

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082323\  
 Data File : VY015290.D  
 Acq On : 23 Aug 2023 18:56  
 Operator : SY/MD  
 Sample : 04090-04  
 Misc : 5.19g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 24 02:35:35 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 14 12:43:26 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.789  | 168  | 133163   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.691  | 114  | 221128   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.489 | 117  | 198423   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.428 | 152  | 93893    | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.136  | 65    | 86832    | 54.321   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 108.640% |
| 35) Dibromofluoromethane    | 7.716  | 113   | 69876    | 49.119   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 98.240%  |
| 50) Toluene-d8              | 10.179 | 98    | 260869   | 49.260   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 98.520%  |
| 62) 4-Bromofluorobenzene    | 12.477 | 95    | 84920    | 43.904   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 87.800%  |

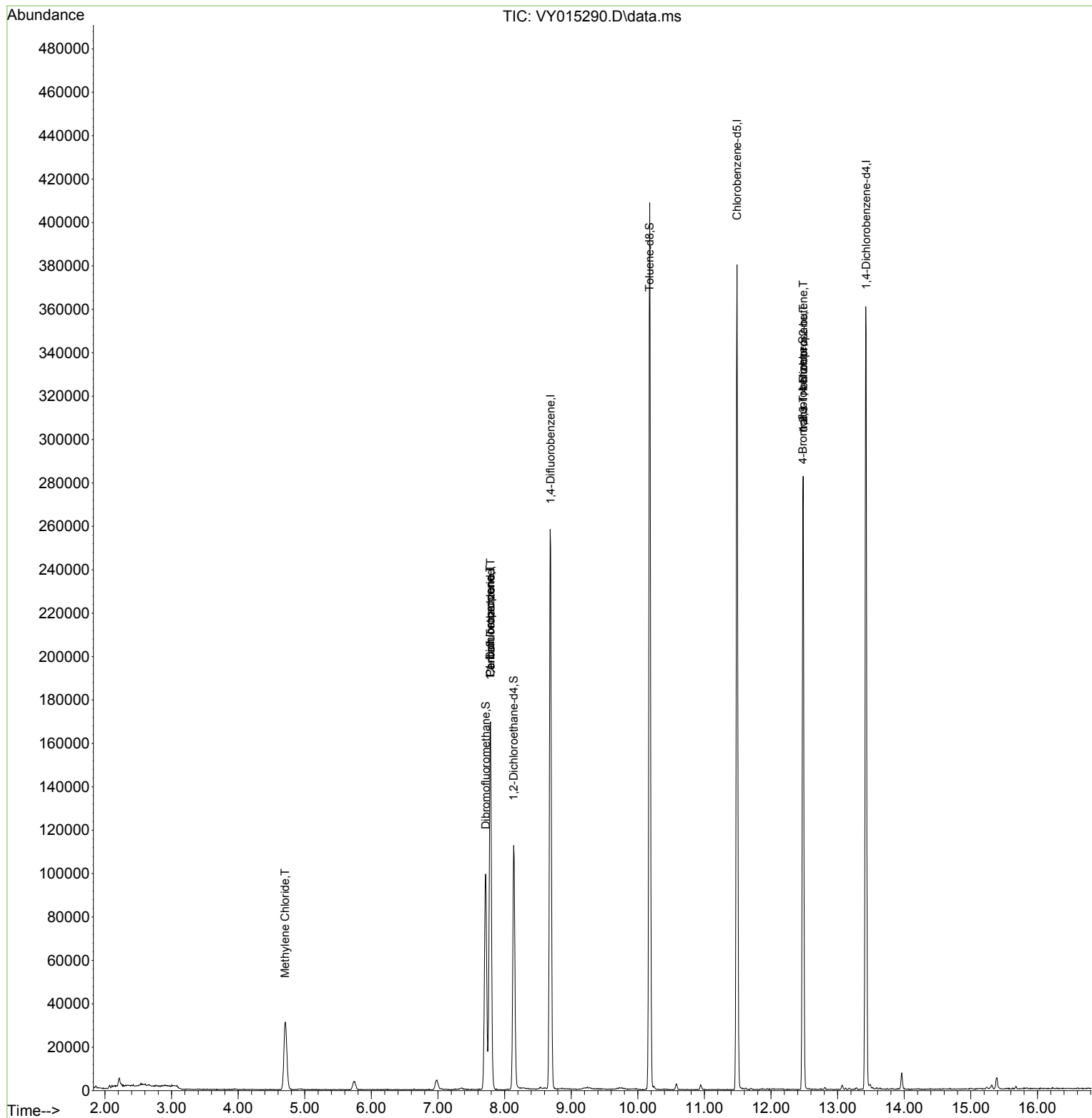
| Target Compounds              |        |     |       |           | Qvalue     |
|-------------------------------|--------|-----|-------|-----------|------------|
| 2) Dichlorodifluoromethane    | 1.894  | 85  | 34    | Below Cal | # 43       |
| 3) Chloromethane              | 2.107  | 50  | 255   | Below Cal | # 43       |
| 5) Bromomethane               | 2.649  | 94  | 192   | Below Cal | # 76       |
| 11) Tert butyl alcohol        | 4.948  | 59  | 146   | Below Cal | # 89       |
| 20) Methylene Chloride        | 4.704  | 84  | 24018 | 16.268    | ug/l 91    |
| 31) Cyclohexane               | 7.789  | 56  | 2720  | Below Cal | # 1        |
| 36) 1,1-Dichloropropene       | 7.783  | 75  | 10625 | 6.751     | ug/l # 52  |
| 38) Carbon Tetrachloride      | 7.789  | 117 | 13249 | 7.113     | ug/l # 18  |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75  | 45700 | 40.062    | ug/l # 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75  | 45700 | 87.996    | ug/l # 10  |

