025 7:30:34 AM | mohammad | 2/28/2025 7:32:51 AM | Peak Integrated by Software |
| SSTDICC020 | BF141796.D | Phenol | yogesh | 2/28/2025 7:30:37 AM | mohammad | 2/28/2025 7:32:51 AM | Peak Integrated by Software |
| SSTDICCC040 | BF141797.D | Caprolactam | yogesh | 2/28/2025 7:30:40 AM | mohammad | 2/28/2025 7:32:51 AM | Peak Integrated by Software |
| SSTDICC080 | BF141800.D | Aniline | yogesh | 2/28/2025 7:30:43 AM | mohammad | 2/28/2025 7:32:51 AM | Peak Integrated by Software |
| SSTDICC080 | BF141800.D | Phenol | yogesh | 2/28/2025 7:30:43 AM | mohammad | 2/28/2025 7:32:51 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | BF030525 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q1487-01MS | BF141844.D | 2,3,4,6-Tetrachlorophenol | anahy | 3/6/2025 9:40:25 AM | Jagrut | 3/6/2025 5:47:30 PM | Peak Integrated by Software |
| Q1487-01MS | BF141844.D | Benzoic acid | anahy | 3/6/2025 9:40:25 AM | Jagrut | 3/6/2025 5:47:30 PM | Peak Integrated by Software |
| Q1487-01MSD | BF141845.D | Benzoic acid | anahy | 3/6/2025 9:41:20 AM | Jagrut | 3/6/2025 5:47:33 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | bf030625 | Instrument | BNA_f |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF022725

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 2/28/2025 7:30:58 AM | | |
| Supervise By | mohammad | Supervise On | 2/28/2025 7:32:51 AM | | |
| SubDirectory | BF022725 | HP Acquire Method | BNA_F | HP Processing Method | bf022725 |

| 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 | BF141792.D | 27 Feb 2025 14:47 | RC/JU | Ok |
| 2 | SSTDICC2.5 | BF141793.D | 27 Feb 2025 15:17 | RC/JU | Ok |
| 3 | SSTDICC005 | BF141794.D | 27 Feb 2025 15:46 | RC/JU | Ok,M |
| 4 | SSTDICC010 | BF141795.D | 27 Feb 2025 16:16 | RC/JU | Ok,M |
| 5 | SSTDICC020 | BF141796.D | 27 Feb 2025 16:46 | RC/JU | Ok,M |
| 6 | SSTDICCC040 | BF141797.D | 27 Feb 2025 17:16 | RC/JU | Ok,M |
| 7 | SSTDICC050 | BF141798.D | 27 Feb 2025 17:46 | RC/JU | Ok |
| 8 | SSTDICC060 | BF141799.D | 27 Feb 2025 18:15 | RC/JU | Ok |
| 9 | SSTDICC080 | BF141800.D | 27 Feb 2025 18:45 | RC/JU | Ok,M |
| 10 | SSTDICV040 | BF141801.D | 27 Feb 2025 19:45 | RC/JU | Ok |
| 11 | PB166879TB | BF141802.D | 27 Feb 2025 20:44 | RC/JU | Ok |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF030525

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | anahy | Review On | 3/6/2025 9:48:03 AM | | | | |
| Supervise By | Jagrut | Supervise On | 3/6/2025 5:48:04 PM | | | | |
| SubDirectory | BF030525 | HP Acquire Method | BNA_F | | HP Processing Method | bf022725 | |

| 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 | BF141834.D | 05 Mar 2025 09:40 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF141835.D | 05 Mar 2025 10:09 | RC/JU | Ok |
| 3 | PB166970BL | BF141836.D | 05 Mar 2025 10:39 | RC/JU | Ok |
| 4 | PB166970BS | BF141837.D | 05 Mar 2025 11:09 | RC/JU | Ok,M |
| 5 | Q1480-17DL | BF141838.D | 05 Mar 2025 11:45 | RC/JU | Ok |
| 6 | Q1480-01DL | BF141839.D | 05 Mar 2025 12:15 | RC/JU | Ok,M |
| 7 | Q1489-13 | BF141840.D | 05 Mar 2025 13:24 | RC/JU | Ok |
| 8 | Q1488-11 | BF141841.D | 05 Mar 2025 13:53 | RC/JU | Ok |
| 9 | Q1488-05 | BF141842.D | 05 Mar 2025 14:23 | RC/JU | Ok |
| 10 | Q1488-09 | BF141843.D | 05 Mar 2025 14:52 | RC/JU | Ok,M |
| 11 | Q1487-01MS | BF141844.D | 05 Mar 2025 15:21 | RC/JU | Ok,M |
| 12 | Q1487-01MSD | BF141845.D | 05 Mar 2025 15:51 | RC/JU | Ok,M |
| 13 | Q1487-01 | BF141846.D | 05 Mar 2025 16:21 | RC/JU | Ok |
| 14 | Q1488-03 | BF141847.D | 05 Mar 2025 16:50 | RC/JU | Ok |
| 15 | Q1485-01 | BF141848.D | 05 Mar 2025 17:20 | RC/JU | Ok |
| 16 | Q1480-33 | BF141849.D | 05 Mar 2025 17:50 | RC/JU | Ok |
| 17 | Q1489-09 | BF141850.D | 05 Mar 2025 18:20 | RC/JU | Ok |
| 18 | Q1489-01 | BF141851.D | 05 Mar 2025 18:50 | RC/JU | Ok,M |
| 19 | Q1484-01 | BF141852.D | 05 Mar 2025 19:20 | RC/JU | Dilution |
| 20 | Q1486-01 | BF141853.D | 05 Mar 2025 19:50 | RC/JU | Ok,M |
| 21 | Q1489-05 | BF141854.D | 05 Mar 2025 20:20 | RC/JU | ReRun |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF030525

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | anahy | Review On | 3/6/2025 9:48:03 AM | | | | |
| Supervise By | Jagrut | Supervise On | 3/6/2025 5:48:04 PM | | | | |
| SubDirectory | BF030525 | HP Acquire Method | BNA_F | | HP Processing Method | bf022725 | |

| 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 | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q1481-01 | BF141855.D | 05 Mar 2025 20:50 | RC/JU | Ok |
| 23 | Q1482-01 | BF141856.D | 05 Mar 2025 21:20 | RC/JU | Ok,M |

M : Manual Integration

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF030625

| | | | | | |
|---|---|---|---|---|---|
| Review By | | Review On | | | |
| Supervise By | | Supervise On | | | |
| SubDirectory | BF030625 | HP Acquire Method | BNA_F | HP Processing Method | bf022725 |

| 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 | BF141857.D | 06 Mar 2025 08:34 | RC/JU | Ok |
| 2 | SSTDCCC040 | BF141858.D | 06 Mar 2025 09:52 | RC/JU | Ok |
| 3 | PB166984BL | BF141859.D | 06 Mar 2025 10:22 | RC/JU | Ok |
| 4 | PB166984BS | BF141860.D | 06 Mar 2025 10:52 | RC/JU | Ok,NR |
| 5 | PB166982BL | BF141861.D | 06 Mar 2025 11:21 | RC/JU | Ok |
| 6 | PB166982BS | BF141862.D | 06 Mar 2025 11:51 | RC/JU | Ok,NR |
| 7 | PB166982BSD | BF141863.D | 06 Mar 2025 12:21 | RC/JU | Ok,NR |
| 8 | Q1488-07 | BF141864.D | 06 Mar 2025 13:01 | RC/JU | Ok |
| 9 | Q1488-01 | BF141865.D | 06 Mar 2025 13:31 | RC/JU | Ok |
| 10 | Q1489-05 | BF141866.D | 06 Mar 2025 14:01 | RC/JU | Ok,NR |
| 11 | Q1478-01 | BF141867.D | 06 Mar 2025 14:31 | RC/JU | Ok |
| 12 | Q1478-07 | BF141868.D | 06 Mar 2025 15:01 | RC/JU | Ok |
| 13 | Q1478-05 | BF141869.D | 06 Mar 2025 15:30 | RC/JU | Ok |
| 14 | Q1488-14 | BF141870.D | 06 Mar 2025 16:00 | RC/JU | Ok |
| 15 | Q1488-13 | BF141871.D | 06 Mar 2025 16:29 | RC/JU | Ok |
| 16 | Q1478-03 | BF141872.D | 06 Mar 2025 16:59 | RC/JU | Ok |
| 17 | Q1484-06 | BF141873.D | 06 Mar 2025 17:29 | RC/JU | Ok |
| 18 | Q1492-01 | BF141874.D | 06 Mar 2025 17:59 | RC/JU | Ok |
| 19 | Q1492-01MS | BF141875.D | 06 Mar 2025 18:29 | RC/JU | Ok,NR |
| 20 | Q1492-01MSD | BF141876.D | 06 Mar 2025 18:58 | RC/JU | Ok,NR |
| 21 | Q1494-05 | BF141877.D | 06 Mar 2025 19:28 | RC/JU | Ok |

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**Instrument ID: BNA_F**

## Daily Analysis Runlog For Sequence/QCBatch ID # BF030625

| | | | | | |
|---|---|---|---|---|---|
| Review By | | Review On | | | |
| Supervise By | | Supervise On | | | |
| SubDirectory | BF030625 | HP Acquire Method | BNA_F | HP Processing Method | bf022725 |

| 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 | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q1494-07 | BF141878.D | 06 Mar 2025 19:58 | RC/JU | Ok |
| 23 | Q1490-01 | BF141879.D | 06 Mar 2025 20:27 | RC/JU | Ok,NR |
| 24 | Q1484-01DL | BF141880.D | 06 Mar 2025 20:57 | RC/JU | Not Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF022725

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 2/28/2025 7:30:58 AM | | |
| Supervise By | mohammad | Supervise On | 2/28/2025 7:32:51 AM | | |
| SubDirectory | BF022725 | HP Acquire Method | BNA_F | HP Processing Method | bf022725 |

| 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 | BF141792.D | 27 Feb 2025 14:47 | | RC/JU | Ok |
| 2 | SSTDICC2.5 | SSTDICC2.5 | BF141793.D | 27 Feb 2025 15:17 | | RC/JU | Ok |
| 3 | SSTDICC005 | SSTDICC005 | BF141794.D | 27 Feb 2025 15:46 | Compound #32,54,65,77 removed from 5ppm | RC/JU | Ok,M |
| 4 | SSTDICC010 | SSTDICC010 | BF141795.D | 27 Feb 2025 16:16 | Compound #26,32,48,51,53,57,65 Kept on LR and Compound #54 Kept on QR | RC/JU | Ok,M |
| 5 | SSTDICC020 | SSTDICC020 | BF141796.D | 27 Feb 2025 16:46 | The Calibration is Fail for Com#77 | RC/JU | Ok,M |
| 6 | SSTDICCC040 | SSTDICCC040 | BF141797.D | 27 Feb 2025 17:16 | The Calibration is Good For 8270E, 8270 DOD Except com#77 and 625.1 Method Except for Com#77 | RC/JU | Ok,M |
| 7 | SSTDICC050 | SSTDICC050 | BF141798.D | 27 Feb 2025 17:46 | | RC/JU | Ok |
| 8 | SSTDICC060 | SSTDICC060 | BF141799.D | 27 Feb 2025 18:15 | | RC/JU | Ok |
| 9 | SSTDICC080 | SSTDICC080 | BF141800.D | 27 Feb 2025 18:45 | Compound #69 removed from 80ppm | RC/JU | Ok,M |
| 10 | SSTDICV040 | ICVBF022725 | BF141801.D | 27 Feb 2025 19:45 | ICV Fail for Com#56,62,77 for DOD and ICV Fail for Com#77 for NON- DOD | RC/JU | Ok |
| 11 | PB166879TB | PB166879TB | BF141802.D | 27 Feb 2025 20:44 | | RC/JU | Ok |

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**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF030525

| | | | | | |
|---|---|---|---|---|---|
| Review By | anahy | Review On | 3/6/2025 9:48:03 AM | | |
| Supervise By | Jagrut | Supervise On | 3/6/2025 5:48:04 PM | | |
| SubDirectory | BF030525 | HP Acquire Method | BNA_F | HP Processing Method | bf022725 |

| 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 | BF141834.D | 05 Mar 2025 09:40 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF141835.D | 05 Mar 2025 10:09 | | RC/JU | Ok |
| 3 | PB166970BL | PB166970BL | BF141836.D | 05 Mar 2025 10:39 | | RC/JU | Ok |
| 4 | PB166970BS | PB166970BS | BF141837.D | 05 Mar 2025 11:09 | | RC/JU | Ok,M |
| 5 | Q1480-17DL | TP-3DL | BF141838.D | 05 Mar 2025 11:45 | | RC/JU | Ok |
| 6 | Q1480-01DL | TP-1DL | BF141839.D | 05 Mar 2025 12:15 | | RC/JU | Ok,M |
| 7 | Q1489-13 | TP-4 | BF141840.D | 05 Mar 2025 13:24 | | RC/JU | Ok |
| 8 | Q1488-11 | ENV-104-SB02 | BF141841.D | 05 Mar 2025 13:53 | | RC/JU | Ok |
| 9 | Q1488-05 | ENV-102-SB01 | BF141842.D | 05 Mar 2025 14:23 | | RC/JU | Ok |
| 10 | Q1488-09 | ENV-104-SB01 | BF141843.D | 05 Mar 2025 14:52 | | RC/JU | Ok,M |
| 11 | Q1487-01MS | DN-B-42MS | BF141844.D | 05 Mar 2025 15:21 | | RC/JU | Ok,M |
| 12 | Q1487-01MSD | DN-B-42MSD | BF141845.D | 05 Mar 2025 15:51 | | RC/JU | Ok,M |
| 13 | Q1487-01 | DN-B-42 | BF141846.D | 05 Mar 2025 16:21 | | RC/JU | Ok |
| 14 | Q1488-03 | ENV-101-SB02 | BF141847.D | 05 Mar 2025 16:50 | | RC/JU | Ok |
| 15 | Q1485-01 | DN-B-41 | BF141848.D | 05 Mar 2025 17:20 | | RC/JU | Ok |
| 16 | Q1480-33 | TP-3-WATER-SAMPLE | BF141849.D | 05 Mar 2025 17:50 | | RC/JU | Ok |
| 17 | Q1489-09 | TP-3 | BF141850.D | 05 Mar 2025 18:20 | | RC/JU | Ok |
| 18 | Q1489-01 | TP-1 | BF141851.D | 05 Mar 2025 18:50 | | RC/JU | Ok,M |

