

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY120125\  
 Data File : VY023840.D  
 Acq On : 01 Dec 2025 13:59  
 Operator : SY/MD  
 Sample : Q3741-05  
 Misc : 4.78g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 B50-SP11-112525

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/02/2025  
 Supervised By : Mahesh Dadoda 12/02/2025

Quant Time: Dec 02 03:17:09 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y112625S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 27 01:14:36 2025  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-----------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                       |                |      |                     |        |        |          |
| Internal Standards          |                |      |                     |        |        |          |
| 1) Pentafluorobenzene       | 7.713          | 168  | 153282              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.616          | 114  | 237639              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.420         | 117  | 180054              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.346         | 152  | 60548               | 50.000 | ug/l   | 0.00     |
|                             |                |      |                     |        |        |          |
| System Monitoring Compounds |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.067          | 65   | 79035               | 52.947 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 50 - 163 |      | Recovery = 105.900% |        |        |          |
| 35) Dibromofluoromethane    | 7.640          | 113  | 44091               | 31.320 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 54 - 147 |      | Recovery = 62.640%  |        |        |          |
| 50) Toluene-d8              | 10.109         | 98   | 280533              | 50.171 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 134 |      | Recovery = 100.340% |        |        |          |
| 62) 4-Bromofluorobenzene    | 12.408         | 95   | 65222               | 35.450 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 30 - 143 |      | Recovery = 70.900%  |        |        |          |
|                             |                |      |                     |        |        |          |
| Target Compounds            |                |      |                     |        |        |          |
|                             |                |      |                     |        | Qvalue |          |
| 16) Acetone                 | 3.866          | 43   | 8600                | 19.996 | ug/l # | 72       |
| 39) Methylcyclohexane       | 9.109          | 83   | 6325                | 2.219  | ug/l # | 93       |
| 52) Toluene                 | 10.170         | 92   | 6940                | 1.685  | ug/l   | 99       |
| 67) Ethyl Benzene           | 11.524         | 91   | 13599               | 2.014  | ug/l   | 98       |
| 68) m/p-Xylenes             | 11.627         | 106  | 23939               | 9.202  | ug/l   | 98       |
| 69) o-Xylene                | 11.957         | 106  | 14690               | 6.023  | ug/l   | 99       |
| 73) Isopropylbenzene        | 12.249         | 105  | 4643                | 1.080  | ug/l   | 98       |
| 78) n-propylbenzene         | 12.597         | 91   | 17898               | 3.459  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene  | 12.737         | 105  | 77616               | 22.125 | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.042         | 105  | 165769              | 47.283 | ug/l   | 97       |
| 85) sec-Butylbenzene        | 13.176         | 105  | 6400                | 1.376  | ug/l # | 58       |
| 86) p-Isopropyltoluene      | 13.292         | 119  | 4025                | 1.035  | ug/l   | 82       |
| 89) n-Butylbenzene          | 13.615         | 91   | 7075m               | 1.984  | ug/l   |          |
| -----                       |                |      |                     |        |        |          |

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

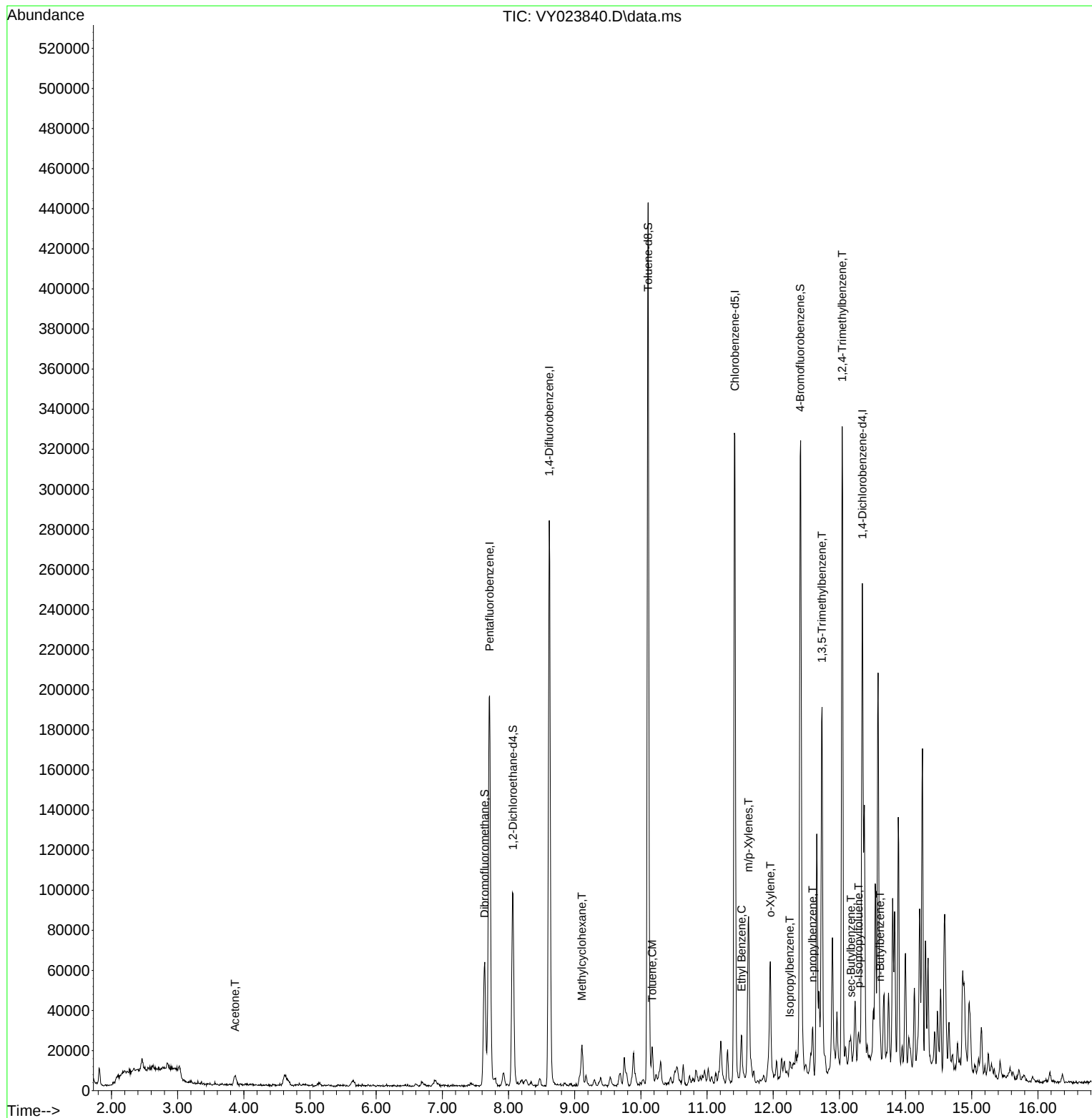
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY120125\  
Data File : VY023840.D  
Acq On : 01 Dec 2025 13:59  
Operator : SY/MD  
Sample : Q3741-05  
Misc : 4.78g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 2 Sample Multiplier: 1

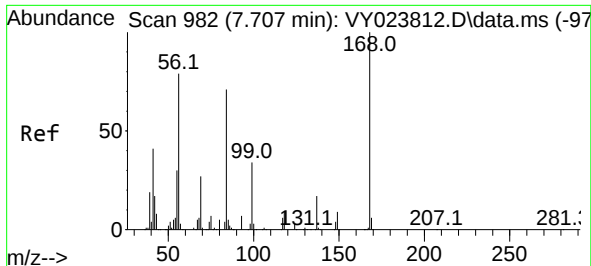
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B50-SP11-112525

