

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100918\  
 Data File : VD060163.D  
 Acq On : 9 Oct 2018 20:58  
 Operator : VA/AP  
 Sample : J5326-25  
 Misc : 5.95µl/5ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FL-PIT-7

Quant Time: Oct 10 01:17:18 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 06:56:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.37  | 168  | 1337507  | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 7.42  | 114  | 1840639  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.27 | 117  | 1474961  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.37 | 152  | 748123   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.76  | 65   | 642493   | 63.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 126.74% |          |
| 35) Dibromofluoromethane    | 6.29  | 113  | 789538   | 56.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.98% |          |
| 50) Toluene-d8              | 9.43  | 98   | 2264000  | 56.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.60% |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 824113   | 55.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.44% |          |

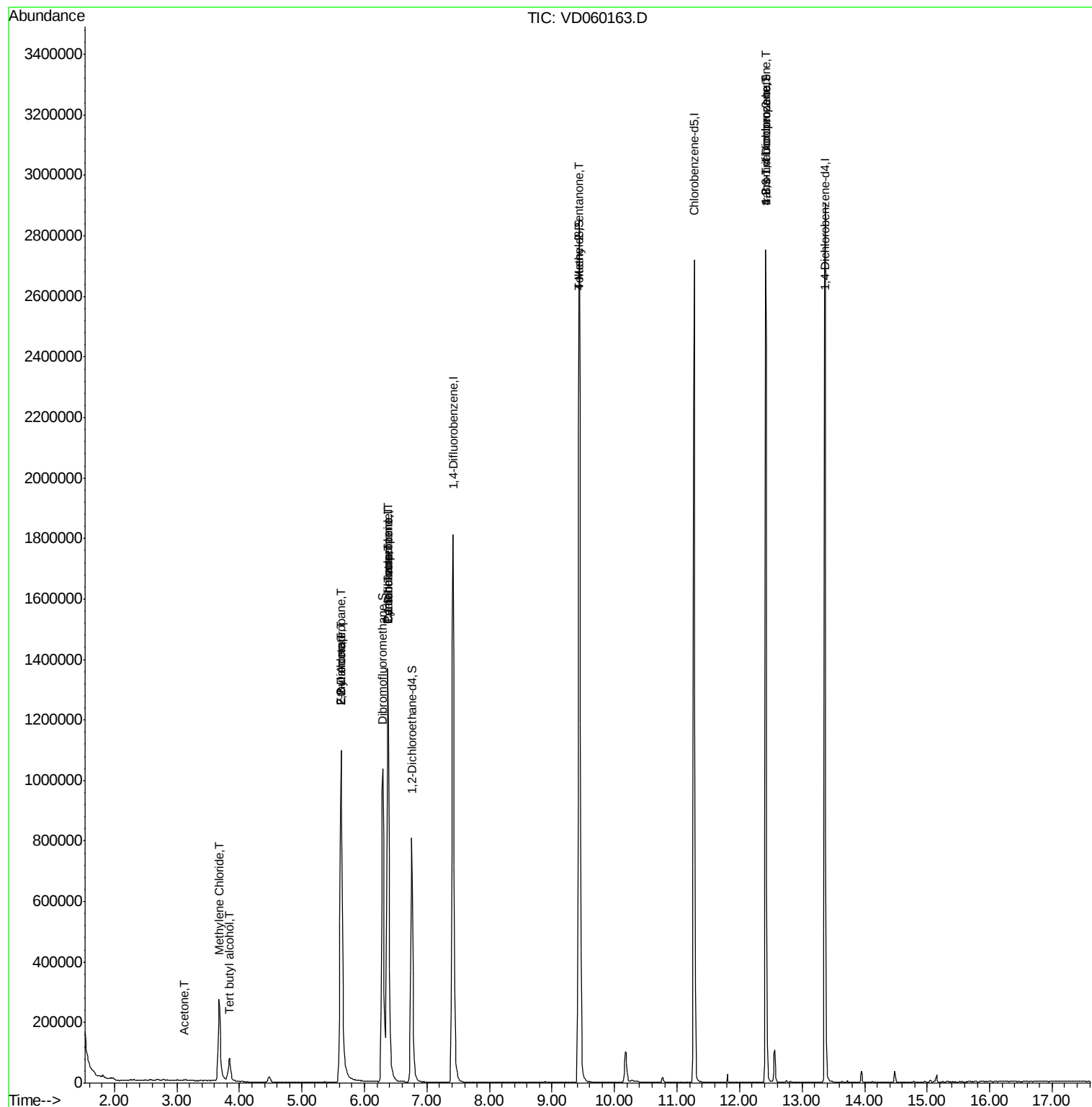
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 11) Tert butyl alcohol         | 3.84  | 59   | 62549    | 86.023  | ug/l # | 74     |
| 16) Acetone                    | 3.13  | 43   | 6513     | 3.540   | ug/l # | 54     |
| 20) Methylene Chloride         | 3.68  | 84   | 160001   | 7.384   | ug/l   | 93     |
| 25) 2-Butanone                 | 5.62  | 43   | 59062    | 12.851  | ug/l # | 78     |
| 26) 2,2-Dichloropropane        | 5.62  | 77   | 65881    | 3.787   | ug/l # | 48     |
| 31) Cyclohexane                | 6.37  | 56   | 24128    | 1.098   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 6.37  | 75   | 91947    | 5.228   | ug/l # | 46     |
| 37) Ethyl Acetate              | 5.62  | 43   | 59062    | 5.059   | ug/l # | 1      |
| 38) Carbon Tetrachloride       | 6.37  | 117  | 101235   | 6.341   | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 9.43  | 43   | 12856    | 1.327   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.41 | 75   | 277961   | 25.800  | ug/l # | 45     |
| 81) trans-1,4-Dichloro-2-buten | 12.41 | 75   | 333718   | 110.235 | ug/l # | 13     |

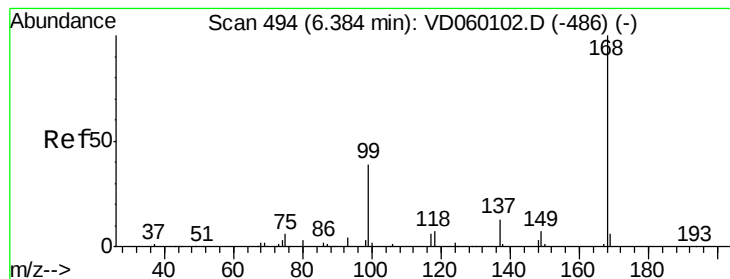
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD100918\  
Data File : VD060163.D  
Acq On : 9 Oct 2018 20:58  
Operator : VA/AP  
Sample : J5326-25  
Misc : 5.95g/5ml/MSVOA D/SOIL  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
FL-PIT-7

Quant Time: Oct 10 01:17:18 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 02 06:56:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.01 min

Lab File: VD060163.D

Acq: 9 Oct 2018 20:58

Instrument :

MSVOA\_D

ClientSampleId :

