

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY121819\  
 Data File : VY000992.D  
 Acq On : 18 Dec 2019 12:08  
 Operator : SY/MD  
 Sample : VY1218SBL01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Dec 19 04:51:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 27 12:40:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 233118   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 433582   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 390040   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 167492   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 133144   | 53.75 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 107.50% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 128110   | 50.70 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.40% |          |
| 50) Toluene-d8              | 10.18 | 98   | 519204   | 51.39 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 102.78% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 165687   | 43.67 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 87.34%  |          |

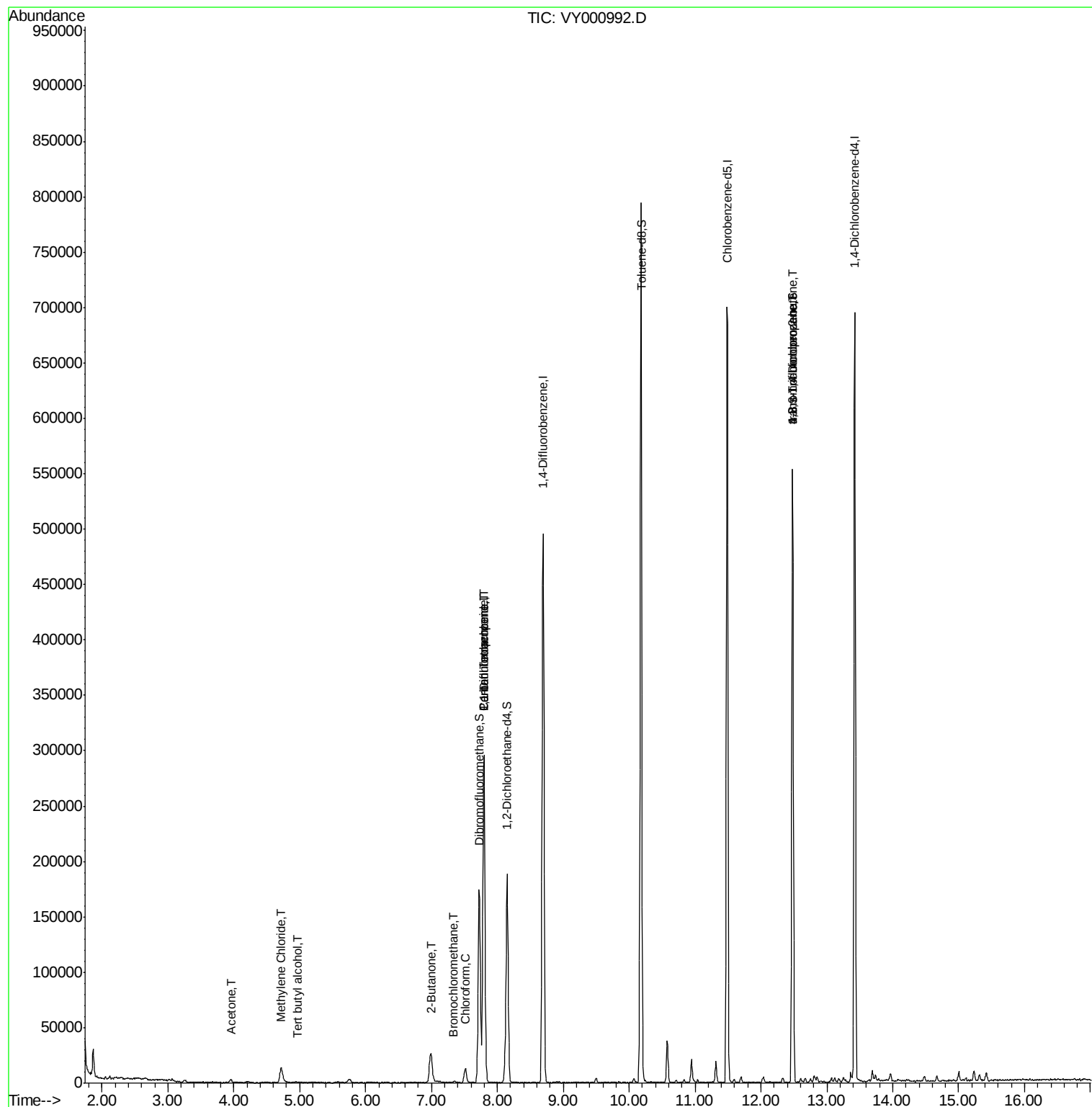
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.66  | 94   | 183      | Below Cal | #      | 65     |
| 11) Tert butyl alcohol         | 4.96  | 59   | 257      | 1.03      | ug/l # | 74     |
| 16) Acetone                    | 3.96  | 43   | 4192     | 7.38      | ug/l   | 98     |
| 20) Methylene Chloride         | 4.72  | 84   | 10195    | 3.40      | ug/l   | 87     |
| 25) 2-Butanone                 | 7.00  | 43   | 2724     | 2.60      | ug/l # | 72     |
| 28) Bromochloromethane         | 7.34  | 49   | 159      | 2.10      | ug/l # | 80     |
| 30) Chloroform                 | 7.51  | 83   | 12419    | 2.49      | ug/l   | 85     |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 18605    | 4.32      | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 23227    | 6.05      | ug/l # | 14     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 84217    | 44.38     | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 84217    | 87.17     | ug/l # | 17     |

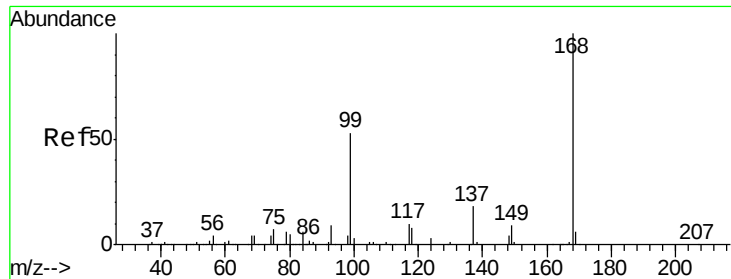
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY121819\  
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Sample : VY1218SBL01  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Dec 19 04:51:21 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112719S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 27 12:40:47 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY000992.D

Acq: 18 Dec 2019 12:08

Instrument :

