

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110619\  
 Data File : VY000561.D  
 Acq On : 06 Nov 2019 18:52  
 Operator : SY/MD  
 Sample : K5723-02  
 Misc : 6.91G/5ML/MSVOA Y/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Nov 07 04:58:54 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 13:30:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 235060   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 420737   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 360611   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 147592   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.16  | 65   | 142697   | 58.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 117.32% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 124884   | 50.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.12% |          |
| 50) Toluene-d8              | 10.18 | 98   | 496997   | 53.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.06% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 156749   | 43.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.86%  |          |

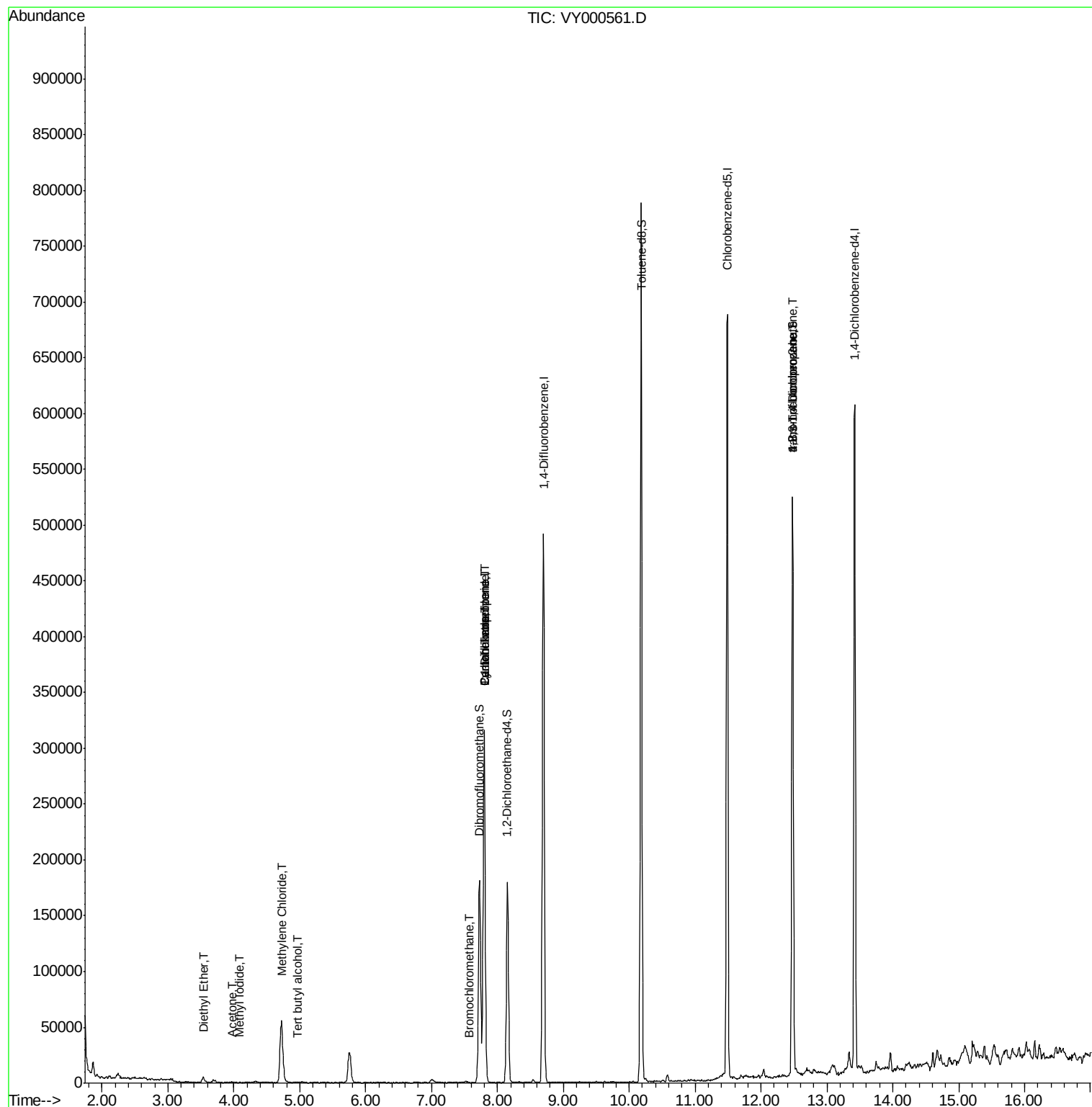
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 8) Diethyl Ether               | 3.54  | 74   | 2746     | 1.933   | ug/l   | 88     |
| 10) Methyl Iodide              | 4.09  | 142  | 57       | 3.216   | ug/l # | 41     |
| 11) Tert butyl alcohol         | 4.96  | 59   | 238      | 1.005   | ug/l # | 72     |
| 16) Acetone                    | 3.97  | 43   | 1010     | 1.506   | ug/l # | 1      |
| 20) Methylene Chloride         | 4.72  | 84   | 40934    | 14.249  | ug/l   | 92     |
| 28) Bromochloromethane         | 7.57  | 49   | 54       | 4.117   | ug/l # | 14     |
| 31) Cyclohexane                | 7.80  | 56   | 5826     | 1.237   | ug/l # | 23     |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 19169    | 4.819   | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 24114    | 6.301   | ug/l # | 14     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 80872    | 48.123  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 80872    | 107.898 | ug/l # | 13     |

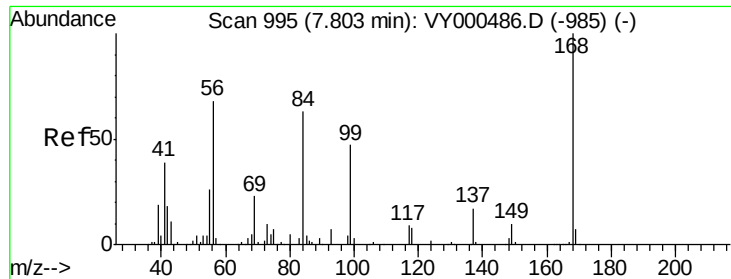
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY110619\  
Data File : VY000561.D  
Acq On : 06 Nov 2019 18:52  
Operator : SY/MD  
Sample : K5723-02  
Misc : 6.91G/5ML/MSVOA Y/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Nov 07 04:58:54 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 30 13:30:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY000561.D

Acq: 06 Nov 2019 18:52

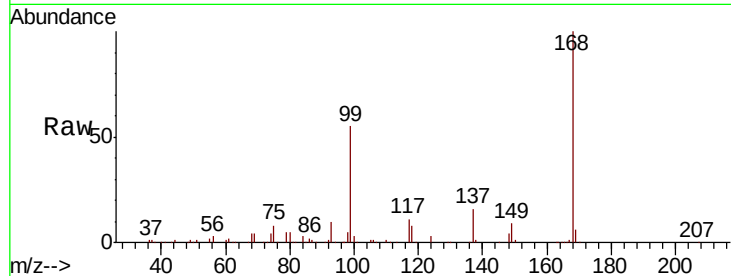
Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:168 Resp: 235060

Ion Ratio Lower Upper

168 100

99 54.9 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VY000486.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY000486.D (-985) (-)