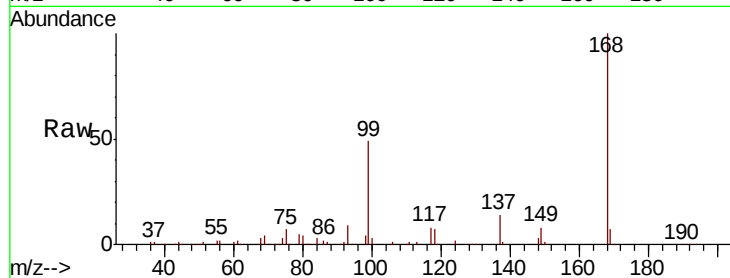
FL-PIT-7

Tot Ion:168 Resp: 1337507

Ion Ratio Lower Upper

168 100

99 48.9 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.37

500000

400000

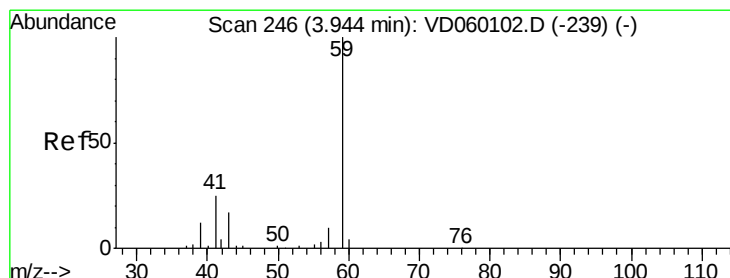
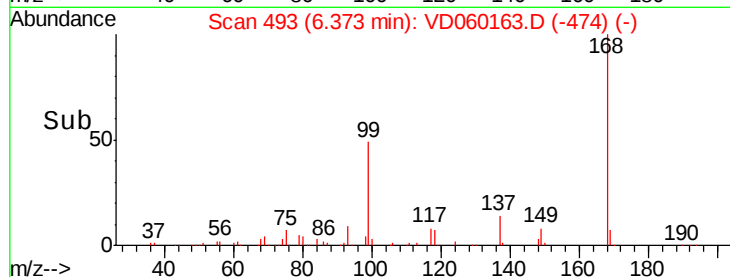
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 86.023 ug/l

RT: 3.84 min Scan# 236

Delta R.T. -0.10 min

Lab File: VD060163.D

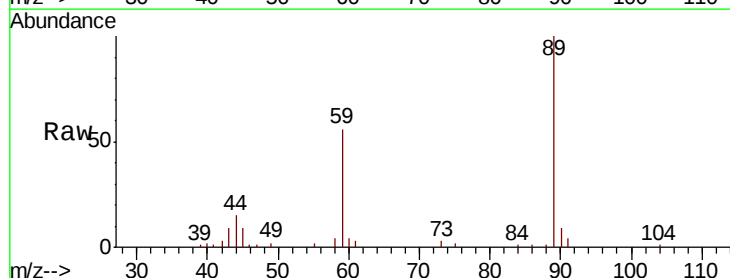
Acq: 9 Oct 2018 20:58

Tgt Ion: 59 Resp: 62549

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.84

20000

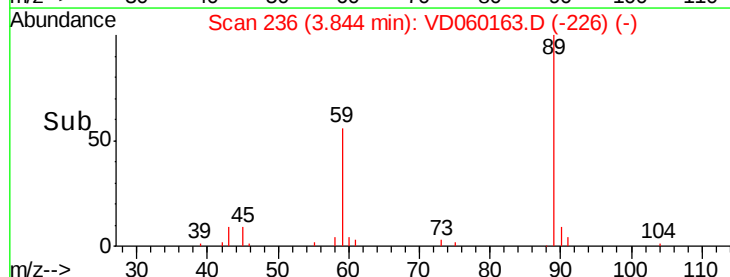
15000

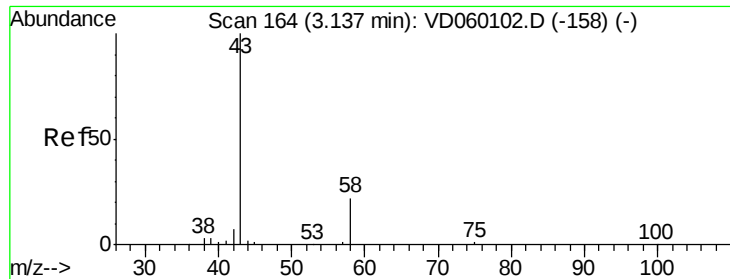
10000

5000

0

Time-->





#16

Acetone

Concen: 3.540 ug/l

RT: 3.13 min Scan# 163

Delta R.T. -0.01 min

Lab File: VD060163.D

Acq: 9 Oct 2018 20:58

Instrument :

MSVOA\_D

ClientSampled :

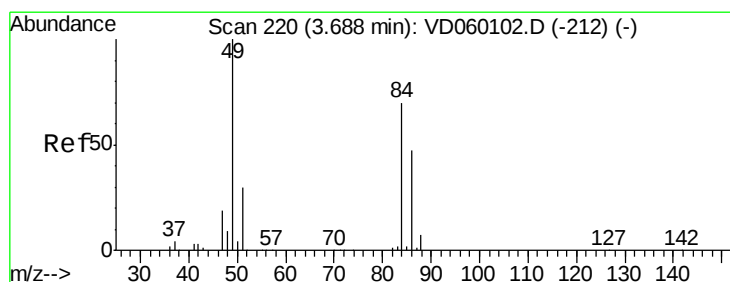
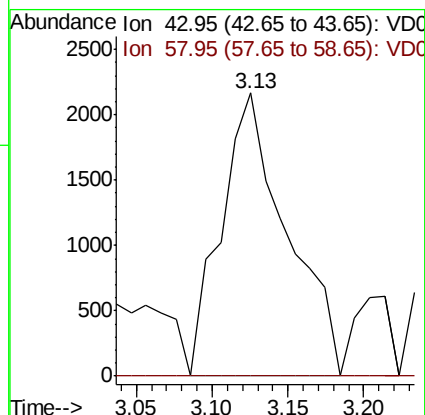
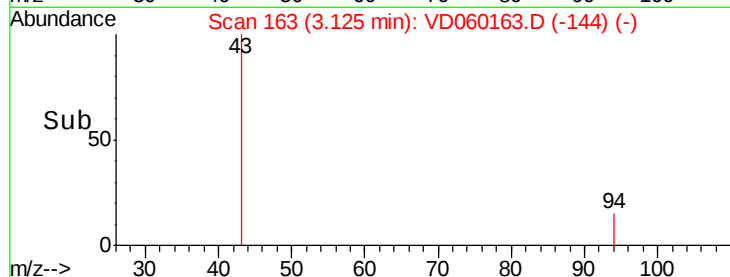
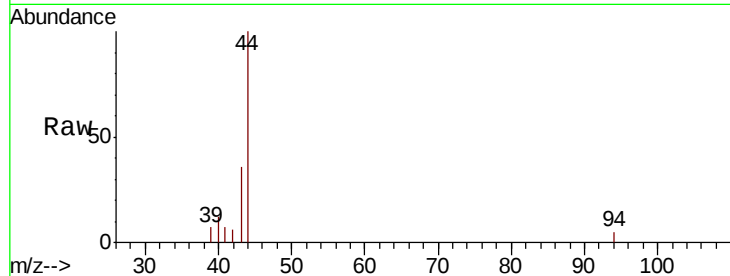
FL-PIT-7