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

**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF030525

| | | | | | |
|---|---|---|---|---|---|
| Review By | anahy | Review On | 3/6/2025 9:48:03 AM | | |
| Supervise By | Jagrut | Supervise On | 3/6/2025 5:48:04 PM | | |
| SubDirectory | BF030525 | HP Acquire Method | BNA_F | HP Processing Method | bf022725 |

| 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 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1484-01 | TR-OTR-COMP-01 | BF141852.D | 05 Mar 2025 19:20 | Need 2X Dilution | RC/JU | Dilution |
| 20 | Q1486-01 | DN-B-40 | BF141853.D | 05 Mar 2025 19:50 | | RC/JU | Ok,M |
| 21 | Q1489-05 | TP-2 | BF141854.D | 05 Mar 2025 20:20 | Internal Standard Fail | RC/JU | ReRun |
| 22 | Q1481-01 | WC-K1311 | BF141855.D | 05 Mar 2025 20:50 | | RC/JU | Ok |
| 23 | Q1482-01 | OR-03-030425 | BF141856.D | 05 Mar 2025 21:20 | Internal Standard Fail | RC/JU | Ok,M |

M : Manual Integration

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

**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF030625

| | | | | | |
|---|---|---|---|---|---|
| Review By | | Review On | | | |
| Supervise By | | Supervise On | | | |
| SubDirectory | BF030625 | HP Acquire Method | BNA_F | HP Processing Method | bf022725 |

| 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 | BF141857.D | 06 Mar 2025 08:34 | | RC/JU | Ok |
| 2 | SSTDCCC040 | SSTDCCC040 | BF141858.D | 06 Mar 2025 09:52 | | RC/JU | Ok |
| 3 | PB166984BL | PB166984BL | BF141859.D | 06 Mar 2025 10:22 | | RC/JU | Ok |
| 4 | PB166984BS | PB166984BS | BF141860.D | 06 Mar 2025 10:52 | | RC/JU | Ok,NR |
| 5 | PB166982BL | PB166982BL | BF141861.D | 06 Mar 2025 11:21 | | RC/JU | Ok |
| 6 | PB166982BS | PB166982BS | BF141862.D | 06 Mar 2025 11:51 | | RC/JU | Ok,NR |
| 7 | PB166982BSD | PB166982BSD | BF141863.D | 06 Mar 2025 12:21 | | RC/JU | Ok,NR |
| 8 | Q1488-07 | ENV-102-SB02 | BF141864.D | 06 Mar 2025 13:01 | | RC/JU | Ok |
| 9 | Q1488-01 | ENV-101-SB01 | BF141865.D | 06 Mar 2025 13:31 | | RC/JU | Ok |
| 10 | Q1489-05 | TP-2 | BF141866.D | 06 Mar 2025 14:01 | | RC/JU | Ok,NR |
| 11 | Q1478-01 | IDW-AQ-MW-19B-COM | BF141867.D | 06 Mar 2025 14:31 | | RC/JU | Ok |
| 12 | Q1478-07 | IDW-AQ-IW-03-COMP- | BF141868.D | 06 Mar 2025 15:01 | | RC/JU | Ok |
| 13 | Q1478-05 | IDW-AQ-IW-02-COMP- | BF141869.D | 06 Mar 2025 15:30 | | RC/JU | Ok |
| 14 | Q1488-14 | ENV-104-GW01 | BF141870.D | 06 Mar 2025 16:00 | | RC/JU | Ok |
| 15 | Q1488-13 | ENV-102-GW01 | BF141871.D | 06 Mar 2025 16:29 | | RC/JU | Ok |
| 16 | Q1478-03 | IDW-AQ-IW-01-COMP- | BF141872.D | 06 Mar 2025 16:59 | | RC/JU | Ok |
| 17 | Q1484-06 | TR-OTR-COMP-01 | BF141873.D | 06 Mar 2025 17:29 | | RC/JU | Ok |
| 18 | Q1492-01 | RHL1PXI | BF141874.D | 06 Mar 2025 17:59 | | RC/JU | Ok |

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

**Instrument ID:** BNA_F

## Daily Analysis Runlog For Sequence/QCBatch ID # BF030625

| | | | | | |
|---|---|---|---|---|---|
| Review By | | Review On | | | |
| Supervise By | | Supervise On | | | |
| SubDirectory | BF030625 | HP Acquire Method | BNA_F | HP Processing Method | bf022725 |

| 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 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1492-01MS | RHL1PXIMS | BF141875.D | 06 Mar 2025 18:29 | | RC/JU | Ok,NR |
| 20 | Q1492-01MSD | RHL1PXIMSD | BF141876.D | 06 Mar 2025 18:58 | | RC/JU | Ok,NR |
| 21 | Q1494-05 | SOIL | BF141877.D | 06 Mar 2025 19:28 | | RC/JU | Ok |
| 22 | Q1494-07 | SOIL-COMP | BF141878.D | 06 Mar 2025 19:58 | | RC/JU | Ok |
| 23 | Q1490-01 | CLAY-SLUDGE-DRUM | BF141879.D | 06 Mar 2025 20:27 | | RC/JU | Ok,NR |
| 24 | Q1484-01DL | TR-OTR-COMP-01DL | BF141880.D | 06 Mar 2025 20:57 | Out Of Tune Time | RC/JU | Not Ok |

M : Manual Integration

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 3/5/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:40
**In Date:** 03/04/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:35
**Out Date:** 03/05/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB134889

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| Q1480-01 | TP-1 | 1 | 1.13 | 8.86 | 9.99 | 8.95 | 88.3 | |
| Q1480-02 | TP-1-E2 | 2 | 1.12 | 8.86 | 9.98 | 9.14 | 90.5 | |
| Q1480-03 | TP-1-E3 | 3 | 1.15 | 8.76 | 9.91 | 8.11 | 79.5 | |
| Q1480-04 | TP-1-E4 | 4 | 1.15 | 8.48 | 9.63 | 8.73 | 89.4 | |
| Q1480-05 | TP-1-E5 | 5 | 1.15 | 8.82 | 9.97 | 8.71 | 85.7 | |
| Q1480-06 | TP-1-E6 | 6 | 1.15 | 8.81 | 9.96 | 8.93 | 88.3 | |
| Q1480-07 | TP-1-E7 | 7 | 1.14 | 8.71 | 9.85 | 8.61 | 85.8 | |
| Q1480-09 | TP-2 | 8 | 1.12 | 8.74 | 9.86 | 8.56 | 85.1 | |
| Q1480-10 | TP-2-E2 | 9 | 1.14 | 8.82 | 9.96 | 8.53 | 83.8 | |
| Q1480-11 | TP-2-E3 | 10 | 1.15 | 8.50 | 9.65 | 8.62 | 87.9 | |
| Q1480-12 | TP-2-E4 | 11 | 1.14 | 8.76 | 9.9 | 8.8 | 87.4 | |
| Q1480-13 | TP-2-E5 | 12 | 1.15 | 8.82 | 9.97 | 8.92 | 88.1 | |
| Q1480-14 | TP-2-E6 | 13 | 1.16 | 8.82 | 9.98 | 8.95 | 88.3 | |
| Q1480-15 | TP-2-E7 | 14 | 1.12 | 8.73 | 9.85 | 8.88 | 88.9 | |
| Q1480-17 | TP-3 | 15 | 1.15 | 8.83 | 9.98 | 9.11 | 90.1 | |
| Q1480-18 | TP-3-E2 | 16 | 1.15 | 8.83 | 9.98 | 8.89 | 87.7 | |
| Q1480-19 | TP-3-E3 | 17 | 1.13 | 8.58 | 9.71 | 8.67 | 87.9 | |
| Q1480-20 | TP-3-E4 | 18 | 1.15 | 8.61 | 9.76 | 8.51 | 85.5 | |
| Q1480-21 | TP-3-E5 | 19 | 1.15 | 8.80 | 9.95 | 8.8 | 86.9 | |
| Q1480-22 | TP-3-E6 | 20 | 1.15 | 8.84 | 9.99 | 8.92 | 87.9 | |
| Q1480-23 | TP-3-E7 | 21 | 1.19 | 8.63 | 9.82 | 8.75 | 87.6 | |
| Q1480-25 | TP-4 | 22 | 1.14 | 8.83 | 9.97 | 9.07 | 89.8 | |
| Q1480-26 | TP-4-E2 | 23 | 1.17 | 8.80 | 9.97 | 9.32 | 92.6 | |
| Q1480-27 | TP-4-E3 | 24 | 1.13 | 8.76 | 9.89 | 8.95 | 89.3 | |
| Q1480-28 | TP-4-E4 | 25 | 1.16 | 8.81 | 9.97 | 9.13 | 90.5 | |
| Q1480-29 | TP-4-E5 | 26 | 1.12 | 8.67 | 9.79 | 8.97 | 90.5 | |
| Q1480-30 | TP-4-E6 | 27 | 1.15 | 8.83 | 9.98 | 9.34 | 92.8 | |
| Q1480-31 | TP-4-E7 | 28 | 1.11 | 8.62 | 9.73 | 8.88 | 90.1 | |

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 3/5/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:40
**In Date:** 03/04/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:35
**Out Date:** 03/05/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB134889

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| Q1481-01 | WC-K1311 | 29 | 1.15 | 8.70 | 9.85 | 9.00 | 90.2 | |
| Q1482-01 | OR-03-030425 | 30 | 1.15 | 8.48 | 9.63 | 8.85 | 90.8 | |
| Q1482-02 | OR-03-030425-E2 | 31 | 1.15 | 8.83 | 9.98 | 9.17 | 90.8 | |
| Q1484-01 | TR-OTR-COMP-01 | 35 | 1.15 | 8.83 | 9.98 | 9.14 | 90.5 | |
| Q1484-02 | TR-OTR-VOC-01 | 36 | 1.15 | 8.81 | 9.96 | 9.22 | 91.6 | |
| Q1484-03 | TR-OTR-01 | 37 | 1.12 | 8.63 | 9.75 | 8.83 | 89.3 | |
| Q1484-04 | TR-OTR-02 | 38 | 1.15 | 8.78 | 9.93 | 8.99 | 89.3 | |
| Q1484-05 | TR-OTR-03 | 39 | 1.14 | 8.63 | 9.77 | 8.6 | 86.4 | |
| Q1485-01 | DN-B-41 | 32 | 1.16 | 8.53 | 9.69 | 8.25 | 83.1 | |
| Q1486-01 | DN-B-40 | 33 | 1.16 | 8.40 | 9.56 | 9.02 | 93.6 | |
| Q1487-01 | DN-B-42 | 34 | 1.13 | 8.84 | 9.97 | 8.92 | 88.1 | |
| Q1488-01 | ENV-101-SB01 | 40 | 1.13 | 8.45 | 9.58 | 8.61 | 88.5 | |
| Q1488-03 | ENV-101-SB02 | 41 | 1.15 | 8.82 | 9.97 | 9.14 | 90.6 | |
| Q1488-05 | ENV-102-SB01 | 42 | 1.16 | 8.82 | 9.98 | 8.72 | 85.7 | |
| Q1488-07 | ENV-102-SB02 | 43 | 1.13 | 8.55 | 9.68 | 7.98 | 80.1 | |
| Q1488-09 | ENV-104-SB01 | 44 | 1.12 | 8.50 | 9.62 | 8.14 | 82.6 | |
| Q1488-11 | ENV-104-SB02 | 45 | 1.14 | 8.85 | 9.99 | 8.32 | 81.1 | |
| Q1489-01 | TP-1 | 46 | 1.13 | 8.86 | 9.99 | 8.18 | 79.6 | |
| Q1489-02 | TP-1-E2 | 47 | 1.15 | 8.83 | 9.98 | 8.17 | 79.5 | |
| Q1489-03 | TP-1-E3 | 48 | 1.13 | 8.70 | 9.83 | 7.68 | 75.3 | |
| Q1489-05 | TP-2 | 49 | 1.11 | 8.76 | 9.87 | 6.93 | 66.4 | |
| Q1489-06 | TP-2-E2 | 50 | 1.16 | 8.63 | 9.79 | 7.38 | 72.1 | |
| Q1489-07 | TP-2-E3 | 51 | 1.15 | 8.83 | 9.98 | 7.53 | 72.3 | |
| Q1489-09 | TP-3 | 52 | 1.19 | 8.58 | 9.77 | 7.71 | 76.0 | |
| Q1489-10 | TP-3-E2 | 53 | 1.15 | 8.84 | 9.99 | 8.7 | 85.4 | |
| Q1489-11 | TP-3-E3 | 54 | 1.15 | 8.38 | 9.53 | 7.9 | 80.5 | |
| Q1489-13 | TP-4 | 55 | 1.16 | 8.81 | 9.97 | 8.57 | 84.1 | |
| Q1489-14 | TP-4-E2 | 56 | 1.16 | 8.82 | 9.98 | 8.46 | 82.8 | |

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 3/5/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:40
**In Date:** 03/04/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:35
**Out Date:** 03/05/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB134889

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| Q1489-15 | TP-4-E3 | 57 | 1.16 | 8.50 | 9.66 | 8.02 | 80.7 | |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