Manual Integrations  
APPROVED

Reviewed By : John Carlone 12/02/2025  
Supervised By : Mahesh Dadoda 12/02/2025

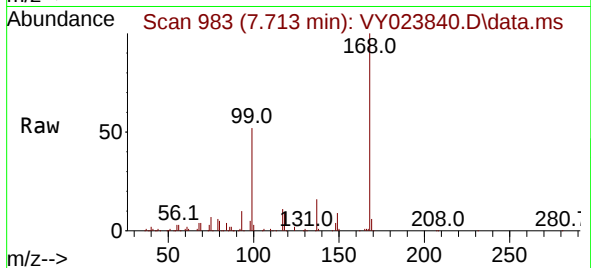
Quant Time: Dec 02 03:17:09 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y112625S.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 27 01:14:36 2025  
Response via : Initial Calibration





#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023840.D  
Acq: 01 Dec 2025 13:59

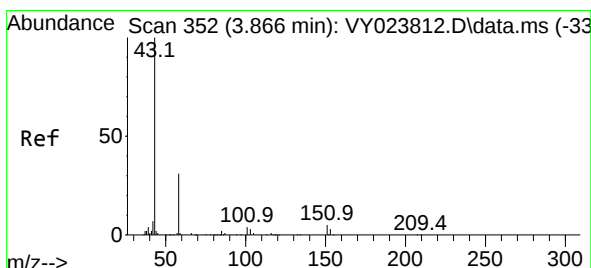
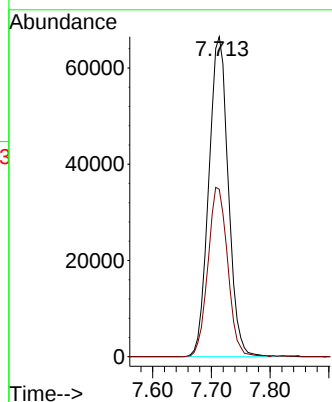
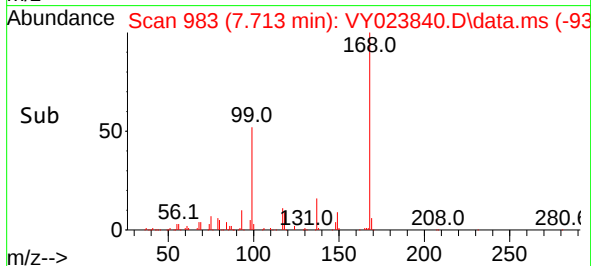
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B50-SP11-112525



Tgt Ion:168 Resp: 15328  
Ion Ratio Lower Upper  
168 100  
99 52.4 44.0 66.0

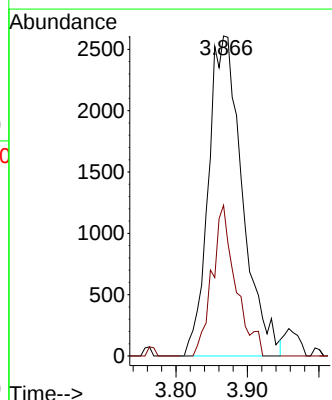
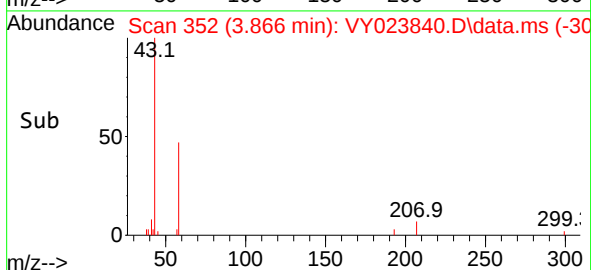
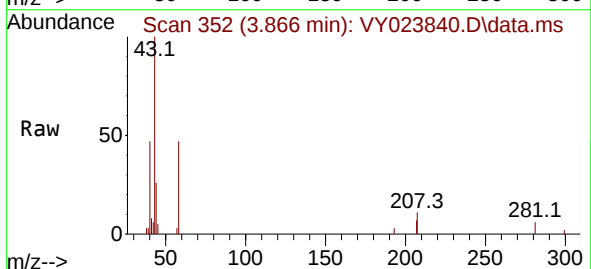
Manual Integrations  
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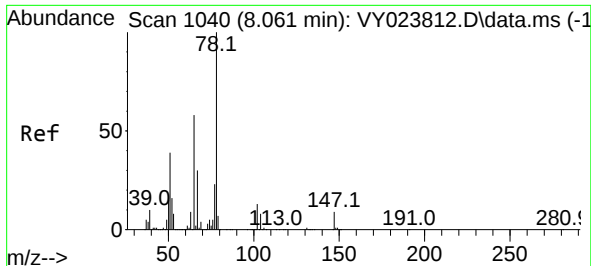
Reviewed By :John Carlone 12/02/2025  
Supervised By :Mahesh Dadoda 12/02/2025



#16  
Acetone  
Concen: 19.996 ug/l  
RT: 3.866 min Scan# 352  
Delta R.T. 0.000 min  
Lab File: VY023840.D  
Acq: 01 Dec 2025 13:59

Tgt Ion: 43 Resp: 8600  
Ion Ratio Lower Upper  
43 100  
58 47.1 25.4 38.2#





#33

1,2-Dichloroethane-d4

Concen: 52.947 ug/l

RT: 8.067 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023840.D

Acq: 01 Dec 2025 13:59

Instrument :

MSVOA\_Y

ClientSampleId :

B50-SP11-112525

Tgt Ion: 65 Resp: 7903

Ion Ratio Lower Upper

65 100

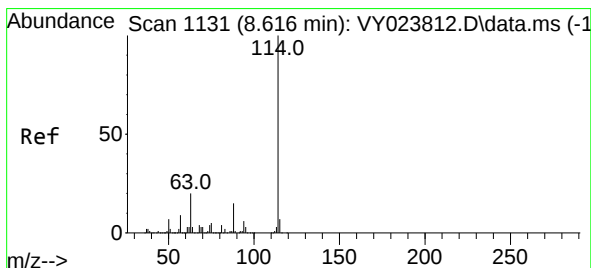
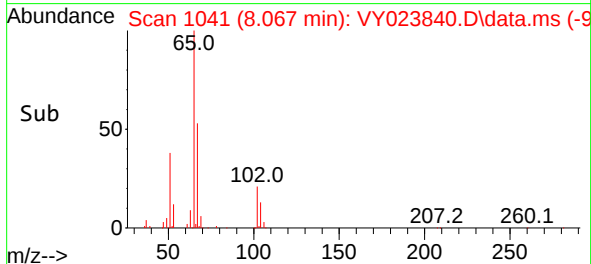
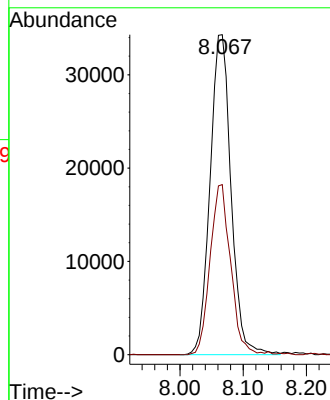
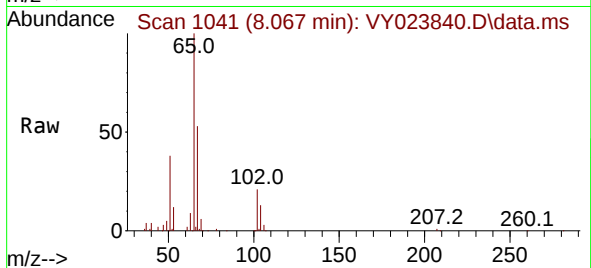
67 52.1 0.0 107.4