MSVOA\_Y

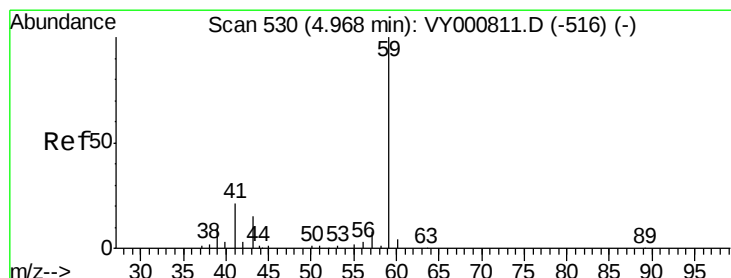
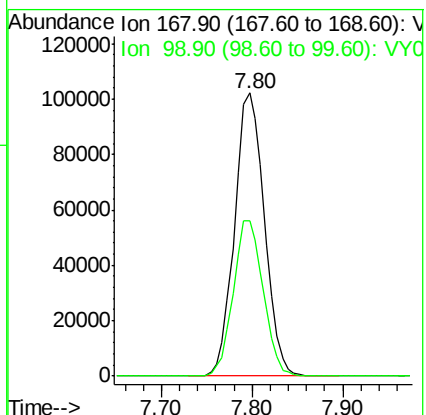
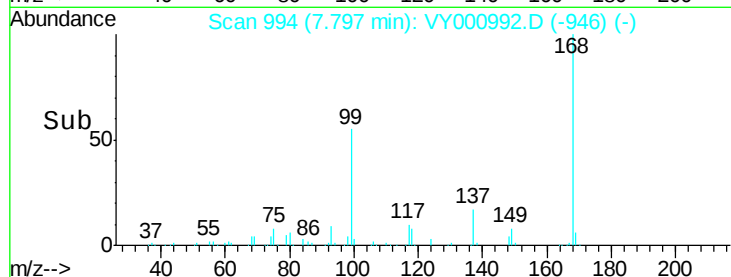
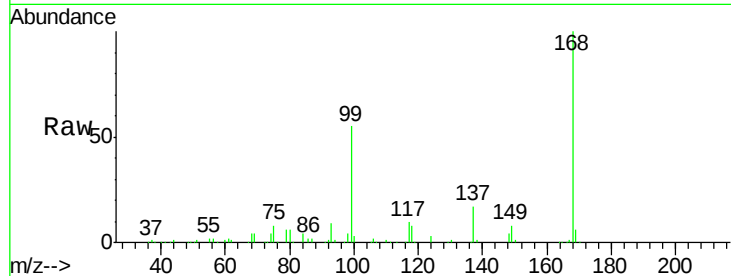
ClientSampleId :

Tot Ion:168 Resp: 233118

Ion Ratio Lower Upper

168 100

99 54.7 45.0 67.6



#11

Tert butyl alcohol

Concen: 1.03 ug/l

RT: 4.96 min Scan# 529

Delta R.T. -0.01 min

Lab File: VY000992.D

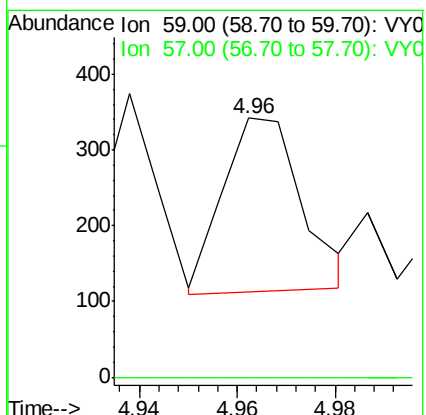
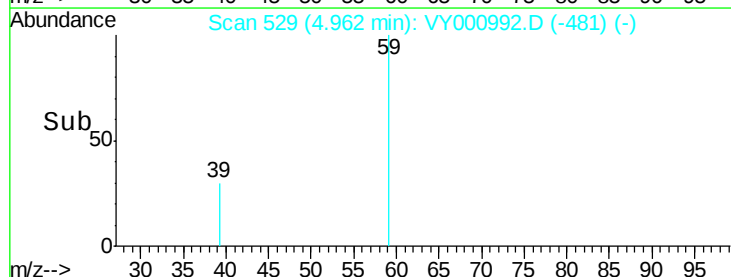
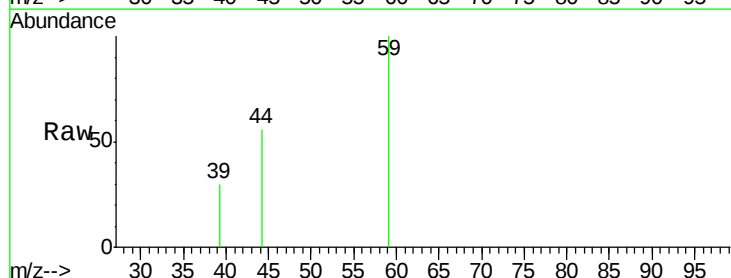
Acq: 18 Dec 2019 12:08

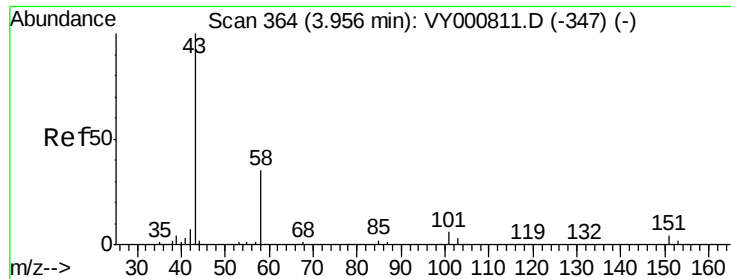
Tgt Ion: 59 Resp: 257

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#





#16

Acetone

Concen: 7.38 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VY000992.D

Acq: 18 Dec 2019 12:08

Instrument :

MSVOA\_Y

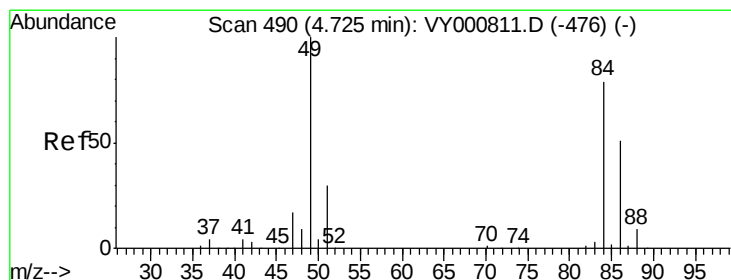
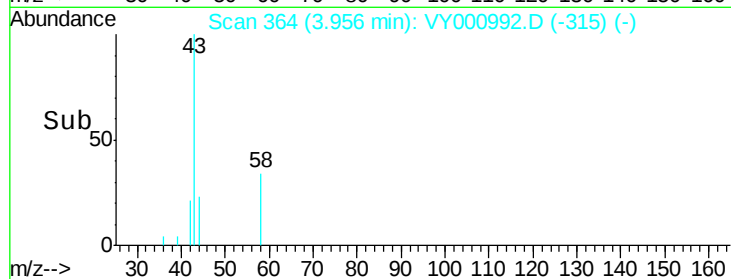
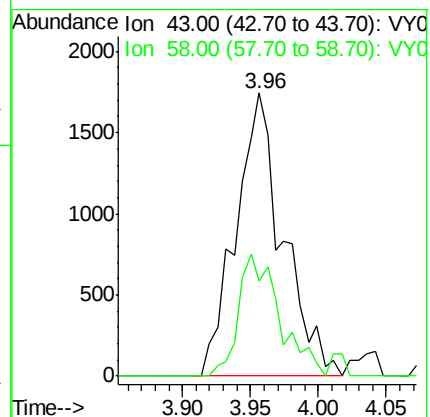
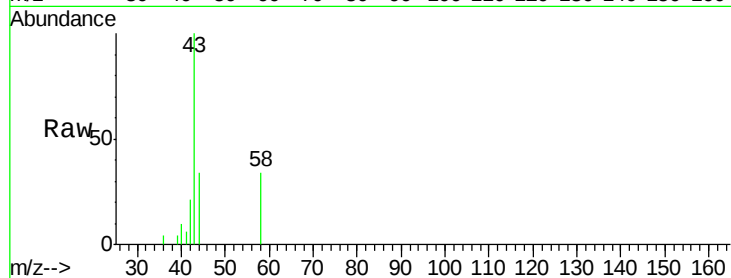
ClientSampleId :