UB134889

**WorkList Name :** %1-030425 **WorkList ID :** 187994 **Department :** Wet-Chemistry **Date :** 03-04-2025 07:58:37

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1480-01 | TP-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-02 | TP-1-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-03 | TP-1-E3 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-04 | TP-1-E4 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-05 | TP-1-E5 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-06 | TP-1-E6 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-07 | TP-1-E7 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-09 | TP-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-10 | TP-2-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-11 | TP-2-E3 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-12 | TP-2-E4 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-13 | TP-2-E5 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-14 | TP-2-E6 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-15 | TP-2-E7 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-17 | TP-3 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-18 | TP-3-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-19 | TP-3-E3 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-20 | TP-3-E4 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-21 | TP-3-E5 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-22 | TP-3-E6 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-23 | TP-3-E7 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |

**Date/Time** 03/04/25 16:15

**Raw Sample Received by:** JD (WC)

**Raw Sample Relinquished by:** CP SM

**Date/Time** 03/04/25 18:00

**Raw Sample Received by:** CP SM

**Raw Sample Relinquished by:** JD (WC)

# WORKLIST(Hardcopy Internal Chain)

VB134889

**WorkList Name :** %1-030425 **WorkList ID :** 187994 **Department :** Wet-Chemistry **Date :** 03-04-2025 07:58:37

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1480-25 | TP-4 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-26 | TP-4-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-27 | TP-4-E3 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-28 | TP-4-E4 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-29 | TP-4-E5 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-30 | TP-4-E6 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1480-31 | TP-4-E7 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1481-01 | WC-K1311 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I11 | 03/03/2025 | Chemtech -SO |
| Q1482-01 | OR-03-030425 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | H31 | 03/04/2025 | Chemtech -SO |
| Q1482-02 | OR-03-030425-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | H31 | 03/04/2025 | Chemtech -SO |
| Q1484-01 | TR-OTR-COMP-01 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | H31 | 03/04/2025 | Chemtech -SO |
| Q1484-02 | TR-OTR-VOC-01 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | H31 | 03/04/2025 | Chemtech -SO |
| Q1484-03 | TR-OTR-01 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | H31 | 03/04/2025 | Chemtech -SO |
| Q1484-04 | TR-OTR-02 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | H31 | 03/04/2025 | Chemtech -SO |
| Q1484-05 | TR-OTR-03 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | H31 | 03/04/2025 | Chemtech -SO |
| Q1485-01 | DN-B-41 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | H31 | 03/04/2025 | Chemtech -SO |
| Q1486-01 | DN-B-40 | Solid | Percent Solids | Cool 4 deg C | JPCL01 | I11 | 03/04/2025 | Chemtech -SO |
| Q1487-01 | DN-B-42 | Solid | Percent Solids | Cool 4 deg C | JPCL01 | I11 | 03/04/2025 | Chemtech -SO |
| Q1488-01 | ENV-101-SB01 | Solid | Percent Solids | Cool 4 deg C | JPCL01 | I11 | 03/04/2025 | Chemtech -SO |
| Q1488-03 | ENV-101-SB02 | Solid | Percent Solids | Cool 4 deg C | PORT06 | H31 | 03/04/2025 | Chemtech -SO |
| Q1488-05 | ENV-102-SB01 | Solid | Percent Solids | Cool 4 deg C | PORT06 | H31 | 03/04/2025 | Chemtech -SO |

**Date/Time** 03/04/25 16:15

**Raw Sample Received by:** SB (WCJ)

**Raw Sample Relinquished by:** CP SM

**Date/Time** 03/04/25 18:00

**Raw Sample Received by:** CP SM

**Raw Sample Relinquished by:** SB (WCJ)

# WORKLIST(Hardcopy Internal Chain)

1B134889

**WorkList Name :** %1-030425 **WorkList ID :** 187994 **Department :** Wet-Chemistry **Date :** 03-04-2025 07:58:37

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1488-07 | ENV-102-SB02 | Solid | Percent Solids | Cool 4 deg C | PORT06 | H31 | 03/04/2025 | Chemtech -SO |
| Q1488-09 | ENV-104-SB01 | Solid | Percent Solids | Cool 4 deg C | PORT06 | H31 | 03/04/2025 | Chemtech -SO |
| Q1488-11 | ENV-104-SB02 | Solid | Percent Solids | Cool 4 deg C | PORT06 | H31 | 03/04/2025 | Chemtech -SO |
| Q1489-01 | TP-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | Chemtech -SO |
| Q1489-02 | TP-1-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | Chemtech -SO |
| Q1489-03 | TP-1-E3 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | Chemtech -SO |
| Q1489-05 | TP-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | Chemtech -SO |
| Q1489-06 | TP-2-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | Chemtech -SO |
| Q1489-07 | TP-2-E3 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | Chemtech -SO |
| Q1489-09 | TP-3 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | Chemtech -SO |
| Q1489-10 | TP-3-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | Chemtech -SO |
| Q1489-11 | TP-3-E3 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | Chemtech -SO |
| Q1489-13 | TP-4 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | Chemtech -SO |
| Q1489-14 | TP-4-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | Chemtech -SO |
| Q1489-15 | TP-4-E3 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | Chemtech -SO |

**Date/Time** 03/04/25 16:15

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

**Date/Time** 03/04/25 1840

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

PB166984

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | M3541-ASE Extraction-14 | | | | |
| **Clean Up SOP #:** | N/A | | | **Extraction Start Date :** | 03/05/2025 |
| **Matrix :** | Solid | | | **Extraction Start Time :** | 09:40 |
| **Weigh By:** | EH | **Extraction By:** | RJ | **Extraction End Date :** | 03/05/2025 |
| **Balance check:** | RJ | **Filter By:** | RJ | **Extraction End Time :** | 12:45 |
| **Balance ID:** | EX-SC-2 | **pH Meter ID:** | N/A | **Concentration By:** | EH |
| **pH Strip Lot#:** | N/A | **Hood ID:** | 3,7 | **Supervisor By :** | RUPESH |

**Extraction Method:** ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 50/100 PPM | SP6720 |
| Surrogate | 1.0ML | 100/150 PPM | SP6638 |
| 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 |
|---|---|---|
| MeCl2/Acetone/1:1 | N/A | EP2591 |
| Baked Na2SO4 | N/A | EP2590 |
| Methylene Chloride | N/A | E3878 |
| Sand | N/A | E2865 |
| 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:**

1.5 ML Vial lot # 2210673.

| | | | |
|---|---|---|---|
| **KD Bath ID:** | N/A | **Envap ID:** | NEVAP-02 |
| **KD Bath Temperature:** | N/A | **Envap Temperature:** | 40 °C |

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 3/5/25 | RS (Ext lab) | RC/SVOC |
| 12:50 | **Preparation Group** | **Analysis Group** |

Alliance TECHNICAL GROUP

**EXTRACTION LOGPAGE**

**PrepBatch ID : PB166984**

**Analytical Method:** M3541-ASE Extraction-14

**Concentration Date:** 03/05/2025

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB166984BL | SBLK984 | SVOC-TCL BNA -20 | 30.01 | N/A | ritesh | Evelyn | 1 | | | U2-1 |
| PB166984BS | SLCS984 | SVOC-TCL BNA -20 | 30.03 | N/A | ritesh | Evelyn | 1 | | | 2 |
| Q1481-01 | WC-K1311 | SVOC-TCL BNA -20 | 50.06 | N/A | ritesh | Evelyn | 1 | E | | 3 |
| Q1482-01 | OR-03-030425 | SVOC-TCL BNA -20 | 50.04 | N/A | ritesh | Evelyn | 1 | E | | 4 |
| Q1484-01 | TR-OTR-COMP-01 | SVOC-TCL BNA -20 | 50.09 | N/A | ritesh | Evelyn | 1 | E | | 5 |
| Q1485-01 | DN-B-41 | SVOC-TCL BNA -20 | 30.05 | N/A | ritesh | Evelyn | 1 | B | | 6 |
| Q1486-01 | DN-B-40 | SVOC-TCL BNA -20 | 30.01 | N/A | ritesh | Evelyn | 1 | B | | U3-1 |
| Q1487-01 | DN-B-42 | SVOC-TCL BNA -20 | 30.08 | N/A | ritesh | Evelyn | 1 | C | | 2 |
| Q1487-01MS | DN-B-42MS | SVOC-TCL BNA -20 | 30.03 | N/A | ritesh | Evelyn | 1 | C | | 3 |
| Q1487-01MSD | DN-B-42MSD | SVOC-TCL BNA -20 | 30.05 | N/A | ritesh | Evelyn | 1 | C | | 4 |
| Q1488-01 | ENV-101-SB01 | SVOC-TCL BNA -20 | 30.07 | N/A | ritesh | Evelyn | 1 | E | | 5 |
| Q1488-03 | ENV-101-SB02 | SVOC-TCL BNA -20 | 30.02 | N/A | ritesh | Evelyn | 1 | E | | 6 |
| Q1488-05 | ENV-102-SB01 | SVOC-TCL BNA -20 | 30.08 | N/A | ritesh | Evelyn | 1 | E | | U6-1 |
| Q1488-07 | ENV-102-SB02 | SVOC-TCL BNA -20 | 30.05 | N/A | ritesh | Evelyn | 1 | E | | 2 |
| Q1488-09 | ENV-104-SB01 | SVOC-TCL BNA -20 | 30.03 | N/A | ritesh | Evelyn | 1 | E | | 3 |
| Q1488-11 | ENV-104-SB02 | SVOC-TCL BNA -20 | 30.08 | N/A | ritesh | Evelyn | 1 | E | | 4 |
| Q1489-01 | TP-1 | SVOC-TCL BNA -20 | 50.04 | N/A | ritesh | Evelyn | 1 | E | | 5 |
| Q1489-05 | TP-2 | SVOC-TCL BNA -20 | 50.02 | N/A | ritesh | Evelyn | 1 | E | | 6 |
| Q1489-09 | TP-3 | SVOC-TCL BNA -20 | 50.07 | N/A | ritesh | Evelyn | 1 | E | | U7-1 |
| Q1489-13 | TP-4 | SVOC-TCL BNA -20 | 50.09 | N/A | ritesh | Evelyn | 1 | E | | 2 |

RS 3/5

* **Extracts relinquished on the same date as received.**

166984
9.40

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** Q1485 **WorkList ID :** 188027 **Department :** Extraction **Date :** 03-05-2025 08:31:15

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q1481-01 | WC-K1311 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | H31 | 03/04/2025 | 8270E |
| Q1482-01 | OR-03-030425 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG05 | H31 | 03/04/2025 | 8270E |
| Q1484-01 | TR-OTR-COMP-01 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | H31 | 03/04/2025 | 8270E |
| Q1485-01 | DN-B-41 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | JPCL01 | I11 | 03/04/2025 | 8270E |
| Q1486-01 | DN-B-40 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | JPCL01 | I11 | 03/04/2025 | 8270E |
| Q1487-01 | DN-B-42 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | JPCL01 | I11 | 03/04/2025 | 8270E |
| Q1488-01 | ENV-101-SB01 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PORT06 | H31 | 03/04/2025 | 8270E |
| Q1488-03 | ENV-101-SB02 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PORT06 | H31 | 03/04/2025 | 8270E |
| Q1488-05 | ENV-102-SB01 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PORT06 | H31 | 03/04/2025 | 8270E |
| Q1488-07 | ENV-102-SB02 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PORT06 | H31 | 03/04/2025 | 8270E |
| Q1488-09 | ENV-104-SB01 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PORT06 | H31 | 03/04/2025 | 8270E |
| Q1488-11 | ENV-104-SB02 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PORT06 | H31 | 03/04/2025 | 8270E |
| Q1489-01 | TP-1 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | 8270E |
| Q1489-05 | TP-2 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | 8270E |
| Q1489-09 | TP-3 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | 8270E |
| Q1489-13 | TP-4 | Solid | SVOC-TCL BNA -20 | Cool 4 deg C | PSEG03 | I22 | 03/04/2025 | 8270E |

**Date/Time** 3/5/25 9:35
**Raw Sample Received by:** RJ (Ext 0-6)
**Raw Sample Relinquished by:** SM



**Date/Time** 3/5/25 10:10
**Raw Sample Received by:** SM
**Raw Sample Relinquished by:** RJ (Ext 0-6)

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

# Prep Standard - Chemical Standard Summary

**Order ID :** Q1485

**Test :** SVOC-TCL BNA -20

**Prepbatch ID :** PB166984,

**Sequence ID/Qc Batch ID:** BF030525,BF030625,

**Standard ID :**
EP2590,EP2591,SP6638,SP6685,SP6686,SP6717,SP6720,SP6721,SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729,

**Chemical ID :**
10ul/1000ul sample,E2865,E3551,E3815,E3828,E3846,E3871,E3874,E3876,E3878,S10104,S10246,S10397,S10584,S10978,S10979,S10980,S11004,S11005,S11006,S11007,S11008,S11009,S11010,S11074,S11087,S11143,S11161,S11487,S11495,S11650,S11781,S11782,S11783,S11784,S11785,S12114,S12142,S12143,S12144,S12145,S12146,S12187,S12188,S12189,S12207,S12208,S12270,S12276,S12327,S12469,S12470,S12471,S12472,S12473,S12474,S12475,S12476,S12477,S12478,S12517,S12518,S12519,S12520,S12521,S12522,S12523,S12524,S12525,S12649,S12653,S12791,S12963,S12964,S12965,S12966,

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# Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3923 | Baked Sodium Sulfate | EP2590 | 02/26/2025 | 07/01/2025 | RUPESHKUMAR SHAH | Extraction_SCALE_2 (EX-SC-2) | None | Riteshkumar Patel 02/26/2025 |

**FROM** 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2017 | 1:1 ACETONE/METHYLENE CHLORIDE | EP2591 | 02/26/2025 | 08/14/2025 | RUPESHKUMAR SHAH | None | None | Riteshkumar Patel 02/26/2025 |