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023840.D

Acq: 01 Dec 2025 13:59

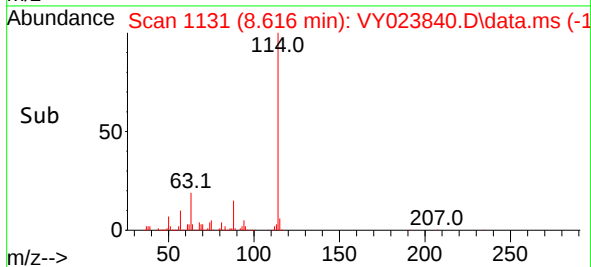
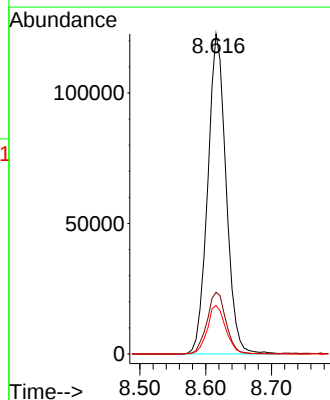
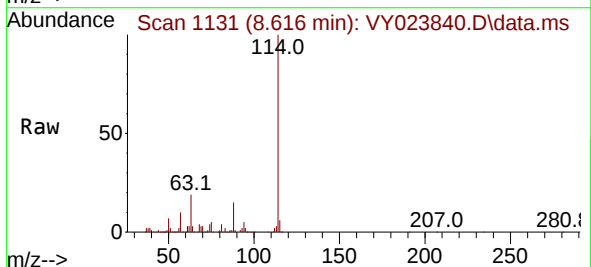
Tgt Ion:114 Resp: 237639

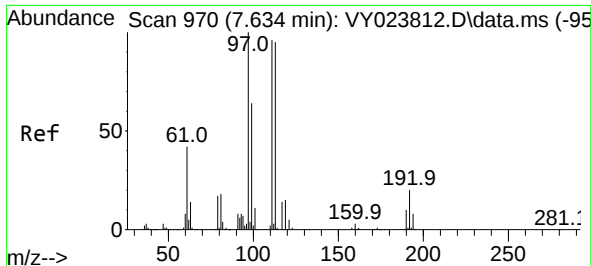
Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.4

88 15.1 0.0 30.8





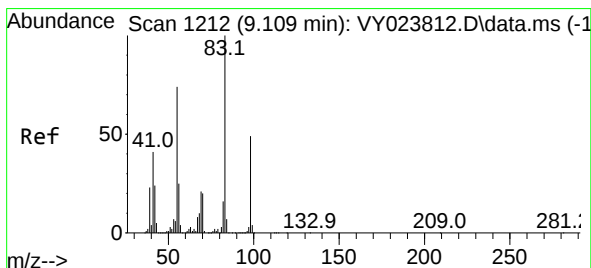
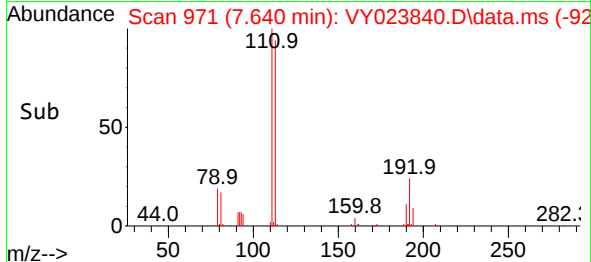
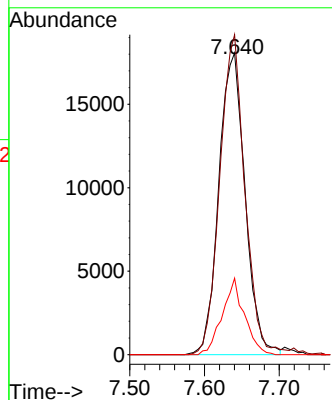
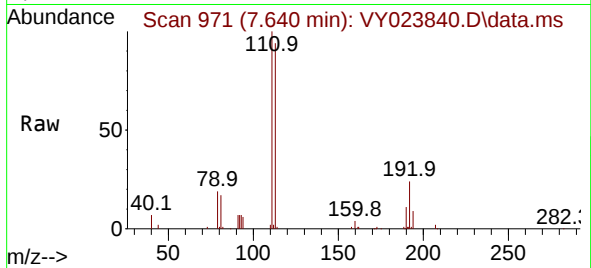
#35  
Dibromofluoromethane  
Concen: 31.320 ug/l  
RT: 7.640 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY023840.D  
Acq: 01 Dec 2025 13:59

Instrument :  
MSVOA\_Y  
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B50-SP11-112525

Tgt Ion: 113 Resp: 4409  
Ion Ratio Lower Upper  
113 100  
111 101.3 81.4 122.0  
192 21.4 15.8 23.8

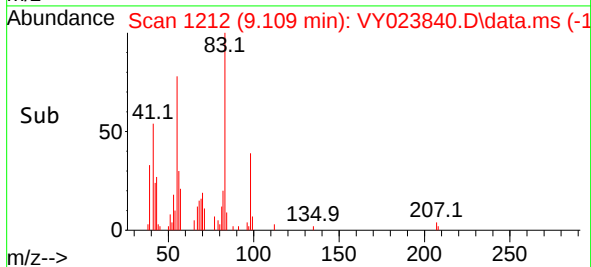
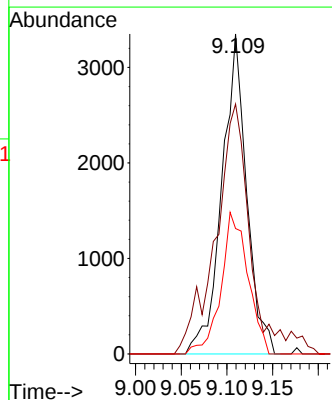
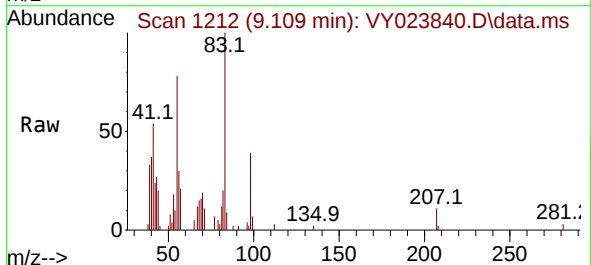
Manual Integrations  
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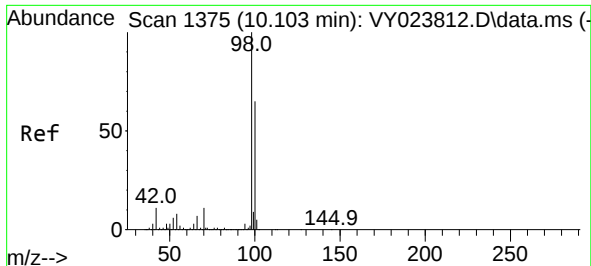
Reviewed By :John Carlone 12/02/2025  
Supervised By :Mahesh Dadoda 12/02/2025