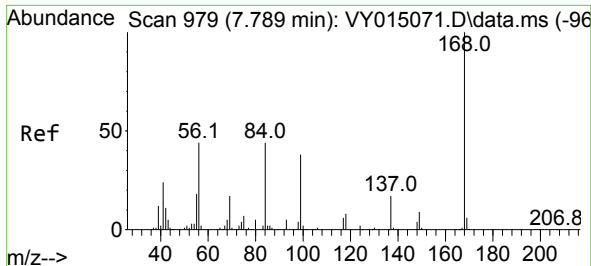
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
ClientSampleId :

Quant Time: Aug 24 02:35:35 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 14 12:43:26 2023  
Response via : Initial Calibration

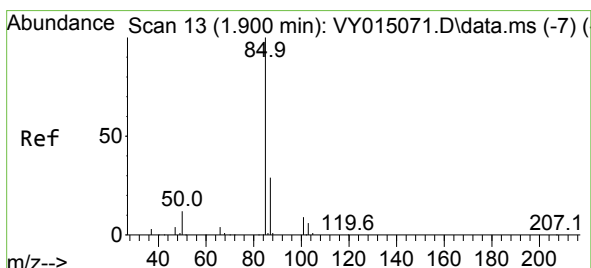
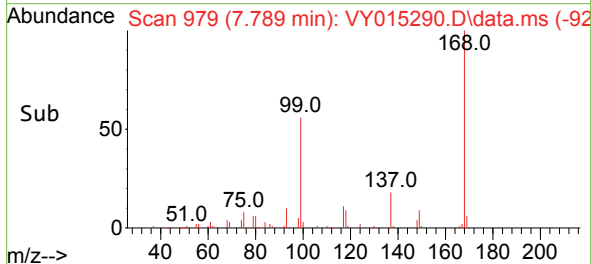
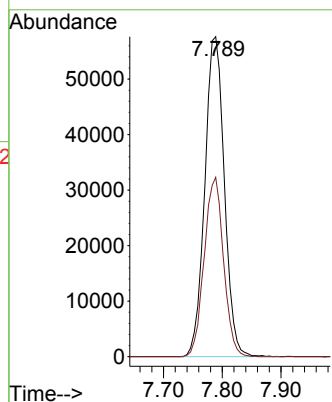
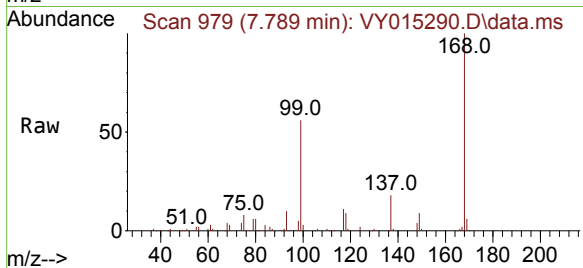




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY015290.D  
Acq: 23 Aug 2023 18:56

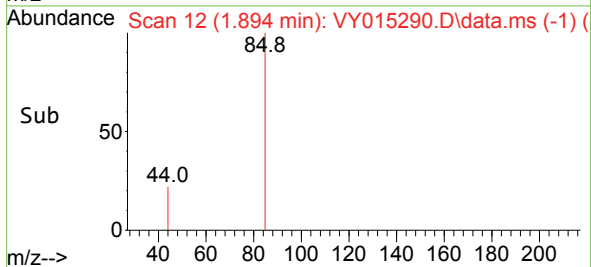
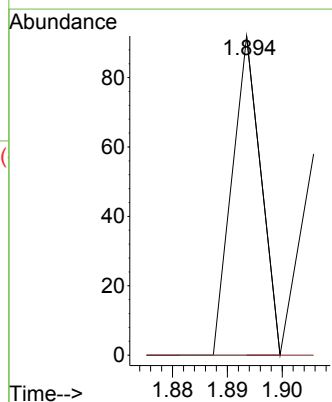
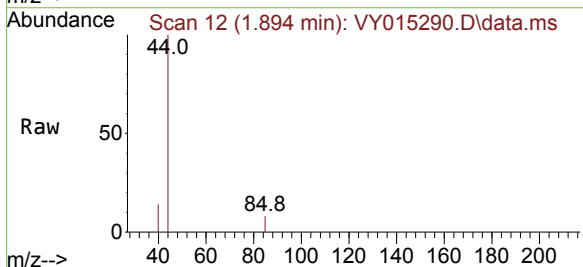
Instrument :  
MSVOA\_Y  
ClientSampleId :

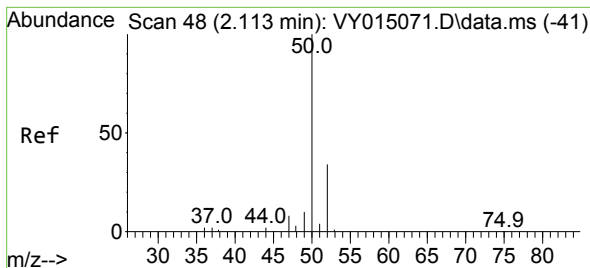
Tgt Ion:168 Resp: 133163  
Ion Ratio Lower Upper  
168 100  
99 56.0 43.4 65.0