Tot Ion: 43 Resp: 4192

Ion Ratio Lower Upper

43 100

58 33.8 28.0 42.0



#20

Methylene Chloride

Concen: 3.40 ug/l

RT: 4.72 min Scan# 490

Delta R.T. -0.00 min

Lab File: VY000992.D

Acq: 18 Dec 2019 12:08

Tgt Ion: 84 Resp: 10195

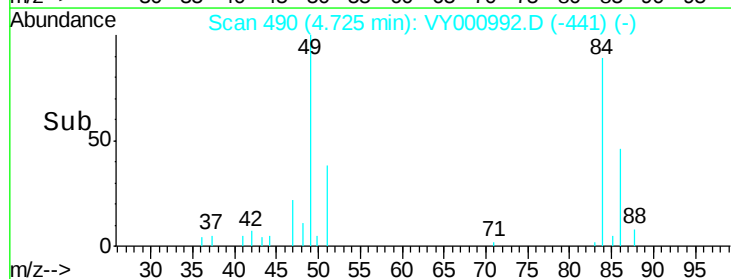
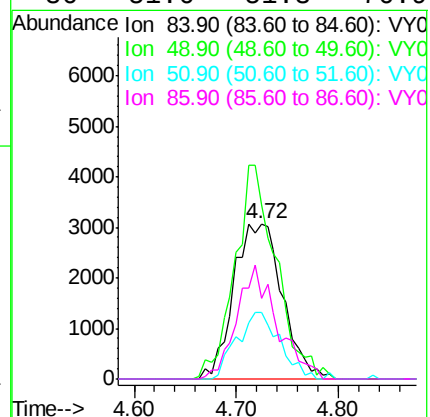
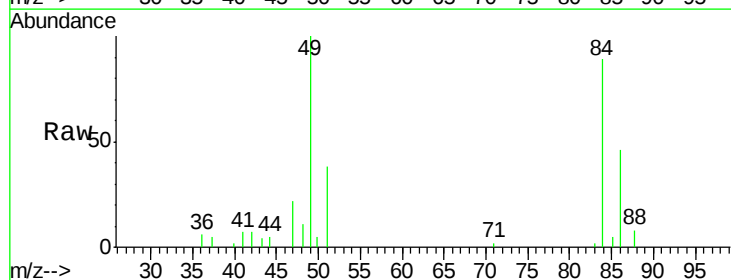
Ion Ratio Lower Upper

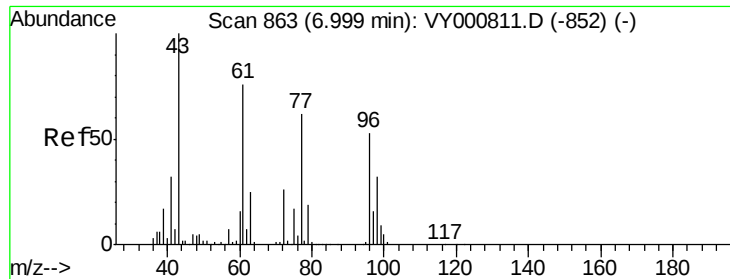
84 100

49 111.9 101.3 151.9

51 42.9 30.6 45.8

86 51.6 51.3 76.9





#25

2-Butanone

Concen: 2.60 ug/l

RT: 7.00 min Scan# 864

Delta R.T. 0.01 min

Lab File: VY000992.D

Acq: 18 Dec 2019 12:08

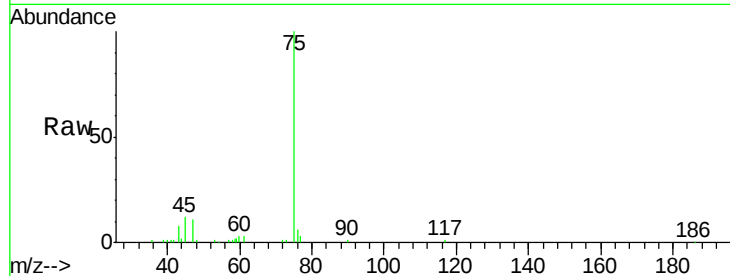
Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion: 43 Resp: 2724

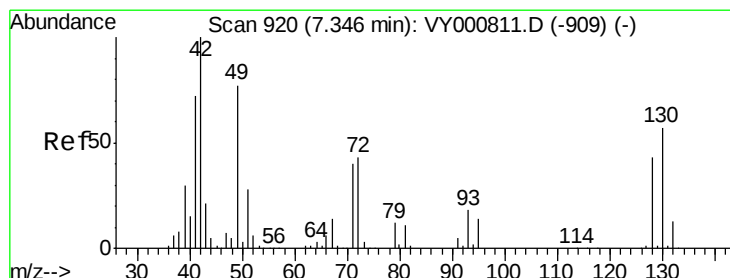
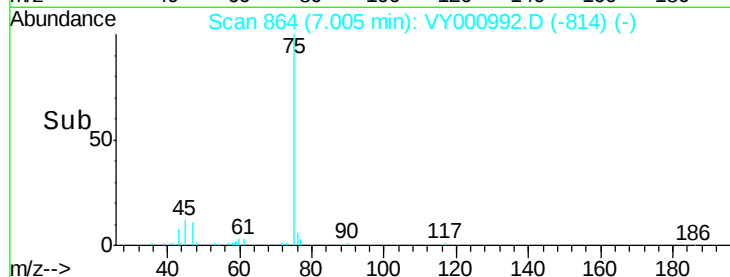
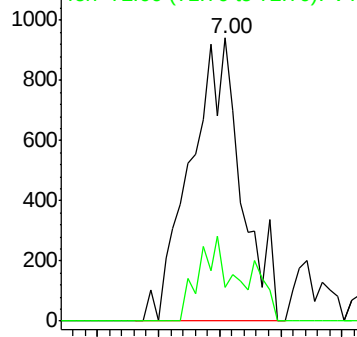
Ion Ratio Lower Upper