Tot Ion: 43 Resp: 6513

Ion Ratio Lower Upper

43 100

58 0.0 17.7 26.5#



#20

Methylene Chloride

Concen: 7.384 ug/l

RT: 3.68 min Scan# 219

Delta R.T. -0.01 min

Lab File: VD060163.D

Acq: 9 Oct 2018 20:58

Tgt Ion: 84 Resp: 160001

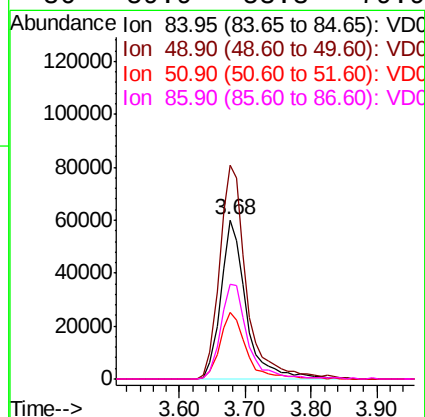
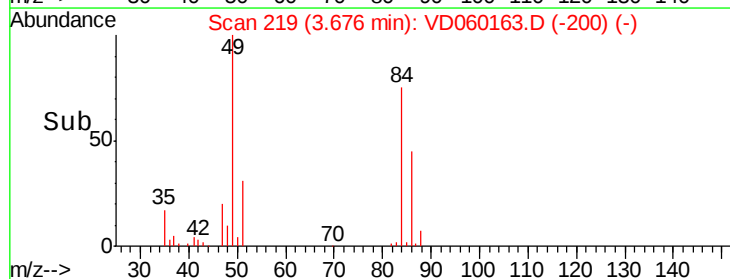
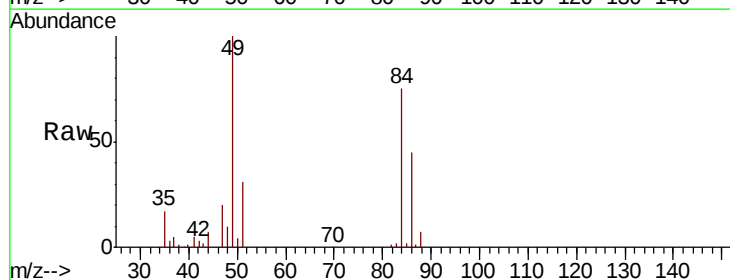
Ion Ratio Lower Upper

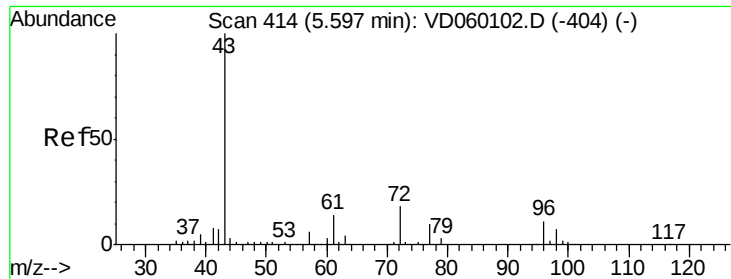
84 100

49 134.1 114.6 172.0

51 41.8 33.8 50.8

86 59.9 53.3 79.9





#25

2-Butanone

Concen: 12.851 ug/l

RT: 5.62 min Scan# 417

Delta R.T. 0.03 min

Lab File: VD060163.D

Acq: 9 Oct 2018 20:58

Instrument :

MSVOA\_D

ClientSampleId :

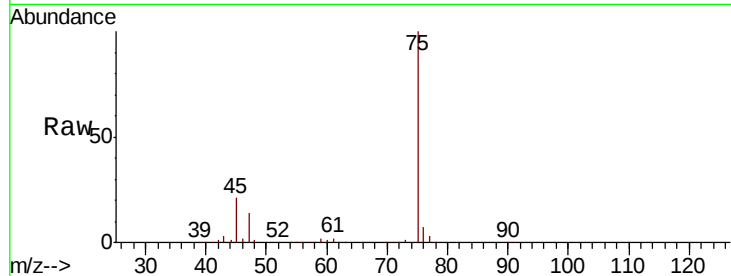
FL-PIT-7

Tot Ion: 43 Resp: 59062

Ion Ratio Lower Upper

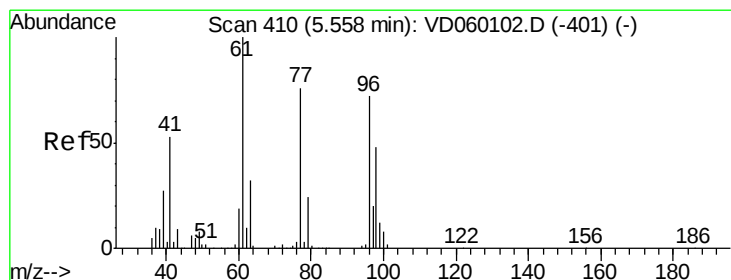
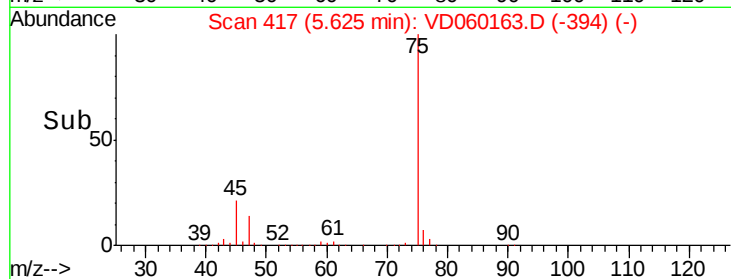
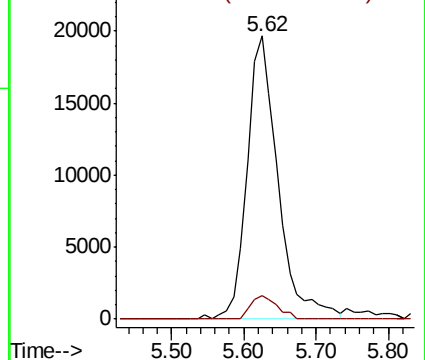
43 100

72 8.5 14.5 21.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 3.787 ug/l

RT: 5.62 min Scan# 417

Delta R.T. 0.07 min

Lab File: VD060163.D

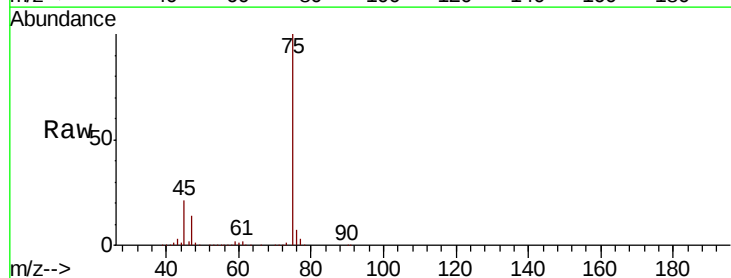
Acq: 9 Oct 2018 20:58

Tgt Ion: 77 Resp: 65881

Ion Ratio Lower Upper

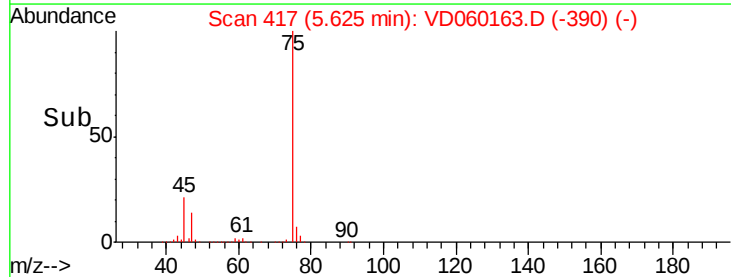
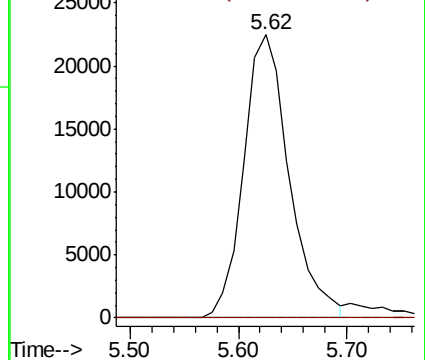
77 100

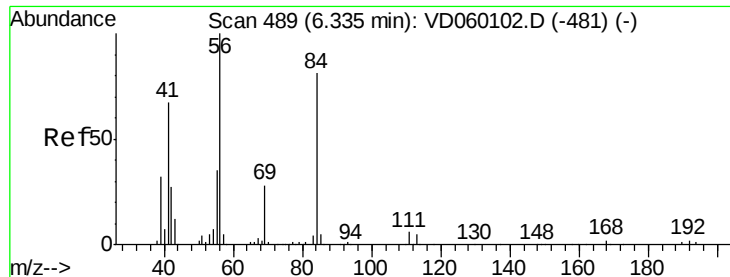
97 0.0 13.3 39.9#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