**FROM** 8000.00000ml of E3876 + 8000.00000ml of E3878 = Final Quantity: 16000.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 19 | 8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID | SP6638 | 10/10/2024 | 04/04/2025 | Jagrut Upadhyay | None | None | mohammad ahmed 10/18/2024 |

**FROM** 1930.00000ml of E3815 + 5.00000ml of S10978 + 5.00000ml of S10979 + 5.00000ml of S10980 + 5.00000ml of S11004 + 5.00000ml of S11005 + 5.00000ml of S11006 + 5.00000ml of S11007 + 5.00000ml of S11008 + 5.00000ml of S11009 + 5.00000ml of S11010 + 5.00000ml of S12187 + 5.00000ml of S12188 + 5.00000ml of S12189 + 5.00000ml of S12207 = Final Quantity: 2000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 18 | Second Source Calibration Stock Standard, 100 PPM, (8270/625/CLP) | SP6685 | 11/15/2024 | 04/10/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 12/27/2024 |

**FROM** 0.04000ml of S12189 + 0.08000ml of S12208 + 0.10000ml of S11074 + 0.20000ml of S12142 + 0.20000ml of S12469 + 0.20000ml of S12517 + 1.18000ml of E3828 = Final Quantity: 2.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 416 | 40 ng BNA ICV, 40 PPM | SP6686 | 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

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3895 | 50 ug/ml DFTPP 8270E | SP6717 | 01/15/2025 | 03/31/2025 | Rahul Chavli | None | None | Yogesh Patel 01/16/2025 |

**FROM** 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 171 | 8270/625 Spike Solution, 50/100 PPM | SP6720 | 01/29/2025 | 04/30/2025 | Jagrut Upadhyay | None | None | Yogesh Patel 02/06/2025 |

**FROM** 0.40000ml of S10397 + 0.40000ml of S10584 + 0.40000ml of S11143 + 0.40000ml of S11487 + 0.40000ml of S11650 + 0.40000ml of S12478 + 0.50000ml of S11781 + 0.50000ml of S12470 + 0.60000ml of S11785 + 0.90000ml of S12518 + 0.90000ml of S12966 + 1.30000ml of S11782 + 1.30000ml of S11783 + 1.30000ml of S11784 + 1.30000ml of S12143 + 1.30000ml of S12144 + 1.30000ml of S12145 + 1.30000ml of S12146 + 1.30000ml of S12471 + 1.30000ml of S12472 + 1.30000ml of S12473 + 1.30000ml of S12474 + 1.30000ml of S12475 + 1.30000ml of S12476 + 1.30000ml of S12477 + 1.30000ml of S12519 + 1.30000ml of S12520 + 1.30000ml of S12521 + 1.30000ml of S12522 + 1.30000ml of S12523 + 1.30000ml of S12524 + 1.30000ml of S12525 + 1.30000ml of S12963 + 1.30000ml of S12964 + 1.30000ml of S12965 + 163.00000ml of E3846 = Final Quantity: 200.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3764 | 8270/625 Stock solution 100 ng | SP6721 | 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

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 413 | 80 ng BNA ICC, 80 PPM | SP6722 | 01/30/2025 | 05/12/2025 | Jagrut Upadhyay | None | None | Shreena Patel 02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.20000ml of E3874 + 0.80000ml of SP6721 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 412 | 60 ng BNA ICC, 60 PPM | SP6723 | 01/30/2025 | 05/12/2025 | Jagrut Upadhyay | None | None | Shreena Patel 02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.40000ml of E3874 + 0.60000ml of SP6721 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 411 | 50 ng BNA ICC, 50 PPM | SP6724 | 01/30/2025 | 05/12/2025 | Jagrut Upadhyay | None | None | Shreena Patel 02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6721 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 410 | 40 ng BNA ICC, 40 PPM | SP6725 | 01/30/2025 | 05/12/2025 | Jagrut Upadhyay | None | None | Shreena Patel 02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.60000ml of E3874 + 0.40000ml of SP6721 = Final Quantity: 1.010 ml

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# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3678 | 20 ng BNA ICC, 20 PPM | SP6726 | 01/30/2025 | 05/12/2025 | Jagrut Upadhyay | None | None | Shreena Patel 02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.80000ml of E3874 + 0.20000ml of SP6721 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 408 | 10 ng BNA ICC, 10 PPM | SP6727 | 01/30/2025 | 05/12/2025 | Jagrut Upadhyay | None | None | Shreena Patel 02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.90000ml of E3874 + 0.10000ml of SP6721 = Final Quantity: 1.010 ml

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Fax : 908 789 8922

# SVOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 407 | 5 ng BNA ICC, 5 PPM | SP6728 | 01/30/2025 | 05/12/2025 | Jagrut Upadhyay | None | None | Shreena Patel 02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.95000ml of E3874 + 0.05000ml of SP6721 = Final Quantity: 1.010 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 175 | 2.5 ng BNA ICC, 2.5 PPM | SP6729 | 01/30/2025 | 05/12/2025 | Jagrut Upadhyay | None | None | Shreena Patel 02/07/2025 |

**FROM** 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6728 = Final Quantity: 1.010 ml

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-3382-05 / Sand, Purified (cs/4x2.5kg) | 0000243821 | 06/30/2025 | 04/30/2020 / RAJESH | 04/28/2020 / RAJESH | E2865 |

| 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 # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 04/04/2025 | 10/04/2024 / Rajesh | 10/04/2024 / Rajesh | E3815 |

| 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-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H2762008 | 06/26/2025 | 12/26/2024 / Rajesh | 12/13/2024 / Rajesh | E3846 |

| 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 | 07/14/2025 | 01/14/2025 / Rajesh | 12/27/2024 / Rajesh | E3871 |

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# 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) | 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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24K1762005 | 08/14/2025 | 02/14/2025 / Rajesh | 12/27/2024 / Rajesh | E3878 |

| 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 | 31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL, | A0182667 | 03/31/2025 | 01/15/2025 / Rahul | 03/18/2022 / Christian | S10246 |

| 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 |

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# CHEMICAL RECEIPT LOG BOOK

| 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 | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0188108 | 04/10/2025 | 10/10/2024 / anahy | 12/28/2022 / Christian | S10978 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0188108 | 04/10/2025 | 10/10/2024 / anahy | 12/28/2022 / Christian | S10979 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0188108 | 04/10/2025 | 10/10/2024 / anahy | 12/28/2022 / Christian | S10980 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0189418 | 04/10/2025 | 10/10/2024 / anahy | 12/28/2022 / Christian | S11004 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0189418 | 04/10/2025 | 10/10/2024 / anahy | 12/28/2022 / Christian | S11005 |

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# 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 5000ug/ml,CH2Cl2,5ml | A0189418 | 04/10/2025 | 10/10/2024 / anahy | 12/28/2022 / Christian | S11006 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0189418 | 04/10/2025 | 10/10/2024 / anahy | 12/28/2022 / Christian | S11007 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0189418 | 04/10/2025 | 10/10/2024 / anahy | 12/28/2022 / Christian | S11008 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0189418 | 04/10/2025 | 10/10/2024 / anahy | 12/28/2022 / Christian | S11009 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0189418 | 04/10/2025 | 10/10/2024 / anahy | 12/28/2022 / Christian | S11010 |

| 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 |

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# 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 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days) | 406703 | 07/30/2025 | 01/30/2025 / anahy | 02/07/2023 / Christian | S11087 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2] | A0194702 | 07/29/2025 | 01/29/2025 / anahy | 02/20/2023 / Christian | S11143 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days) | 414125 | 06/21/2025 | 01/30/2025 / anahy | 03/06/2023 / Christian | S11161 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3] | A0200549 | 08/31/2026 | 01/29/2025 / anahy | 08/10/2023 / yogesh | S11487 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| CPI International | Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml | 506889 | 05/12/2025 | 11/12/2024 / Jagrut | 08/11/2023 / Yogesh | S11495 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555872 / Custom Standard, pentachlorophenol Std [CS 5328-5] | A0201728 | 07/29/2025 | 01/29/2025 / anahy | 11/09/2023 / Yogesh | S11650 |

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# 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 | 06/26/2025 | 12/26/2024 / Jagrut | 11/21/2023 / Rahul | S11781 |

| 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 | S11782 |

| 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 | S11783 |

| 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 | S11784 |

| 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 # |
|---|---|---|---|---|---|---|
| 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 |

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# 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, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0203726 | 04/30/2025 | 11/14/2024 / anahy | 03/15/2024 / Rahul | S12142 |

| 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, CH2Cl2 [New Solvent 100% CH2Cl2] | A0203726 | 04/30/2025 | 01/29/2025 / anahy | 03/15/2024 / Rahul | S12143 |

| 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, CH2Cl2 [New Solvent 100% CH2Cl2] | A0203726 | 04/30/2025 | 01/29/2025 / anahy | 03/15/2024 / Rahul | S12144 |

| 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, CH2Cl2 [New Solvent 100% CH2Cl2] | A0203726 | 04/30/2025 | 01/29/2025 / anahy | 03/15/2024 / Rahul | S12145 |

| 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, CH2Cl2 [New Solvent 100% CH2Cl2] | A0203726 | 04/30/2025 | 01/29/2025 / anahy | 03/15/2024 / Rahul | S12146 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 04/10/2025 | 10/10/2024 / anahy | 03/15/2024 / Rahul | S12187 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 04/10/2025 | 10/10/2024 / anahy | 03/15/2024 / Rahul | S12188 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul | A0206206 | 04/10/2025 | 10/10/2024 / anahy | 03/15/2024 / Rahul | S12189 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0206381 | 04/10/2025 | 10/10/2024 / anahy | 03/15/2024 / Rahul | S12207 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml | A0206381 | 05/15/2025 | 11/15/2024 / Jagrut | 03/15/2024 / Rahul | S12208 |

| 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 |

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# 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, CH2Cl2, 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] [CS 4978-1] | A0214021 | 05/14/2025 | 11/14/2024 / anahy | 07/23/2024 / RAHUL | S12469 |

| 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] [CS 4978-1] | A0214021 | 05/26/2025 | 11/26/2024 / Jagrut | 07/23/2024 / RAHUL | S12470 |

| 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] [CS 4978-1] | A0214021 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12471 |

| 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] [CS 4978-1] | A0214021 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12472 |

| 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] [CS 4978-1] | A0214021 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12473 |

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# CHEMICAL RECEIPT LOG BOOK

| 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] [CS 4978-1] | A0214021 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12474 |

| 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] [CS 4978-1] | A0214021 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12475 |

| 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] [CS 4978-1] | A0214021 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12476 |

| 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] [CS 4978-1] | A0214021 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12477 |

| 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] [CS 4978-1] | A0214021 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12478 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 05/14/2025 | 11/14/2024 / anahy | 07/23/2024 / RAHUL | S12517 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 07/03/2025 | 01/03/2025 / Jagrut | 07/23/2024 / RAHUL | S12518 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12519 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12520 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12521 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12522 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12523 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12524 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2] | A0214017 | 07/29/2025 | 01/29/2025 / anahy | 07/23/2024 / RAHUL | S12525 |

| 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, CH2Cl2, 1mL | A0212266 | 07/21/2025 | 01/21/2025 / anahy | 09/20/2024 / anahy | S12649 |

| 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, CH2Cl2, 1mL | A0212266 | 08/25/2025 | 02/25/2025 / anahy | 09/20/2024 / anahy | S12653 |

| 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, CH2Cl2 [New Solvent 100% CH2Cl2] | A0219438 | 07/29/2025 | 01/29/2025 / anahy | 12/11/2024 / anahy | S12963 |

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

# 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, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2] | A0219438 | 07/29/2025 | 01/29/2025 / anahy | 12/11/2024 / anahy | S12964 |

| 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, CH2Cl2 [New Solvent 100% CH2Cl2] | A0219438 | 07/29/2025 | 01/29/2025 / anahy | 12/11/2024 / anahy | S12965 |

| 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, CH2Cl2 [New Solvent 100% CH2Cl2] | A0219438 | 07/29/2025 | 01/29/2025 / anahy | 12/11/2024 / anahy | S12966 |

CPI INTERNATIONAL

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(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 

| 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 gravimetricllly.

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# Certificate of Analysis

Rev 0 

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| 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 gravimetricly.

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by TUV USA to ISO 9001:2015

Date Received: _____

# Certificate of Analysis

Rev 0 

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-112090-04 | 440246 | ≤ -10 °C | Methylene Chloride | 2/16/2026 | CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 2-chlorophenol-$d_4$ | 93951-73-6 | 99.3 | 248.12.7P | 7487 ± 17.2 |
| 2-fluorophenol | 367-12-4 | 99.8 | 10.7.3.3P | 7513 ± 17.26 |
| phenol-d6 | 13127-88-3 | 99.9 | 949.120.8P | 7481 ± 17.19 |
| 2,4,6-tribromophenol | 118-79-6 | 99.8 | 12.1.6P | 7469 ± 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

Certified By: Erica Castiglione

Erica Castiglione
**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 gravimetricly.