7.80

120000

100000

80000

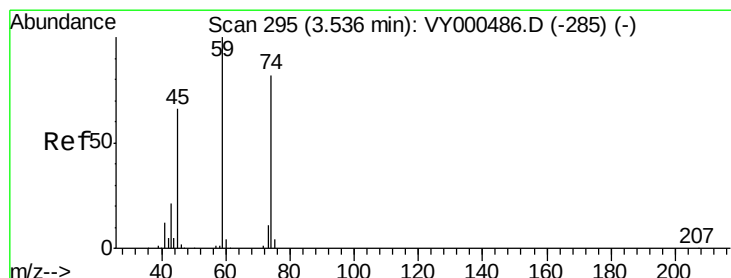
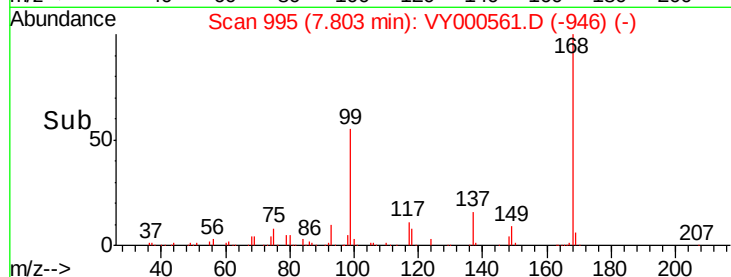
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.933 ug/l

RT: 3.54 min Scan# 295

Delta R.T. -0.00 min

Lab File: VY000561.D

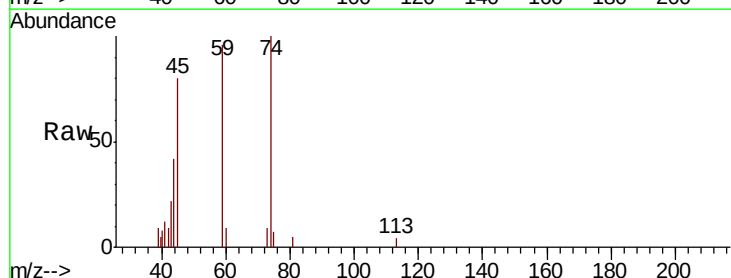
Acq: 06 Nov 2019 18:52

Tgt Ion: 74 Resp: 2746

Ion Ratio Lower Upper

74 100

45 101.9 45.5 136.4



Abundance Ion 74.00 (73.70 to 74.70): VY000486.D (-285) (-)

Ion 45.00 (44.70 to 45.70): VY000486.D (-285) (-)

3.54

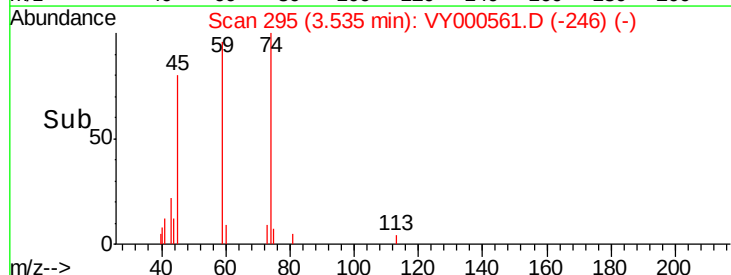
1500

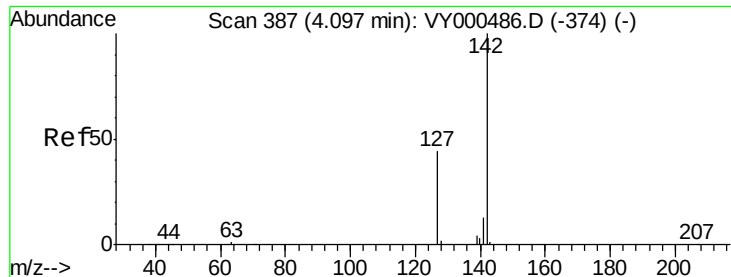
1000

500

0

Time-->

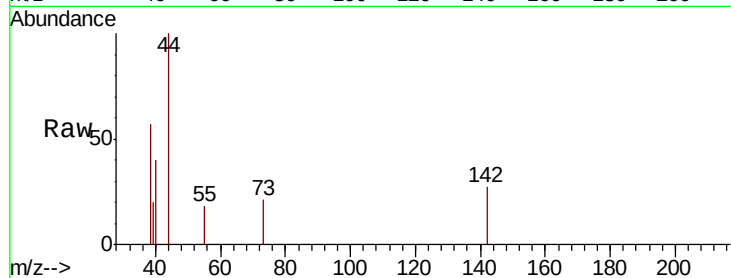




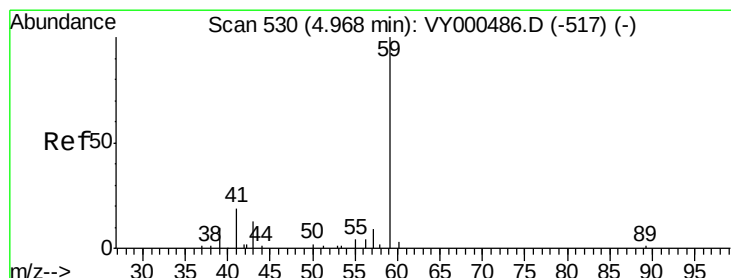
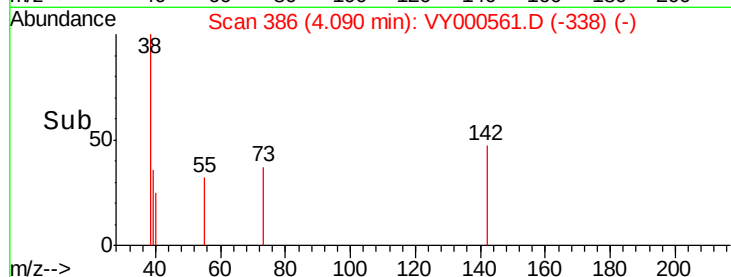
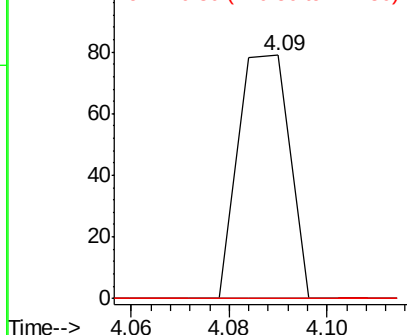
#10  
Methyl Iodide  
Concen: 3.216 ug/l  
RT: 4.09 min Scan# 386  
Delta R.T. -0.01 min  
Lab File: VY000561.D  
Acq: 06 Nov 2019 18:52

Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:142 Resp: 57  
Ion Ratio Lower Upper  
142 100  
127 0.0 33.7 50.5#  
141 0.0 10.9 16.3#