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.894 min Scan# 12  
Delta R.T. -0.006 min  
Lab File: VY015290.D  
Acq: 23 Aug 2023 18:56

Tgt Ion: 85 Resp: 34  
Ion Ratio Lower Upper  
85 100  
87 0.0 15.6 46.8#





#3

Chloromethane

Concen: Below Cal

RT: 2.107 min Scan# 41

Delta R.T. -0.000 min

Lab File: VY015290.D

Acq: 23 Aug 2023 18:56

Instrument :

MSVOA\_Y

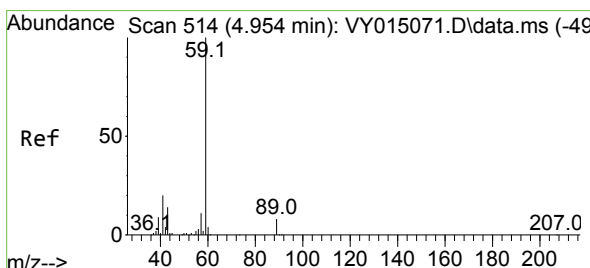
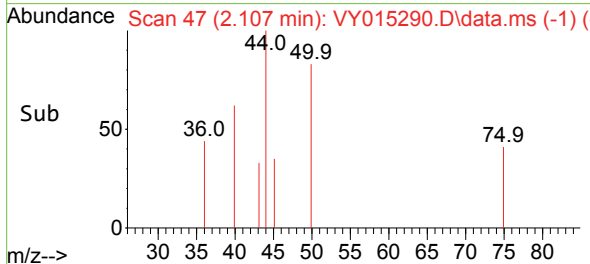
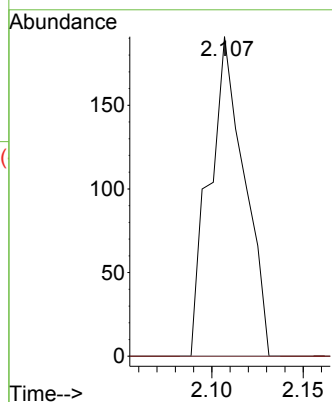
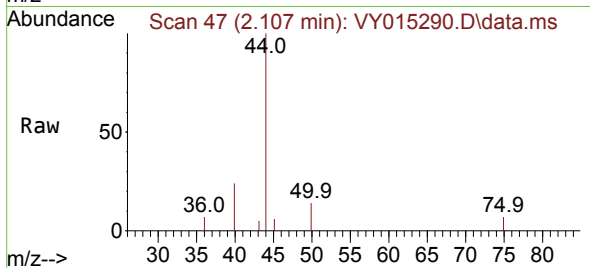
ClientSampleId :

Tgt Ion: 50 Resp: 255

Ion Ratio Lower Upper

50 100

52 0.0 25.4 38.2#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.948 min Scan# 513

Delta R.T. -0.000 min

Lab File: VY015290.D

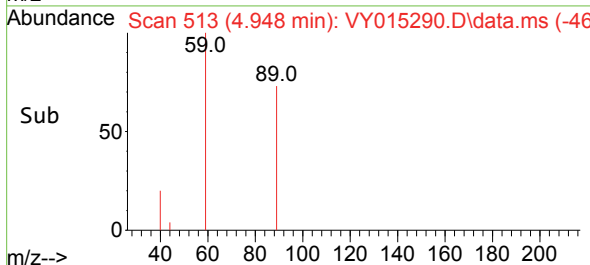
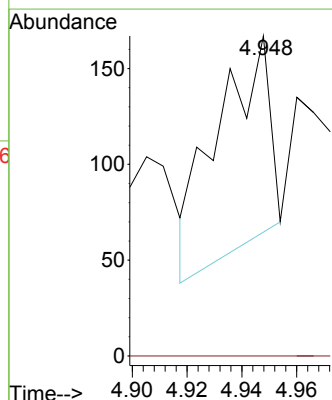
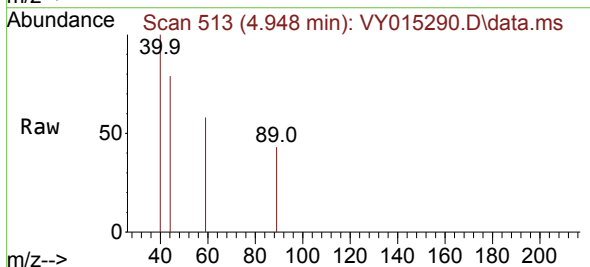
Acq: 23 Aug 2023 18:56