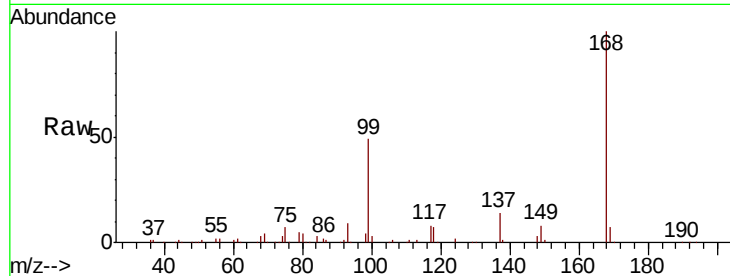




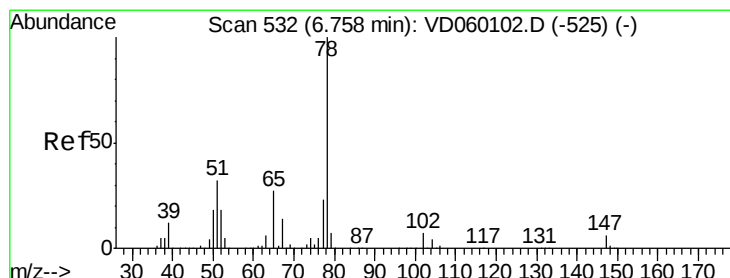
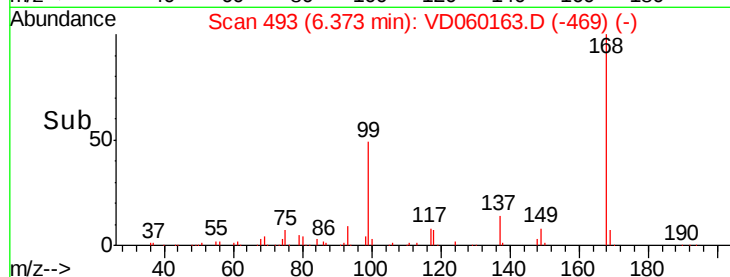
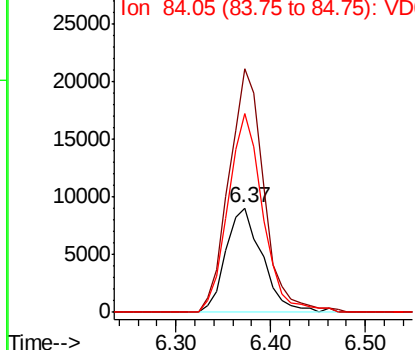
#31  
Cyclohexane  
Concen: 1.098 ug/l  
RT: 6.37 min Scan# 493  
Delta R.T. 0.04 min  
Lab File: VD060163.D  
Acq: 9 Oct 2018 20:58

Instrument :  
MSVOA\_D  
ClientSampled :  
FL-PIT-7

Tot Ion: 56 Resp: 24128  
Ion Ratio Lower Upper  
56 100  
69 233.3 22.8 34.2#  
84 190.3 64.9 97.3#

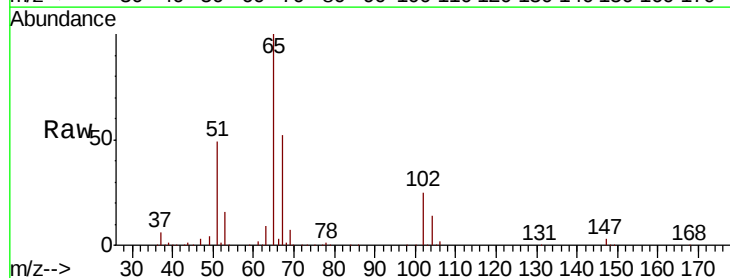


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

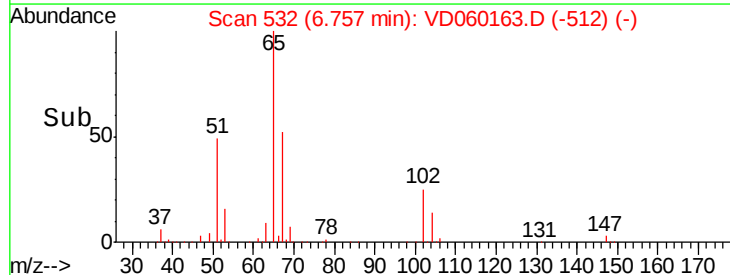
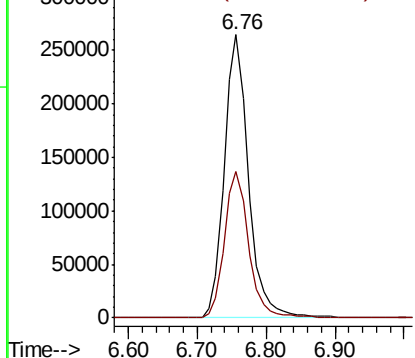


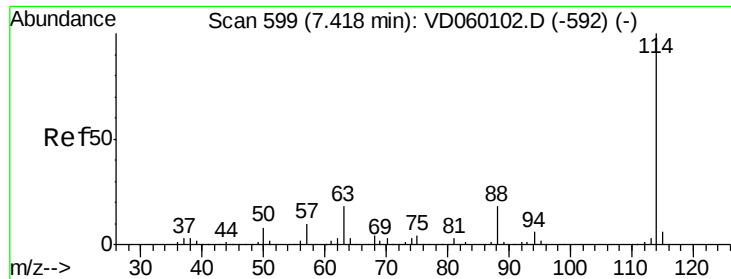
#33  
1,2-Dichloroethane-d4  
Concen: N.D. ug/l  
RT: 6.76 min Scan# 532  
Delta R.T. -0.00 min  
Lab File: VD060163.D  
Acq: 9 Oct 2018 20:58

Tgt Ion: 65 Resp: 642493  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 106.2



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC

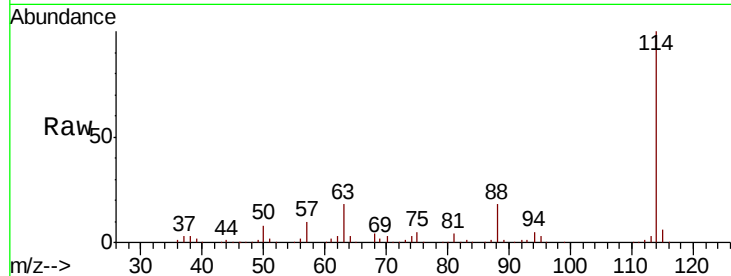




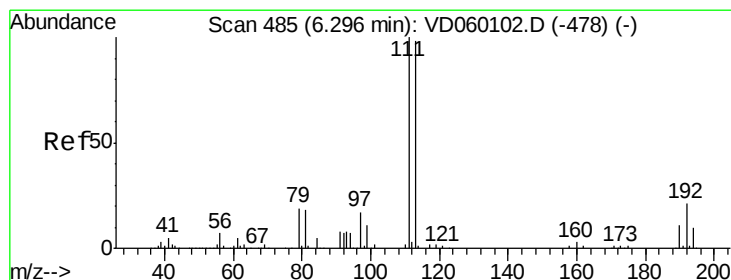
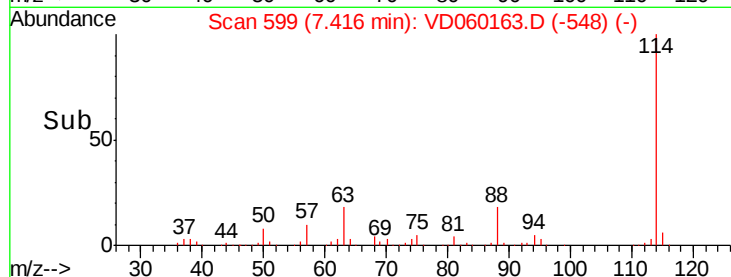
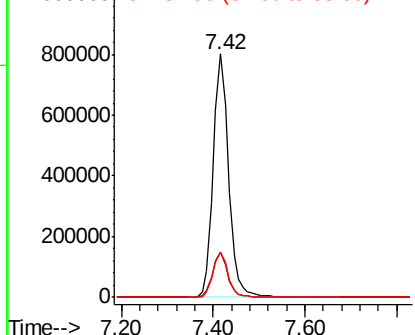
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.42 min Scan# 599  
 Delta R.T. -0.00 min  
 Lab File: VD060163.D  
 Acq: 9 Oct 2018 20:58

