

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122922\  
 Data File : VY012032.D  
 Acq On : 29 Dec 2022 16:49  
 Operator : KP/MD  
 Sample : N6229-01RE  
 Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 NB-8-122822RE

Quant Time: Dec 30 04:00:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122022S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 20 12:37:37 2022  
 Response via : Initial Calibration

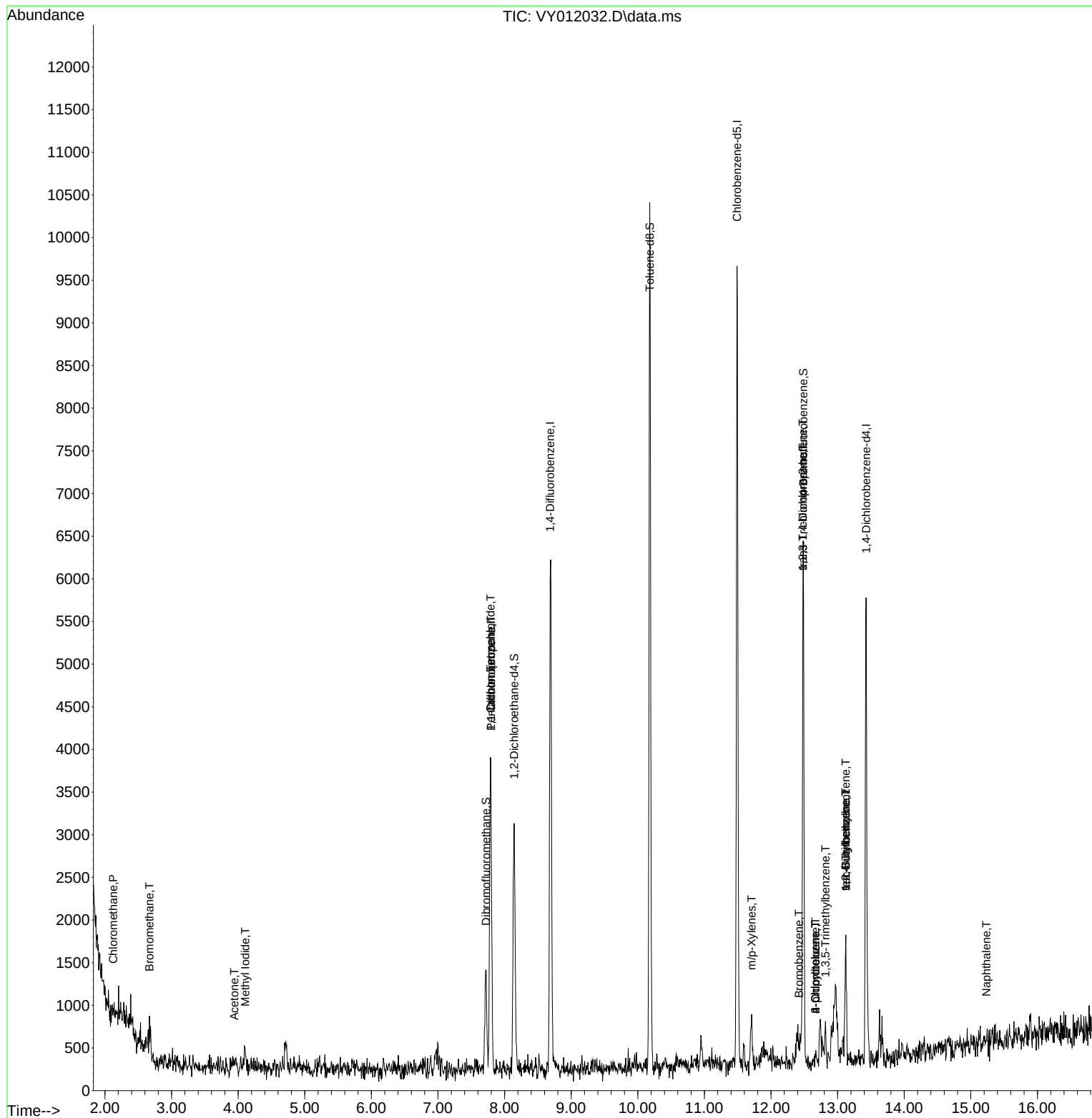
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.795  | 168   | 3419     | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 6092     | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 5884     | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 1803     | 50.000    | ug/l       | 0.00     |
|                               |        |       |          |           |            |          |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 2595     | 75.336    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 150.680% |          |
| 35) Dibromofluoromethane      | 7.722  | 113   | 888      | 24.212    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 48.420%# |          |
| 50) Toluene-d8                | 10.179 | 98    | 7249     | 48.716    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 97.440%  |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 2061     | 41.183    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 82.360%  |          |
|                               |        |       |          |           |            |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 2.125  | 50    | 122      | 4.009     | ug/l #     | 41       |
| 5) Bromomethane               | 2.668  | 94    | 148      | 6.199     | ug/l       | 87       |
| 10) Methyl Iodide             | 4.107  | 142   | 308      | 6.884     | ug/l #     | 81       |
| 16) Acetone                   | 3.942  | 43    | 241      | 27.852    | ug/l #     | 40       |
| 20) Methylene Chloride        | 4.735  | 84    | 47       | Below Cal | #          | 53       |
| 36) 1,1-Dichloropropene       | 7.795  | 75    | 201      | 3.417     | ug/l #     | 41       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 349      | 5.137     | ug/l #     | 14       |
| 68) m/p-Xylenes               | 11.709 | 106   | 254      | 2.957     | ug/l #     | 72       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 1071     | 47.737    | ug/l #     | 100      |
| 77) Bromobenzene              | 12.422 | 156   | 73       | 2.358     | ug/l #     | 1        |
| 78) n-propylbenzene           | 12.666 | 91    | 183      | 1.138     | ug/l #     | 52       |
| 79) 2-Chlorotoluene           | 12.666 | 91    | 183      | 2.024     | ug/l #     | 40       |
| 80) 1,3,5-Trimethylbenzene    | 12.819 | 105   | 297      | 2.593     | ug/l       | 80       |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 1071     | 130.728   | ug/l #     | 13       |
| 82) 4-Chlorotoluene           | 12.666 | 91    | 183      | 1.956     | ug/l #     | 41       |
| 83) tert-Butylbenzene         | 13.123 | 119   | 130      | 1.339     | ug/l #     | 62       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105   | 957      | 8.492     | ug/l       | 95       |
| 85) sec-Butylbenzene          | 13.123 | 105   | 957      | 6.602     | ug/l #     | 56       |
| 95) Naphthalene               | 15.233 | 128   | 98       | 4.172     | ug/l #     | 69       |
| -----                         |        |       |          |           |            |          |

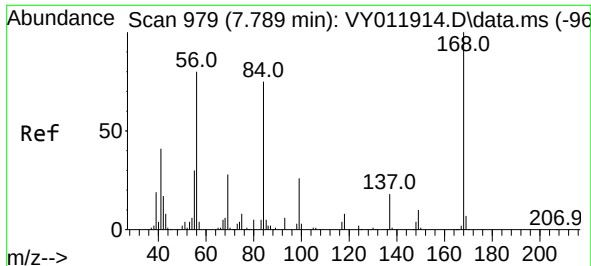
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Dec 20 12:37:37 2022  
Response via : Initial Calibration

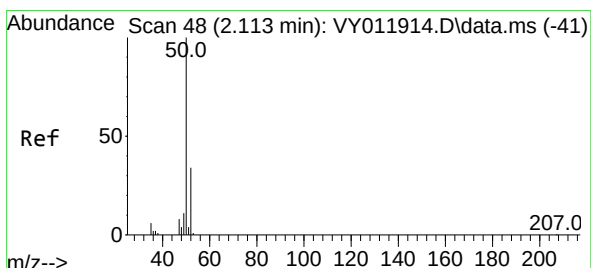
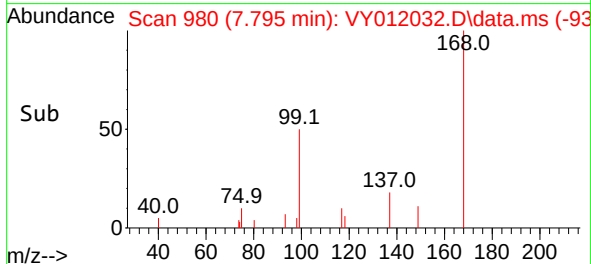
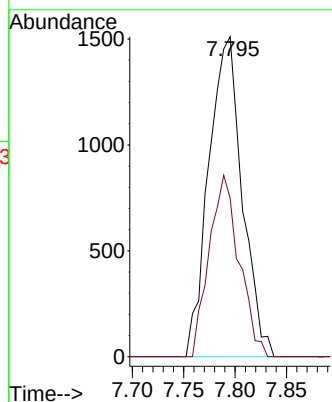
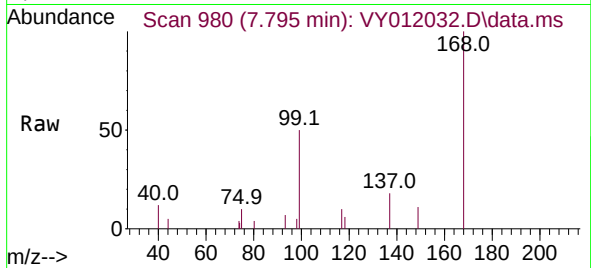