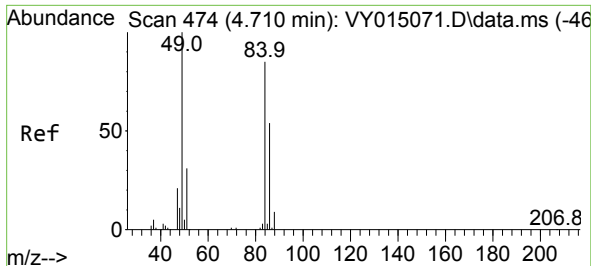
Tgt Ion: 59 Resp: 146

Ion Ratio Lower Upper

59 100

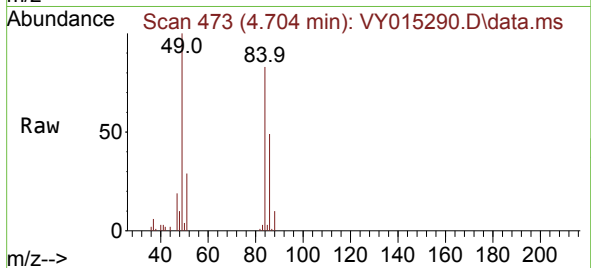
57 0.0 3.0 4.4#



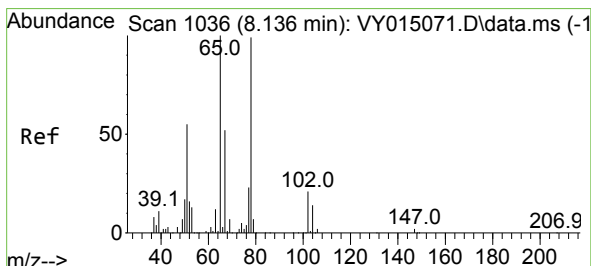
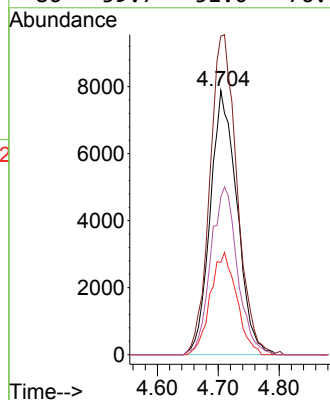
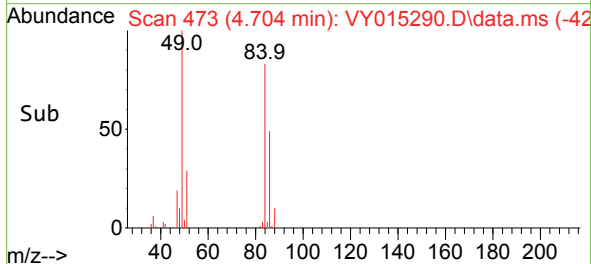


#20  
Methylene Chloride  
Concen: 16.268 ug/l  
RT: 4.704 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VY015290.D  
Acq: 23 Aug 2023 18:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

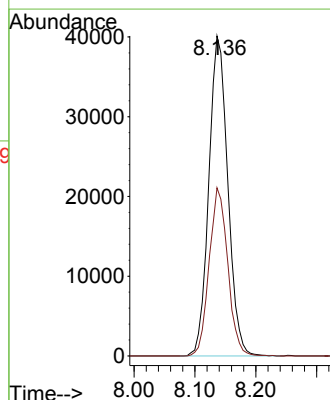
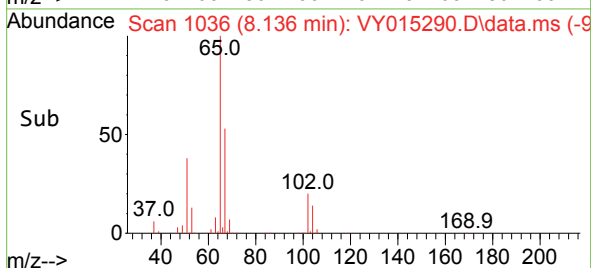
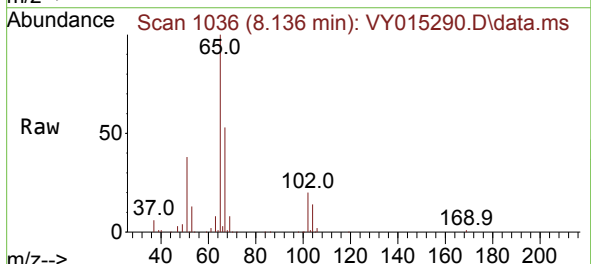


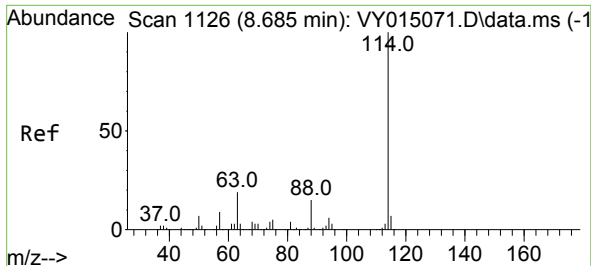
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 24018 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 120.6 | 106.9 | 160.3 |
| 51       | 35.0  | 33.2  | 49.8  |
| 86       | 59.7  | 51.0  | 76.6  |



#33  
1,2-Dichloroethane-d4  
Concen: 54.321 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. -0.000 min  
Lab File: VY015290.D  
Acq: 23 Aug 2023 18:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 65    | Resp: | 86832 |
| Ion      | Ratio | Lower | Upper |
| 65       | 100   |       |       |
| 67       | 51.4  | 0.0   | 101.8 |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VY015290.D

Acq: 23 Aug 2023 18:56

Instrument :

MSVOA\_Y

ClientSampleId :