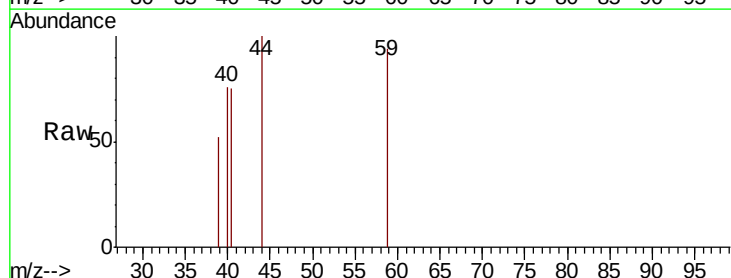


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

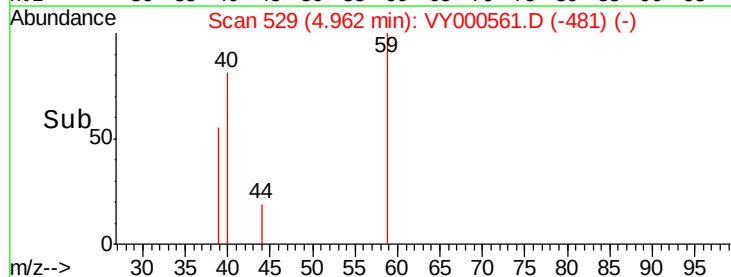
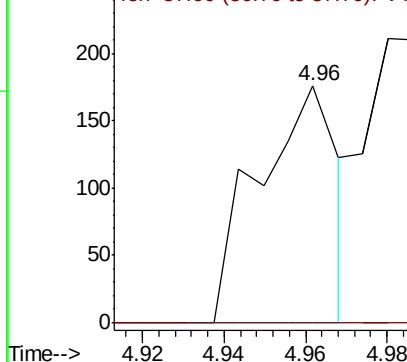


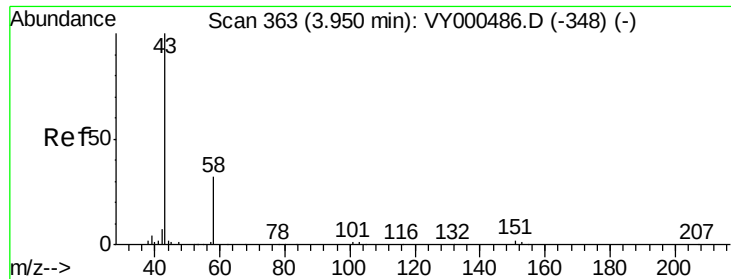
#11  
Tert butyl alcohol  
Concen: 1.005 ug/l  
RT: 4.96 min Scan# 529  
Delta R.T. -0.01 min  
Lab File: VY000561.D  
Acq: 06 Nov 2019 18:52

Tgt Ion: 59 Resp: 238  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VY0  
Ion 57.00 (56.70 to 57.70): VY0





#16

Acetone

Concen: 1.506 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.02 min

Lab File: VY000561.D

Acq: 06 Nov 2019 18:52

Instrument :

MSVOA\_Y

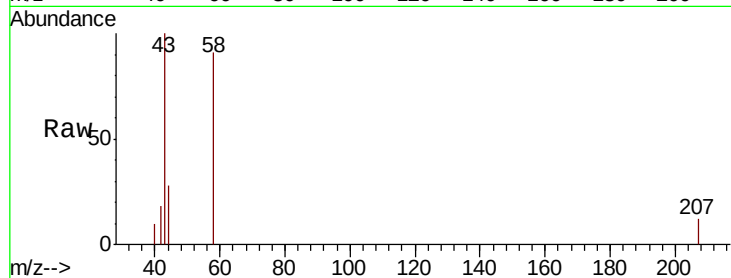
ClientSampleId :

Tot Ion: 43 Resp: 1010

Ion Ratio Lower Upper

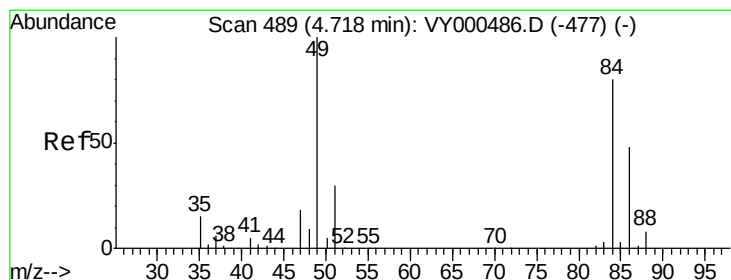
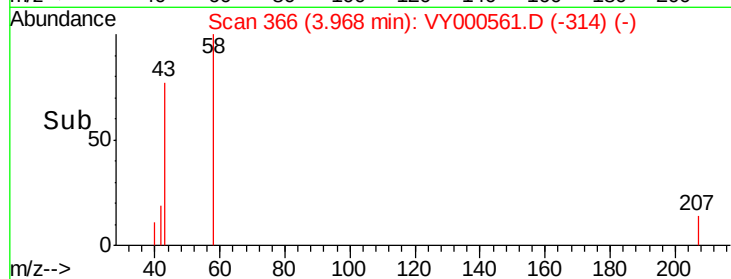
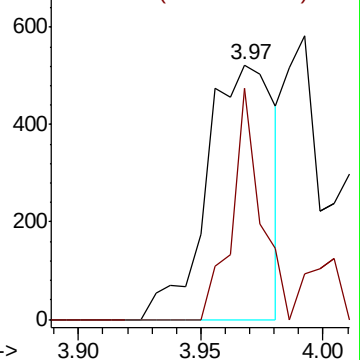
43 100

58 90.6 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#20

Methylene Chloride

Concen: 14.249 ug/l

RT: 4.72 min Scan# 490

Delta R.T. 0.01 min

Lab File: VY000561.D

Acq: 06 Nov 2019 18:52

Tgt Ion: 84 Resp: 40934

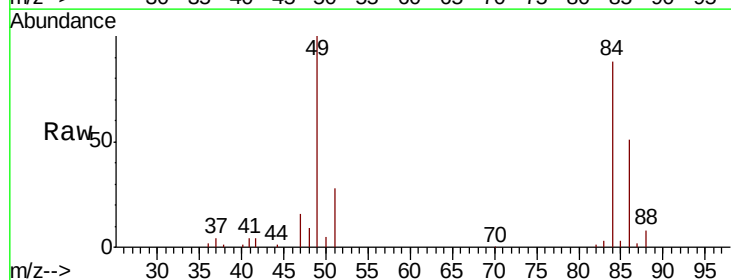
Ion Ratio Lower Upper

84 100

49 113.8 100.2 150.4

51 31.8 29.6 44.4

86 57.8 48.3 72.5

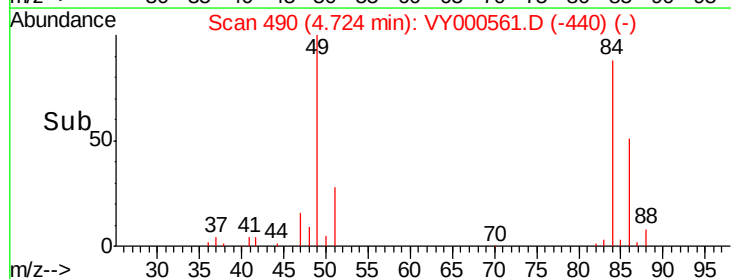
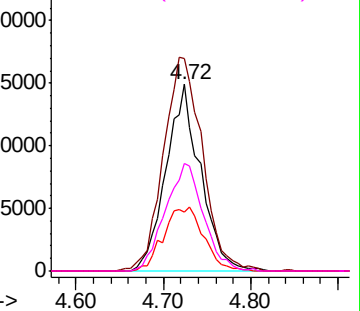