Instrument :  
 MSVOA\_D  
 ClientSampled :  
 FL-PIT-7

Tot Ion:114 Resp: 1840639  
 Ion Ratio Lower Upper  
 114 100  
 63 18.3 0.0 36.0  
 88 18.4 0.0 36.2

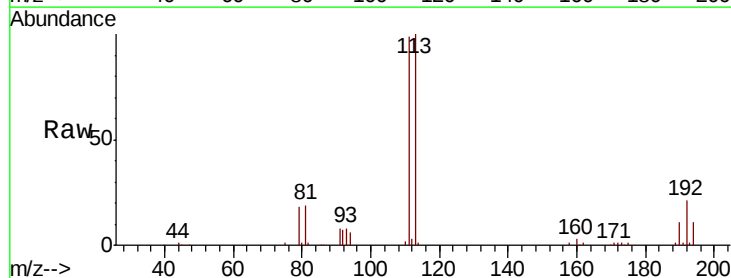


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

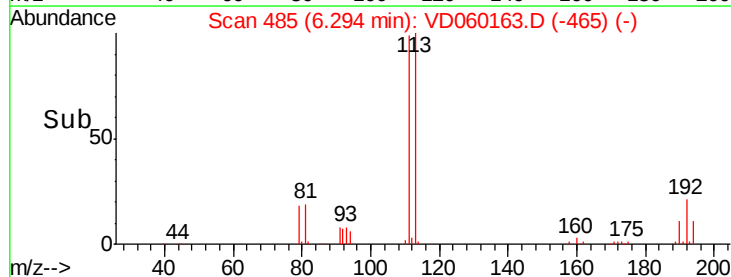
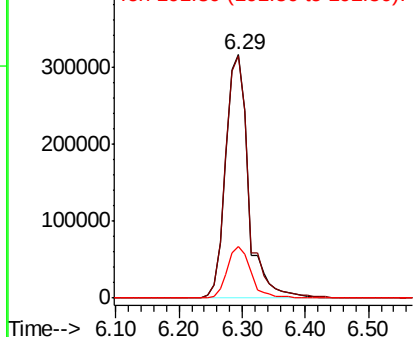


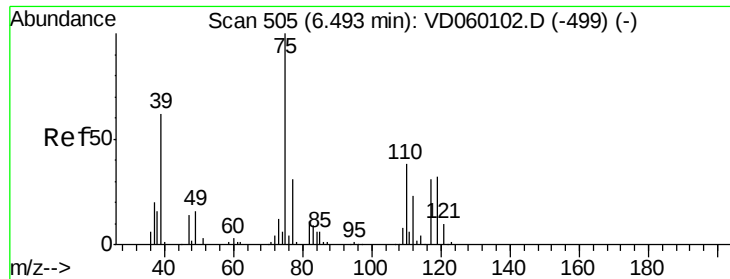
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.29 min Scan# 485  
 Delta R.T. -0.00 min  
 Lab File: VD060163.D  
 Acq: 9 Oct 2018 20:58

Tgt Ion:113 Resp: 789538  
 Ion Ratio Lower Upper  
 113 100  
 111 99.3 81.5 122.3  
 192 21.1 17.4 26.0



Abundance Ion 112.90 (112.60 to 113.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 191.80 (191.50 to 192.50): V

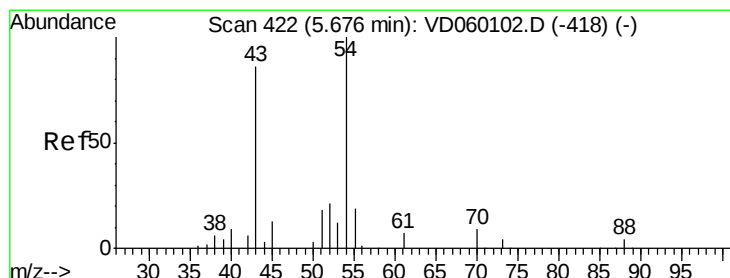
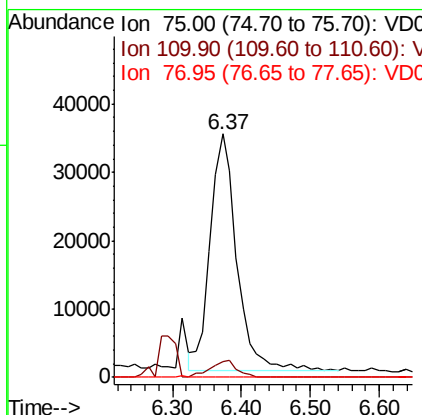
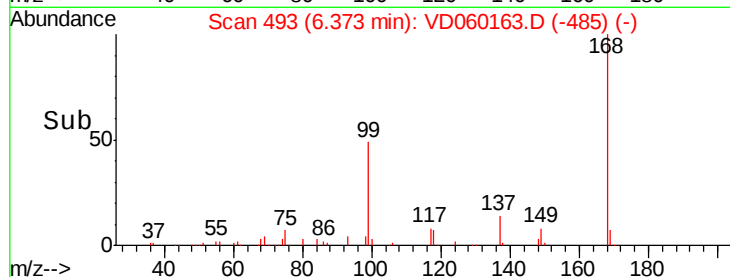
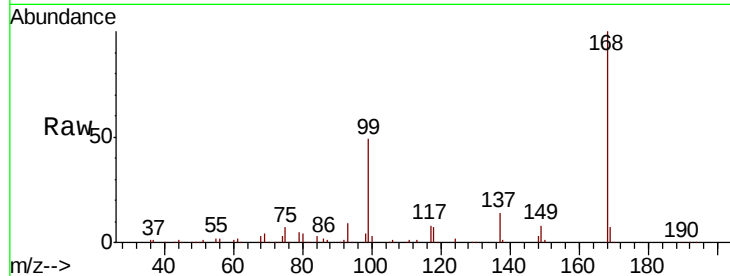




#36  
 1,1-Dichloropropene  
 Concen: 5.228 ug/l  
 RT: 6.37 min Scan# 493  
 Delta R.T. -0.12 min  
 Lab File: VD060163.D  
 Acq: 9 Oct 2018 20:58