43 100

72 11.8 21.0 31.4#



Abundance Ion 43.00 (42.70 to 43.70): VY0  
Ion 72.00 (71.70 to 72.70): VY0



#28

Bromochloromethane

Concen: 2.10 ug/l

RT: 7.34 min Scan# 919

Delta R.T. -0.01 min

Lab File: VY000992.D

Acq: 18 Dec 2019 12:08

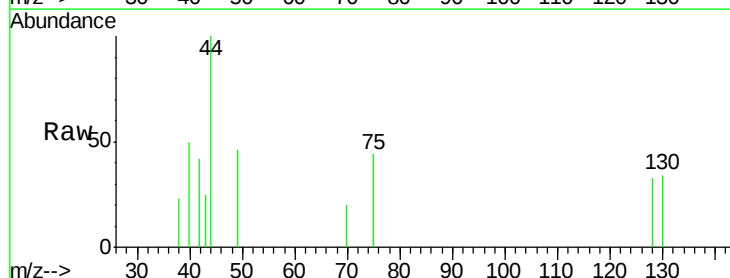
Tgt Ion: 49 Resp: 159

Ion Ratio Lower Upper

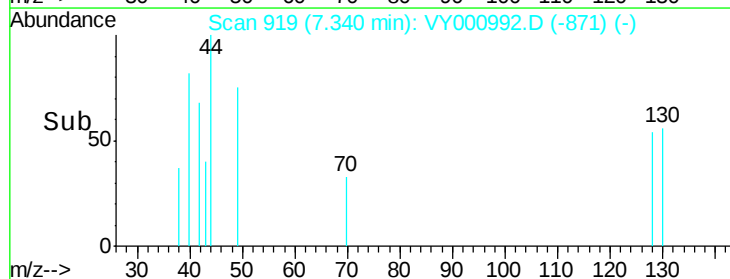
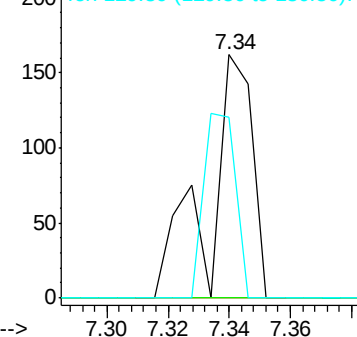
49 100

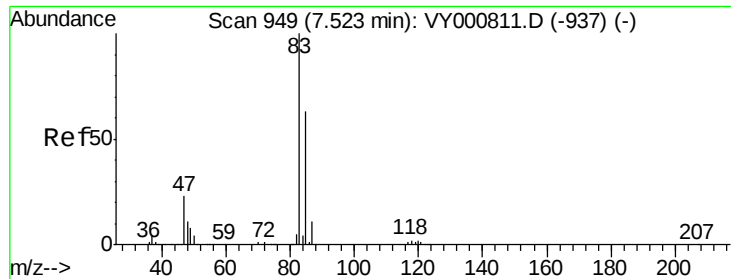
129 0.0 0.0 3.8

130 56.0 58.7 88.1#



Abundance Ion 48.90 (48.60 to 49.60): VY0  
Ion 128.80 (128.50 to 129.50): V  
Ion 129.80 (129.50 to 130.50): V

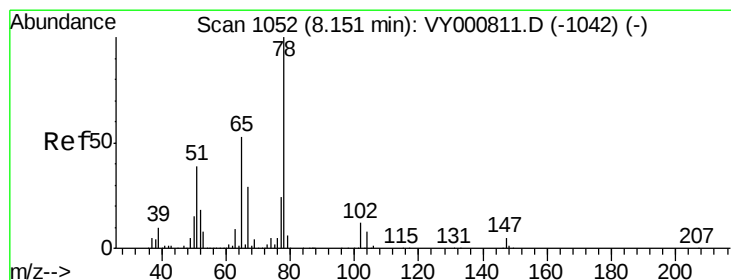
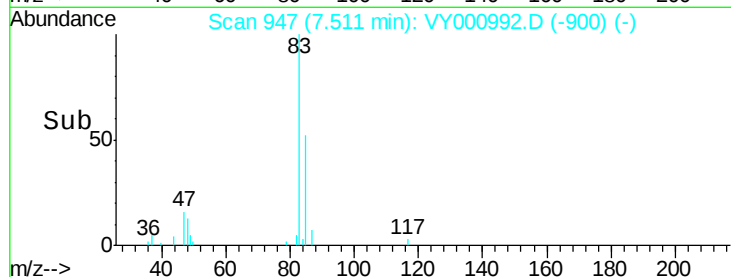
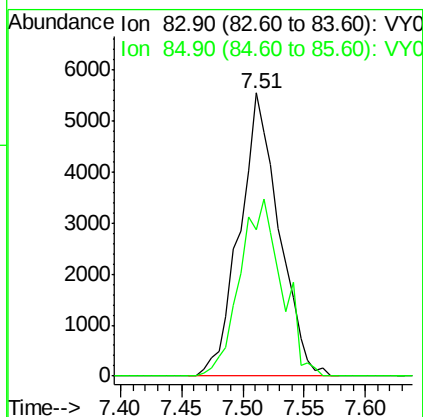
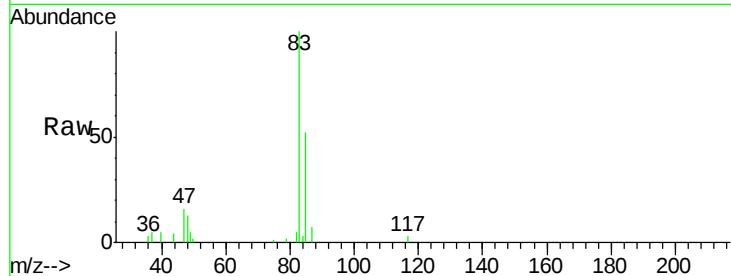




#30  
Chloroform  
Concen: 2.49 ug/l  
RT: 7.51 min Scan# 947  
Delta R.T. -0.01 min  
Lab File: VY000992.D  
Acq: 18 Dec 2019 12:08

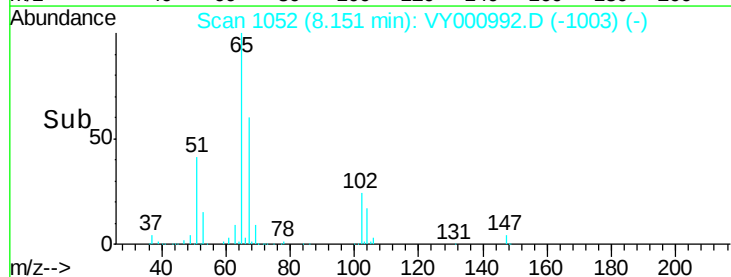
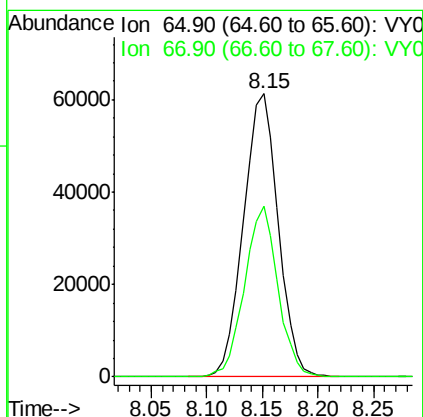
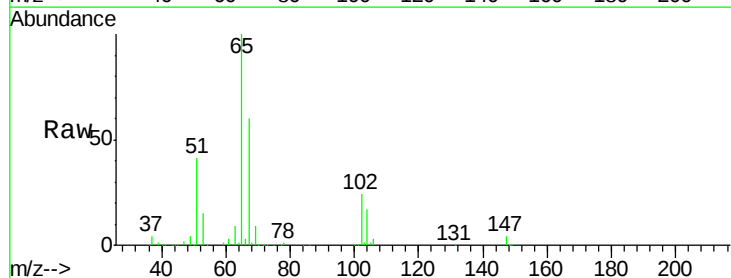
Instrument :  
MSVOA\_Y  
ClientSampled :