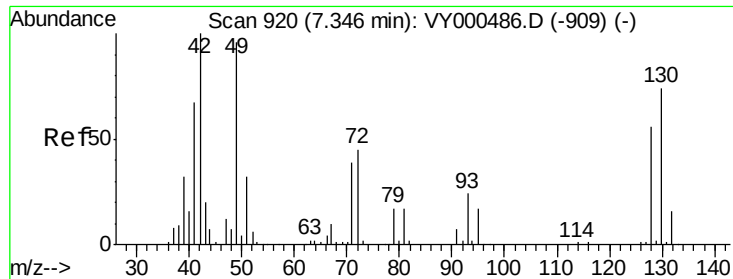
Abundance Ion 83.90 (83.60 to 84.60): VY0

Ion 48.90 (48.60 to 49.60): VY0

Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0





#28

Bromochloromethane

Concen: 4.117 ug/l

RT: 7.57 min Scan# 957

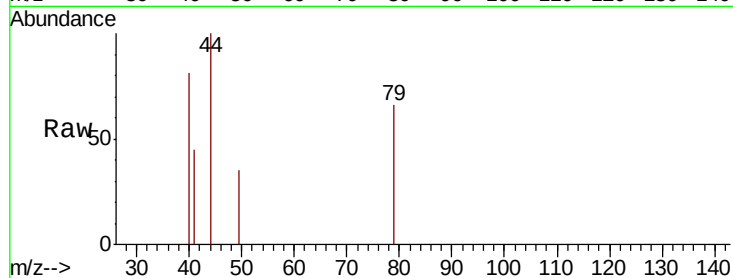
Delta R.T. 0.23 min

Lab File: VY000561.D

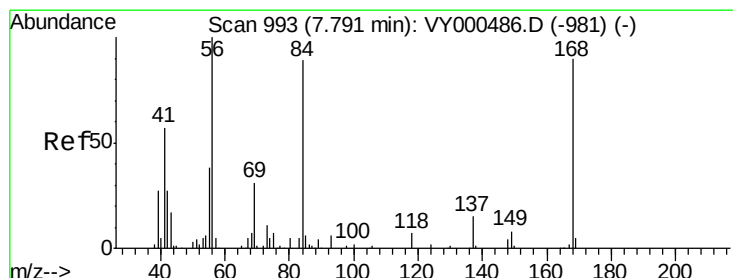
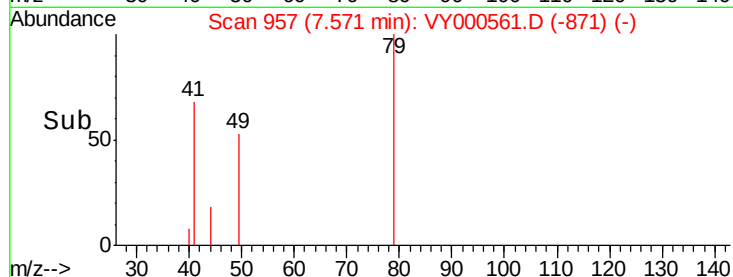
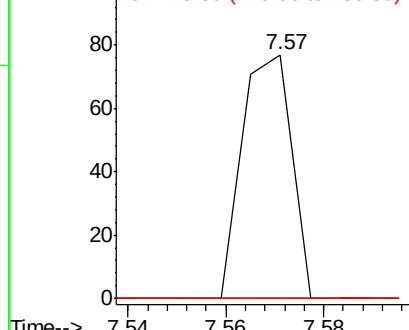
Acq: 06 Nov 2019 18:52

Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion: 49 Resp: 54  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 3.6  
130 0.0 59.4 89.0#



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



#31

Cyclohexane

Concen: 1.237 ug/l

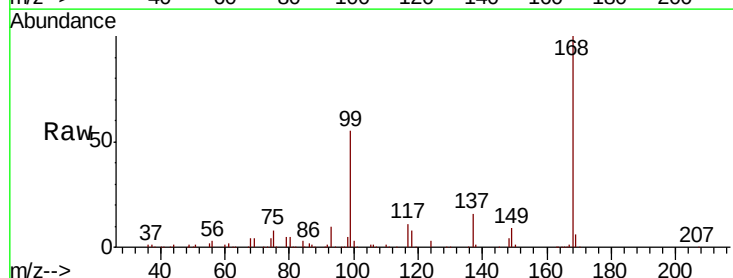
RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

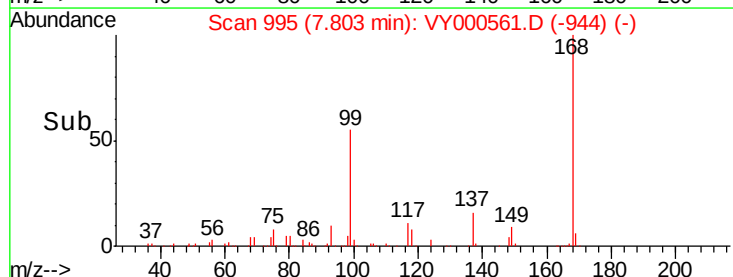
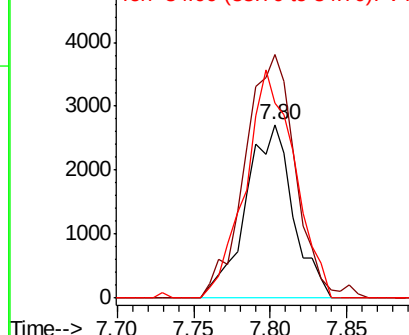
Lab File: VY000561.D

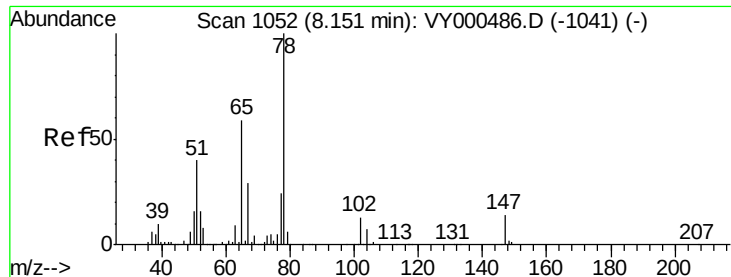
Acq: 06 Nov 2019 18:52

Tgt Ion: 56 Resp: 5826  
Ion Ratio Lower Upper  
56 100  
69 140.2 25.0 37.6#  
84 121.7 71.4 107.2#



Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0

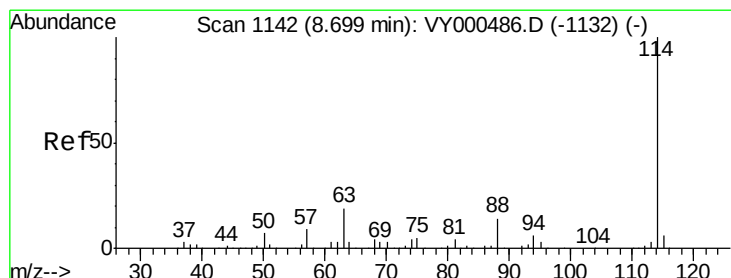
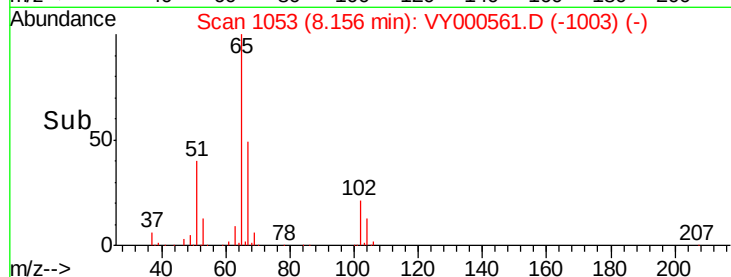
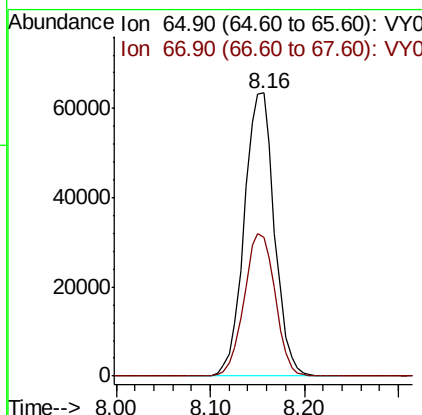
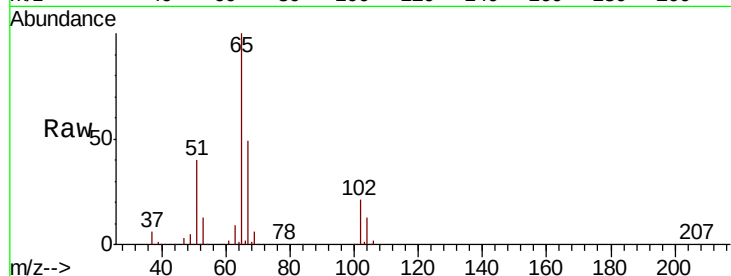




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.661 ug/l  
 RT: 8.16 min Scan# 1053  
 Delta R.T. 0.01 min  
 Lab File: VY000561.D  
 Acq: 06 Nov 2019 18:52

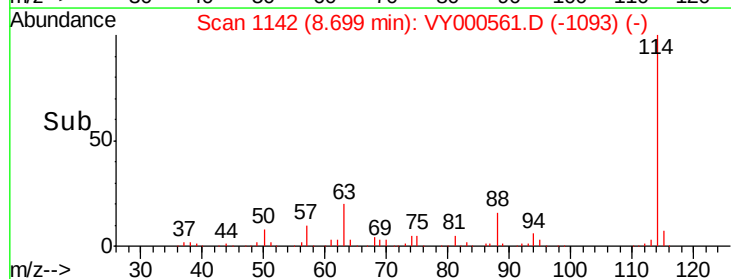
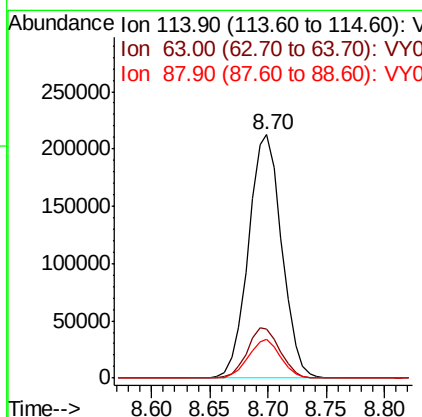
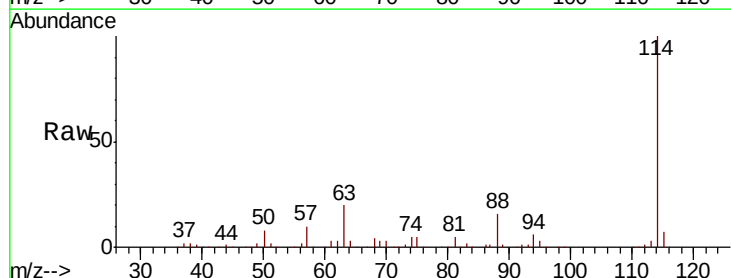
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

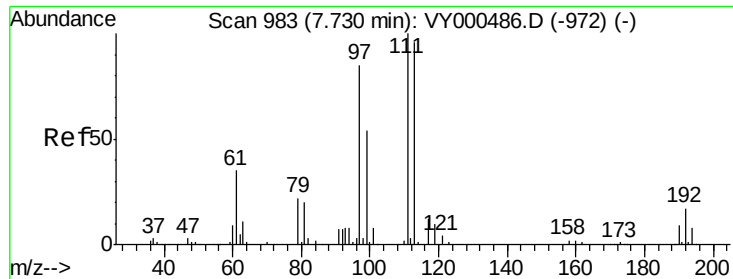
Tot Ion: 65 Resp: 142697  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 107.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1142  
 Delta R.T. -0.00 min  
 Lab File: VY000561.D  
 Acq: 06 Nov 2019 18:52

Tgt Ion: 114 Resp: 420737  
 Ion Ratio Lower Upper  
 114 100  
 63 20.0 0.0 38.0  
 88 15.8 0.0 28.6

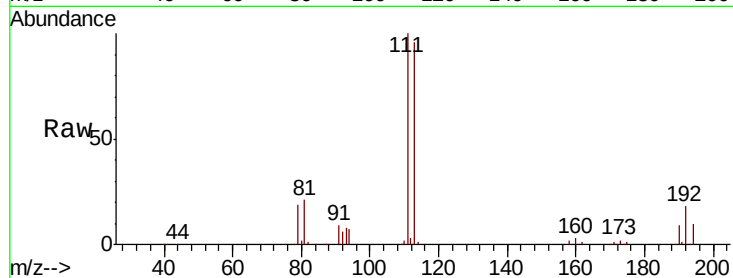




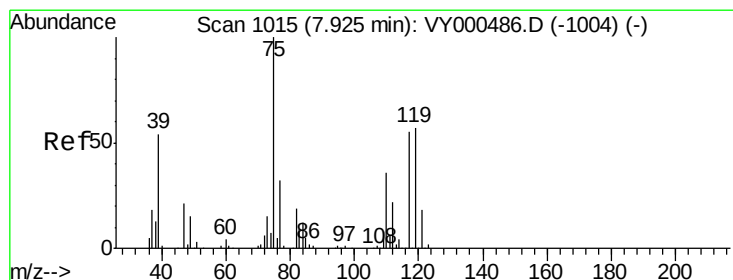
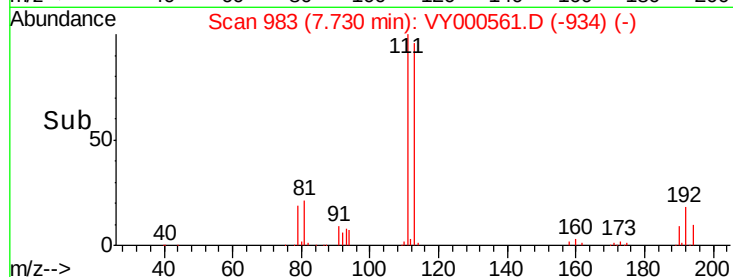
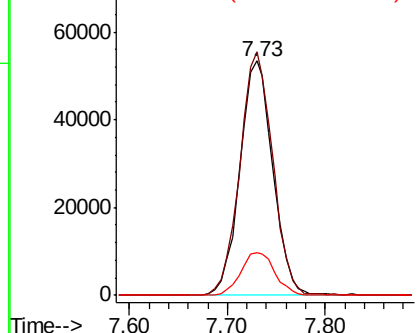
#35  
 Dibromofluoromethane  
 Concen: 50.560 ug/l  
 RT: 7.73 min Scan# 983  
 Delta R.T. -0.00 min  
 Lab File: VY000561.D  
 Acq: 06 Nov 2019 18:52