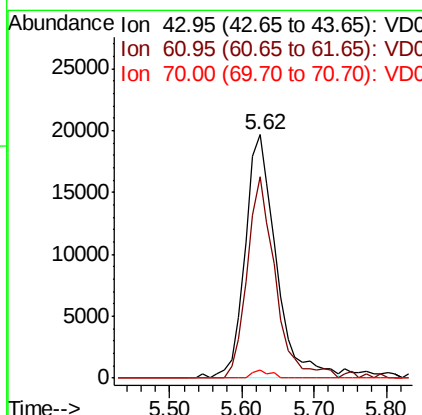
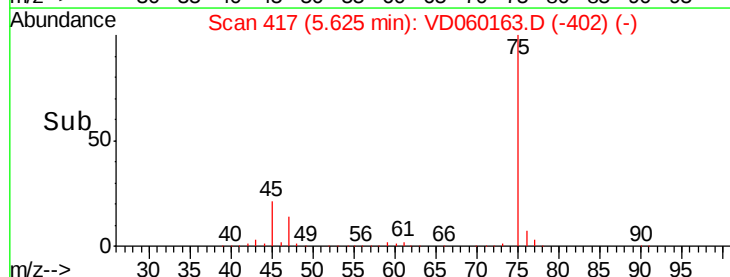
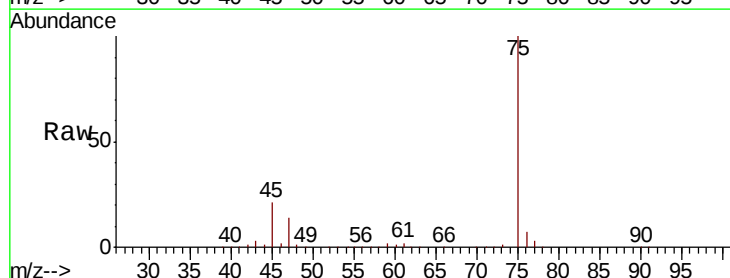
Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 FL-PIT-7

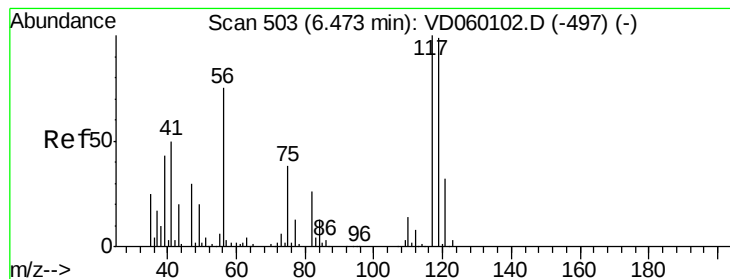
Tot Ion: 75 Resp: 91947  
 Ion Ratio Lower Upper  
 75 100  
 110 6.5 19.0 57.0#  
 77 0.0 24.9 37.3#



#37  
 Ethyl Acetate  
 Concen: 5.059 ug/l  
 RT: 5.62 min Scan# 417  
 Delta R.T. -0.05 min  
 Lab File: VD060163.D  
 Acq: 9 Oct 2018 20:58

Tgt Ion: 43 Resp: 59062  
 Ion Ratio Lower Upper  
 43 100  
 61 82.8 10.5 15.7#  
 70 3.5 6.3 9.5#





#38

Carbon Tetrachloride

Concen: 6.341 ug/l

RT: 6.37 min Scan# 493

Delta R.T. -0.10 min

Lab File: VD060163.D

Acq: 9 Oct 2018 20:58

Instrument :

MSVOA\_D

ClientSampleID :

FL-PIT-7

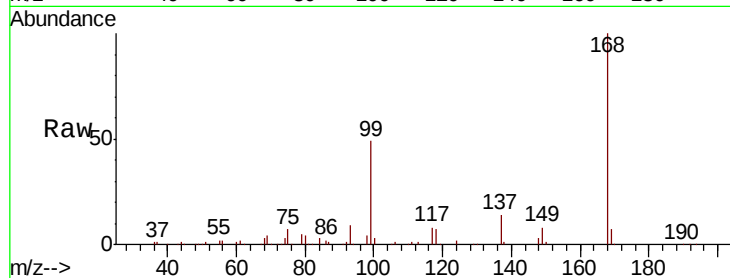
Tot Ion:117 Resp: 101235

Ion Ratio Lower Upper

117 100

119 5.4 77.8 116.6#

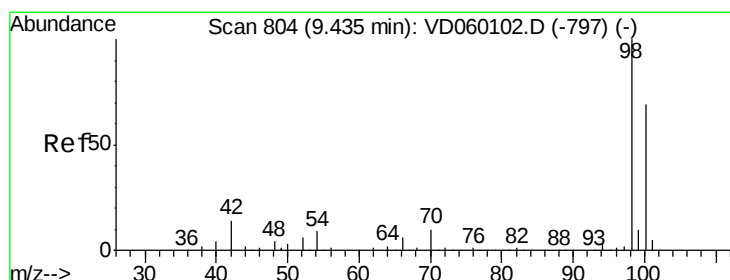
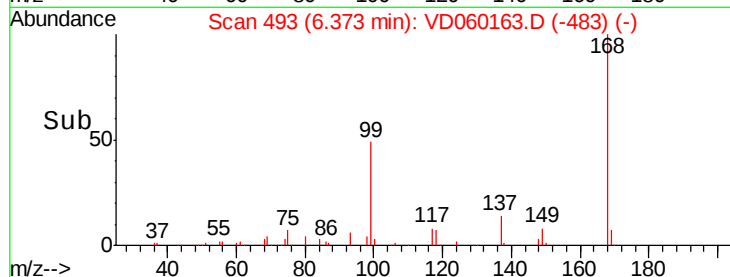
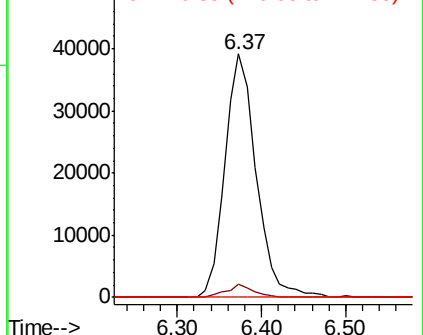
121 0.0 24.8 37.2#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.43 min Scan# 804

Delta R.T. -0.00 min

Lab File: VD060163.D

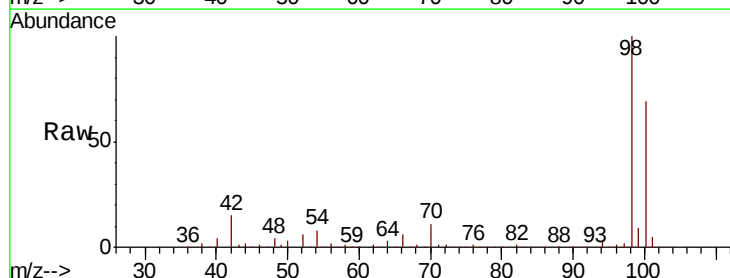
Acq: 9 Oct 2018 20:58

Tgt Ion: 98 Resp: 2264000

Ion Ratio Lower Upper

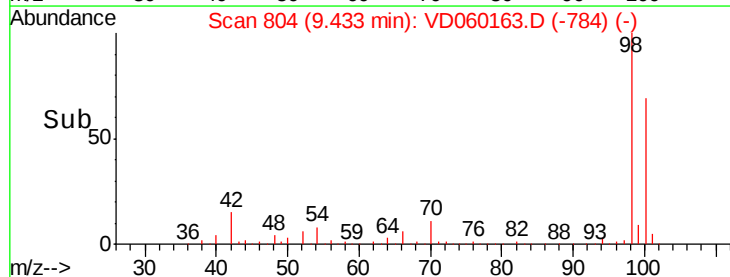
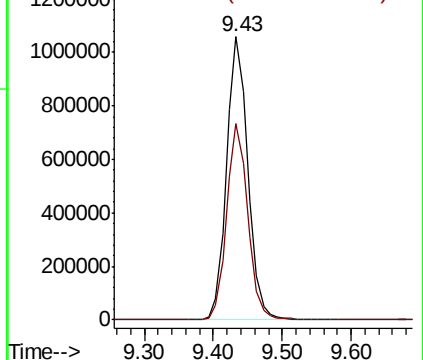
98 100