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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.*

Received on 03/08/22 by CG S10242 to S10247

**Catalog No. :** 31615 **Lot No.:** A0182667

**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 :** March 31, 2025 **Storage:** 10°C or colder

**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Pentachlorophenol<br>**CAS #** 87-86-5 (Lot 211229RSR)<br>**Purity** 99% | 1,003.6 µg/mL | +/- 5.8897 µg/mL<br>+/- 45.7132 µg/mL<br>+/- 66.0037 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | DFTPP (Decafluorotriphenylphosphine)<br>**CAS #** 5074-71-5 (Lot Q117-147)<br>**Purity** 95% | 1,006.6 µg/mL | +/- 5.9074 µg/mL<br>+/- 45.8508 µg/mL<br>+/- 66.2023 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | Benzidine<br>**CAS #** 92-87-5 (Lot 211228JLM)<br>**Purity** 99% | 1,008.4 µg/mL | +/- 5.9179 µg/mL<br>+/- 45.9318 µg/mL<br>+/- 66.3193 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 4 | 4,4'-DDT<br>**CAS #** 50-29-3 (Lot 210916JLM)<br>**Purity** 99% | 1,007.6 µg/mL | +/- 5.9132 µg/mL<br>+/- 45.8954 µg/mL<br>+/- 66.2667 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

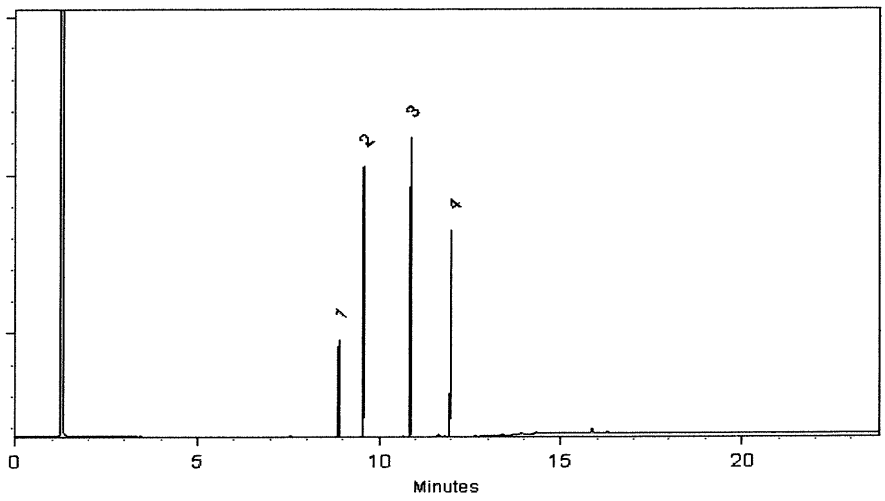
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**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




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.

Morgan Craighead - Mix Technician

**Date Mixed:** 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

**Date Passed:** 10-Mar-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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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.*

Received by CG on 05/19/22

S10393 to S10402

**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

### 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 (Lot MKCN1089) | | +/- 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
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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:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

*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 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.
- 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.

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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.*

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 Suckar - 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/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:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

*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 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.
- 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.

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Received on 02/06/23 by CG

S11071 to S11075

**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 | 2,019.0 µg/mL | +/- 11.8486 | µg/mL | Gravimetric |
| | **CAS #** 123-91-1 (Lot SHBN5929) | | +/- 43.2570 | µg/mL | Unstressed |
| | **Purity** 99% | | +/- 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)

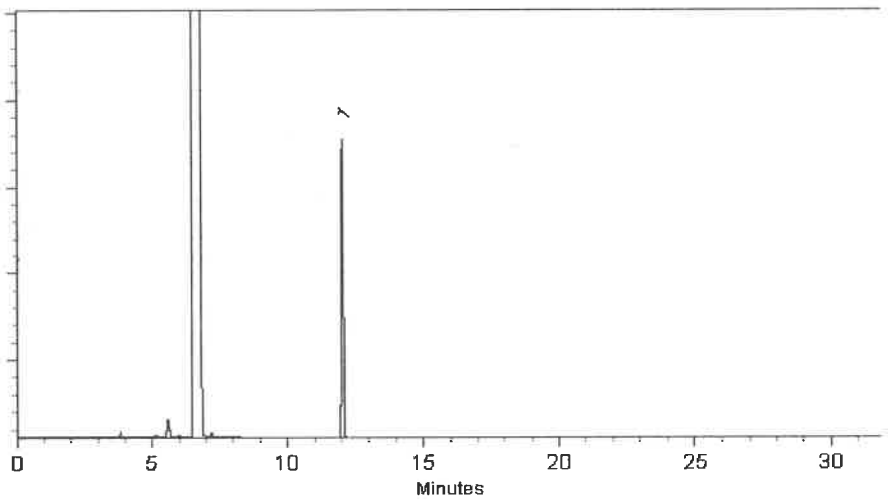
**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**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**

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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.*

Received by CG on 12/28/22 S10951 to S10980

**Catalog No. :** 31087 **Lot No.:** A0188108

**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 :** August 31, 2030 **Storage:** 10°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|---|
| 1 | 2-Fluorophenol<br>**CAS #** 367-12-4<br>**Purity** 99% | (Lot STBF3761V) | 10,088.5 µg/mL | +/- 58.6554 µg/mL<br>+/- 294.4162 µg/mL<br>+/- 357.2628 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |
| 2 | Phenol-d6<br>**CAS #** 13127-88-3<br>**Purity** 99% | (Lot PR-31262) | 10,043.3 µg/mL | +/- 58.3923 µg/mL<br>+/- 293.0957 µg/mL<br>+/- 355.6603 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |
| 3 | 2,4,6-Tribromophenol<br>**CAS #** 118-79-6<br>**Purity** 99% | (Lot MKCJ7664) | 10,010.0 µg/mL | +/- 58.1990 µg/mL<br>+/- 292.1253 µg/mL<br>+/- 354.4829 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

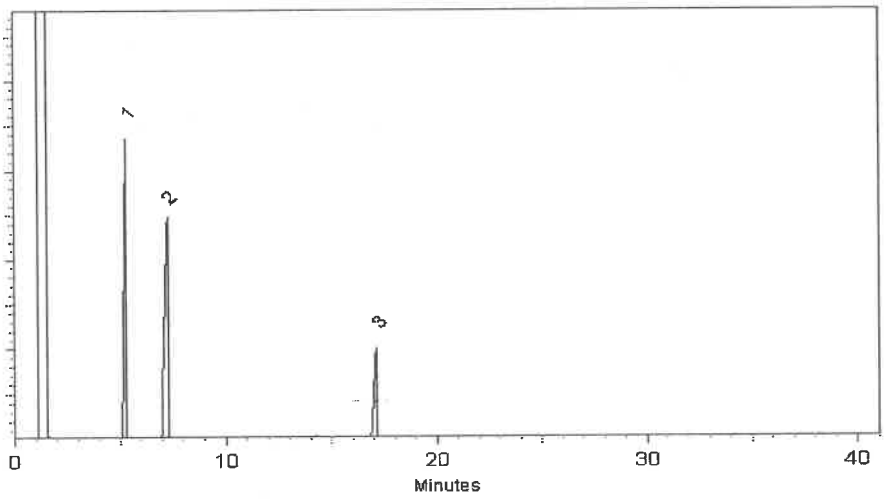
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**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




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.

Morgan Craighead - Mix Technician

**Date Mixed:** 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 05-Aug-2022

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Received by CG on 12/28/22 S10951 to S10980

**Catalog No. :** 31087 **Lot No.:** A0188108

**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 :** August 31, 2030 **Storage:** 10°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|---|
| 1 | 2-Fluorophenol<br>**CAS #** 367-12-4<br>**Purity** 99% | (Lot STBF3761V) | 10,088.5 µg/mL | +/- 58.6554 µg/mL<br>+/- 294.4162 µg/mL<br>+/- 357.2628 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |
| 2 | Phenol-d6<br>**CAS #** 13127-88-3<br>**Purity** 99% | (Lot PR-31262) | 10,043.3 µg/mL | +/- 58.3923 µg/mL<br>+/- 293.0957 µg/mL<br>+/- 355.6603 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |
| 3 | 2,4,6-Tribromophenol<br>**CAS #** 118-79-6<br>**Purity** 99% | (Lot MKCJ7664) | 10,010.0 µg/mL | +/- 58.1990 µg/mL<br>+/- 292.1253 µg/mL<br>+/- 354.4829 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

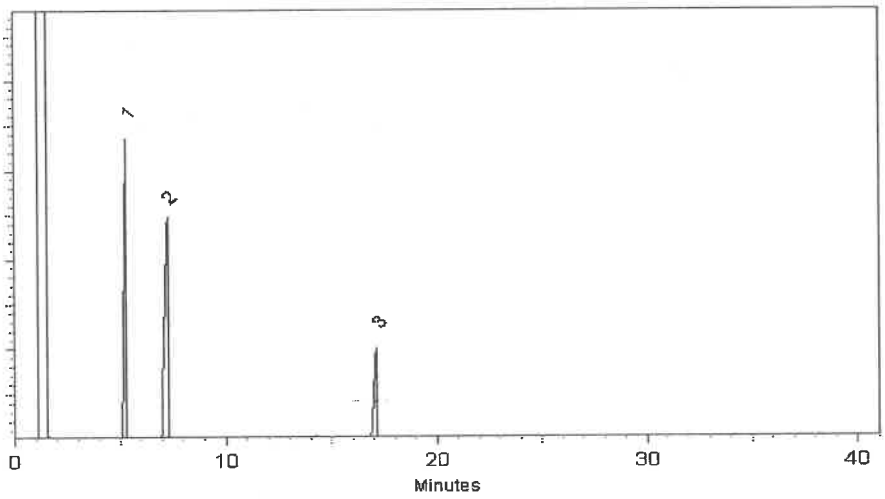
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**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




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Morgan Craighead - Mix Technician

**Date Mixed:** 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 05-Aug-2022

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**Catalog No. :** 31087 **Lot No.:** A0188108

**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 :** August 31, 2030 **Storage:** 10°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|---|
| 1 | 2-Fluorophenol<br>**CAS #** 367-12-4<br>**Purity** 99% | (Lot STBF3761V) | 10,088.5 µg/mL | +/- 58.6554 µg/mL<br>+/- 294.4162 µg/mL<br>+/- 357.2628 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |
| 2 | Phenol-d6<br>**CAS #** 13127-88-3<br>**Purity** 99% | (Lot PR-31262) | 10,043.3 µg/mL | +/- 58.3923 µg/mL<br>+/- 293.0957 µg/mL<br>+/- 355.6603 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |
| 3 | 2,4,6-Tribromophenol<br>**CAS #** 118-79-6<br>**Purity** 99% | (Lot MKCJ7664) | 10,010.0 µg/mL | +/- 58.1990 µg/mL<br>+/- 292.1253 µg/mL<br>+/- 354.4829 µg/mL | | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methanol
**CAS #** 67-56-1
**Purity** 99%

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

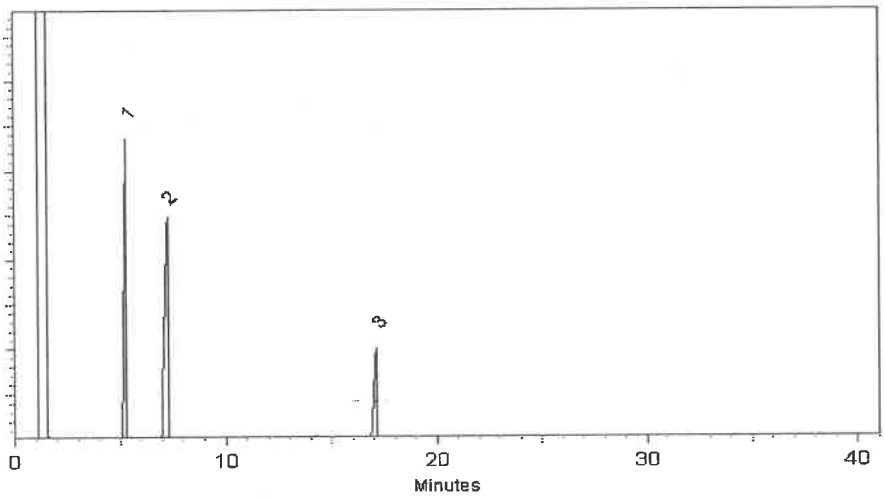
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
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**Inj. Temp:**
250°C

**Det. Temp:**
330°C

**Det. Type:**
FID




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Morgan Craighead - Mix Technician

**Date Mixed:** 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 05-Aug-2022

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Received by CG on 12/28/22 $10981 to $11010

**Catalog No. :** 31086 **Lot No.:** A0189418

**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 :** August 31, 2028 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Nitrobenzene-d5<br>**CAS #** 4165-60-0 (Lot PR-29940A)<br>**Purity** 99% | 5,009.8 µg/mL | +/- 29.1271 µg/mL<br>+/- 225.6421 µg/mL<br>+/- 250.3778 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | 2-Fluorobiphenyl<br>**CAS #** 321-60-8 (Lot 00021384)<br>**Purity** 99% | 5,026.6 µg/mL | +/- 29.2250 µg/mL<br>+/- 226.4003 µg/mL<br>+/- 251.2191 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | p-Terphenyl-d14<br>**CAS #** 1718-51-0 (Lot PR-30504)<br>**Purity** 99% | 5,027.3 µg/mL | +/- 29.2289 µg/mL<br>+/- 226.4304 µg/mL<br>+/- 251.2524 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**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.