#39  
Methylcyclohexane  
Concen: 2.219 ug/l  
RT: 9.109 min Scan# 1212  
Delta R.T. 0.000 min  
Lab File: VY023840.D  
Acq: 01 Dec 2025 13:59

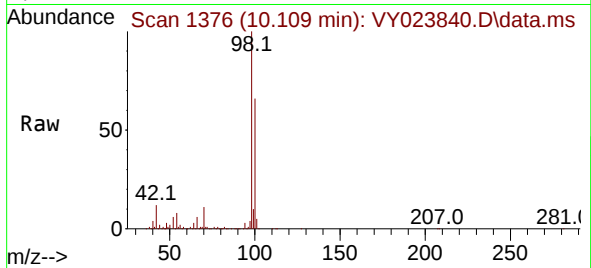
Tgt Ion: 83 Resp: 6325  
Ion Ratio Lower Upper  
83 100  
55 75.6 59.4 89.2  
98 39.2 39.5 59.3





#50  
Toluene-d8  
Concen: 50.171 ug/l  
RT: 10.109 min Scan# 1375  
Delta R.T. 0.006 min  
Lab File: VY023840.D  
Acq: 01 Dec 2025 13:59

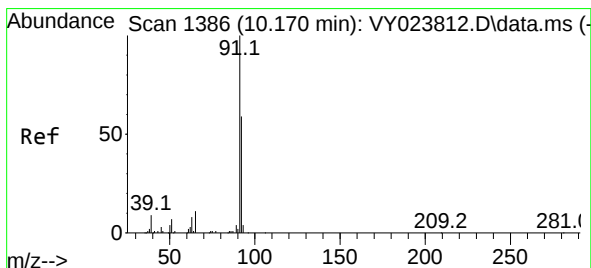
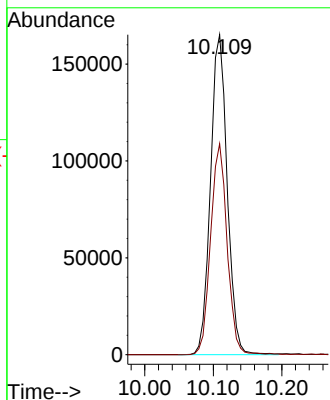
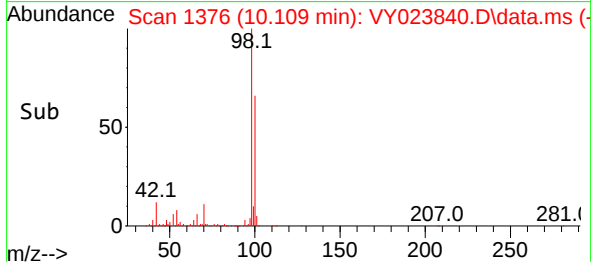
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B50-SP11-112525



Tgt Ion: 98 Resp: 28053  
Ion Ratio Lower Upper  
98 100  
100 65.2 51.9 77.9

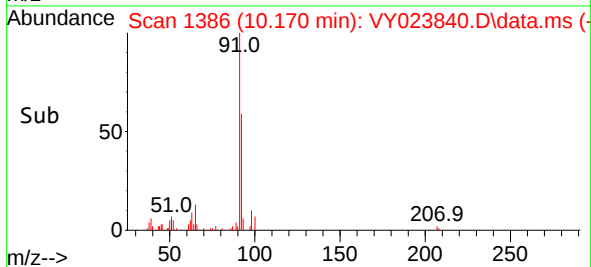
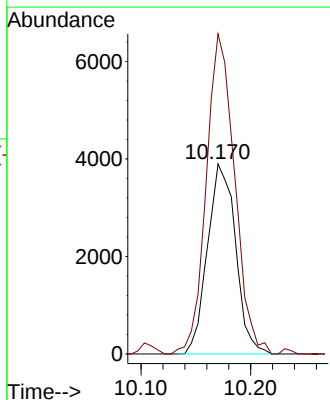
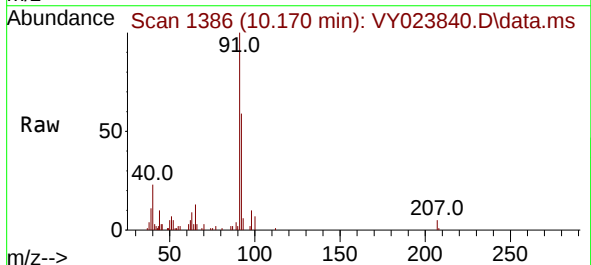
Manual Integrations  
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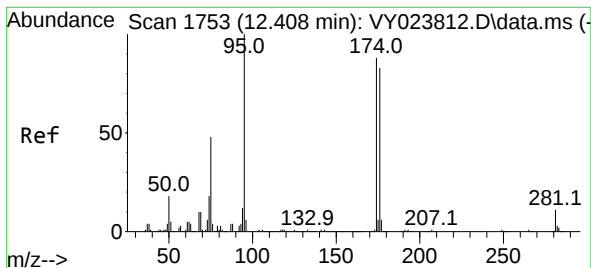
Reviewed By :John Carlone 12/02/2025  
Supervised By :Mahesh Dadoda 12/02/2025



#52  
Toluene  
Concen: 1.685 ug/l  
RT: 10.170 min Scan# 1386  
Delta R.T. 0.000 min  
Lab File: VY023840.D  
Acq: 01 Dec 2025 13:59

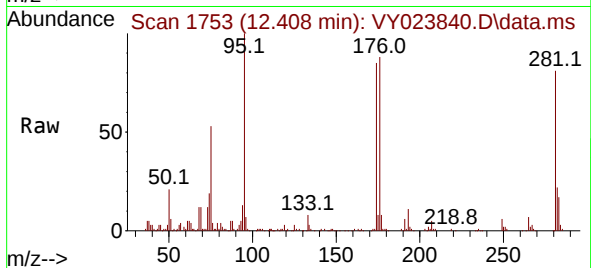
Tgt Ion: 92 Resp: 6940  
Ion Ratio Lower Upper  
92 100  
91 170.2 136.8 205.2





#62  
4-Bromofluorobenzene  
Concen: 35.450 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.000 min  
Lab File: VY023840.D  
Acq: 01 Dec 2025 13:59

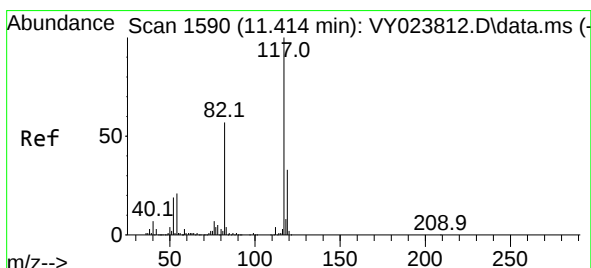
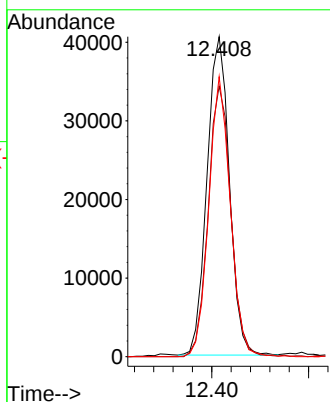
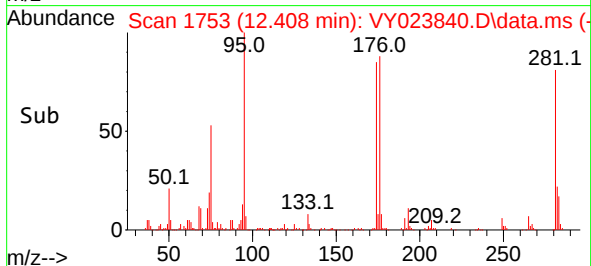
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B50-SP11-112525