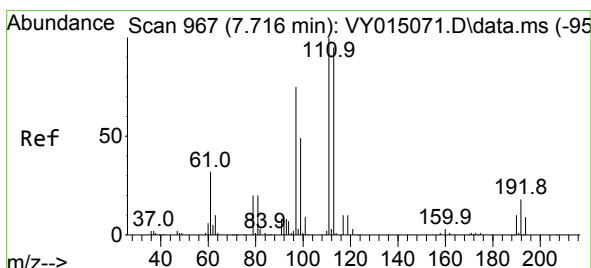
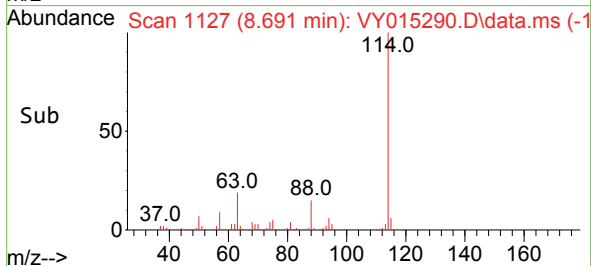
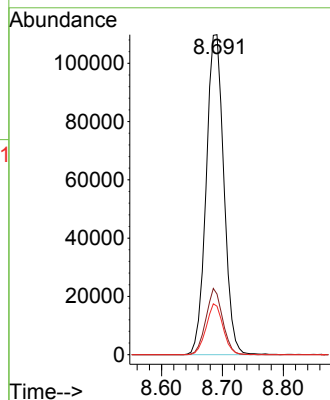
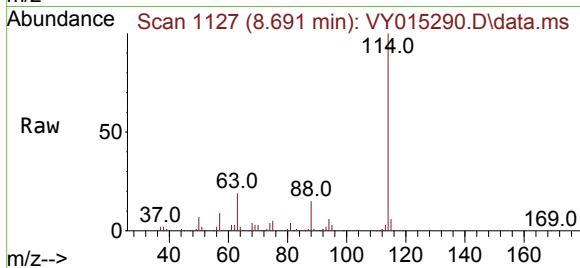
Tgt Ion:114 Resp: 221128

Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.4

88 15.2 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.119 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY015290.D

Acq: 23 Aug 2023 18:56

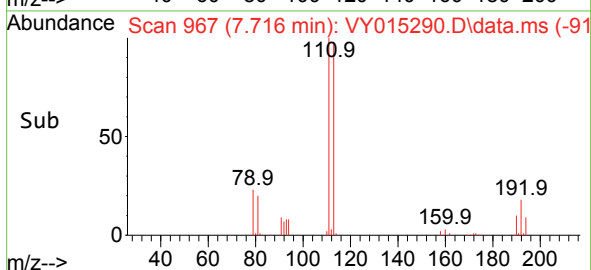
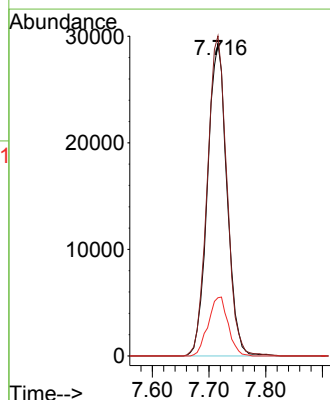
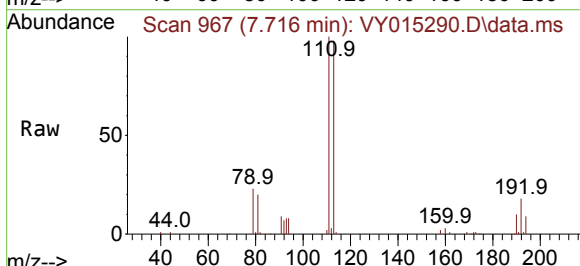
Tgt Ion:113 Resp: 69876

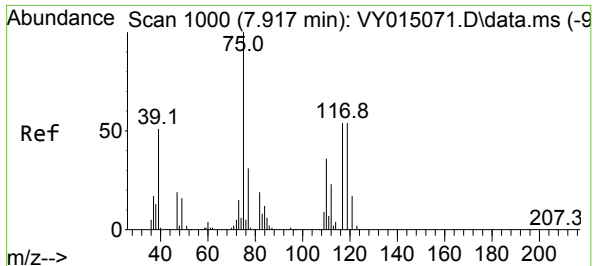
Ion Ratio Lower Upper

113 100

111 102.8 81.3 121.9

192 19.3 16.9 25.3





#36

1,1-Dichloropropene

Concen: 6.751 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.128 min

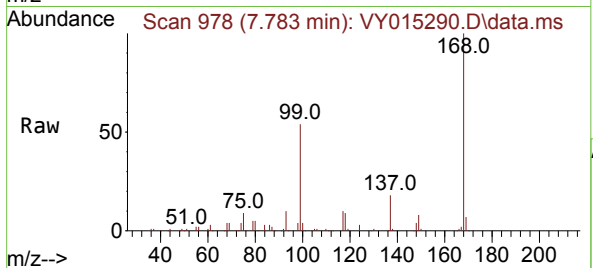
Lab File: VY015290.D

Acq: 23 Aug 2023 18:56

Instrument :

MSVOA\_Y

ClientSampleId :