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

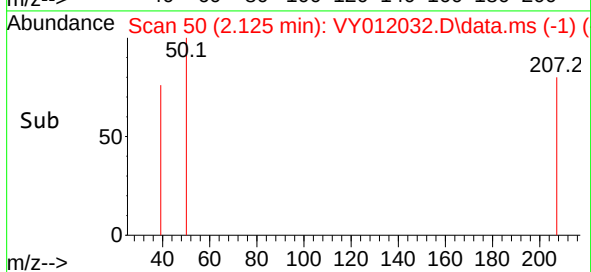
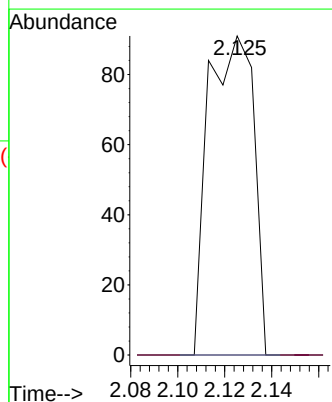
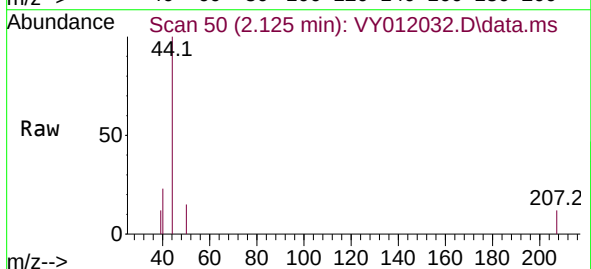
Instrument :  
MSVOA\_Y  
ClientSampleId :  
NB-8-122822RE

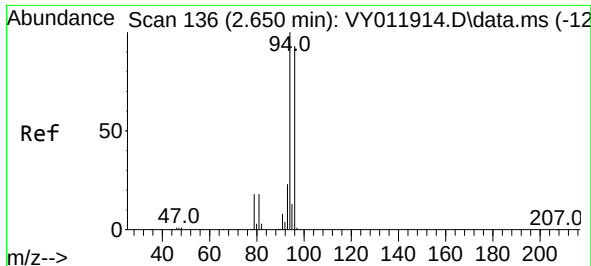
Tgt Ion:168 Resp: 3419  
Ion Ratio Lower Upper  
168 100  
99 49.6 44.0 66.0



#3  
Chloromethane  
Concen: 4.009 ug/l  
RT: 2.125 min Scan# 50  
Delta R.T. 0.012 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

Tgt Ion: 50 Resp: 122  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.8 40.2#

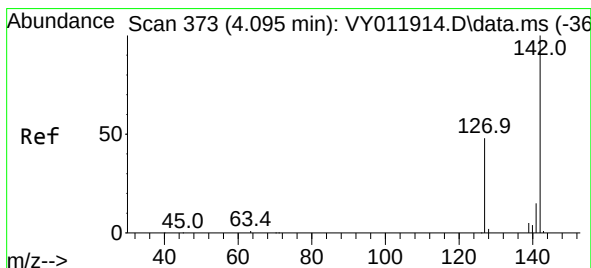
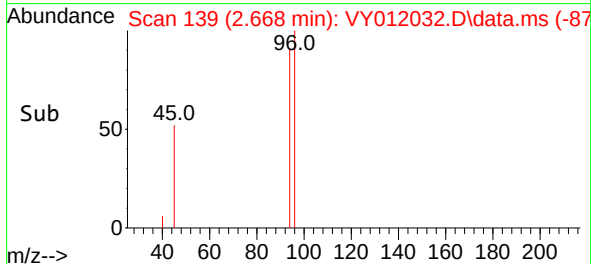
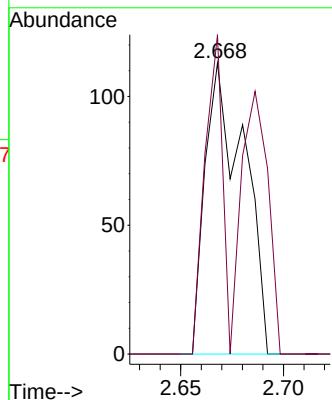
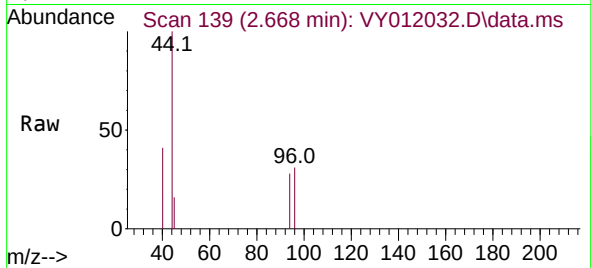




#5  
Bromomethane  
Concen: 6.199 ug/l  
RT: 2.668 min Scan# 11  
Delta R.T. 0.018 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

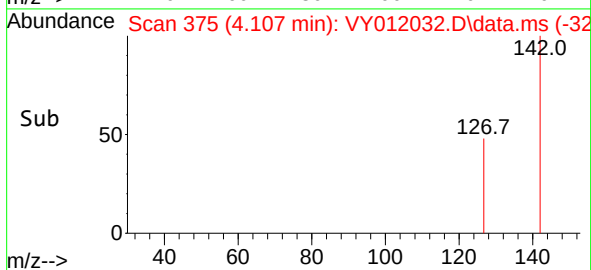
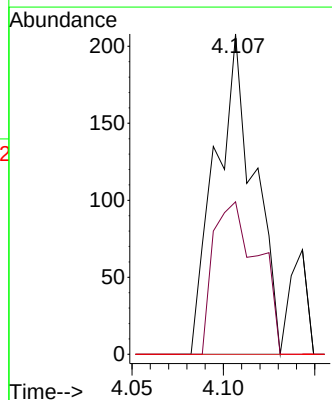
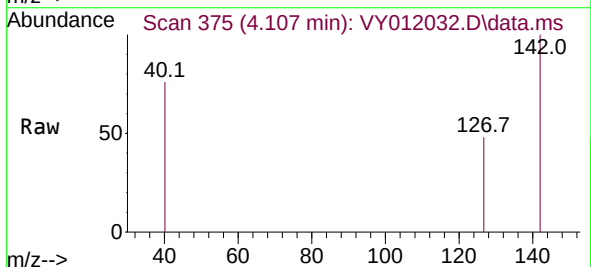
Instrument :  
MSVOA\_Y  
ClientSampleId :  
NB-8-122822RE

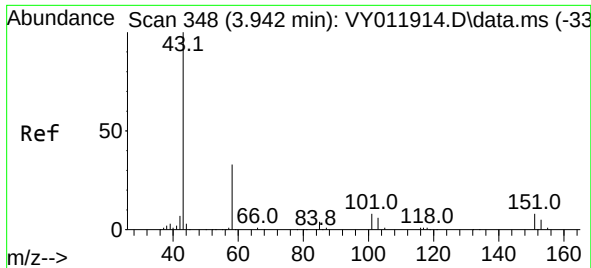
Tgt Ion: 94 Resp: 148  
Ion Ratio Lower Upper  
94 100  
96 109.7 77.4 116.2



#10  
Methyl Iodide  
Concen: 6.884 ug/l  
RT: 4.107 min Scan# 375  
Delta R.T. 0.012 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

Tgt Ion: 142 Resp: 308  
Ion Ratio Lower Upper  
142 100  
127 55.2 37.0 55.4  
141 0.0 11.4 17.0#





#16

Acetone

Concen: 27.852 ug/l

RT: 3.942 min Scan# 34

Delta R.T. -0.006 min

Lab File: VY012032.D

Acq: 29 Dec 2022 16:49

Instrument :

MSVOA\_Y

ClientSampleId :