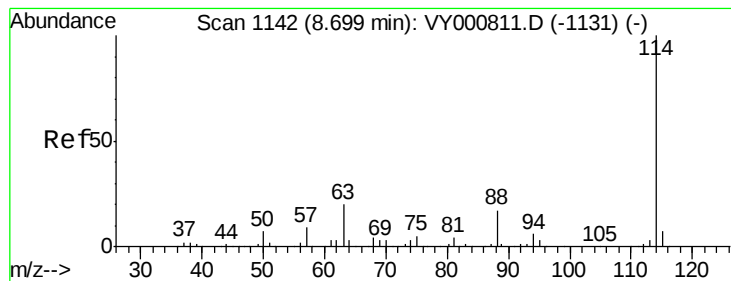
Tot Ion: 83 Resp: 12419  
Ion Ratio Lower Upper  
83 100  
85 51.7 50.4 75.6



#33  
1,2-Dichloroethane-d4  
Concen: 53.75 ug/l  
RT: 8.15 min Scan# 1052  
Delta R.T. 0.00 min  
Lab File: VY000992.D  
Acq: 18 Dec 2019 12:08

Tgt Ion: 65 Resp: 133144  
Ion Ratio Lower Upper  
65 100  
67 57.8 0.0 112.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VY000992.D

Acq: 18 Dec 2019 12:08

Instrument :  
MSVOA\_Y  
ClientSampleId :

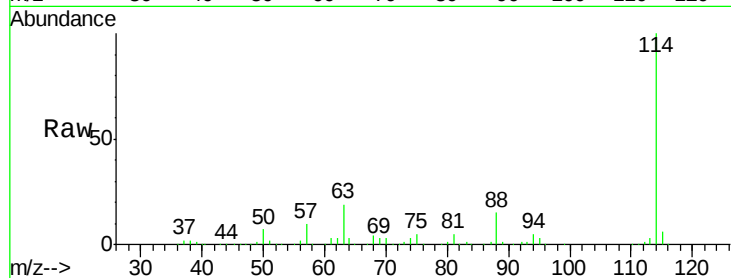
Tot Ion:114 Resp: 433582

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.8

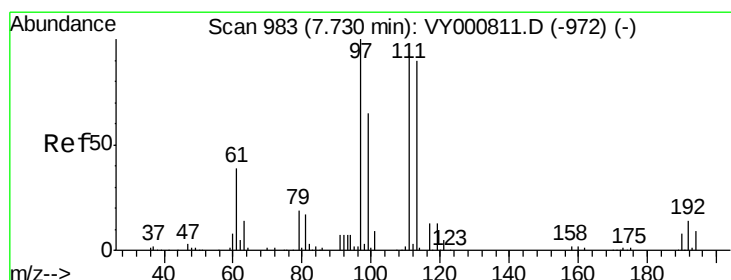
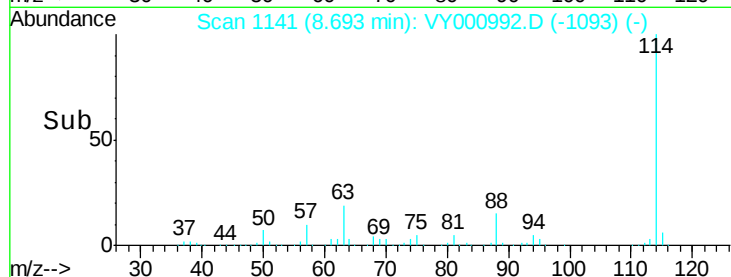
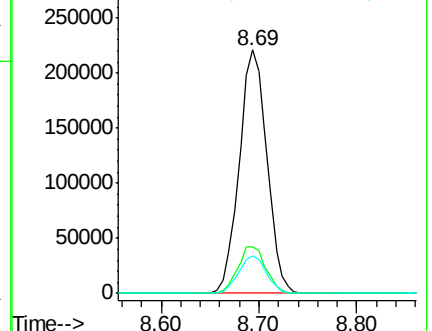
88 15.3 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 50.70 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.01 min

Lab File: VY000992.D

Acq: 18 Dec 2019 12:08

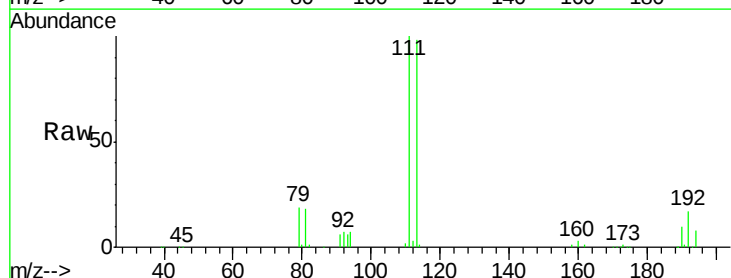
Tgt Ion:113 Resp: 128110

Ion Ratio Lower Upper

113 100

111 102.9 82.4 123.6

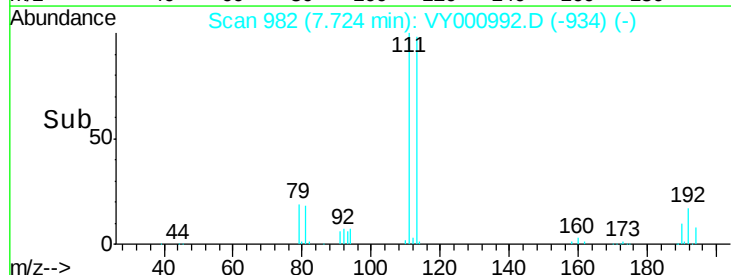
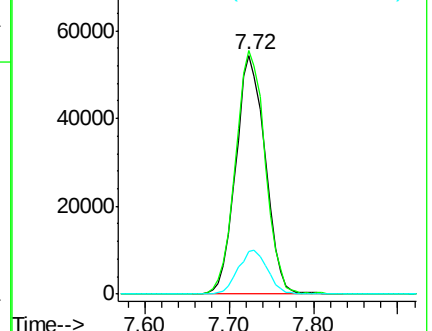
192 18.3 14.2 21.2