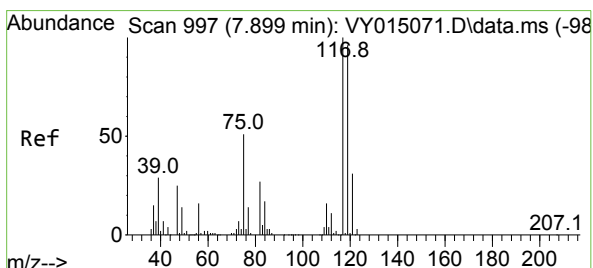
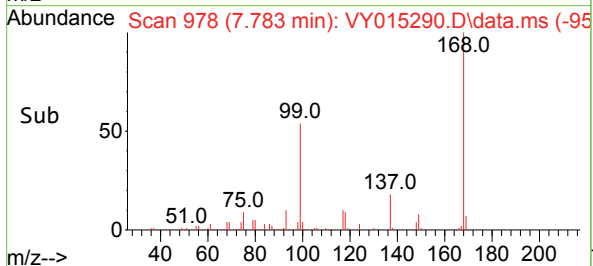
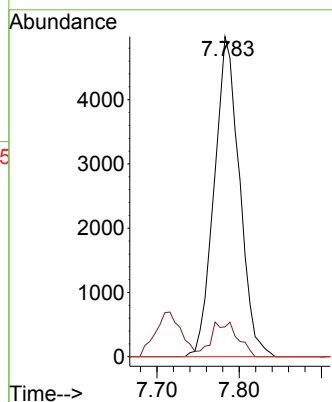
Tgt Ion: 75 Resp: 10625

Ion Ratio Lower Upper

75 100

110 11.1 17.8 53.5#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 7.113 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY015290.D

Acq: 23 Aug 2023 18:56

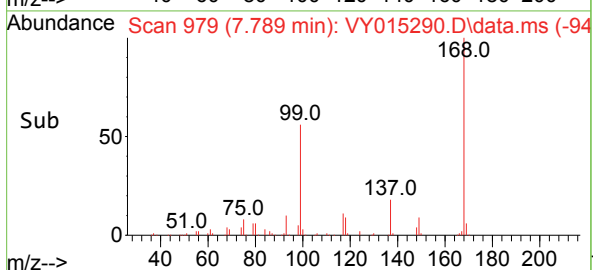
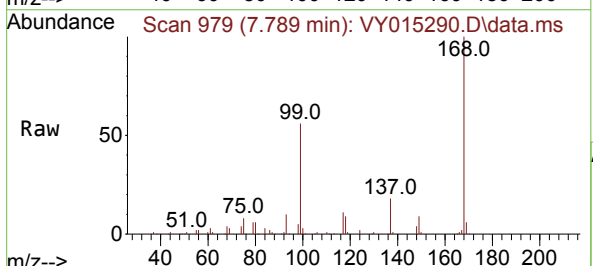
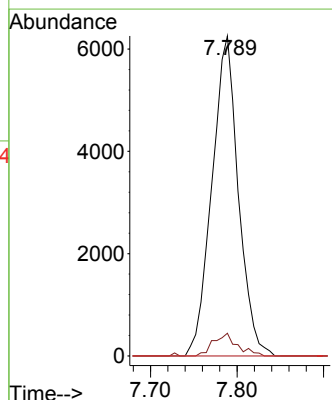
Tgt Ion: 117 Resp: 13249

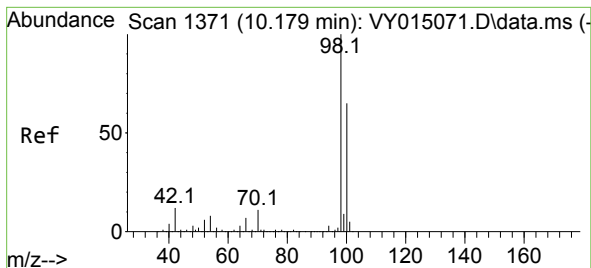
Ion Ratio Lower Upper

117 100

119 7.1 76.4 114.6#

121 0.0 25.8 38.6#

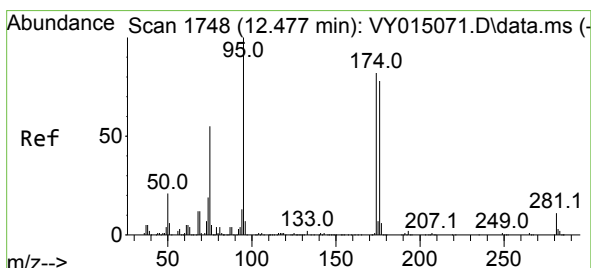
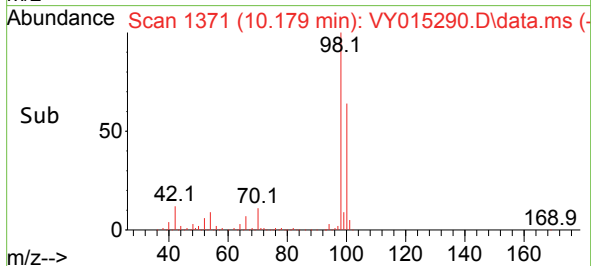
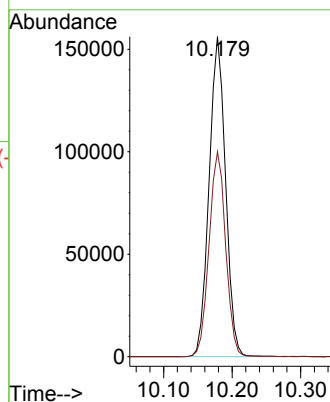
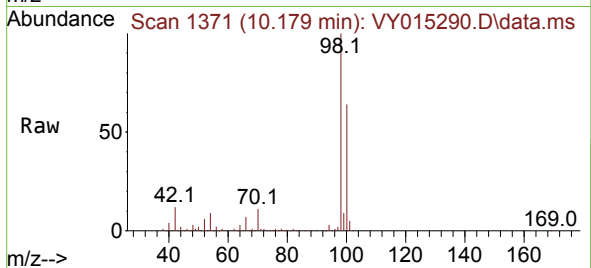