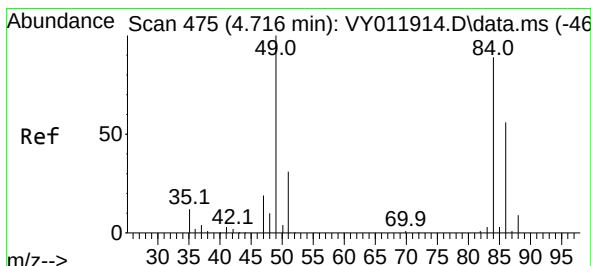
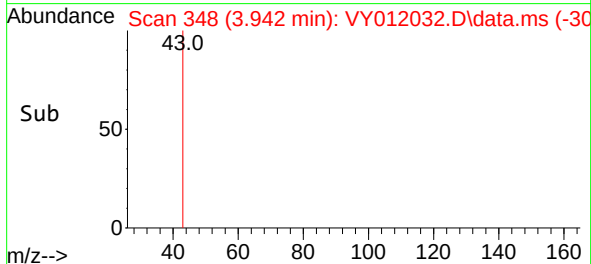
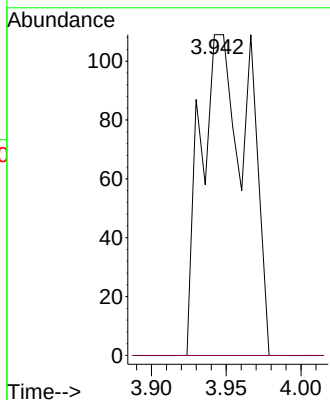
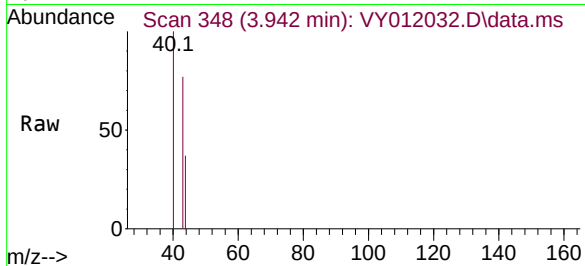
NB-8-122822RE

Tgt Ion: 43 Resp: 241

Ion Ratio Lower Upper

43 100

58 0.0 27.9 41.9#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.735 min Scan# 478

Delta R.T. 0.019 min

Lab File: VY012032.D

Acq: 29 Dec 2022 16:49

Tgt Ion: 84 Resp: 47

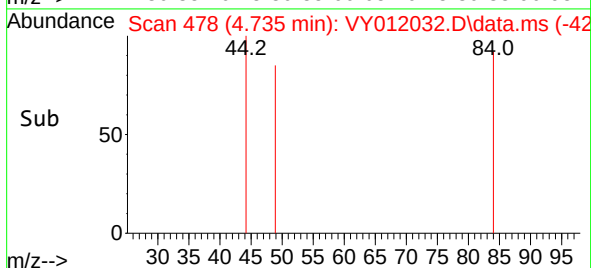
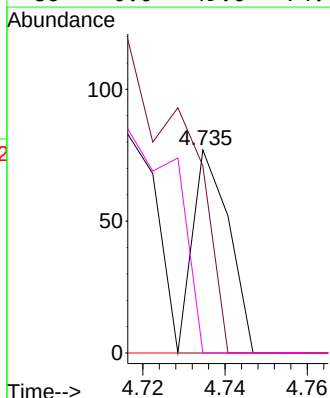
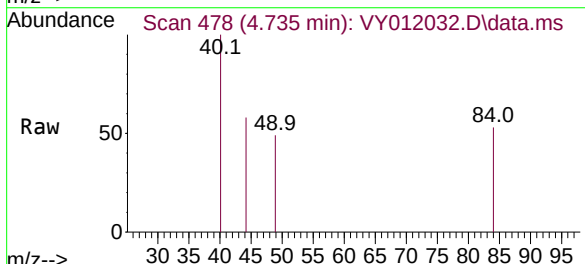
Ion Ratio Lower Upper

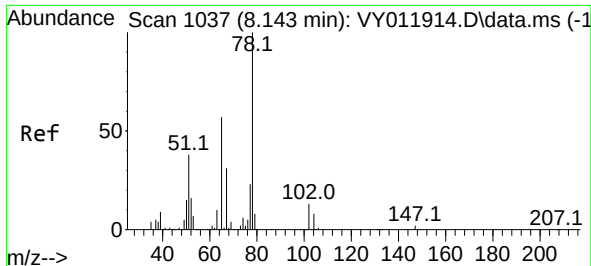
84 100

49 92.2 95.4 143.2#

51 0.0 29.9 44.9#

86 0.0 49.6 74.4#





#33

1,2-Dichloroethane-d4

Concen: 75.336 ug/l

RT: 8.143 min Scan# 1103

Delta R.T. -0.000 min

Lab File: VY012032.D

Acq: 29 Dec 2022 16:49

Instrument :

MSVOA\_Y

ClientSampleId :

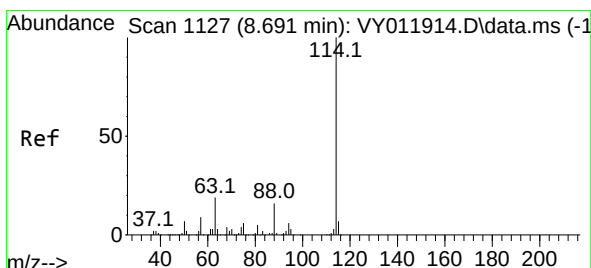
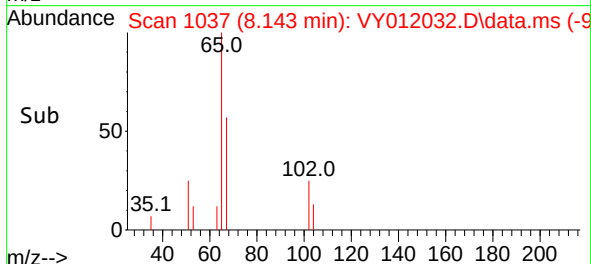
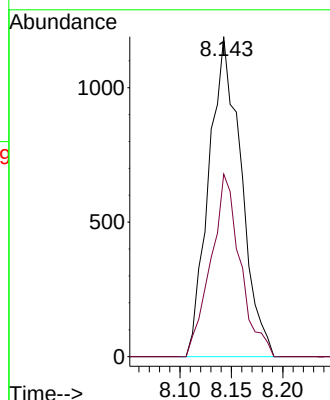
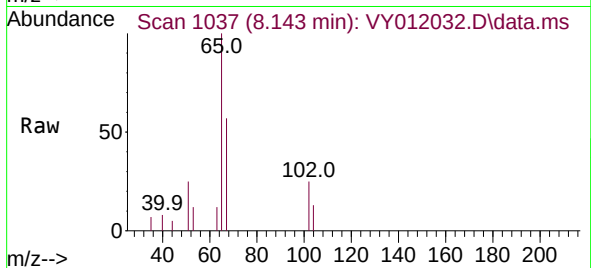
NB-8-122822RE

Tgt Ion: 65 Resp: 2595

Ion Ratio Lower Upper

65 100

67 52.1 0.0 103.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY012032.D

Acq: 29 Dec 2022 16:49

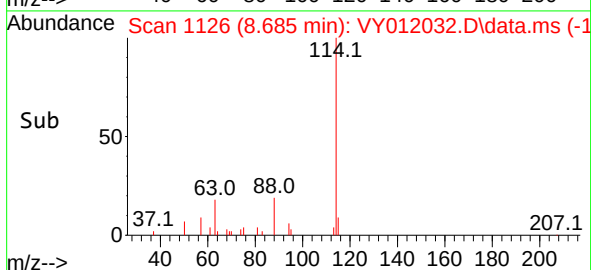
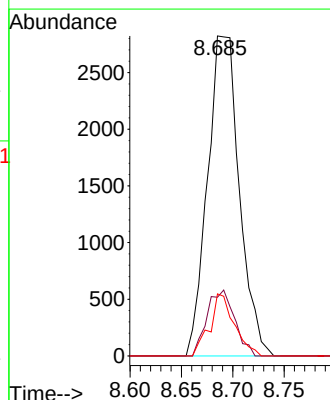
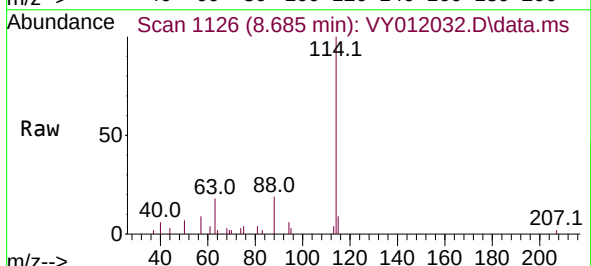
Tgt Ion: 114 Resp: 6092