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

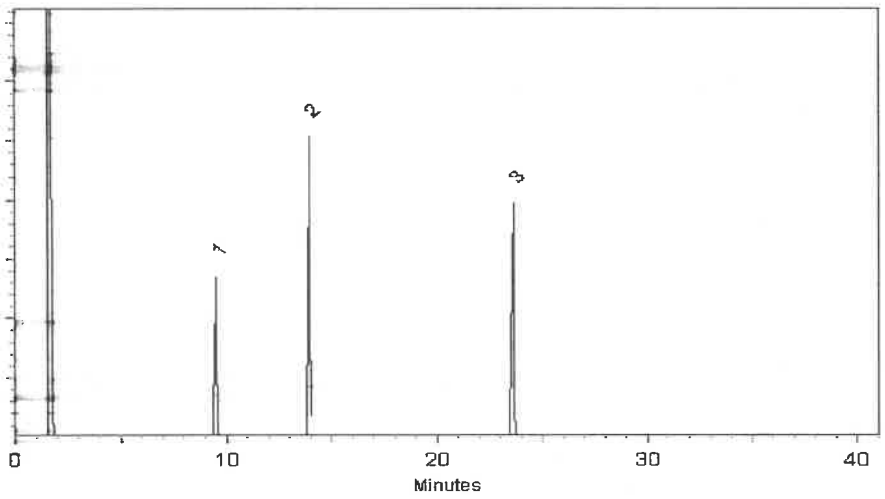
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**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




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John Friedline - Operations Technician I

**Date Mixed:** 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 13-Sep-2022

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Received by CG on 12/28/22 $10981 to $11010

**Catalog No. :** 31086 **Lot No.:** A0189418

**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 :** August 31, 2028 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Nitrobenzene-d5<br>**CAS #** 4165-60-0 (Lot PR-29940A)<br>**Purity** 99% | 5,009.8 µg/mL | +/- 29.1271 µg/mL<br>+/- 225.6421 µg/mL<br>+/- 250.3778 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | 2-Fluorobiphenyl<br>**CAS #** 321-60-8 (Lot 00021384)<br>**Purity** 99% | 5,026.6 µg/mL | +/- 29.2250 µg/mL<br>+/- 226.4003 µg/mL<br>+/- 251.2191 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | p-Terphenyl-d14<br>**CAS #** 1718-51-0 (Lot PR-30504)<br>**Purity** 99% | 5,027.3 µg/mL | +/- 29.2289 µg/mL<br>+/- 226.4304 µg/mL<br>+/- 251.2524 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**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.

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

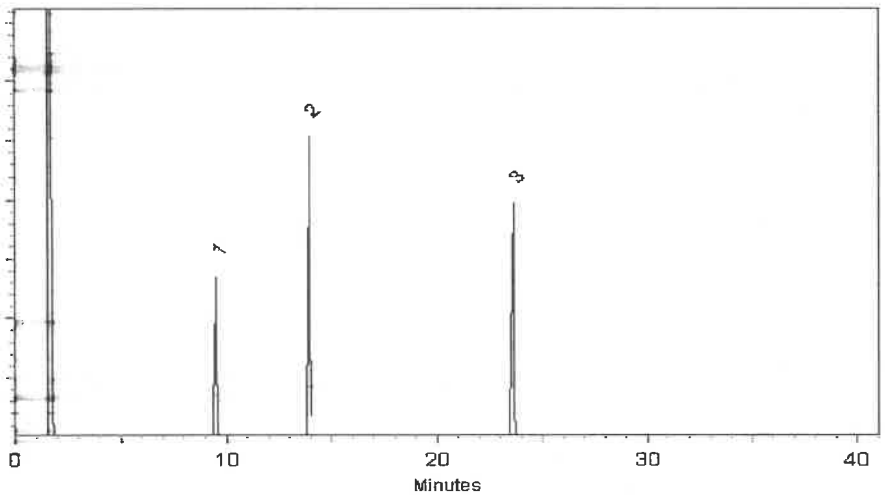
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
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John Friedline - Operations Technician I

**Date Mixed:** 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 13-Sep-2022

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Received by CG on 12/28/22 $10981 to $11010

**Catalog No. :** 31086 **Lot No.:** A0189418

**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 :** August 31, 2028 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
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| 2 | 2-Fluorobiphenyl<br>**CAS #** 321-60-8 (Lot 00021384)<br>**Purity** 99% | 5,026.6 µg/mL | +/- 29.2250 µg/mL<br>+/- 226.4003 µg/mL<br>+/- 251.2191 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | p-Terphenyl-d14<br>**CAS #** 1718-51-0 (Lot PR-30504)<br>**Purity** 99% | 5,027.3 µg/mL | +/- 29.2289 µg/mL<br>+/- 226.4304 µg/mL<br>+/- 251.2524 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**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.

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

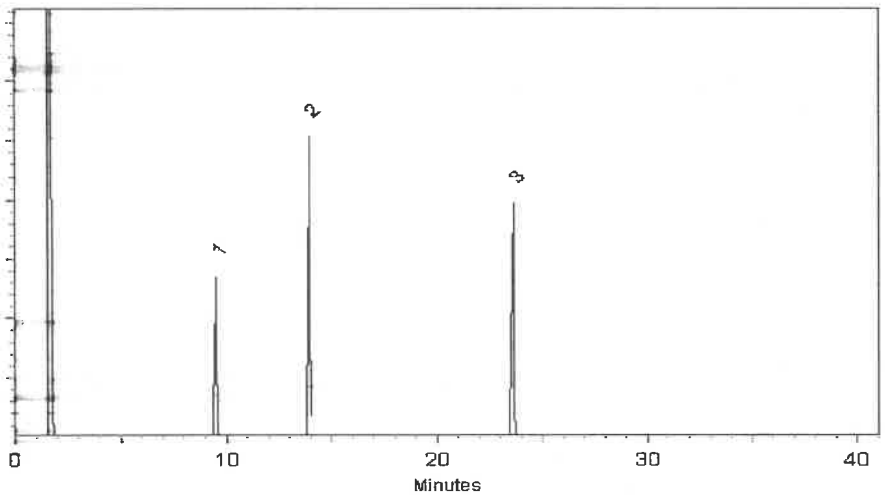
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**Temp. Program:**
40°C (hold 2 min.) to 330°C
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**Inj. Temp:**
250°C

**Det. Temp:**
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**Det. Type:**
FID




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John Friedline - Operations Technician I

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Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 13-Sep-2022

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**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
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**Column:**
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Rtx-5 (cat.#10223)

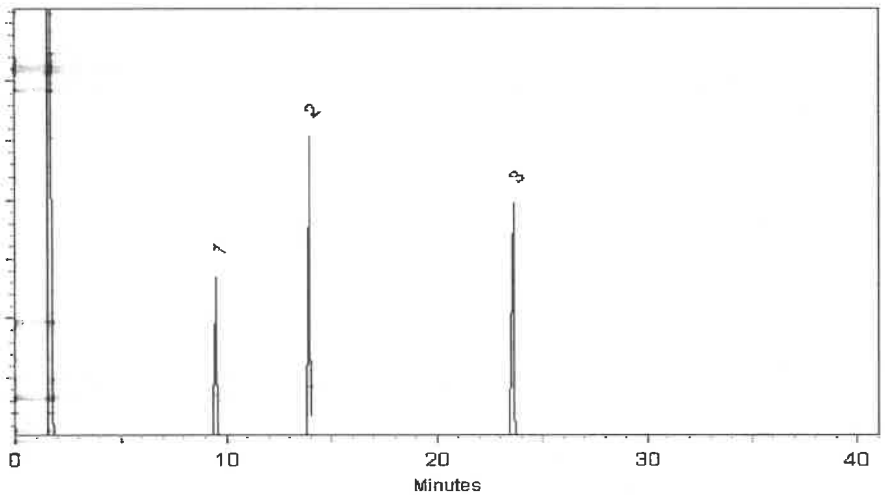
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John Friedline - Operations Technician I

**Date Mixed:** 09-Sep-2022 **Balance:** 1128353505

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| 2 | 2-Fluorobiphenyl<br>**CAS #** 321-60-8 (Lot 00021384)<br>**Purity** 99% | 5,026.6 µg/mL | +/- 29.2250 µg/mL<br>+/- 226.4003 µg/mL<br>+/- 251.2191 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | p-Terphenyl-d14<br>**CAS #** 1718-51-0 (Lot PR-30504)<br>**Purity** 99% | 5,027.3 µg/mL | +/- 29.2289 µg/mL<br>+/- 226.4304 µg/mL<br>+/- 251.2524 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

**Tech Tips:**
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**Column:**
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Rtx-5 (cat.#10223)

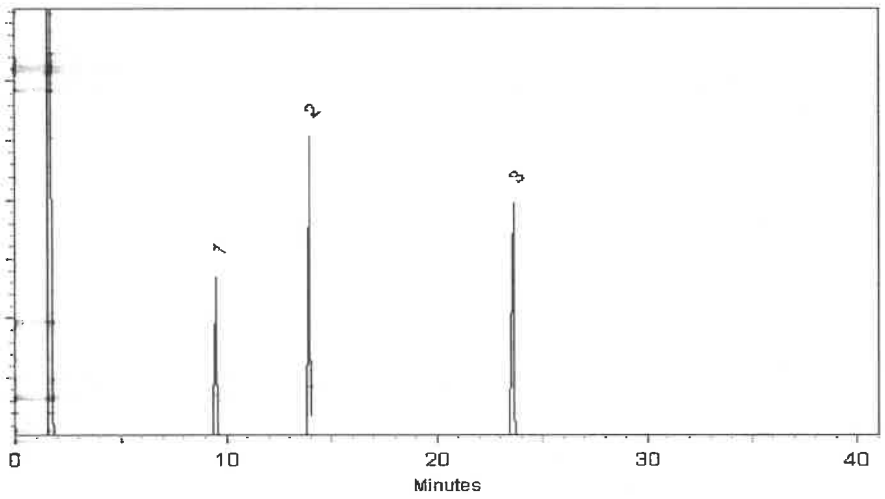
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**Temp. Program:**
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**Inj. Temp:**
250°C

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330°C

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John Friedline - Operations Technician I

**Date Mixed:** 09-Sep-2022 **Balance:** 1128353505

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Testing Laboratory
Certificate #3222.02

**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 12/28/22 $10981 to $11010

**Catalog No. :** 31086 **Lot No.:** A0189418

**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 :** August 31, 2028 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Nitrobenzene-d5<br>**CAS #** 4165-60-0 (Lot PR-29940A)<br>**Purity** 99% | 5,009.8 µg/mL | +/- 29.1271 µg/mL<br>+/- 225.6421 µg/mL<br>+/- 250.3778 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | 2-Fluorobiphenyl<br>**CAS #** 321-60-8 (Lot 00021384)<br>**Purity** 99% | 5,026.6 µg/mL | +/- 29.2250 µg/mL<br>+/- 226.4003 µg/mL<br>+/- 251.2191 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | p-Terphenyl-d14<br>**CAS #** 1718-51-0 (Lot PR-30504)<br>**Purity** 99% | 5,027.3 µg/mL | +/- 29.2289 µg/mL<br>+/- 226.4304 µg/mL<br>+/- 251.2524 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**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.

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

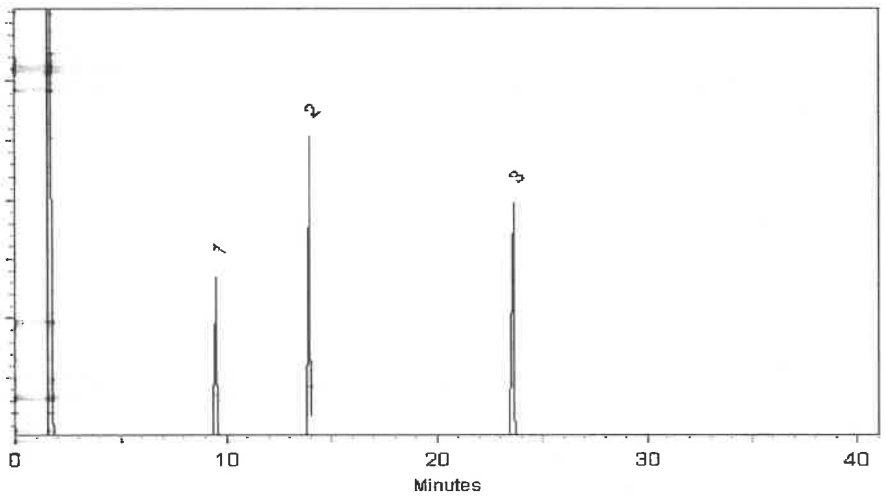
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**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




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.

John Friedline - Operations Technician I

**Date Mixed:** 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 13-Sep-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**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 12/28/22 $10981 to $11010

**Catalog No. :** 31086 **Lot No.:** A0189418

**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 :** August 31, 2028 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Nitrobenzene-d5<br>**CAS #** 4165-60-0 (Lot PR-29940A)<br>**Purity** 99% | 5,009.8 µg/mL | +/- 29.1271 µg/mL<br>+/- 225.6421 µg/mL<br>+/- 250.3778 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2 | 2-Fluorobiphenyl<br>**CAS #** 321-60-8 (Lot 00021384)<br>**Purity** 99% | 5,026.6 µg/mL | +/- 29.2250 µg/mL<br>+/- 226.4003 µg/mL<br>+/- 251.2191 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3 | p-Terphenyl-d14<br>**CAS #** 1718-51-0 (Lot PR-30504)<br>**Purity** 99% | 5,027.3 µg/mL | +/- 29.2289 µg/mL<br>+/- 226.4304 µg/mL<br>+/- 251.2524 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

**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.

**Column:**
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

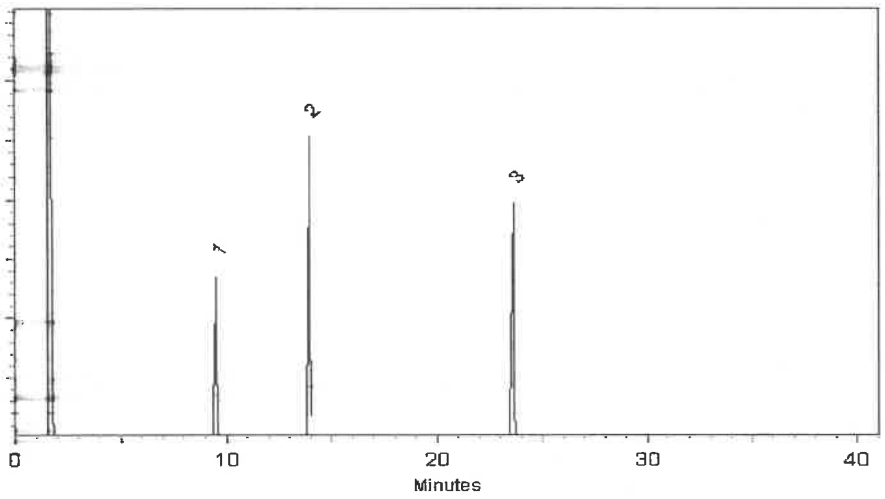
**Carrier Gas:**
hydrogen-constant pressure 10 psi.