#50  
Toluene-d8  
Concen: 49.260 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY015290.D  
Acq: 23 Aug 2023 18:56

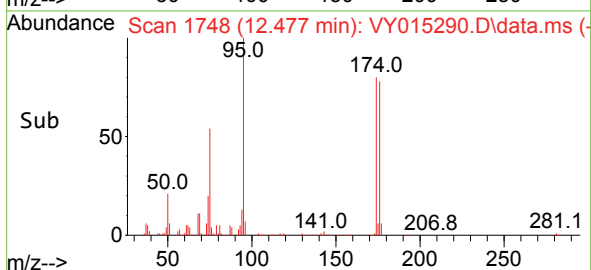
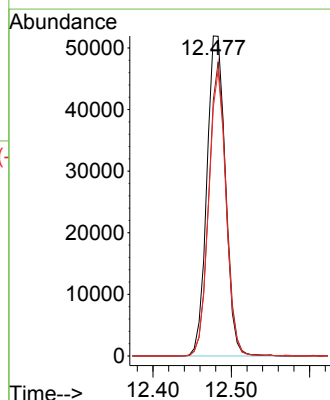
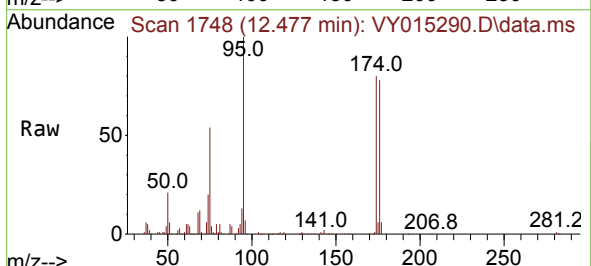
Instrument :  
MSVOA\_Y  
ClientSampleId :

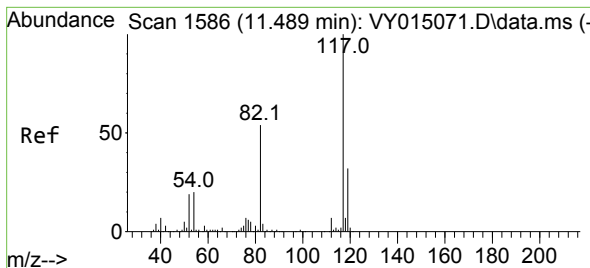
Tgt Ion: 98 Resp: 260869  
Ion Ratio Lower Upper  
98 100  
100 64.7 50.1 75.1



#62  
4-Bromofluorobenzene  
Concen: 43.904 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.000 min  
Lab File: VY015290.D  
Acq: 23 Aug 2023 18:56

Tgt Ion: 95 Resp: 84920  
Ion Ratio Lower Upper  
95 100  
174 86.5 0.0 178.2  
176 83.5 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY015290.D

Acq: 23 Aug 2023 18:56

Instrument :

MSVOA\_Y

ClientSampleId :

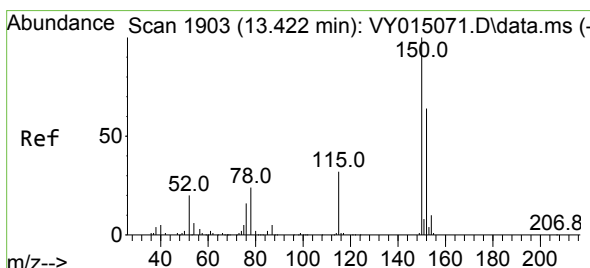
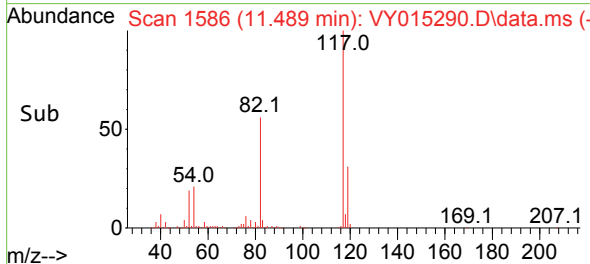
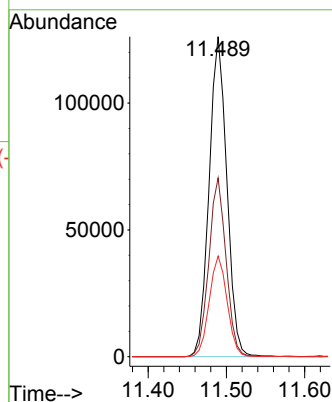
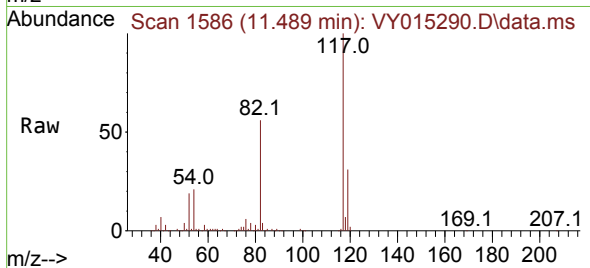
Tgt Ion:117 Resp: 198423