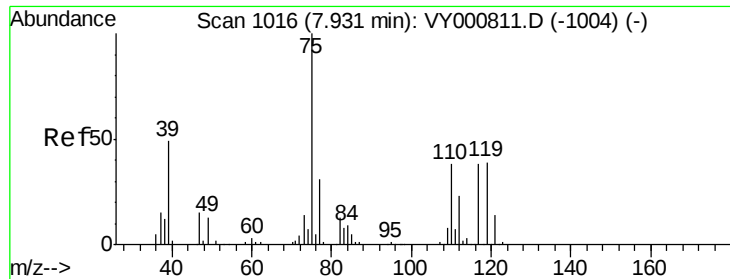


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

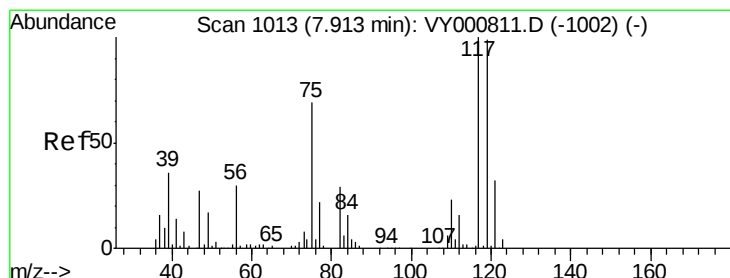
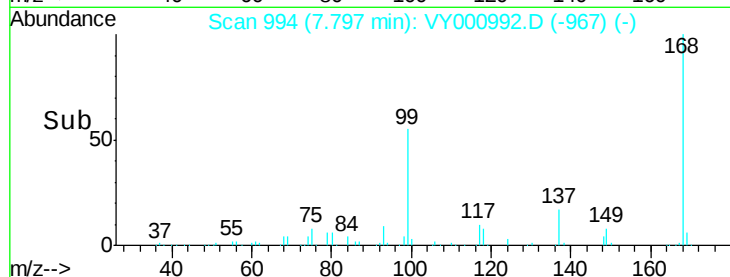
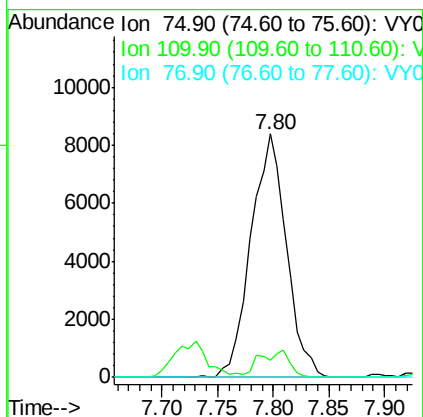
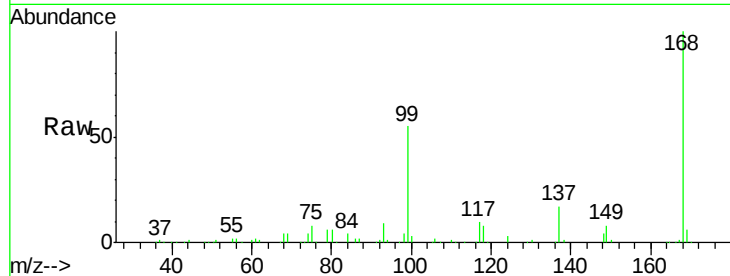




#36  
 1,1-Dichloropropene  
 Concen: 4.32 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY000992.D  
 Acq: 18 Dec 2019 12:08

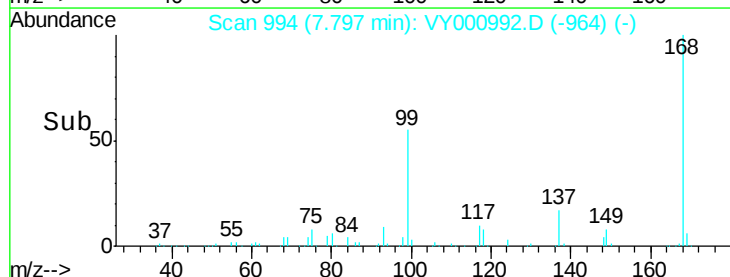
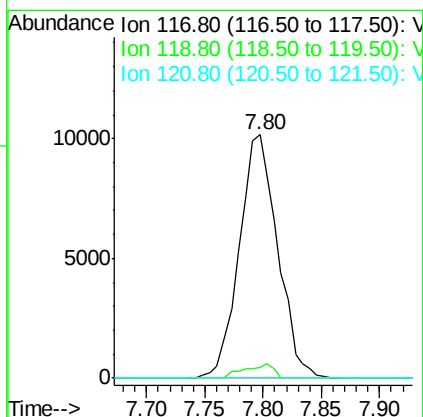
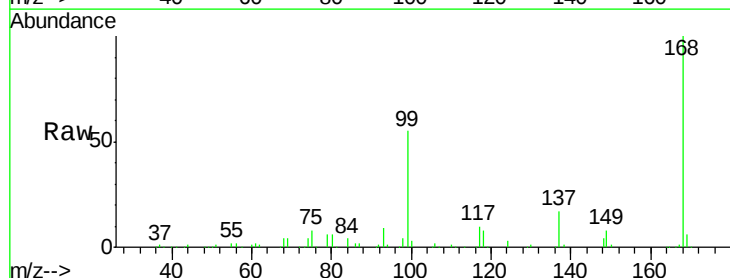
Instrument :  
 MSVOA\_Y  
 ClientSampled :

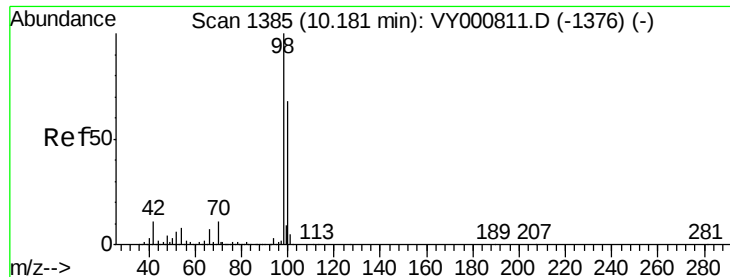
| Tot Ion   | 75    | Resp  | 18605 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 9.2   | 17.9  | 53.7# |
| 77        | 0.0   | 24.7  | 37.1# |



#38  
 Carbon Tetrachloride  
 Concen: 6.05 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.12 min  
 Lab File: VY000992.D  
 Acq: 18 Dec 2019 12:08

| Tgt Ion   | 117   | Resp  | 23227  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 4.3   | 79.3  | 118.9# |
| 121       | 0.0   | 25.5  | 38.3#  |





#50

Toluene-d8

Concen: 51.39 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY000992.D

Acq: 18 Dec 2019 12:08

Instrument :