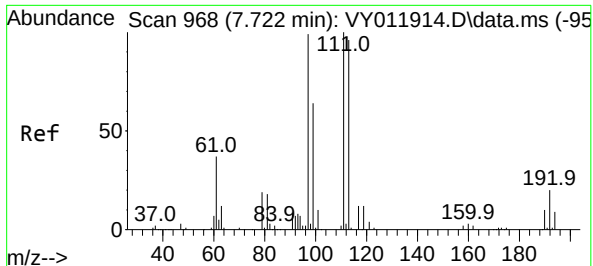
Ion Ratio Lower Upper

114 100

63 18.3 0.0 39.6

88 19.4 0.0 32.2

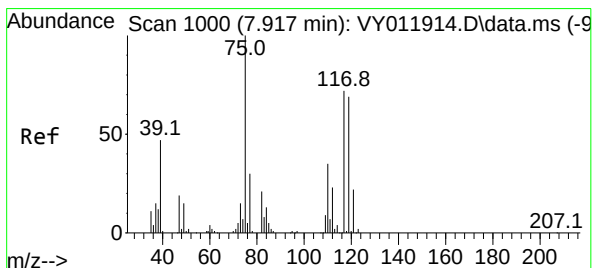
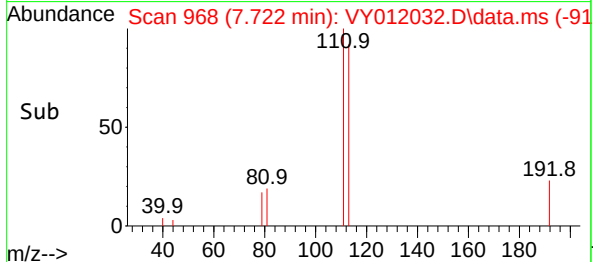
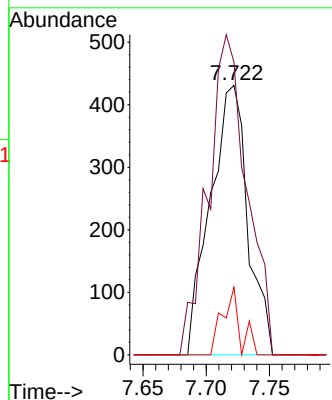
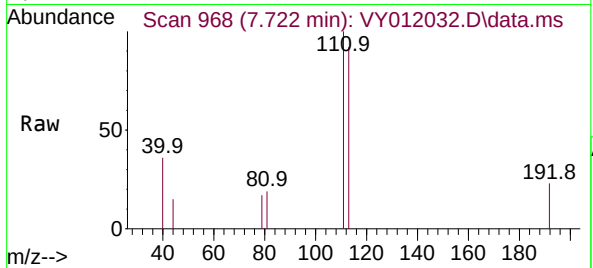




#35  
Dibromofluoromethane  
Concen: 24.212 ug/l  
RT: 7.722 min Scan# 911  
Delta R.T. 0.006 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

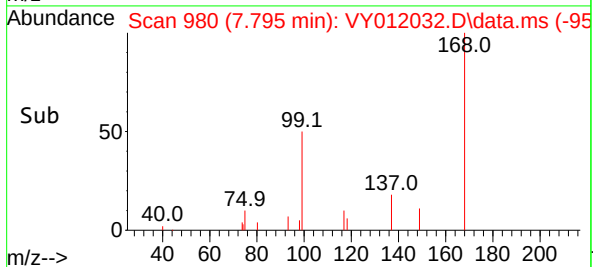
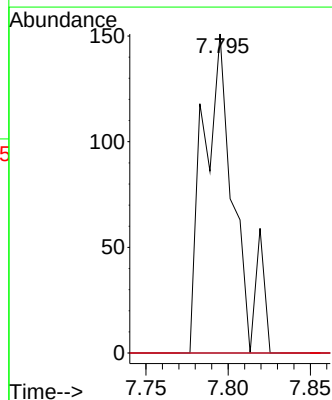
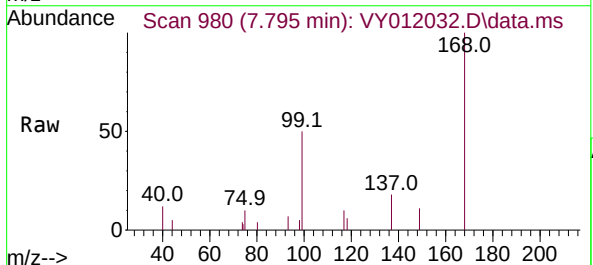
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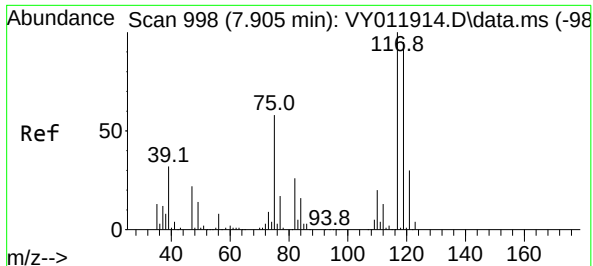
Tgt Ion:113 Resp: 888  
Ion Ratio Lower Upper  
113 100  
111 122.4 83.0 124.4  
192 11.8 16.0 24.0#



#36  
1,1-Dichloropropene  
Concen: 3.417 ug/l  
RT: 7.795 min Scan# 980  
Delta R.T. -0.122 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

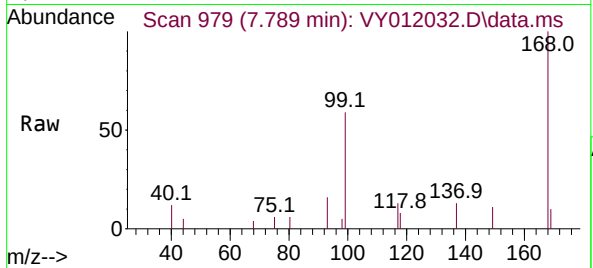
Tgt Ion: 75 Resp: 201  
Ion Ratio Lower Upper  
75 100  
110 0.0 18.1 54.1#  
77 0.0 25.1 37.7#



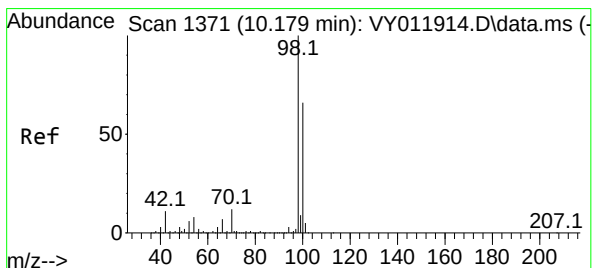
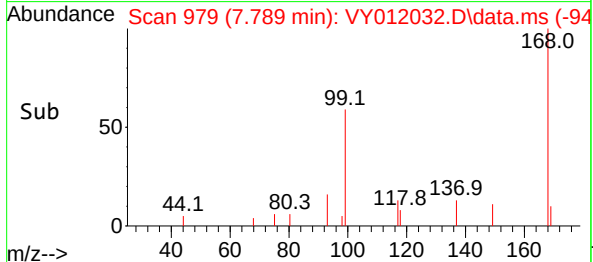
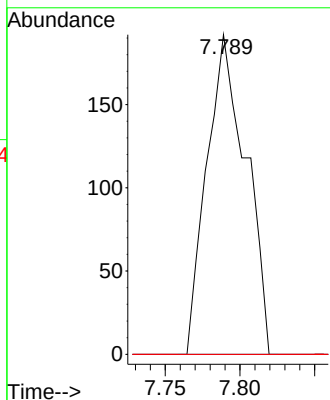


#38  
Carbon Tetrachloride  
Concen: 5.137 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

Instrument :  
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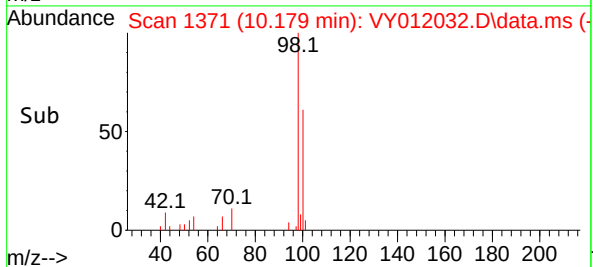
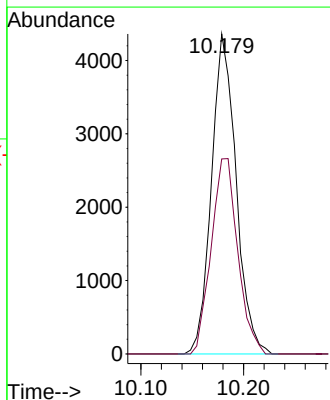
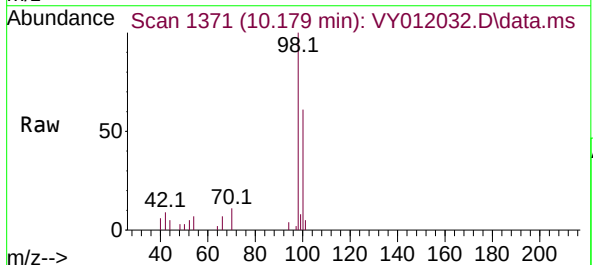


Tgt Ion:117 Resp: 349  
Ion Ratio Lower Upper  
117 100  
119 0.0 73.8 110.8#  
121 0.0 25.2 37.8#