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Tot Ion:113 Resp: 124884  
 Ion Ratio Lower Upper  
 113 100  
 111 103.6 81.7 122.5  
 192 18.8 15.0 22.4

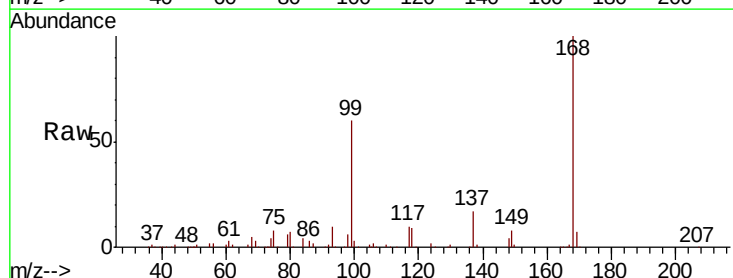


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

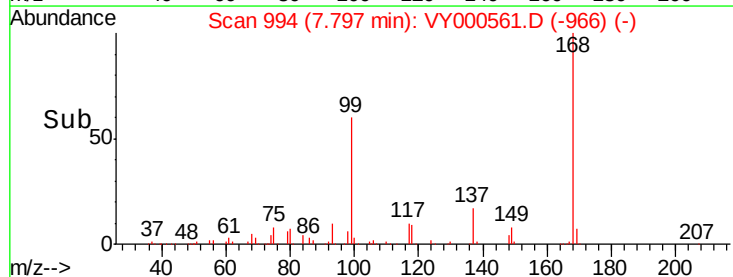
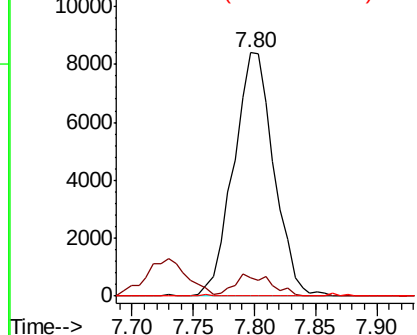


#36  
 1,1-Dichloropropene  
 Concen: 4.819 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY000561.D  
 Acq: 06 Nov 2019 18:52

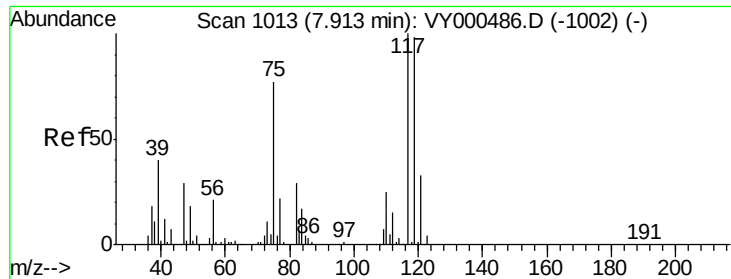
Tgt Ion: 75 Resp: 19169  
 Ion Ratio Lower Upper  
 75 100  
 110 8.2 18.1 54.1#  
 77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VY0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VY0







#38

Carbon Tetrachloride

Concen: 6.301 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.11 min

Lab File: VY000561.D

Acq: 06 Nov 2019 18:52

Instrument :  
MSVOA\_Y  
ClientSampleId :

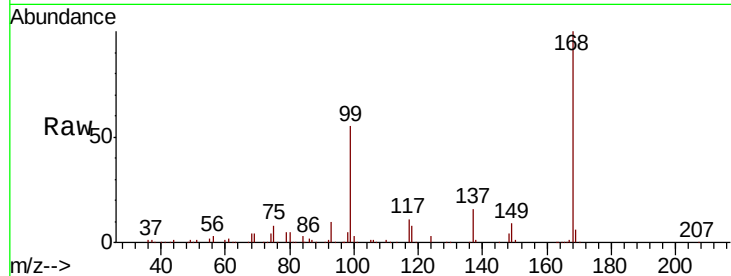
Tot Ion:117 Resp: 24114

Ion Ratio Lower Upper

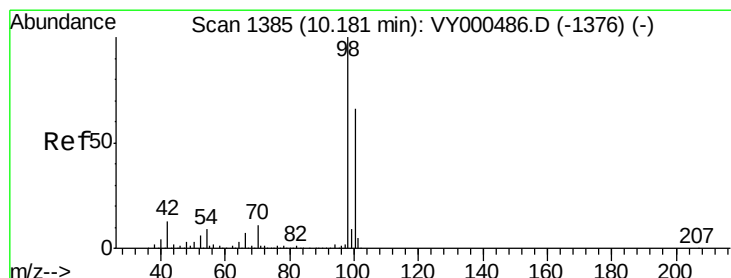
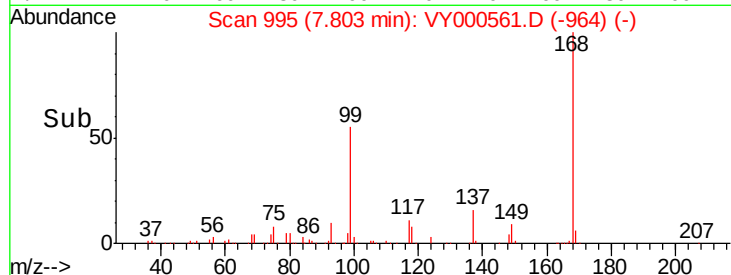
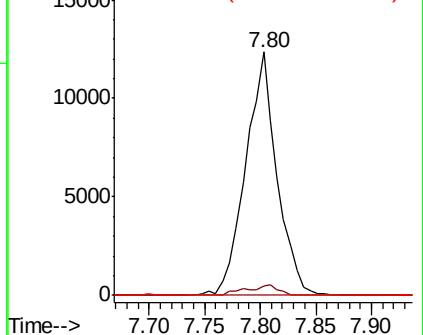
117 100

119 3.8 78.0 117.0#

121 0.0 26.6 40.0#



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 53.028 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY000561.D