MSVOA\_Y

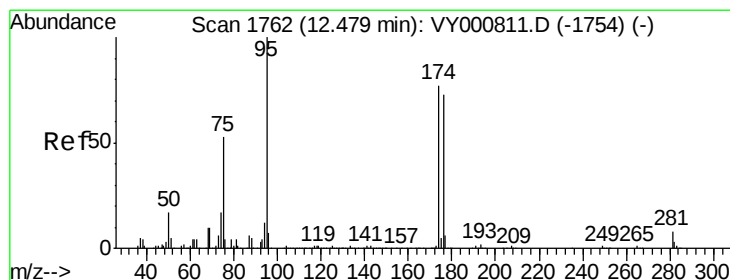
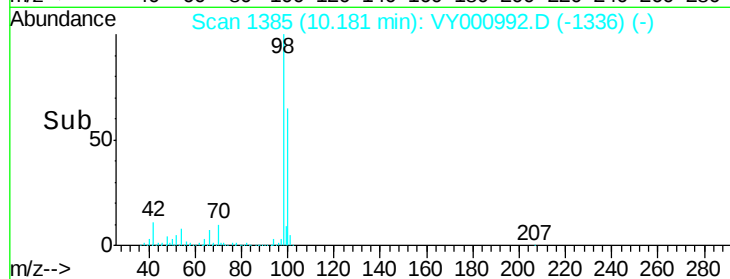
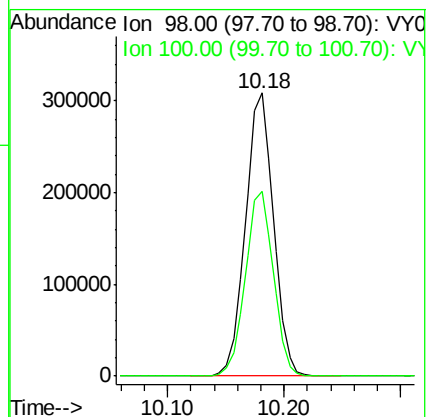
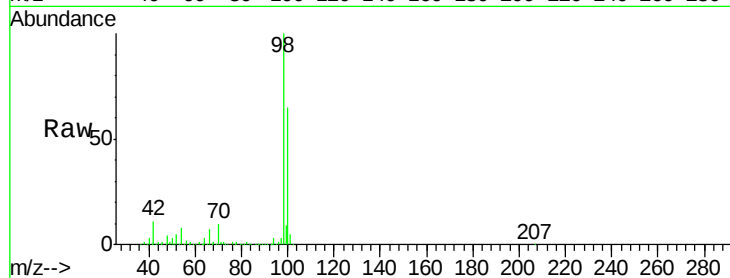
ClientSampleId :

Tot Ion: 98 Resp: 519204

Ion Ratio Lower Upper

98 100

100 65.2 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 43.67 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY000992.D

Acq: 18 Dec 2019 12:08

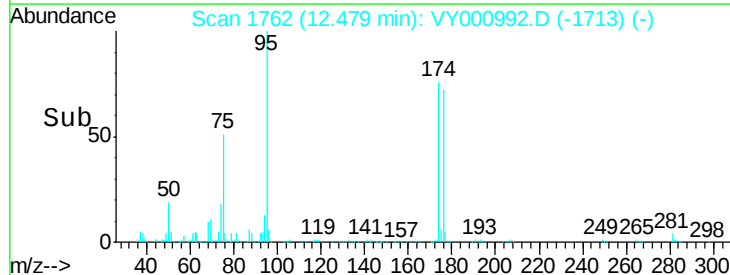
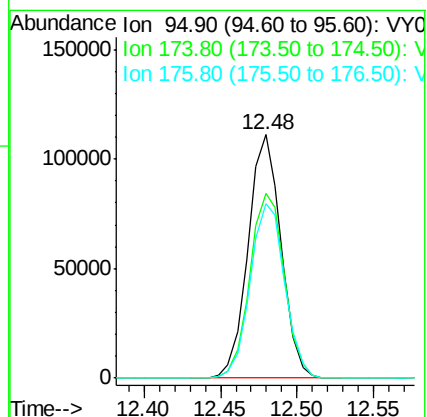
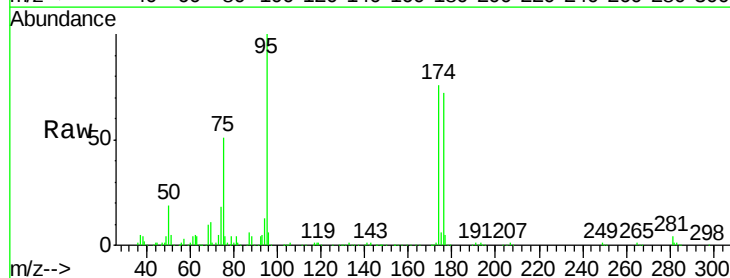
Tgt Ion: 95 Resp: 165687

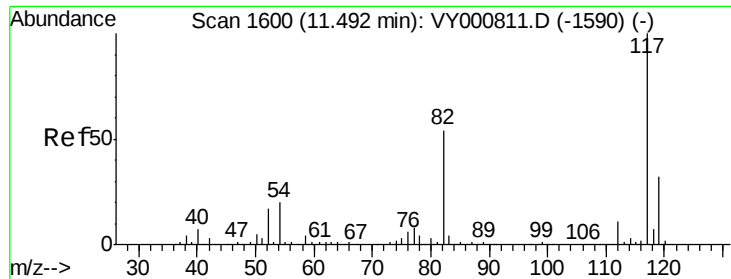
Ion Ratio Lower Upper

95 100

174 79.7 0.0 150.6

176 75.5 0.0 145.2

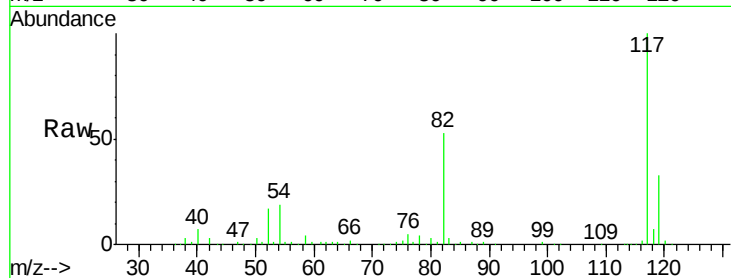




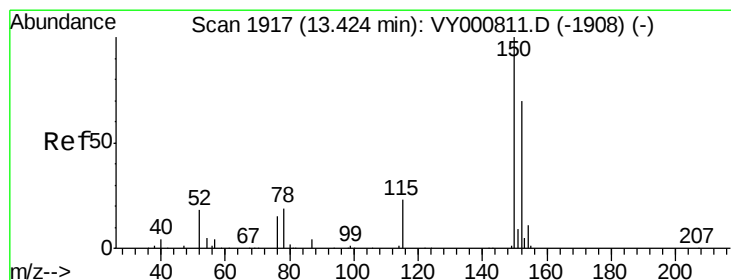
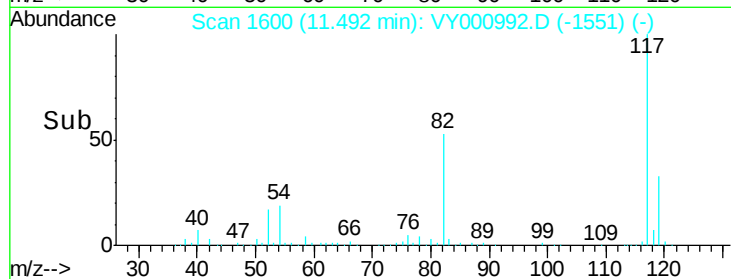
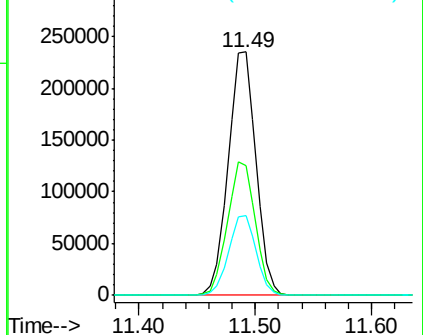
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY000992.D  
Acq: 18 Dec 2019 12:08