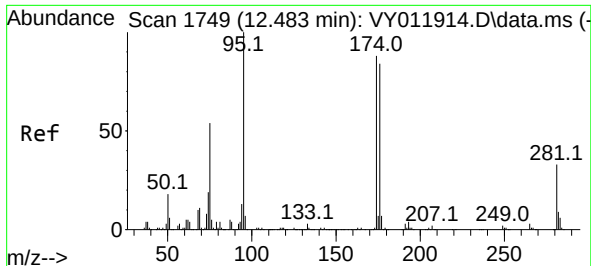


#50  
Toluene-d8  
Concen: 48.716 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

Tgt Ion: 98 Resp: 7249  
Ion Ratio Lower Upper  
98 100  
100 65.9 51.9 77.9







#62

4-Bromofluorobenzene

Concen: 41.183 ug/l

RT: 12.483 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY012032.D

Acq: 29 Dec 2022 16:49

Instrument :

MSVOA\_Y

ClientSampleId :

NB-8-122822RE

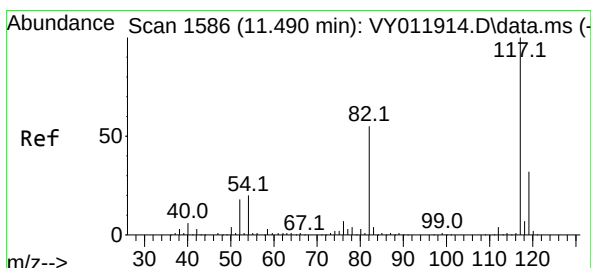
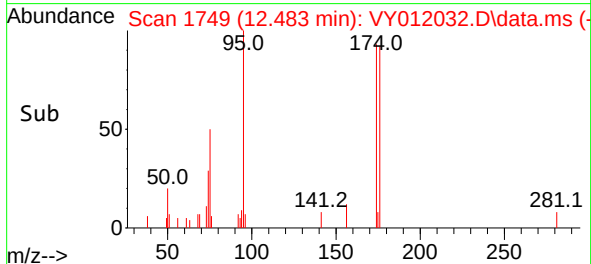
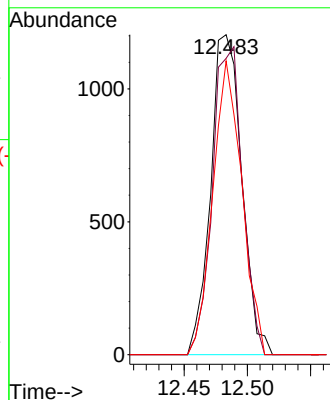
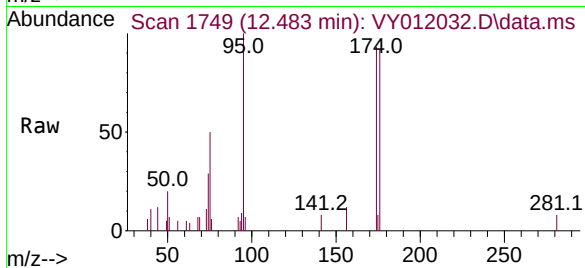
Tgt Ion: 95 Resp: 2061

Ion Ratio Lower Upper

95 100

174 93.0 0.0 172.0

176 85.7 0.0 167.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1586

Delta R.T. -0.000 min

Lab File: VY012032.D

Acq: 29 Dec 2022 16:49

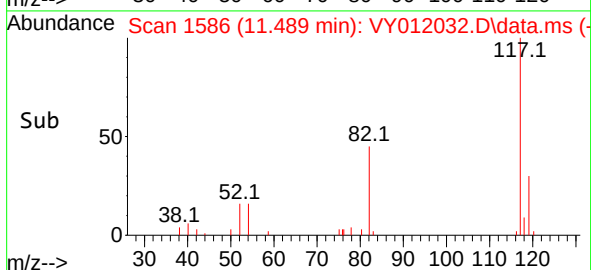
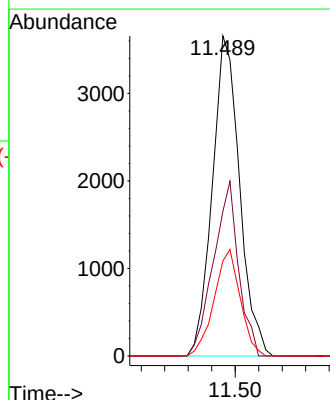
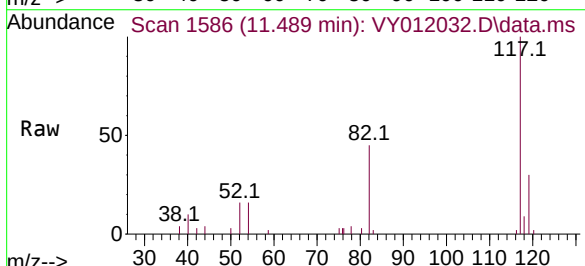
Tgt Ion: 117 Resp: 5884

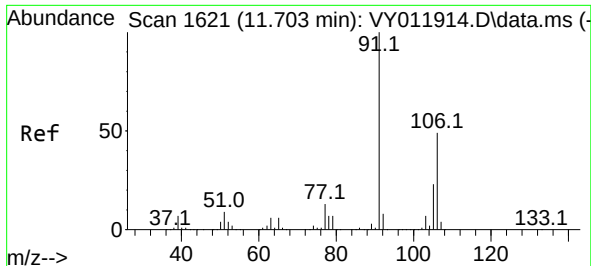
Ion Ratio Lower Upper

117 100

82 45.2 44.8 67.2

119 29.7 25.4 38.2

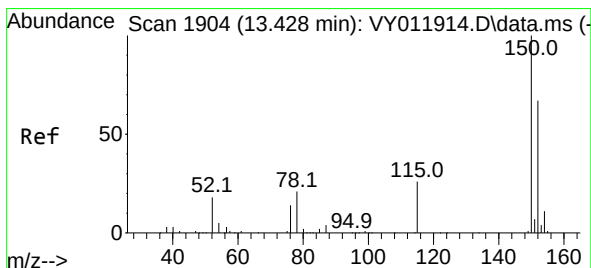
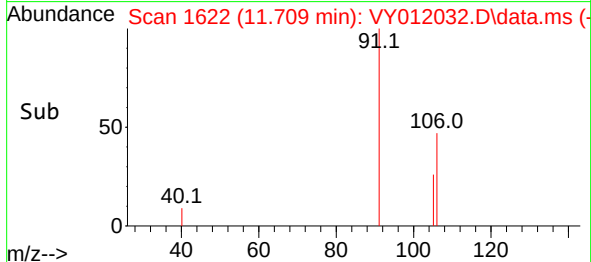
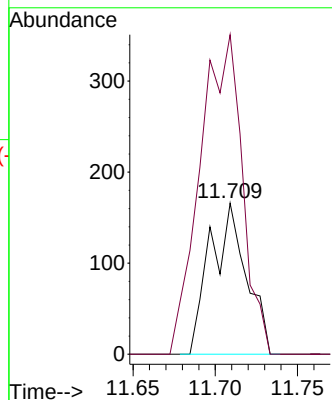
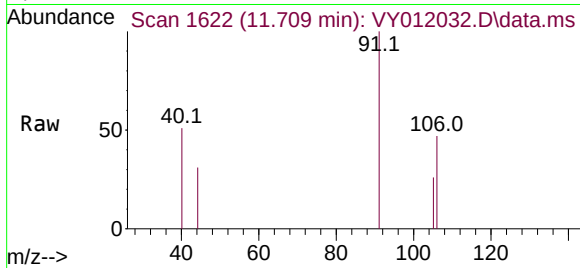




#68  
m/p-Xylenes  
Concen: 2.957 ug/l  
RT: 11.709 min Scan# 1  
Delta R.T. 0.006 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

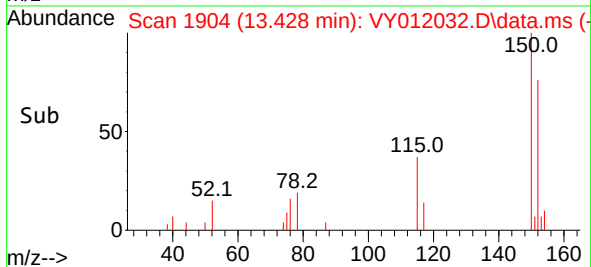
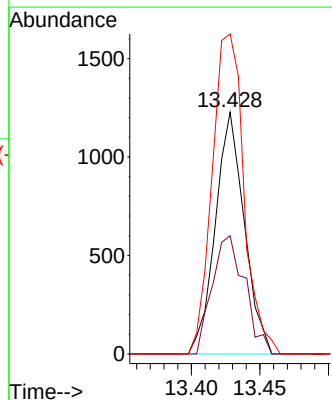
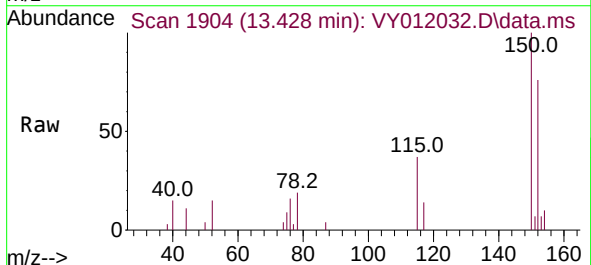
Instrument :  
MSVOA\_Y  
ClientSampleId :  
NB-8-122822RE