**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




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.

John Friedline - Operations Technician I

**Date Mixed:** 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 13-Sep-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

RESTEK
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 #FM

# tified 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.

lues 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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage 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 ı, 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

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Substances Soluble in HCl | <= 0.16 % | 0.01 |

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865

James T Ethier

Jamie Ethier
Vice President Global Quality

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

PRODUCTOS QUIMICOS 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 : | $Na_2SO_4$ |
| SPECIFICATION NUMBER : | 6399 | RELEASE DATE: | ABR/21/2023 |
| LOT NUMBER : | 313201 | | |

| TEST | SPECIFICATIONS | LOT VALUES |
|---|---|---|
| Assay ($Na_2SO_4$) | 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 ($PO_4$) | 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 foreing 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.

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected forwater) | >= 99.4 % | 99.8 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.2 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | <= 0.3 | 0.2 |
| Titrable Base (µeq/g) | <= 0.6 | <0.1 |
| Water ($H_2O$) | <= 0.5 % | 0.2 % |
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | <1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) 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 & DC

E3815

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

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) | <= 5 | 2 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 1 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | >= 99.8 % | 100.0 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.2 ppm |
| Titrable Acid (µeq/g) | <= 0.3 | <0.1 |
| Chloride (Cl) | <= 10 ppm | <5 ppm |
| Water (by KF, coulometric) | <= 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

JCroak

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

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 ($(CH_3)_2CO$) (by GC, corrected forwater) | >= 99.4 % | 100.0 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.0 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | <= 0.3 | 0.2 |
| Titrable Base (µeq/g) | <= 0.6 | <0.1 |
| Water ($H_2O$) | <= 0.5 % | <0.1 % |
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | 1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) 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 & DC

Recd by RP on 12/13/24

E 3846

JCroak

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

12/9-1/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | 1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 2 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | >= 99.8 % | 100.0 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.5 ppm |
| Titrable Acid (µeq/g) | <= 0.3 | 0.0 |
| Chloride (Cl) | <= 10 ppm | <5 ppm |
| Water (by KF, coulometric) | <= 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 3871

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

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

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) | <= 5 | 1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 4 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | >= 99.8 % | 99.9 % |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0 ppm | 0.8 ppm |
| Titrable Acid (µeq/g) | <= 0.3 | <0.1 |
| Chloride (Cl) | <= 10 ppm | <5 ppm |
| Water (by KF, coulometric) | <= 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

avantor™ | J.T.Baker

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 ($(CH_3)_2CO$) (by GC, corrected forwater) | >= 99.4 % | 100.0 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.0 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | <= 0.3 | 0.2 |
| Titrable Base (µeq/g) | <= 0.6 | <0.1 |
| Water ($H_2O$) | <= 0.5 % | <0.1 % |
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | 1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) 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 & DC

Recd. by RP on 2/12/25

E 3876

JCroak
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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | 1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 2 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | >= 99.8 % | 100.0 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.5 ppm |
| Titrable Acid (µeq/g) | <= 0.3 | 0.0 |
| Chloride (Cl) | <= 10 ppm | <5 ppm |
| Water (by KF, coulometric) | <= 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 3878

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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RESTEK

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***

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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S11484 ↓ S11493 Y.P. 08/10/23

**Catalog No. :** 555870 **Lot No.:** A0200549

**Description :** Custom 2,4-Dinitrophenol Standard

Custom 2,4-Dinitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 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 | 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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ 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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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CPI INTERNATIONAL

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 

| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| Z-110094-02 | 506889 | ≤ -10 °C | Methylene Chloride | 7/25/2028 | CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml |

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 1,2-dichlorobenzene-$d_4$ | 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 to 511498 } Y.P. 08/11/2023

*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 gravimetricly.

RESTEK
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***

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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 ↓ 511658 Y.P. 11/13/23

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  *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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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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.)

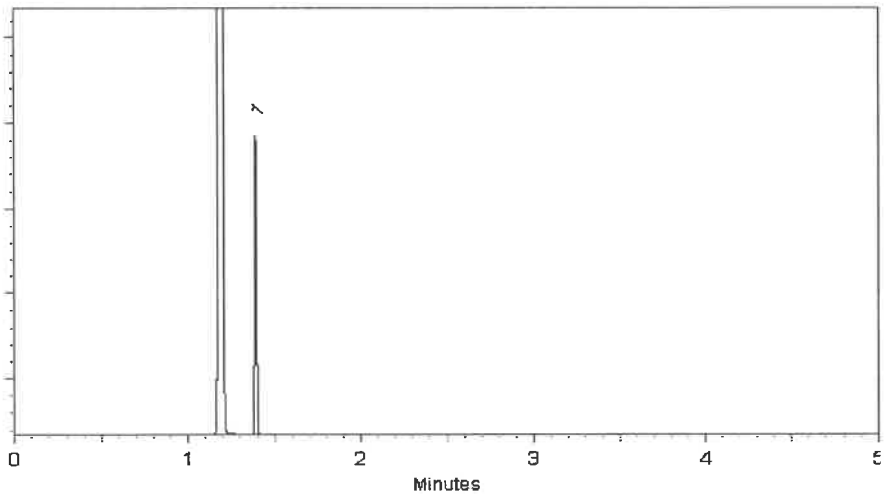
**Inj. Temp:**
250°C

**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 - Operations Tech I

**Date Mixed:** 30-Mar-2023 **Balance Serial #** B707717271

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ 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*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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.)

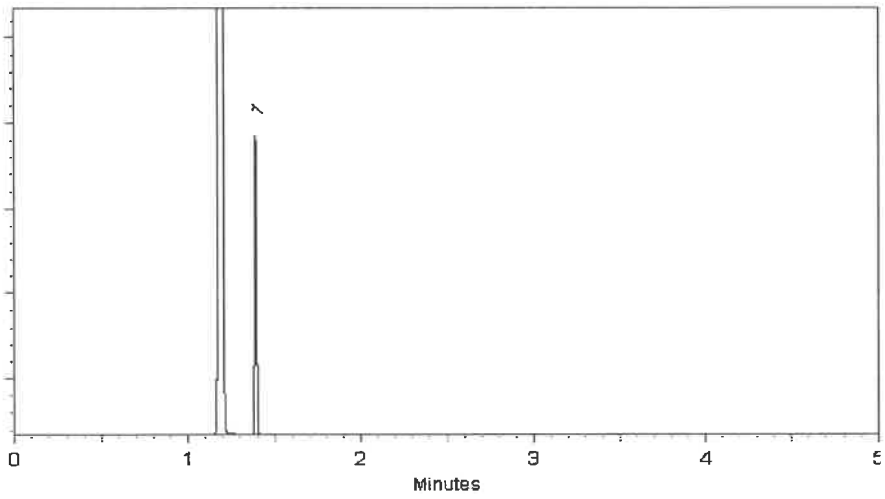
**Inj. Temp:**
250°C

**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 - Operations Tech I

**Date Mixed:** 30-Mar-2023 **Balance Serial #** B707717271

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ 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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www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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.)

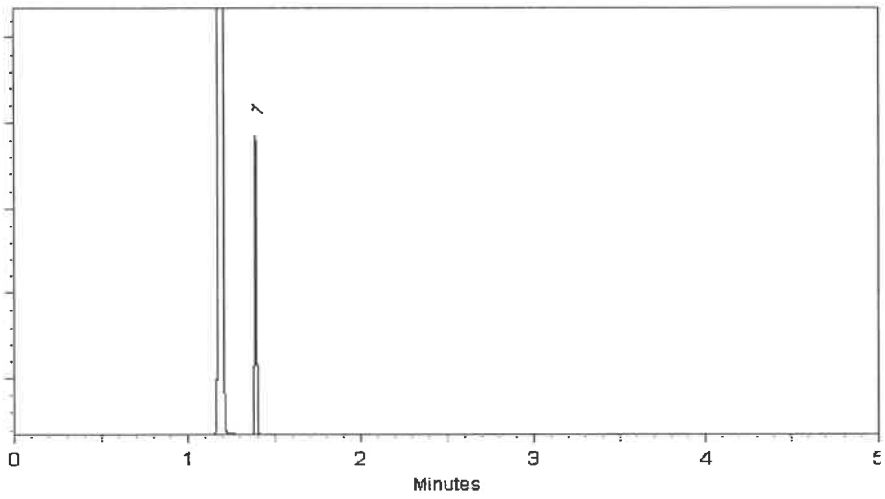
**Inj. Temp:**
250°C

**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 - Operations Tech I

**Date Mixed:** 30-Mar-2023 **Balance Serial #** B707717271

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:

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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:

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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*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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.)

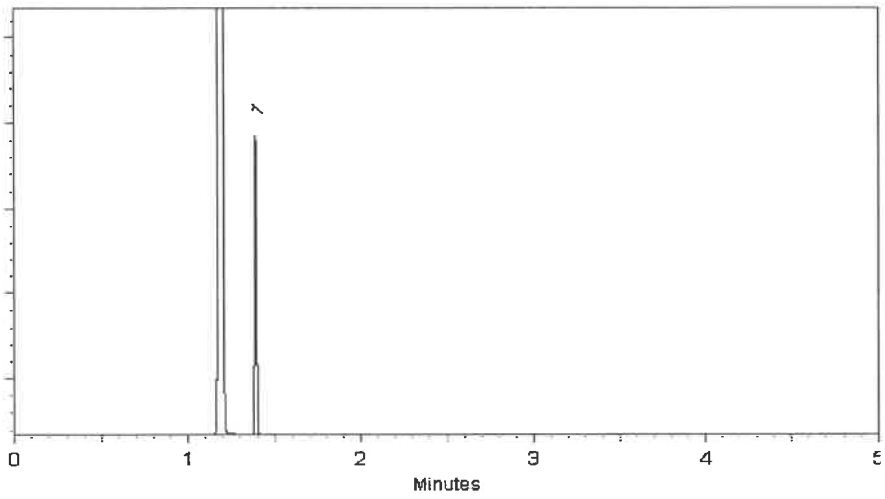
**Inj. Temp:**
250°C

**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 - Operations Tech I

**Date Mixed:** 30-Mar-2023 **Balance Serial #** B707717271

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 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.

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

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**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.)

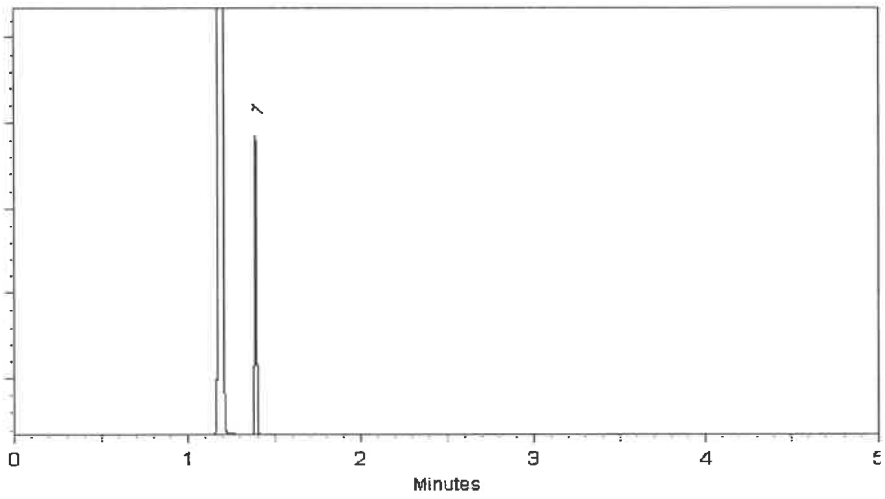
**Inj. Temp:**
250°C

**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 - Operations Tech I

**Date Mixed:** 30-Mar-2023 **Balance Serial #** B707717271

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ 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.

CPI INTERNATIONAL

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



| 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, 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 |

S12112 ↓ S12116 } RC/ 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 gravimetricly.

RESTEK
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

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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

S12117 ↓ S12146 RC/ 03/18/24

**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

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 | BCCK0887 | 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%

RESTEK
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

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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

S12117 ↓ S12146 RC/ 03/18/24

**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

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 | BCCK0887 | 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%

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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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

S12117 ↓ S12146 RC/ 03/18/24

**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

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 | BCCK0887 | 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%

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Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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

S12117 ↓ S12146 RC/ 03/18/24

**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

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 | BCCK0887 | 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%

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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.:** A0203726

**Description :** 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

**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

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 | BCCK0887 | 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%

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Certificate #3222.02

**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

S12187 ↓ S12206 } RC/ 03/18/24

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder

**Ship:** Ambient

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.)

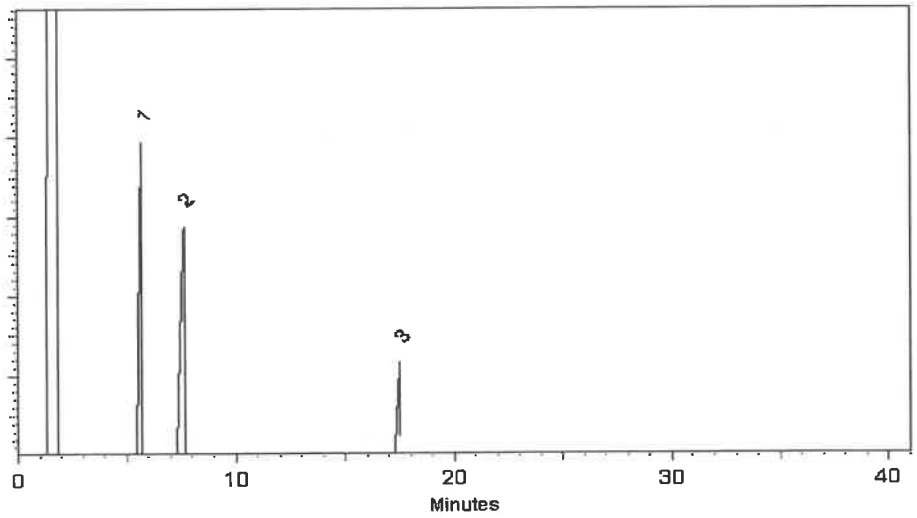
**Inj. Temp:**
250°C

**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 Riglin - Operations Tech I

**Date Mixed:** 04-Jan-2024 **Balance Serial #** 1128360905

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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Certificate #3222.02

**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

S12187 ↓ S12206 } RC/ 03/18/24

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.)