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:117 Resp: 390040  
Ion Ratio Lower Upper  
117 100  
82 53.4 43.1 64.7  
119 32.9 25.3 37.9

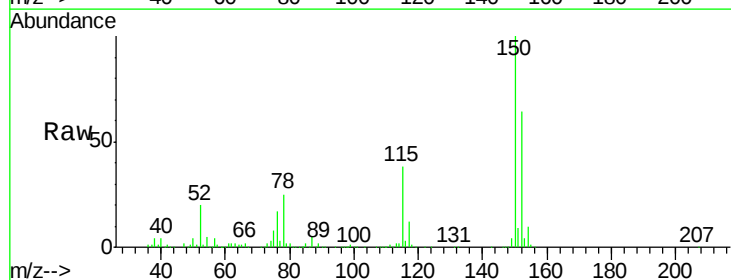


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

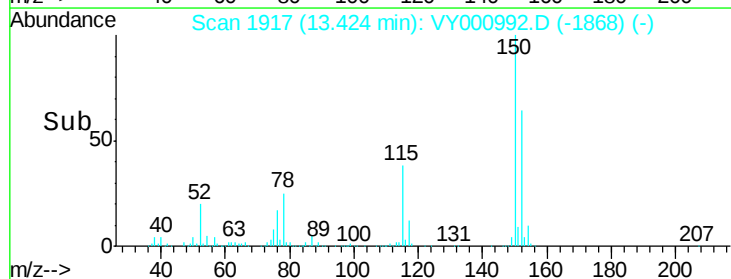
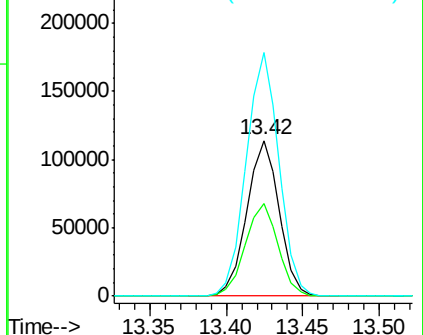


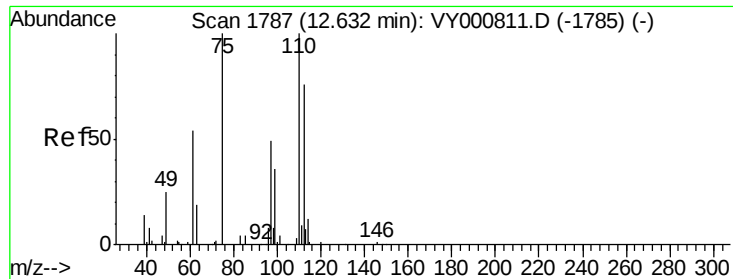
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY000992.D  
Acq: 18 Dec 2019 12:08

Tgt Ion:152 Resp: 167492  
Ion Ratio Lower Upper  
152 100  
115 60.1 29.3 87.8  
150 158.1 0.0 351.2



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 44.38 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000992.D

Acq: 18 Dec 2019 12:08

Instrument :

MSVOA\_Y

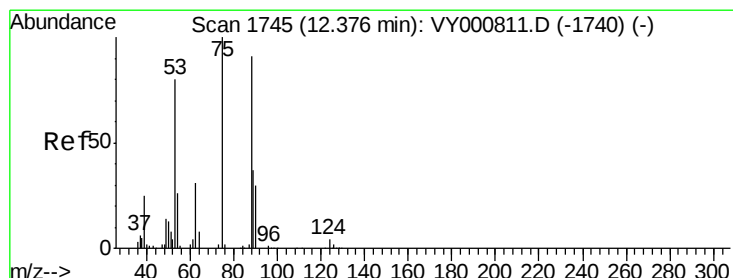
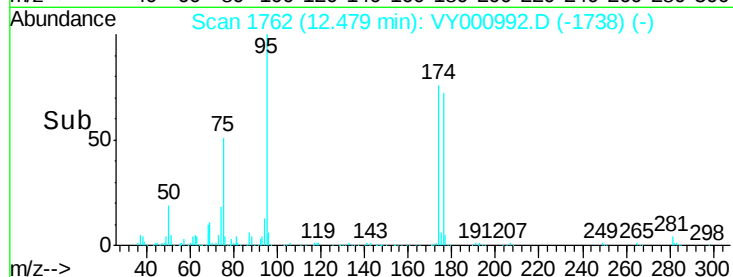
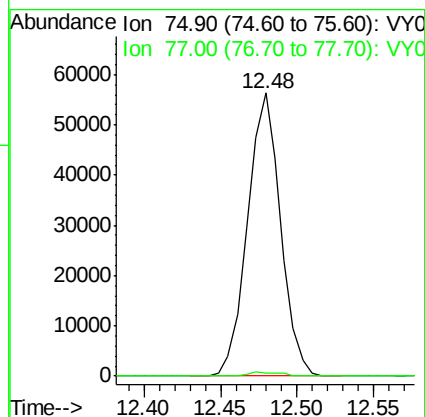
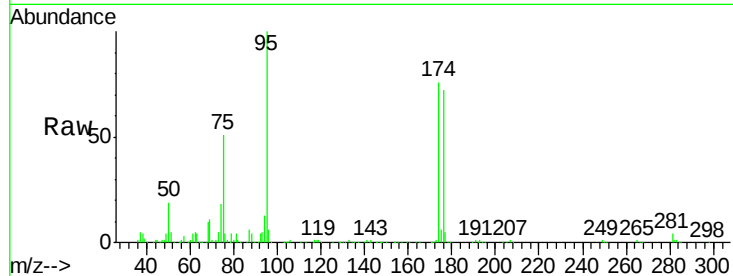
ClientSampleId :

Tot Ion: 75 Resp: 84217

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 87.17 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000992.D

Acq: 18 Dec 2019 12:08

Tgt Ion: 75 Resp: 84217

Ion Ratio Lower Upper

75 100

53 0.0 64.6 96.8#

89 0.2 33.6 50.4#