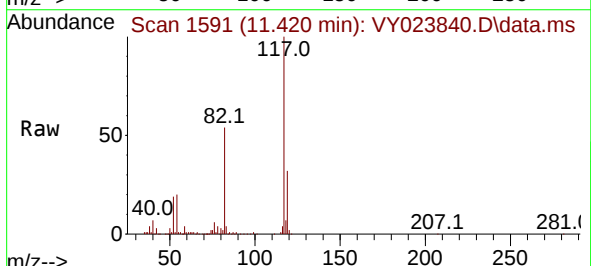
Tgt Ion: 95 Resp: 6522  
Ion Ratio Lower Upper  
95 100  
174 86.0 0.0 168.6  
176 84.4 0.0 164.6

Manual Integrations  
APPROVED

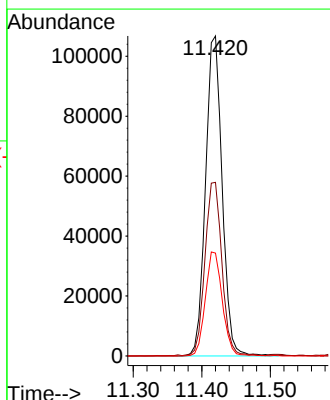
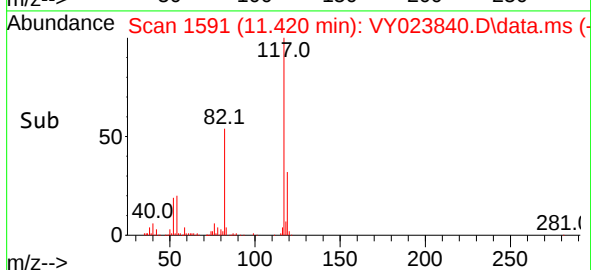
Reviewed By :John Carlone 12/02/2025  
Supervised By :Mahesh Dadoda 12/02/2025

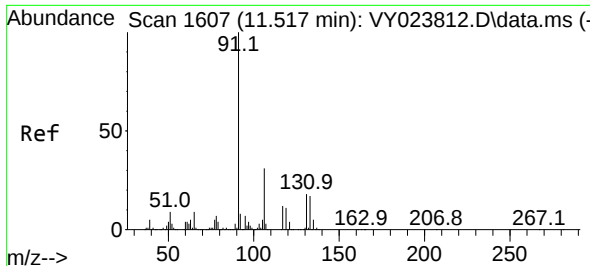


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. 0.006 min  
Lab File: VY023840.D  
Acq: 01 Dec 2025 13:59



Tgt Ion:117 Resp: 180054  
Ion Ratio Lower Upper  
117 100  
82 53.9 45.4 68.0  
119 32.1 26.0 39.0





#67

Ethyl Benzene

Concen: 2.014 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.006 min

Lab File: VY023840.D

Acq: 01 Dec 2025 13:59

Instrument :

MSVOA\_Y

ClientSampleId :

B50-SP11-112525

Tgt Ion: 91 Resp: 1359

Ion Ratio Lower Upper

91 100

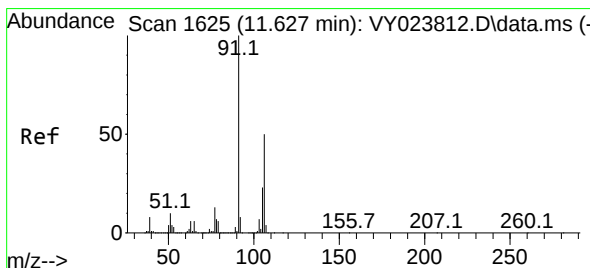
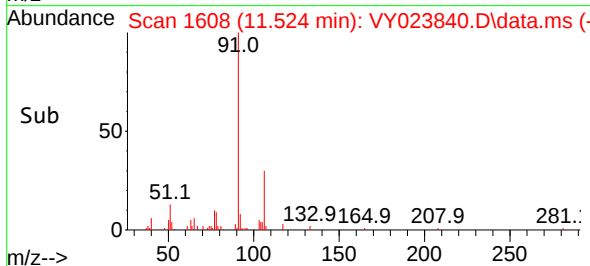
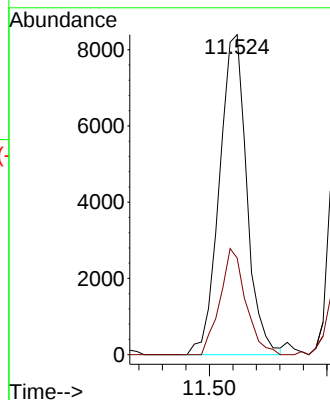
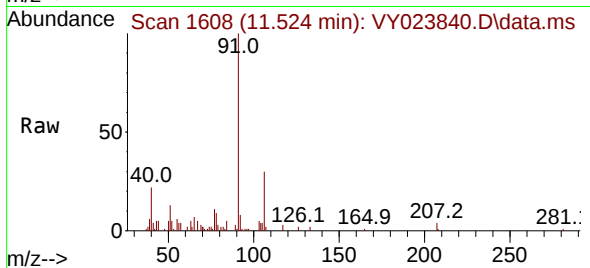
106 30.2 24.9 37.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/02/2025

Supervised By :Mahesh Dadoda 12/02/2025



#68

m/p-Xylenes

Concen: 9.202 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. 0.000 min

Lab File: VY023840.D

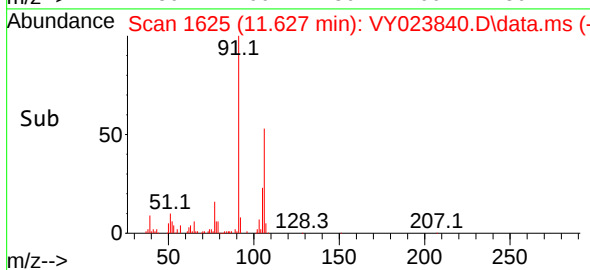
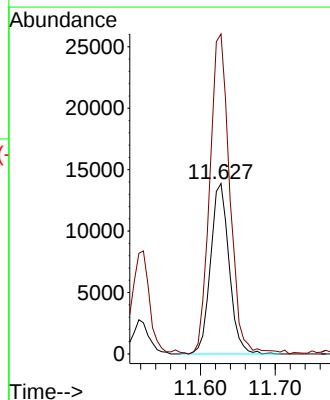
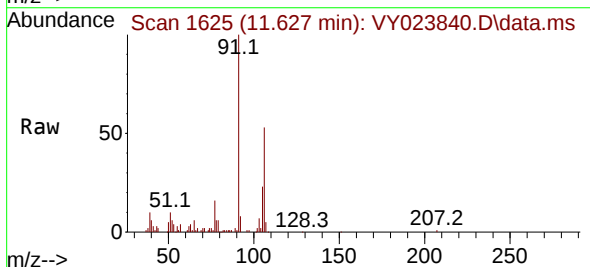
Acq: 01 Dec 2025 13:59