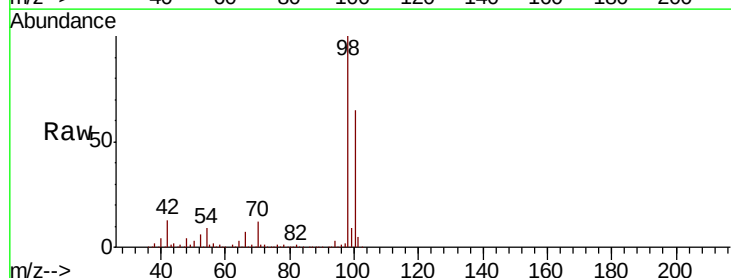
Acq: 06 Nov 2019 18:52

Tgt Ion: 98 Resp: 496997

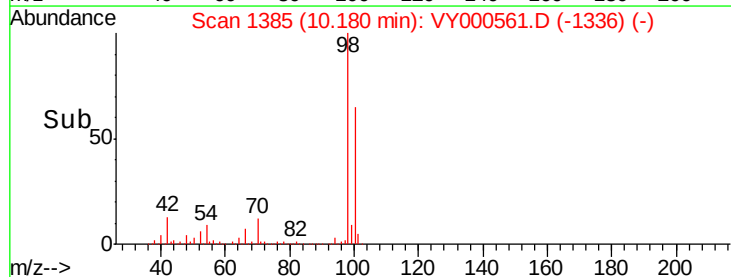
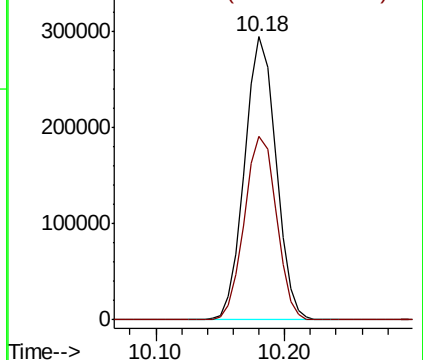
Ion Ratio Lower Upper

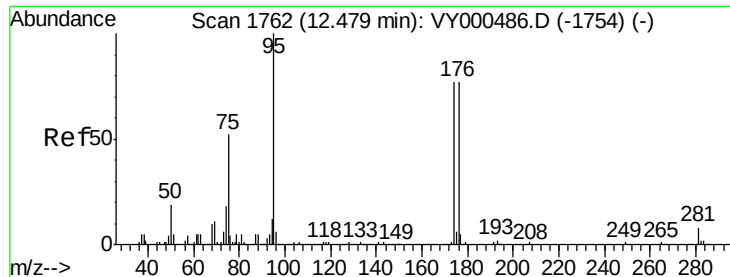
98 100

100 66.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VY0  
Ion 100.00 (99.70 to 100.70): VY

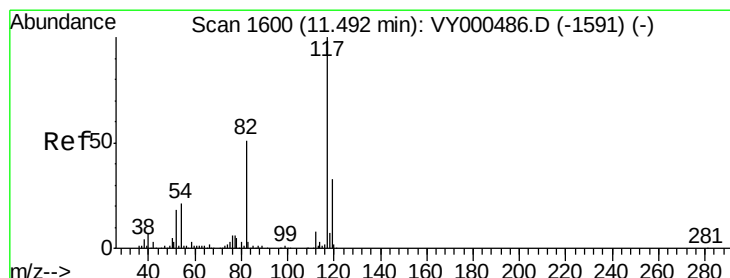
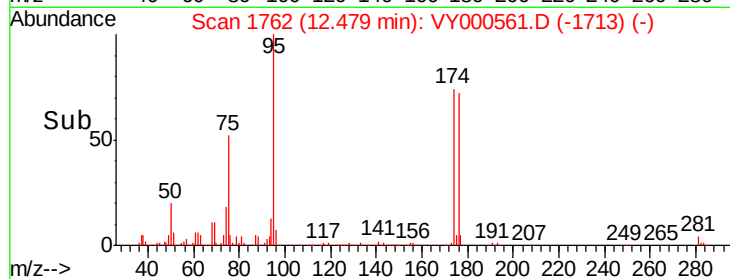
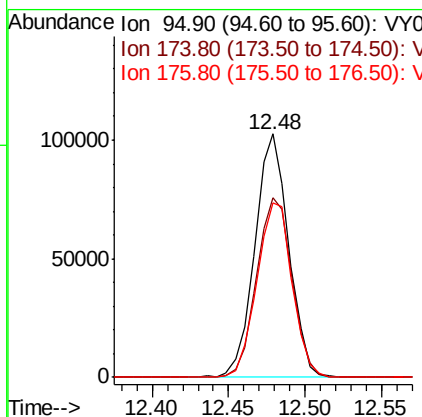
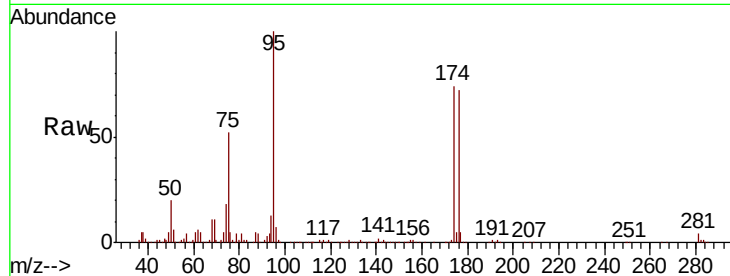




#62  
4-Bromofluorobenzene  
Concen: 43.932 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.00 min  
Lab File: VY000561.D  
Acq: 06 Nov 2019 18:52

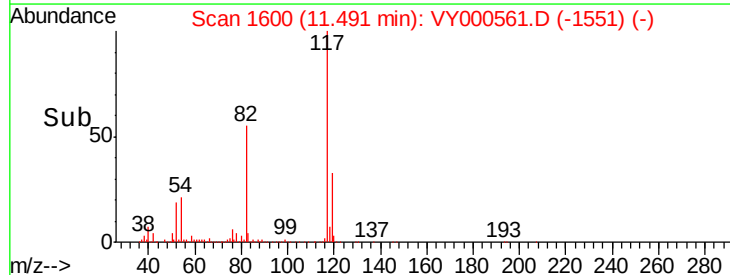
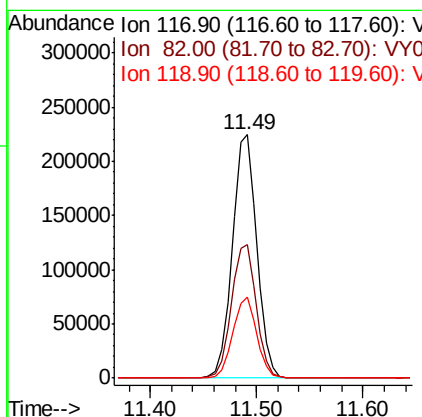
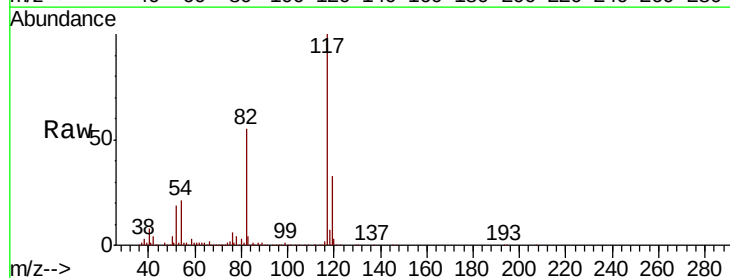
Instrument :  
MSVOA\_Y  
ClientSampled :