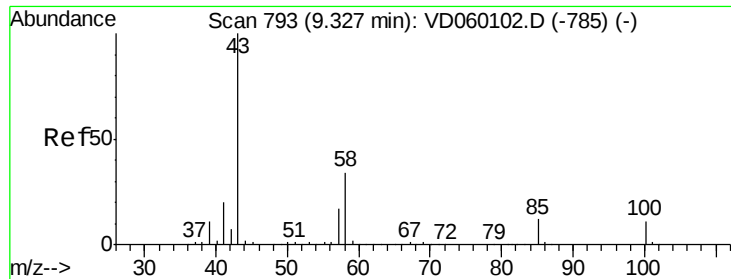
100 69.3 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.327 ug/l

RT: 9.43 min Scan# 804

Delta R.T. 0.11 min

Lab File: VD060163.D

Acq: 9 Oct 2018 20:58

Instrument :

MSVOA\_D

ClientSampleId :

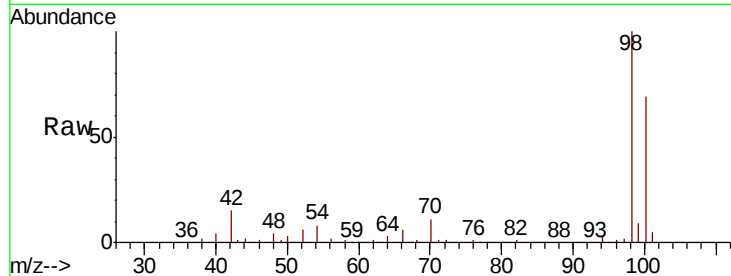
FL-PIT-7

Tot Ion: 43 Resp: 12856

Ion Ratio Lower Upper

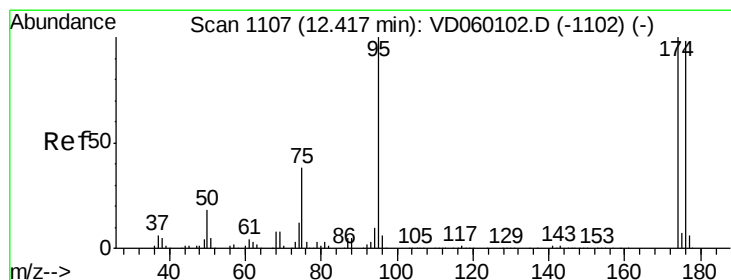
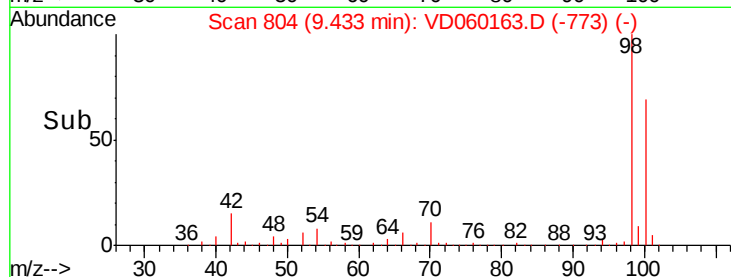
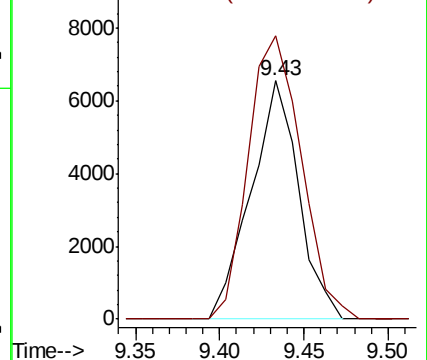
43 100

58 118.8 27.2 40.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.41 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VD060163.D

Acq: 9 Oct 2018 20:58

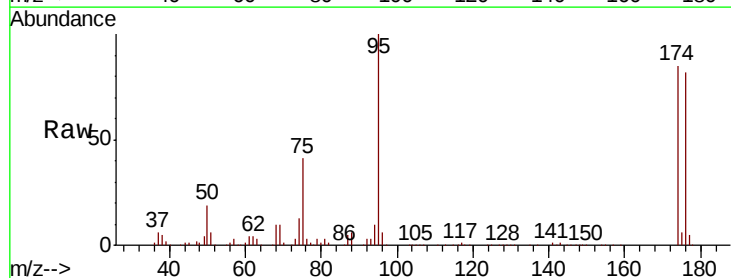
Tgt Ion: 95 Resp: 824113

Ion Ratio Lower Upper

95 100

174 85.4 0.0 200.2

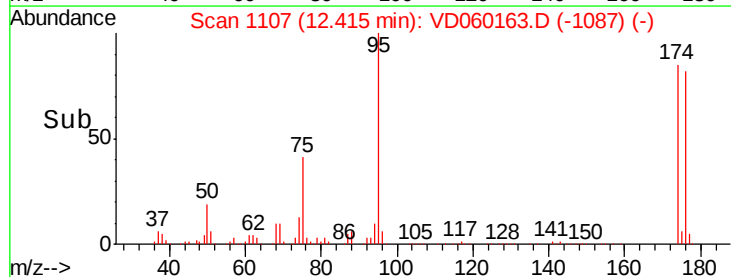
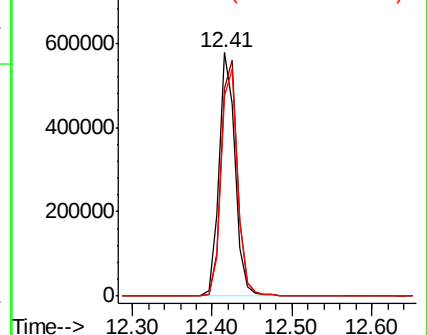
176 82.1 0.0 195.6