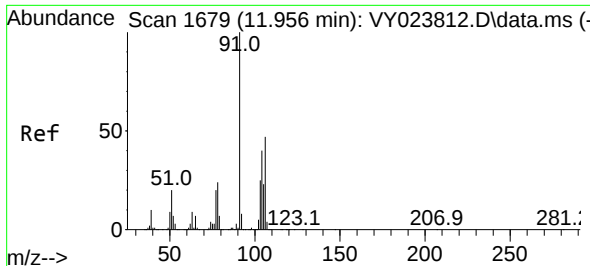
Tgt Ion:106 Resp: 23939

Ion Ratio Lower Upper

106 100

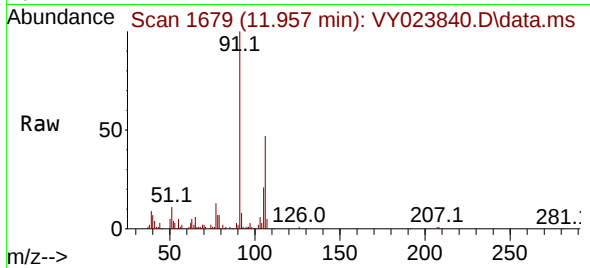
91 202.2 159.5 239.3





#69  
o-Xylene  
Concen: 6.023 ug/l  
RT: 11.957 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY023840.D  
Acq: 01 Dec 2025 13:59

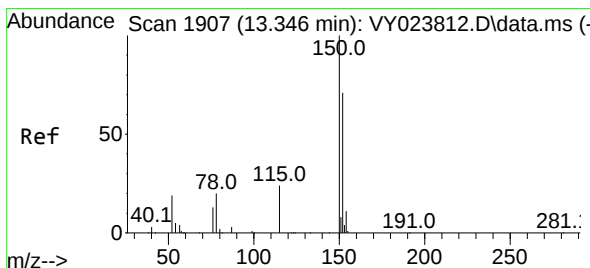
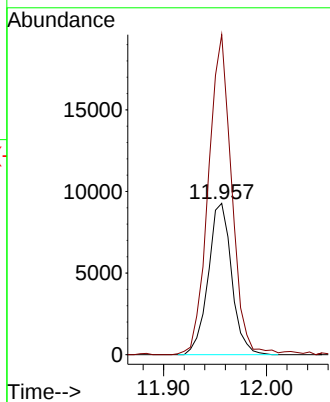
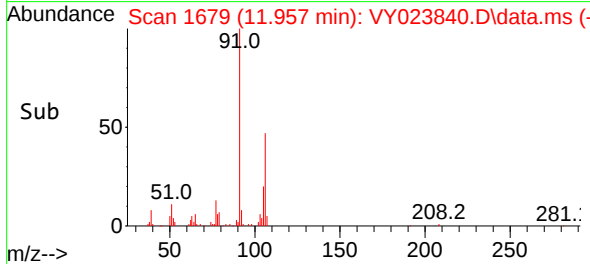
Instrument :  
MSVOA\_Y  
ClientSampleId :  
B50-SP11-112525



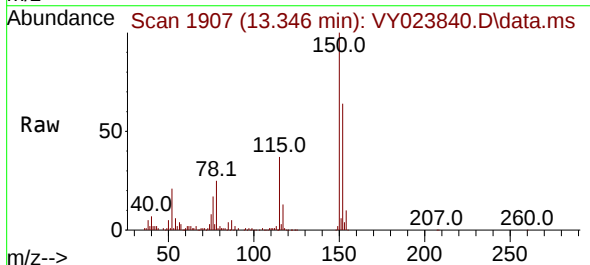
Tgt Ion:106 Resp: 14690  
Ion Ratio Lower Upper  
106 100  
91 211.9 106.5 319.6

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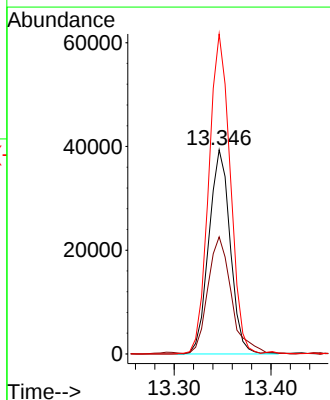
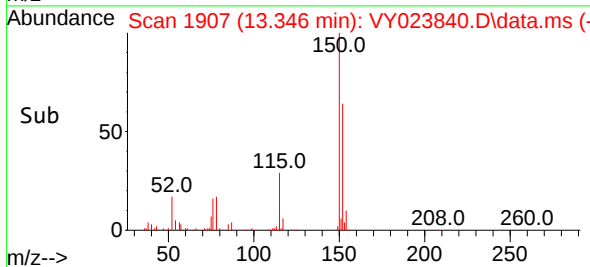
Reviewed By :John Carlone 12/02/2025  
Supervised By :Mahesh Dadoda 12/02/2025

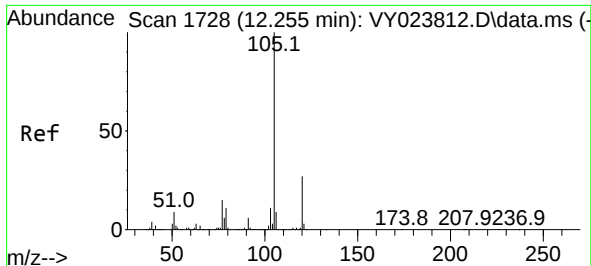


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.346 min Scan# 1907  
Delta R.T. 0.000 min  
Lab File: VY023840.D  
Acq: 01 Dec 2025 13:59



Tgt Ion:152 Resp: 60548  
Ion Ratio Lower Upper  
152 100  
115 63.3 28.7 86.3  
150 157.1 0.0 345.6





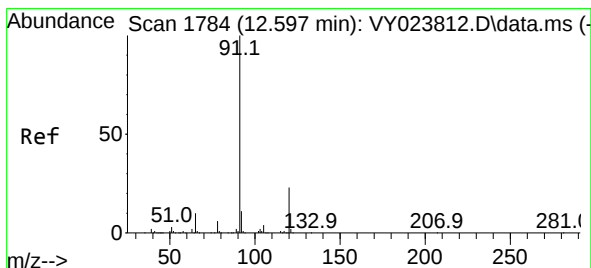
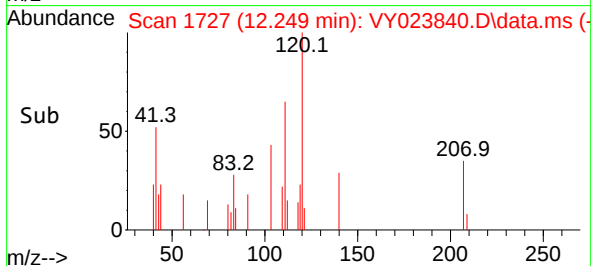
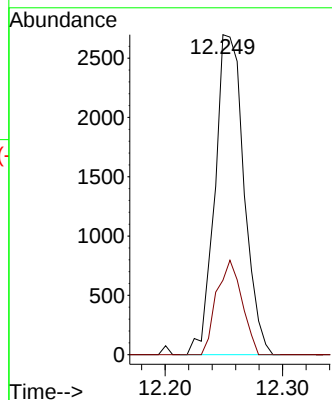
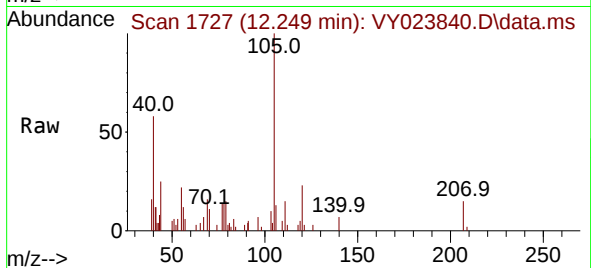
#73  
Isopropylbenzene  
Concen: 1.080 ug/l  
RT: 12.249 min Scan# 1727  
Delta R.T. -0.006 min  
Lab File: VY023840.D  
Acq: 01 Dec 2025 13:59