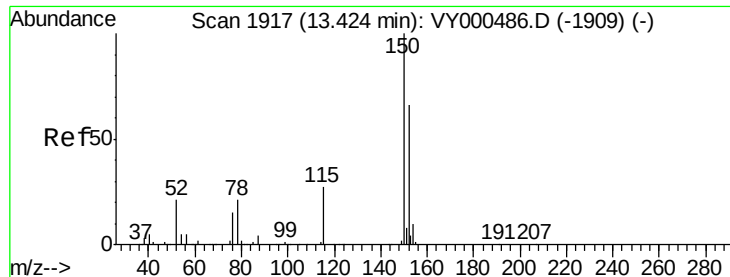
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 77.8  | 0.0   | 161.6 |
| 176     | 75.5  | 0.0   | 157.8 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY000561.D  
Acq: 06 Nov 2019 18:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.9  | 40.8  | 61.2  |
| 119     | 33.4  | 26.2  | 39.2  |



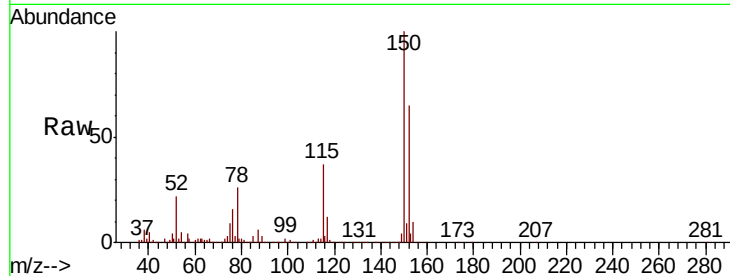


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY000561.D  
Acq: 06 Nov 2019 18:52

Instrument :  
MSVOA\_Y  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.2  | 29.1  | 87.4  |
| 150     | 155.5 | 0.0   | 348.8 |

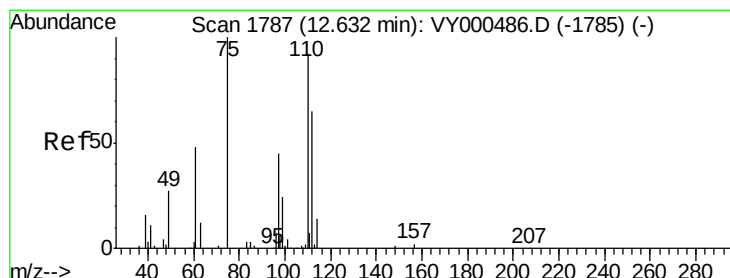
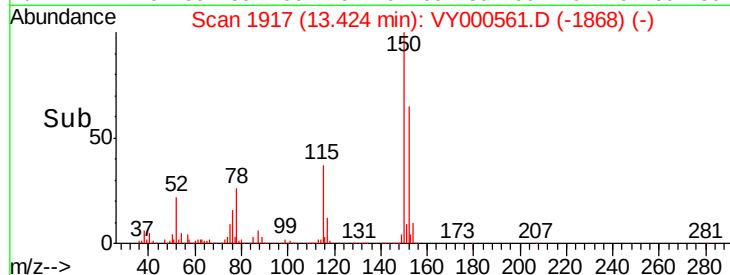
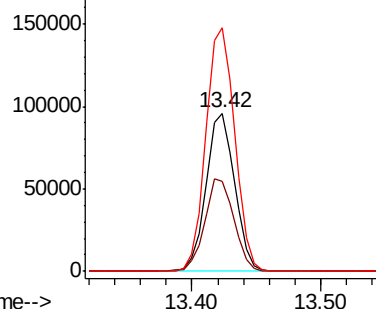


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

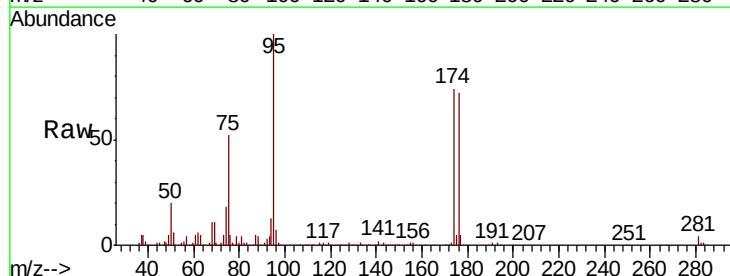
Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane  
Concen: 48.123 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.15 min  
Lab File: VY000561.D  
Acq: 06 Nov 2019 18:52

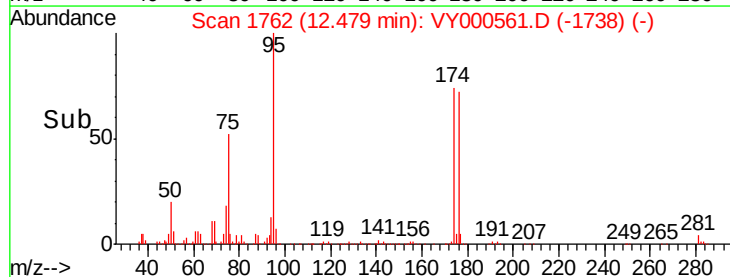
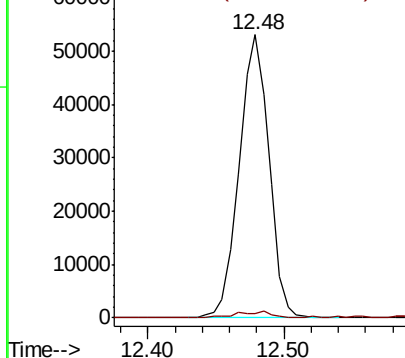
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.3   | 0.0   | 0.0#  |

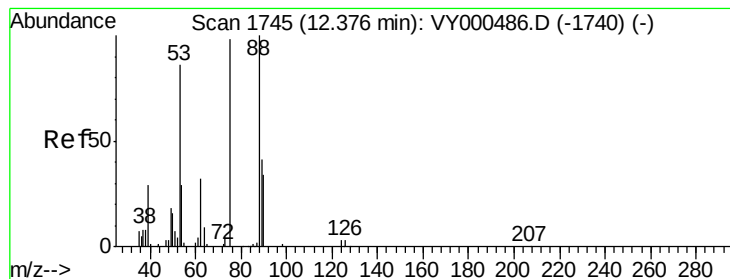


Abundance

Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 107.898 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000561.D

Acq: 06 Nov 2019 18:52

Instrument :

MSVOA\_Y

ClientSampleId :

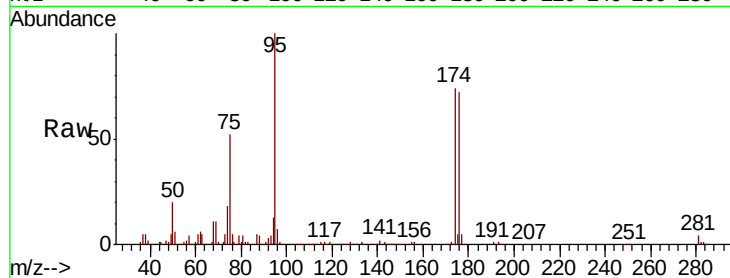
Tot Ion: 75 Resp: 80872

Ion Ratio Lower Upper

75 100

53 0.4 73.2 109.8#

89 0.2 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