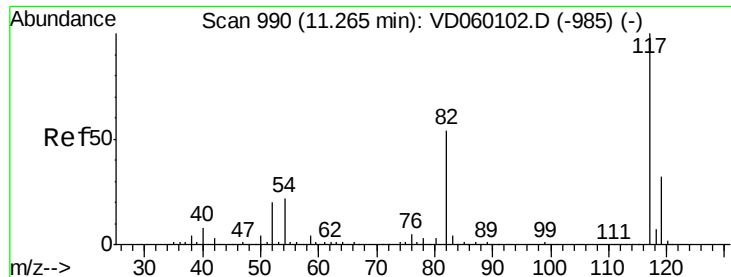


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

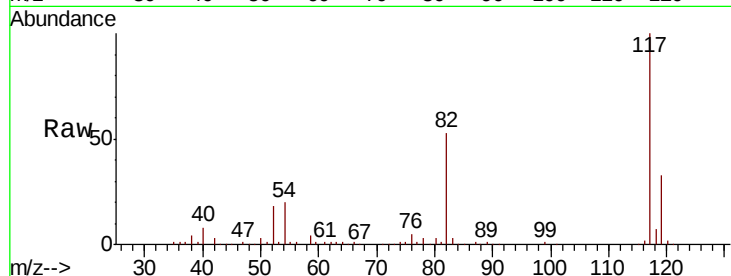




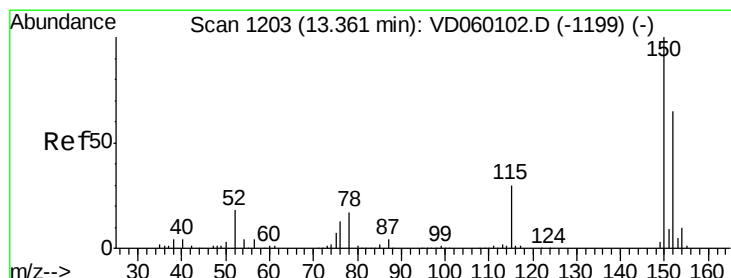
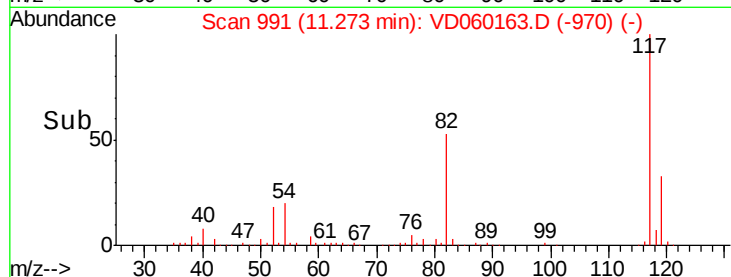
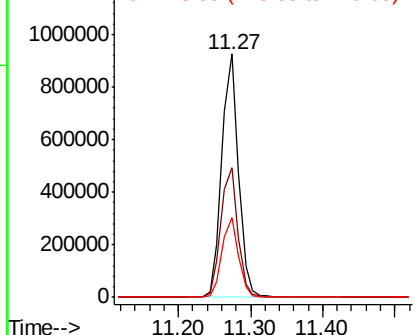
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.27 min Scan# 991  
Delta R.T. 0.01 min  
Lab File: VD060163.D  
Acq: 9 Oct 2018 20:58

Instrument :  
MSVOA\_D  
ClientSampleId :  
FL-PIT-7

Tot Ion:117 Resp: 1474961  
Ion Ratio Lower Upper  
117 100  
82 53.2 43.4 65.2  
119 32.7 26.0 39.0

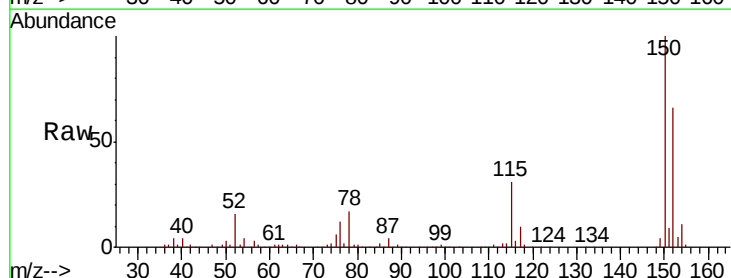


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

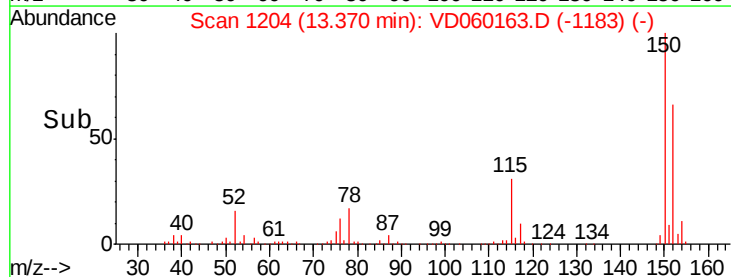
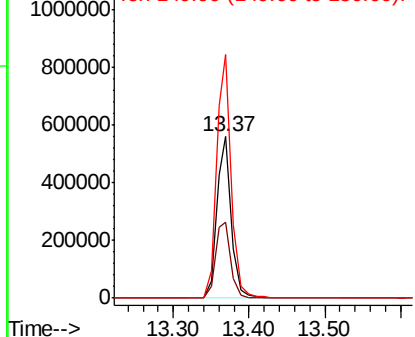


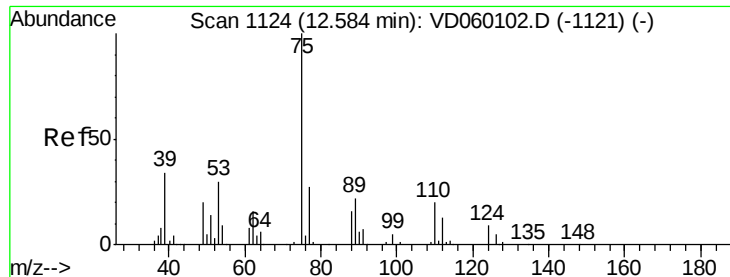
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.37 min Scan# 1204  
Delta R.T. 0.01 min  
Lab File: VD060163.D  
Acq: 9 Oct 2018 20:58

Tgt Ion:152 Resp: 748123  
Ion Ratio Lower Upper  
152 100  
115 46.7 27.1 81.2  
150 151.1 0.0 311.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V

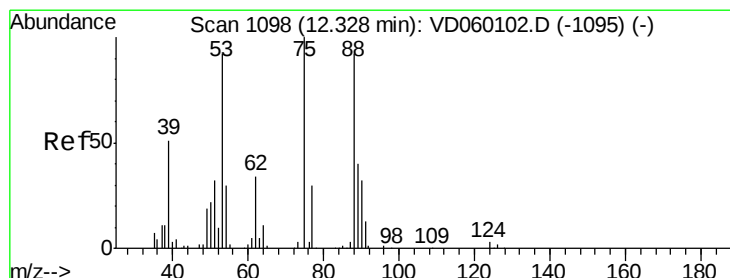
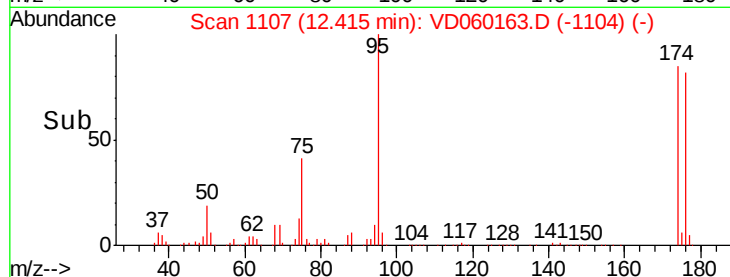
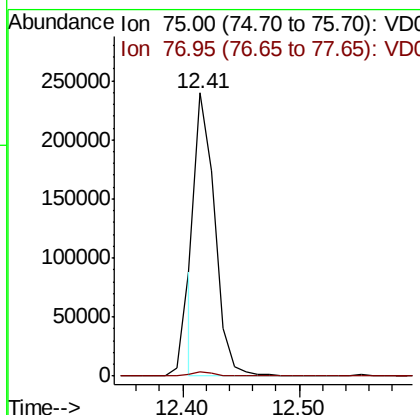
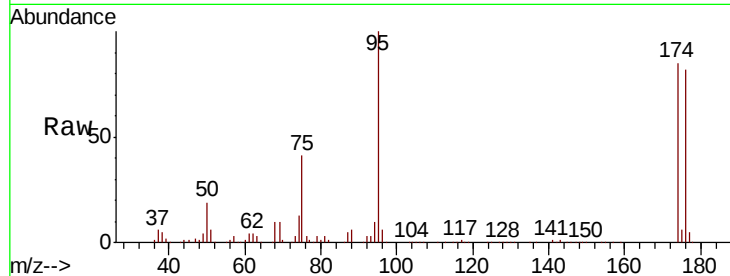




#76  
 1,2,3-Trichloropropane  
 Concen: 25.800 ug/l  
 RT: 12.41 min Scan# 1107  
 Delta R.T. -0.17 min  
 Lab File: VD060163.D  
 Acq: 9 Oct 2018 20:58

Instrument :  
 MSVOA\_D  
 ClientSampled :  
 FL-PIT-7

Tot Ion: 75 Resp: 277961  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 16.3 48.9#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 110.235 ug/l  
 RT: 12.41 min Scan# 1107  
 Delta R.T. 0.09 min  
 Lab File: VD060163.D  
 Acq: 9 Oct 2018 20:58

Tgt Ion: 75 Resp: 333718  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 73.0 109.6#  
 89 0.0 32.0 48.0#