Instrument :  
MSVOA\_Y  
ClientSampleId :  
B50-SP11-112525

Tgt Ion:105 Resp: 464  
Ion Ratio Lower Upper  
105 100  
120 25.6 13.3 39.8

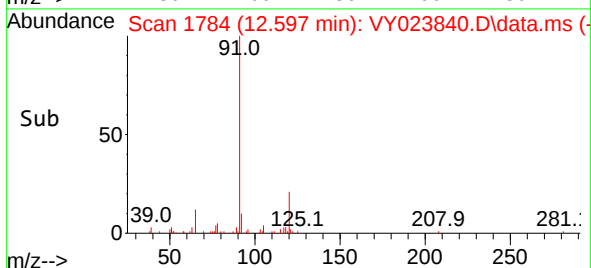
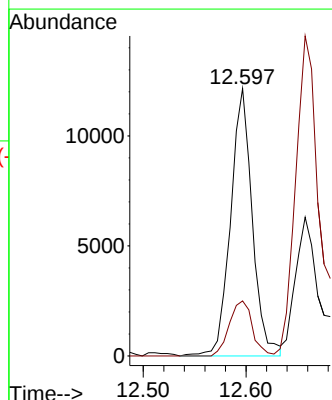
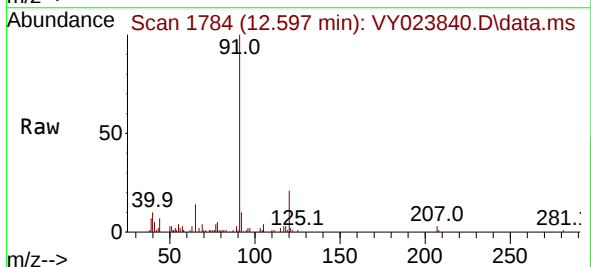
Manual Integrations  
APPROVED

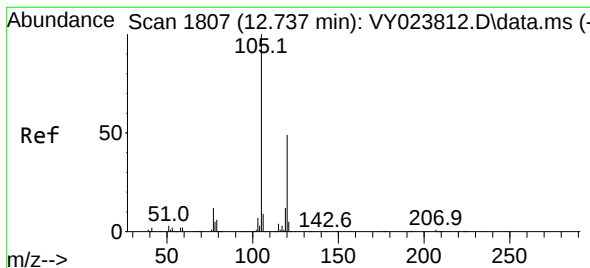
Reviewed By :John Carlone 12/02/2025  
Supervised By :Mahesh Dadoda 12/02/2025



#78  
n-propylbenzene  
Concen: 3.459 ug/l  
RT: 12.597 min Scan# 1784  
Delta R.T. 0.000 min  
Lab File: VY023840.D  
Acq: 01 Dec 2025 13:59

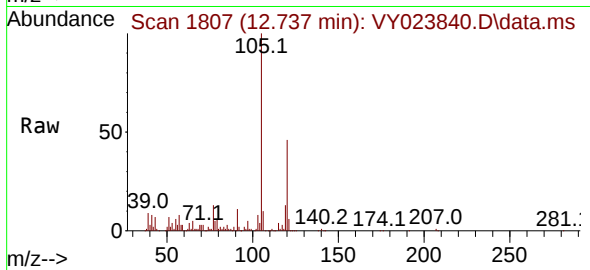
Tgt Ion: 91 Resp: 17898  
Ion Ratio Lower Upper  
91 100  
120 21.8 11.6 34.8





#80  
 1,3,5-Trimethylbenzene  
 Concen: 22.125 ug/l  
 RT: 12.737 min Scan# 1807  
 Delta R.T. 0.000 min  
 Lab File: VY023840.D  
 Acq: 01 Dec 2025 13:59

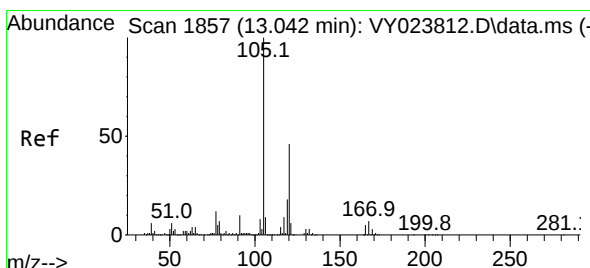
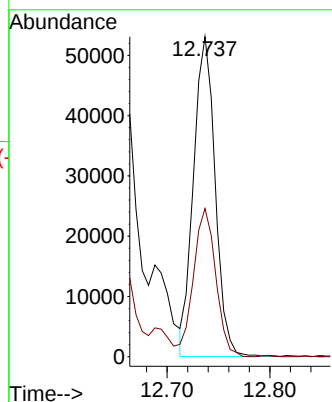
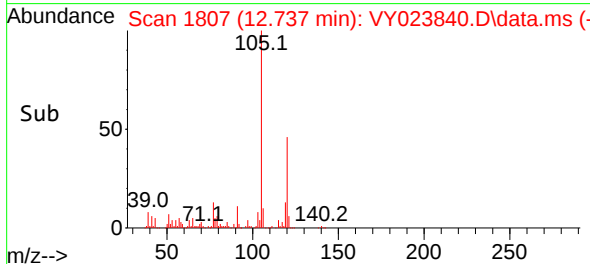
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 B50-SP11-112525



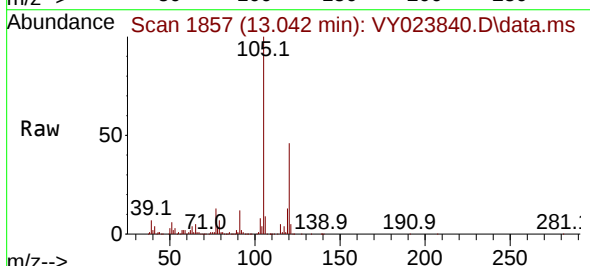
Tgt Ion:105 Resp: 77610  
 Ion Ratio Lower Upper  
 105 100  
 120 48.1 24.6 73.8

Manual Integrations  
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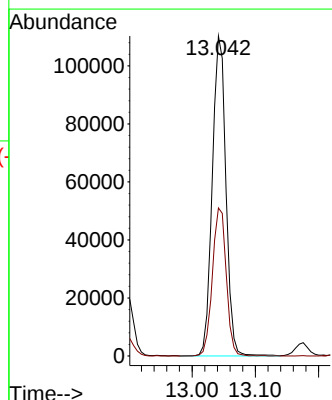
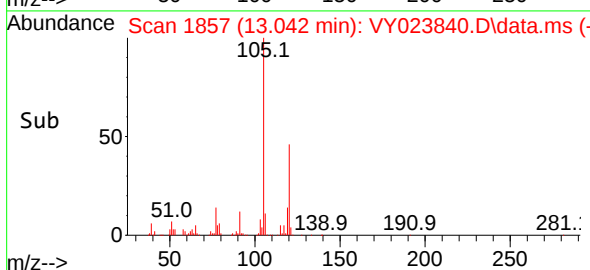
Reviewed By :John Carlone 12/02/2025  
 Supervised By :Mahesh Dadoda 12/02/2025