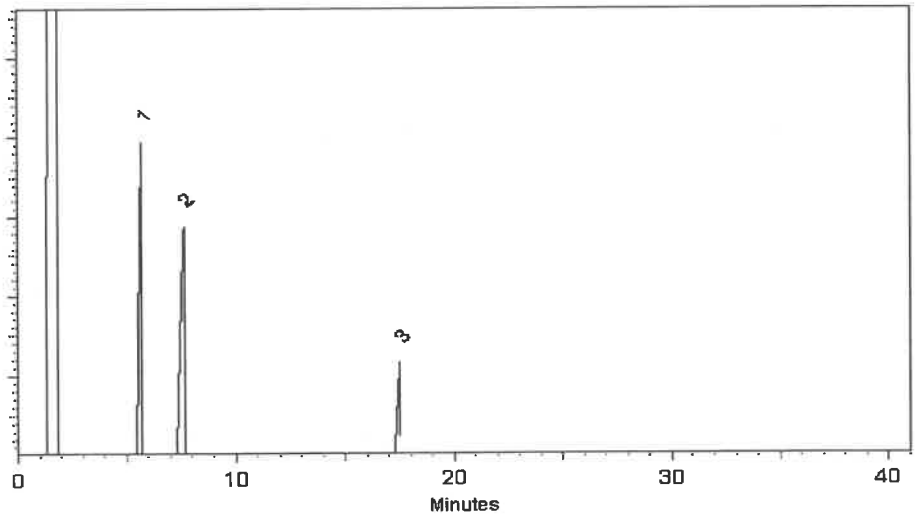
**Inj. Temp:**
250°C

**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 Riglin - Operations Tech I

**Date Mixed:** 04-Jan-2024 **Balance Serial #** 1128360905

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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Certificate #3222.02

**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

S12187 ↓ S12206 } RC/ 03/18/24

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.)

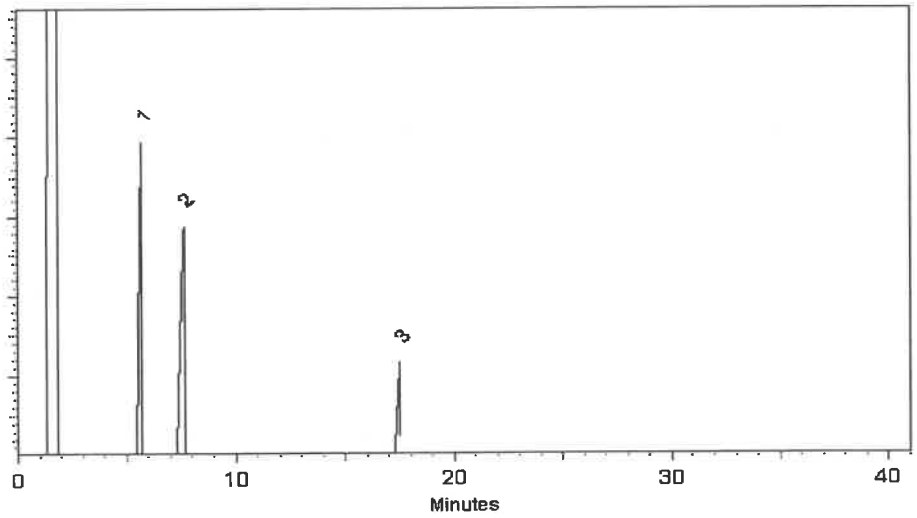
**Inj. Temp:**
250°C

**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 Riglin - Operations Tech I

**Date Mixed:** 04-Jan-2024 **Balance Serial #** 1128360905

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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**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 ↓ S12221 RC/ 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-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.)

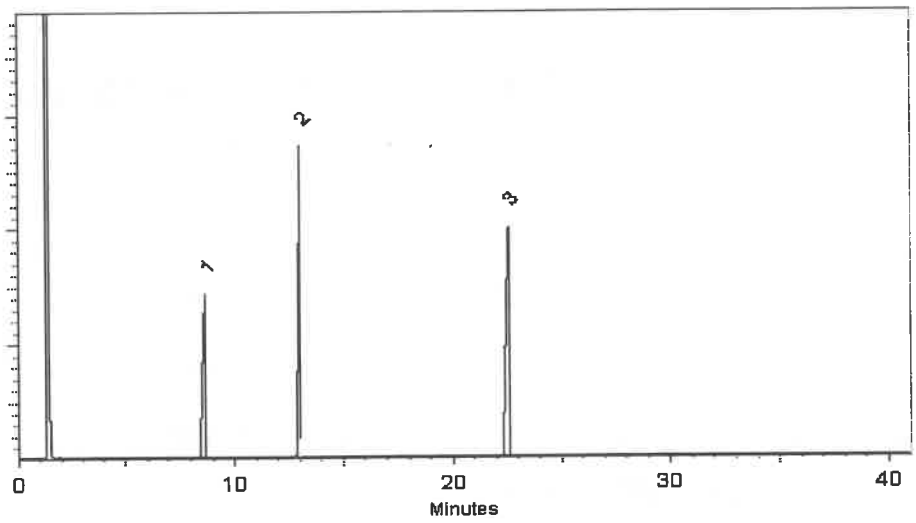
**Inj. Temp:**
250°C

**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.

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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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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 ↓ S12221 RC/ 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-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.)

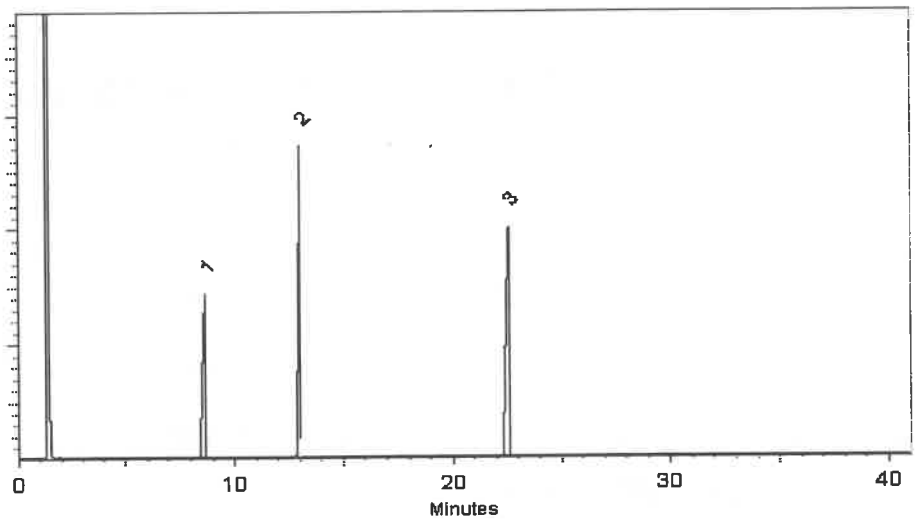
**Inj. Temp:**
250°C

**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.

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**

CPI INTERNATIONAL

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Santa Rosa, CA 95403

(707)525-5788
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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

# Certificate of Analysis

Rev 0



| Catalog No.: | Lot No.: | Storage: | Solvent: | Exp. Date: | Description: |
|---|---|---|---|---|---|
| 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 |

S12270 ↓ S12274 } RC 05/24/24

*Not a certified value

Kerry E Kane

Certified By: _____

Kerry Kane
**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 gravimetricly.

# Certificate of Analysis



**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 |

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
**Chemist**

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# Certificate of Analysis



**Catalog No.:** Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 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 |

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
**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 gravimetricly.

# Certificate of Analysis



**Catalog No.:** Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

| Compound | CAS No. | Purity (%) | Compound Lot No. | Concentration, mg/L |
|---|---|---|---|---|
| 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 |

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
**Chemist**

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CPI INTERNATIONAL

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Santa Rosa, CA 95403

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(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



| 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 |

S12275 ↓ S12279 } RC/ 05/24/24

*Not a certified value

Certified By: S. Hunter

Scott Hunter
**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 gravimetricly.

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CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

# 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.*

S12312 ↓ S12331 } RC/ 05/30/24

**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

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.)

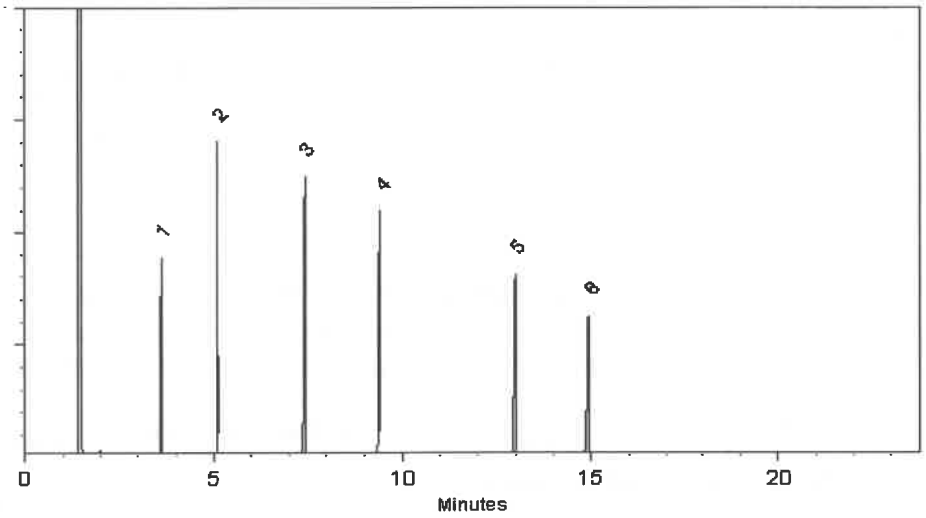
**Inj. Temp:**
250°C

**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**

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***gravimetric***

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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 ↓ S12508 } RC 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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ 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.

RESTEK
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www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***gravimetric***

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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 ↓ S12508 } RC 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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ 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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RESTEK
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***

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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 ↓ S12508 } RC 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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**CAS #** 75-09-2
**Purity** 99%

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**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**

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**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

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**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

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**Solvent:** Methylene chloride
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**Purity** 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024 **Balance:** 1128353505

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- 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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- 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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ 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

***gravimetric***

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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 ↓ S12508 } RC 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:

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- 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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*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 ↓ S12568 } RC/ 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**

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## Manufacturing Notes:

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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 ↓ S12568 } RC/ 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**

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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 ↓ S12568 } RC/ 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

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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 |
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| 5 | Biphenyl | 92-52-4 | MKCS5928 | 99% | 1,008.0 µg/mL | +/- 29.630084 |

**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12509 ↓ S12568 } RC/ 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

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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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**Solvent:** Methylene chloride
**CAS #** 75-09-2
**Purity** 99%

S12509 ↓ S12568 } RC/ 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**

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Certificate #3222.02

**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 ↓ S12568 } RC/ 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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ 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.

RESTEK
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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***gravimetric***

ISO 17034 Accredited
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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**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 ↓ S12568 } RC/ 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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ 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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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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Certificate #3222.02

**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 ↓ S12568 } RC/ 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 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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- 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:

- 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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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***gravimetric***

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**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 ↓ S12568 } RC/ 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

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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**CERTIFIED REFERENCE MATERIAL**

# Certificate of Analysis

***chromatographic plus***

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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***

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**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

CPI INTERNATIONAL

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 

| 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, 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 |

~~S12280~~ ↓ ~~S12284~~ RCI 05/24/24

New numbers Generated.

S12790 ↓ S12794 RCI 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 gravimetricly.

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**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 | BCCK6969 | 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 | BCCK0887 | 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 | BCCK2592 | 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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**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 | BCCK6969 | 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 | BCCK0887 | 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 | BCCK2592 | 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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**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 | BCCK6969 | 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 | BCCK0887 | 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 | BCCK2592 | 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.

RESTEK
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

*chromatographic plus*

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**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 | BCCK6969 | 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 | BCCK0887 | 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 | BCCK2592 | 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

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q1485
QUOTE NO. ~~P3861~~
COC Number 2046188

## CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: JPCL Engineering, LLC
ADDRESS: 2 Clerico LN, Bldg #1
CITY Hillsborough STATE: NJ ZIP: 08844
ATTENTION: PAUL Rotondi
PHONE: (609) 203-3846 FAX: N/A

## CLIENT PROJECT INFORMATION

PROJECT NAME: 2 Bridges over Bronx
PROJECT NO.: LOCATION: Bronx, NY
PROJECT MANAGER:
e-mail: PRotondi@JPCLengineering.com
PHONE: SAME FAX:

## CLIENT BILLING INFORMATION

BILL TO: SAME AS client PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

## DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

## DATA DELIVERABLE INFORMATION

☒ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

## ANALYSIS

1: SVOC 2: PEST 3: PCB 4: METALS 5: 6: 7: 8: 9:

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | NONE | | | | | | ← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER |
| 1. | DN-B-41 | Soil | X | | | | 3 | 3 | 3 | 3 | 3 | | | | | | |
| 2. | | | | | | | | | | | | | | | | | |
| 3. | | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. | 3-4-25 1520 | 1. |
| 2. | | 2. |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments: Ff. Cont #1

Page _____ of

CLIENT: ☐ Hand Delivered ☐ Other _____

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# 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 |

QA Control Code: A2070148