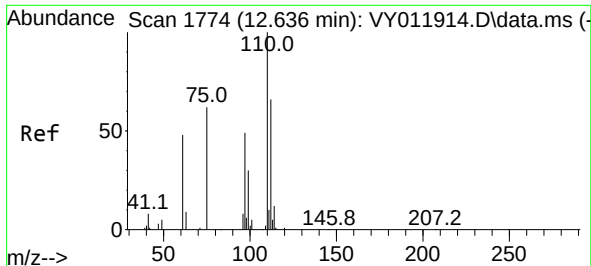
Tgt Ion:106 Resp: 254  
Ion Ratio Lower Upper  
106 100  
91 246.5 162.5 243.7#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

Tgt Ion:152 Resp: 1803  
Ion Ratio Lower Upper  
152 100  
115 55.0 29.1 87.3  
150 145.3 0.0 342.6

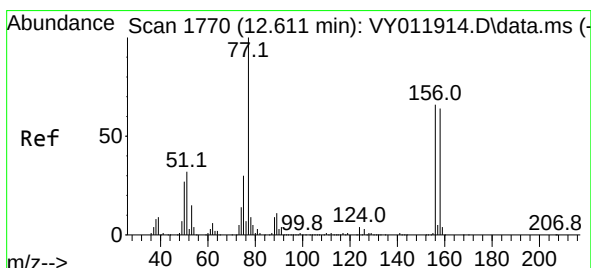
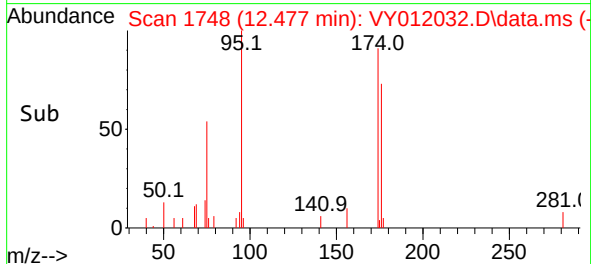
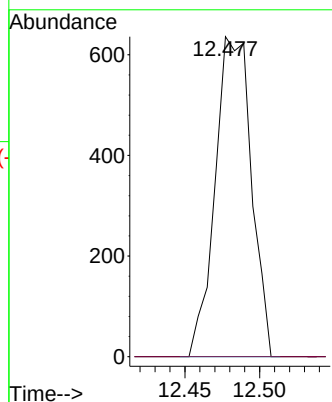
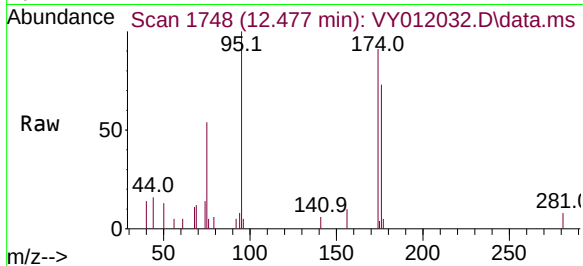




#76  
1,2,3-Trichloropropane  
Concen: 47.737 ug/l  
RT: 12.477 min Scan# 1739  
Delta R.T. -0.159 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

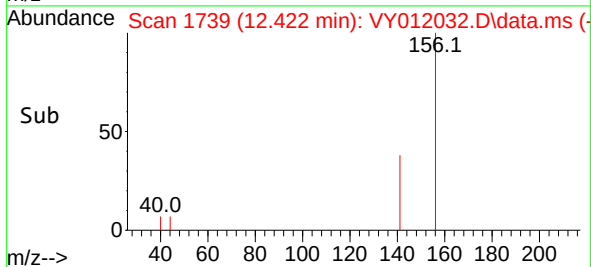
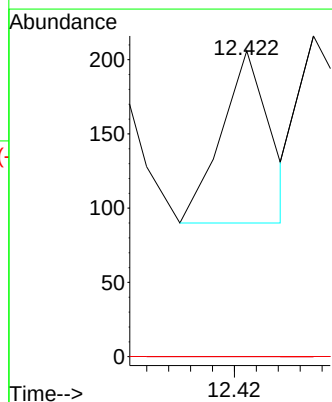
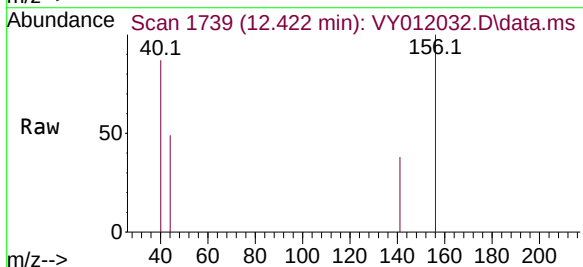
Instrument :  
MSVOA\_Y  
ClientSampleId :  
NB-8-122822RE

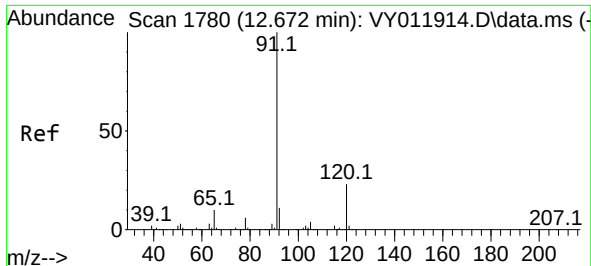
Tgt Ion: 75 Resp: 1071  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#77  
Bromobenzene  
Concen: 2.358 ug/l  
RT: 12.422 min Scan# 1739  
Delta R.T. -0.189 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

Tgt Ion: 156 Resp: 73  
Ion Ratio Lower Upper  
156 100  
77 0.0 90.0 270.0#  
158 0.0 48.4 145.2#

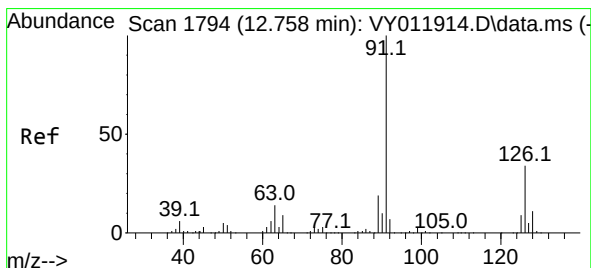
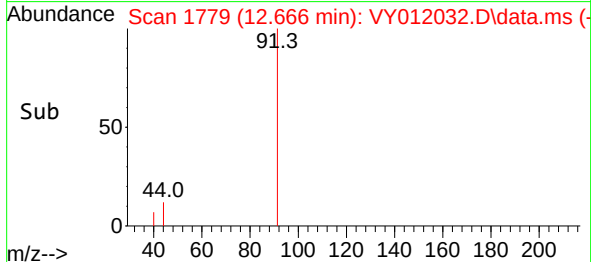
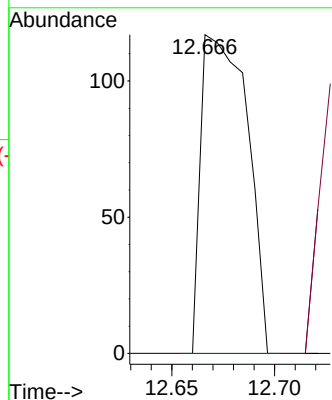
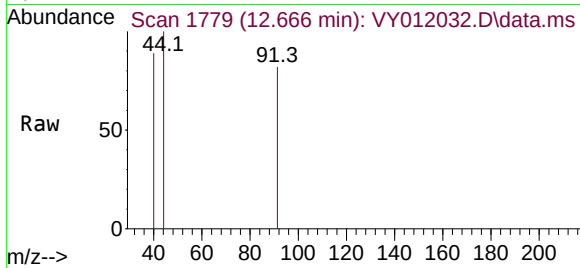




#78  
n-propylbenzene  
Concen: 1.138 ug/l  
RT: 12.666 min Scan# 1779  
Delta R.T. -0.006 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