Ion Ratio Lower Upper

117 100

82 55.8 43.4 65.0

119 31.4 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY015290.D

Acq: 23 Aug 2023 18:56

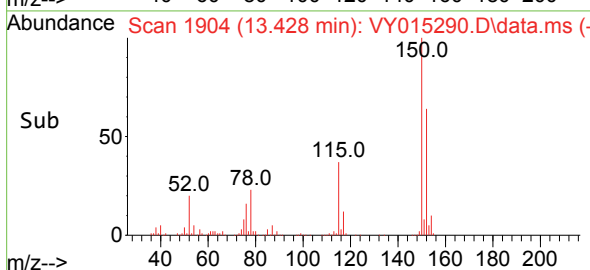
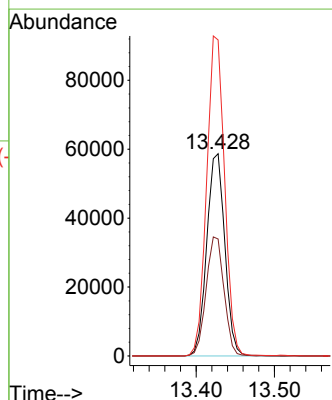
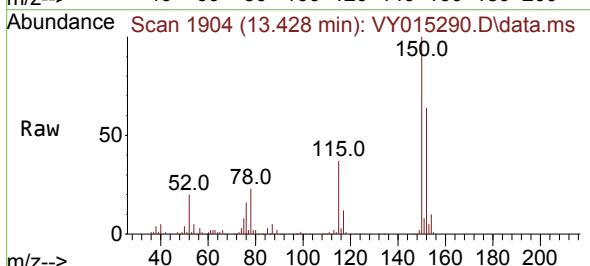
Tgt Ion:152 Resp: 93893

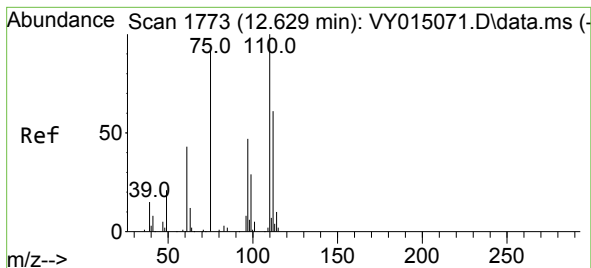
Ion Ratio Lower Upper

152 100

115 58.4 28.8 86.5

150 156.9 0.0 348.8

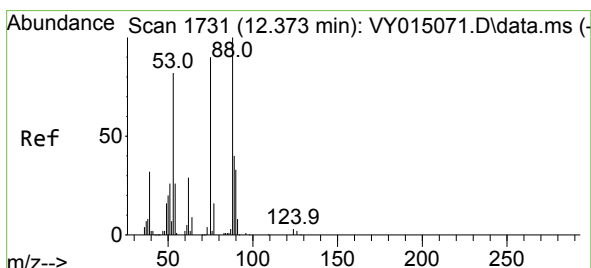
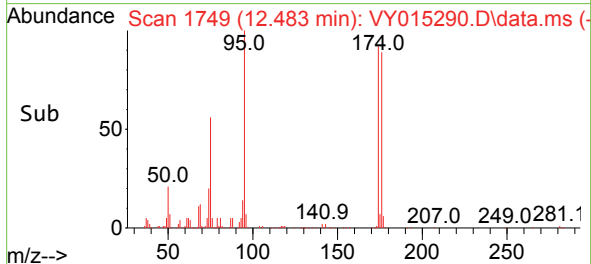
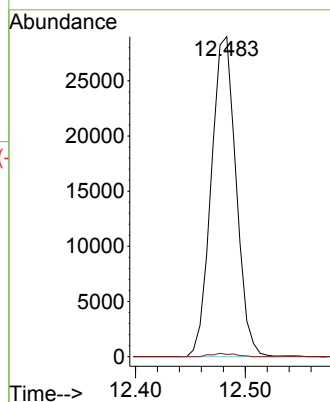
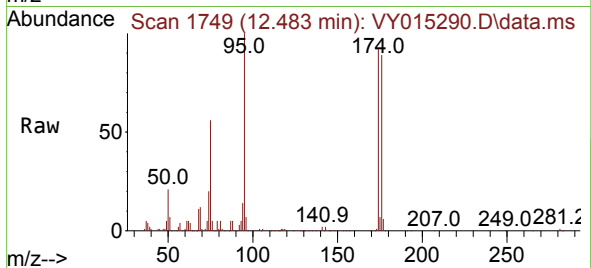




#76  
1,2,3-Trichloropropane  
Concen: 40.062 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.146 min  
Lab File: VY015290.D  
Acq: 23 Aug 2023 18:56

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 75 Resp: 45700  
Ion Ratio Lower Upper  
75 100  
77 1.0 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 87.996 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.110 min  
Lab File: VY015290.D  
Acq: 23 Aug 2023 18:56

Tgt Ion: 75 Resp: 45700  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.8 116.8#  
89 0.0 37.4 56.0#