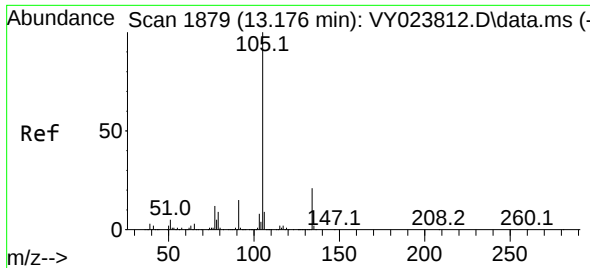


#84  
 1,2,4-Trimethylbenzene  
 Concen: 47.283 ug/l  
 RT: 13.042 min Scan# 1857  
 Delta R.T. 0.000 min  
 Lab File: VY023840.D  
 Acq: 01 Dec 2025 13:59



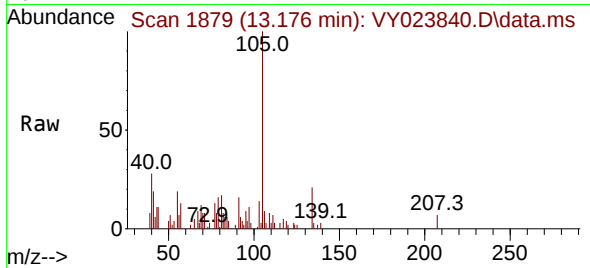
Tgt Ion:105 Resp: 165769  
 Ion Ratio Lower Upper  
 105 100  
 120 46.9 22.5 67.5





#85  
 sec-Butylbenzene  
 Concen: 1.376 ug/l  
 RT: 13.176 min Scan# 1879  
 Delta R.T. 0.000 min  
 Lab File: VY023840.D  
 Acq: 01 Dec 2025 13:59

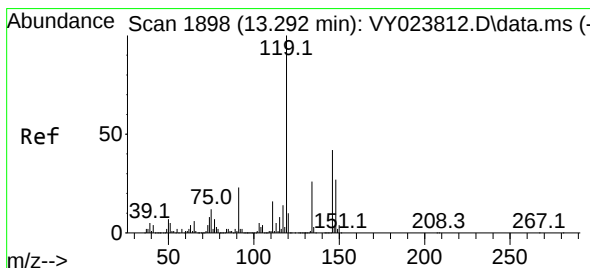
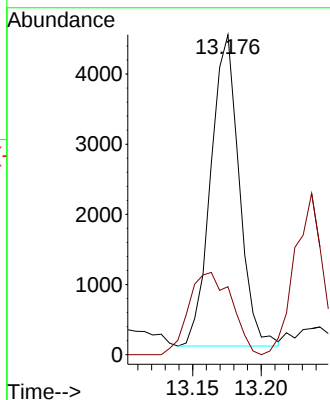
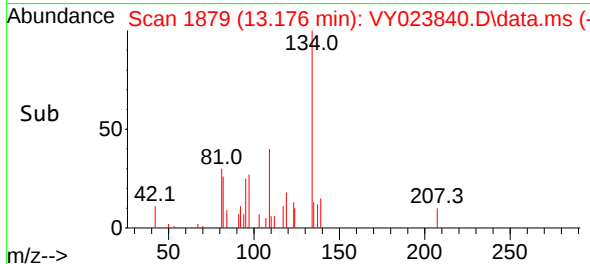
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 B50-SP11-112525



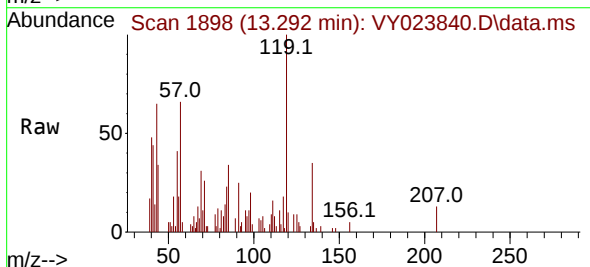
Tgt Ion:105 Resp: 6400  
 Ion Ratio Lower Upper  
 105 100  
 134 39.9 10.2 30.6

Manual Integrations  
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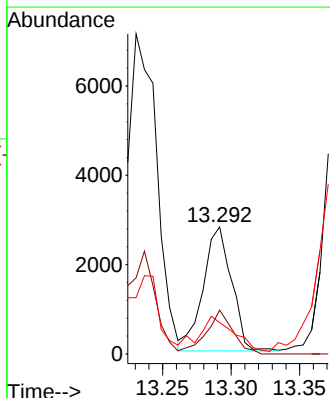
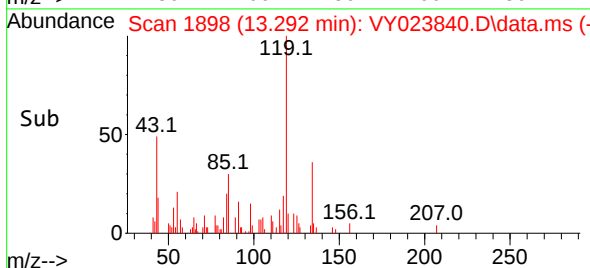
Reviewed By :John Carlone 12/02/2025  
 Supervised By :Mahesh Dadoda 12/02/2025

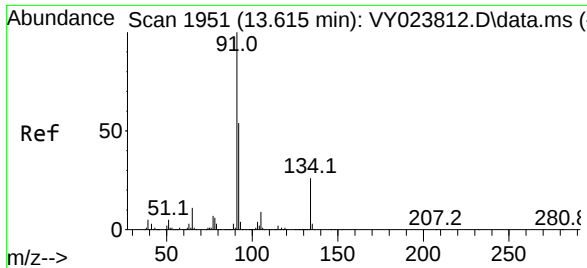


#86  
 p-Isopropyltoluene  
 Concen: 1.035 ug/l  
 RT: 13.292 min Scan# 1898  
 Delta R.T. 0.000 min  
 Lab File: VY023840.D  
 Acq: 01 Dec 2025 13:59



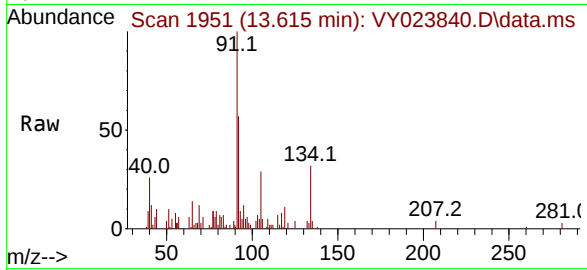
Tgt Ion:119 Resp: 4025  
 Ion Ratio Lower Upper  
 119 100  
 134 33.0 13.1 39.3  
 91 33.8 11.5 34.4





#89  
n-Butylbenzene  
Concen: 1.984 ug/l m  
RT: 13.615 min Scan# 1951  
Delta R.T. 0.000 min  
Lab File: VY023840.D  
Acq: 01 Dec 2025 13:59

Instrument :  
MSVOA\_Y  
ClientSampleId :  
B50-SP11-112525



Tgt Ion: 91 Resp: 7075  
Ion Ratio Lower Upper  
91 100  
92 26.0 26.8 80.3  
134 511.1 13.0 39.0

Manual Integrations  
APPROVED

Reviewed By :John Carlone 12/02/2025  
Supervised By :Mahesh Dadoda 12/02/2025