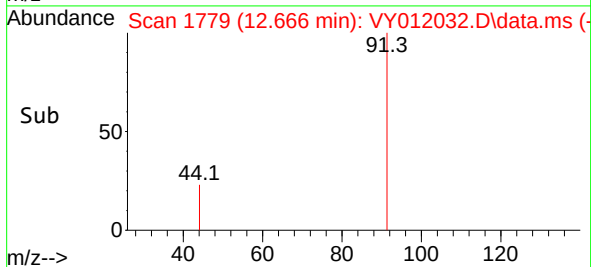
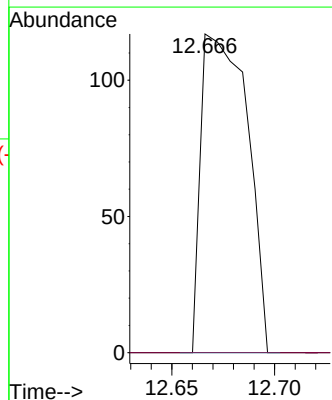
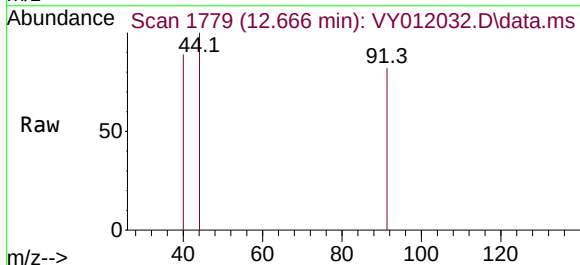
Instrument :  
MSVOA\_Y  
ClientSampleId :  
NB-8-122822RE

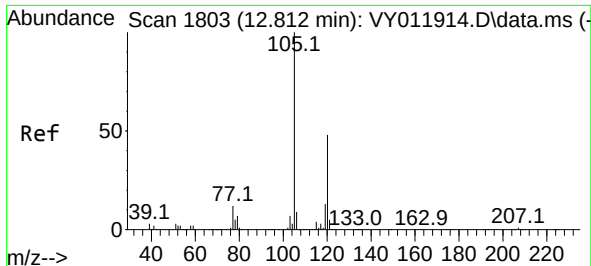
Tgt Ion: 91 Resp: 183  
Ion Ratio Lower Upper  
91 100  
120 0.0 11.8 35.4#



#79  
2-Chlorotoluene  
Concen: 2.024 ug/l  
RT: 12.666 min Scan# 1779  
Delta R.T. -0.092 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

Tgt Ion: 91 Resp: 183  
Ion Ratio Lower Upper  
91 100  
126 0.0 17.2 51.5#

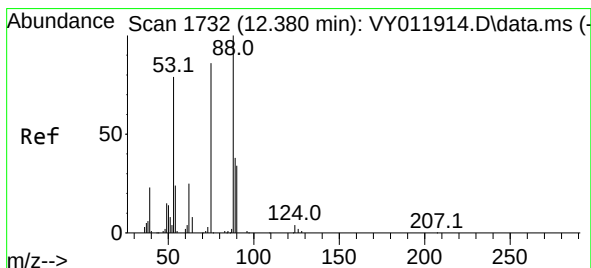
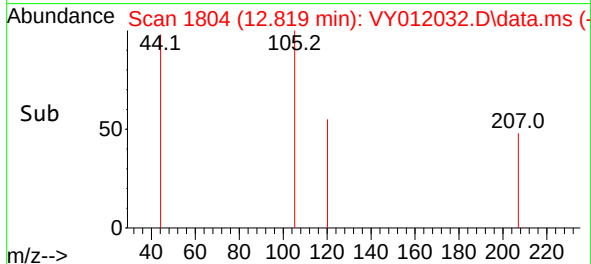
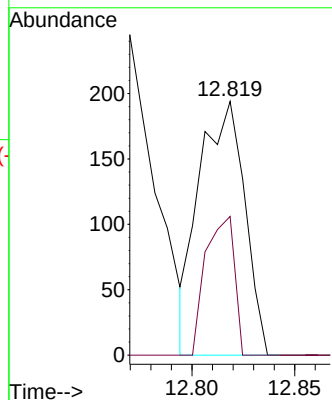
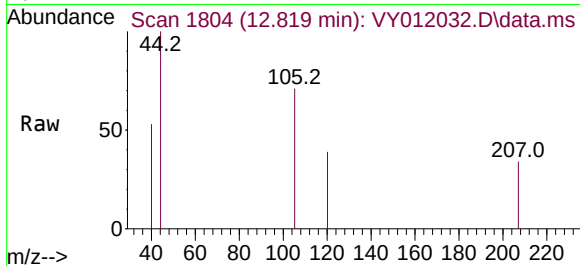




#80  
1,3,5-Trimethylbenzene  
Concen: 2.593 ug/l  
RT: 12.819 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

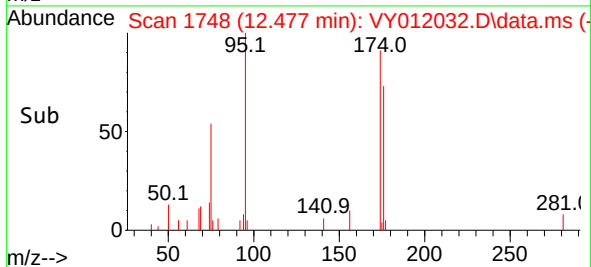
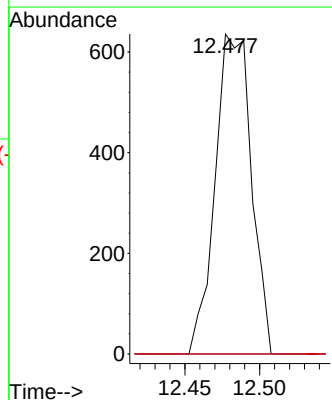
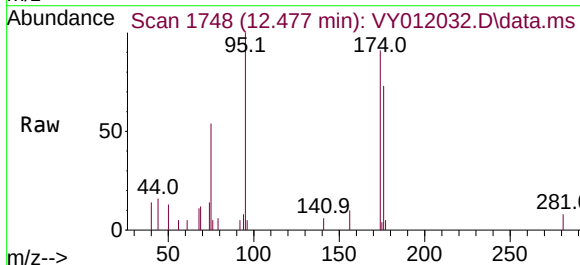
Instrument :  
MSVOA\_Y  
ClientSampleId :  
NB-8-122822RE

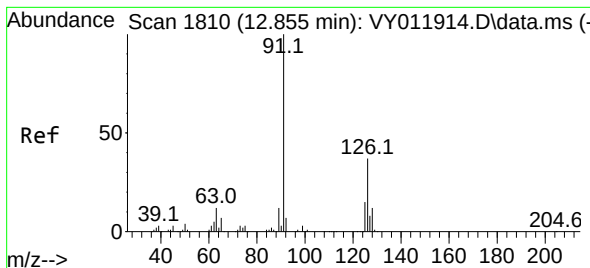
Tgt Ion:105 Resp: 297  
Ion Ratio Lower Upper  
105 100  
120 34.7 24.2 72.6



#81  
trans-1,4-Dichloro-2-butene  
Concen: 130.728 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. 0.097 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

Tgt Ion: 75 Resp: 1071  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.5 108.7#  
89 0.0 37.0 55.4#





#82

4-Chlorotoluene

Concen: 1.956 ug/l

RT: 12.666 min Scan# 11

Delta R.T. -0.189 min

Lab File: VY012032.D

Acq: 29 Dec 2022 16:49

Instrument :

MSVOA\_Y

ClientSampleId :

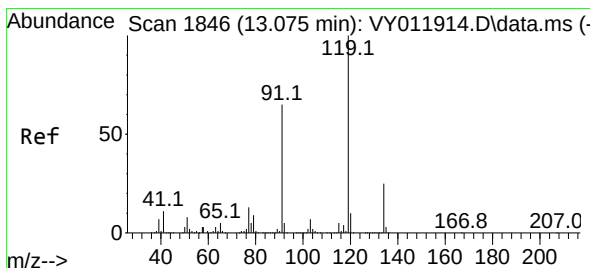
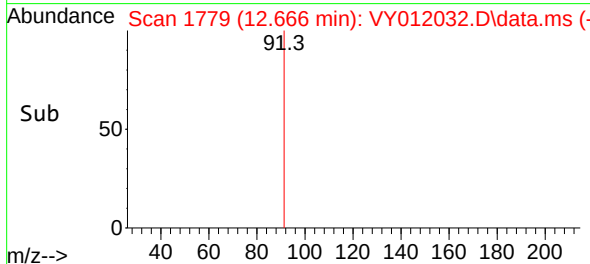
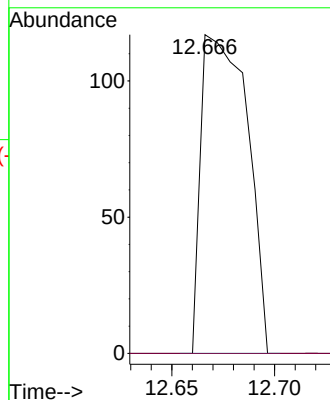
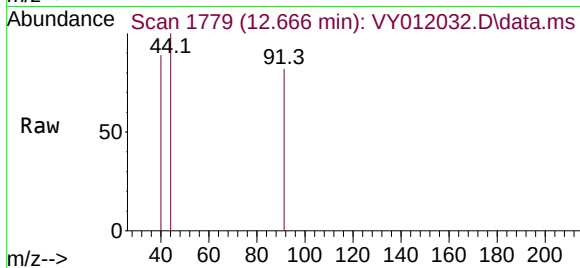
NB-8-122822RE

Tgt Ion: 91 Resp: 183

Ion Ratio Lower Upper

91 100

126 0.0 17.1 51.2#



#83

tert-Butylbenzene

Concen: 1.339 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. 0.049 min

Lab File: VY012032.D

Acq: 29 Dec 2022 16:49

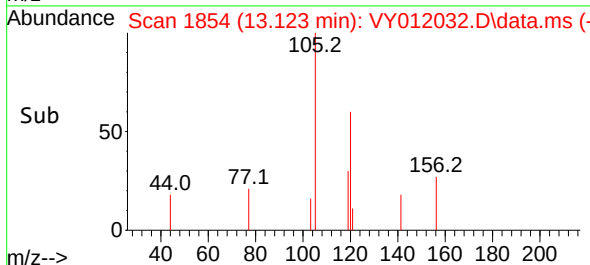
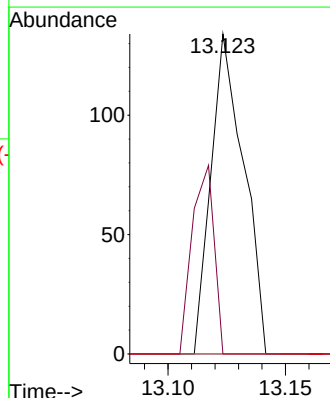
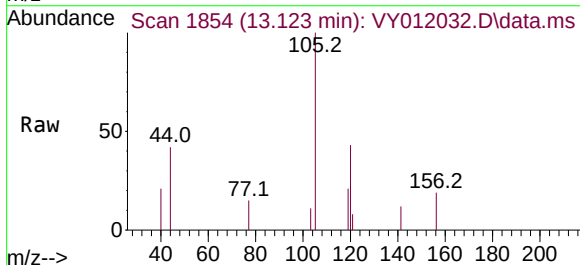
Tgt Ion: 119 Resp: 130

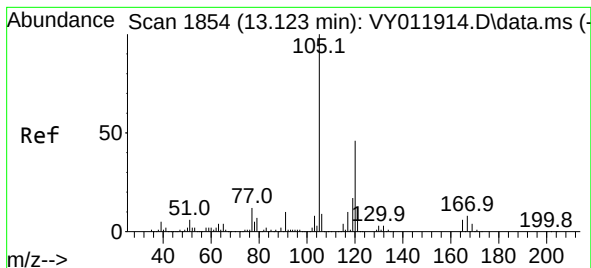
Ion Ratio Lower Upper

119 100

91 39.2 32.3 96.8

134 0.0 13.0 39.0#





#84

1,2,4-Trimethylbenzene

Concen: 8.492 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. 0.006 min

Lab File: VY012032.D

Acq: 29 Dec 2022 16:49

Instrument :

MSVOA\_Y

ClientSampleId :

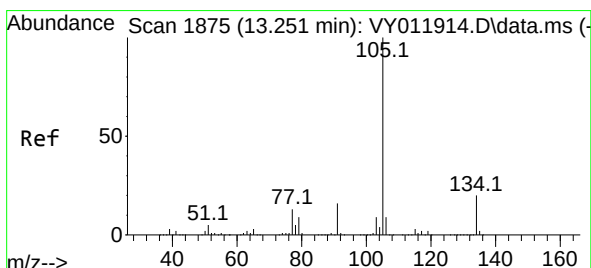
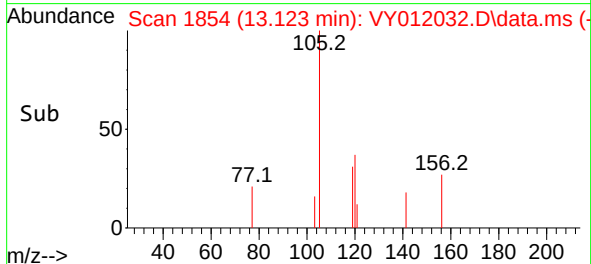
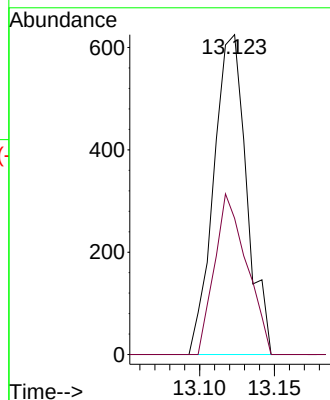
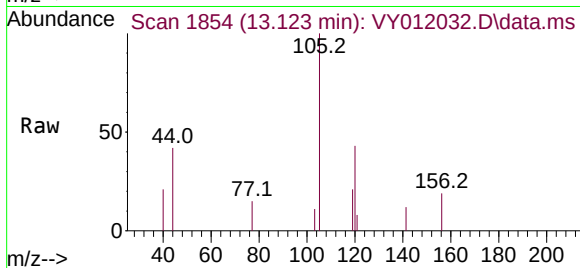
NB-8-122822RE

Tgt Ion:105 Resp: 957

Ion Ratio Lower Upper

105 100

120 48.9 22.9 68.7



#85

sec-Butylbenzene

Concen: 6.602 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. -0.128 min

Lab File: VY012032.D

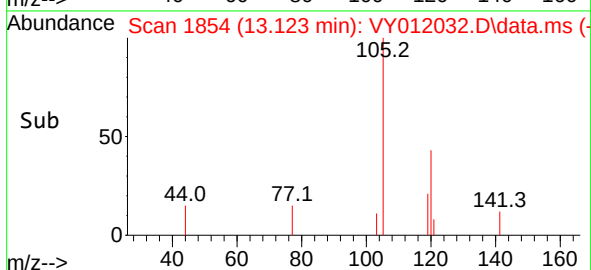
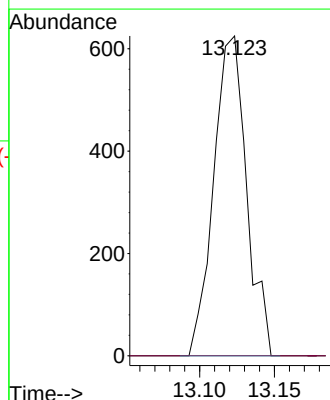
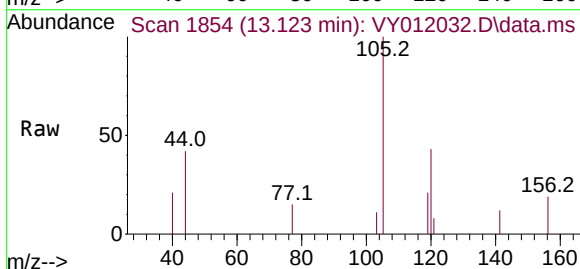
Acq: 29 Dec 2022 16:49

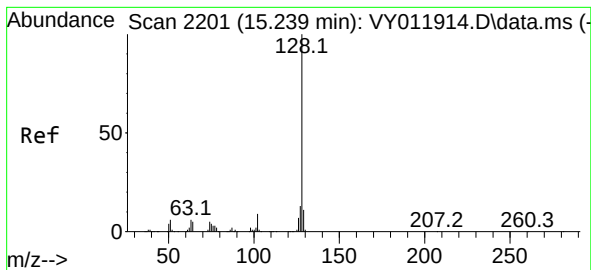
Tgt Ion:105 Resp: 957

Ion Ratio Lower Upper

105 100

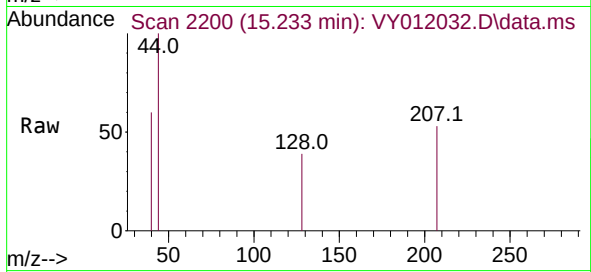
134 0.0 10.1 30.3#





#95  
Naphthalene  
Concen: 4.172 ug/l  
RT: 15.233 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VY012032.D  
Acq: 29 Dec 2022 16:49

Instrument :  
MSVOA\_Y  
ClientSampleId :  
NB-8-122822RE



Tgt Ion:128 Resp: 98  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.2 15.2#  
129 0.0 8.8 13.2#

