

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040219\  
 Data File : VD061545.D  
 Acq On : 3 Apr 2019 8:15  
 Operator : VA/AP  
 Sample : K1695-04  
 Misc : 5.43g/5ml/MSVOA D/SOIL  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DPC-91723-SO-TP5-A

Quant Time: Apr 04 00:53:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 28 09:22:37 2019  
 Response via : Initial Calibration

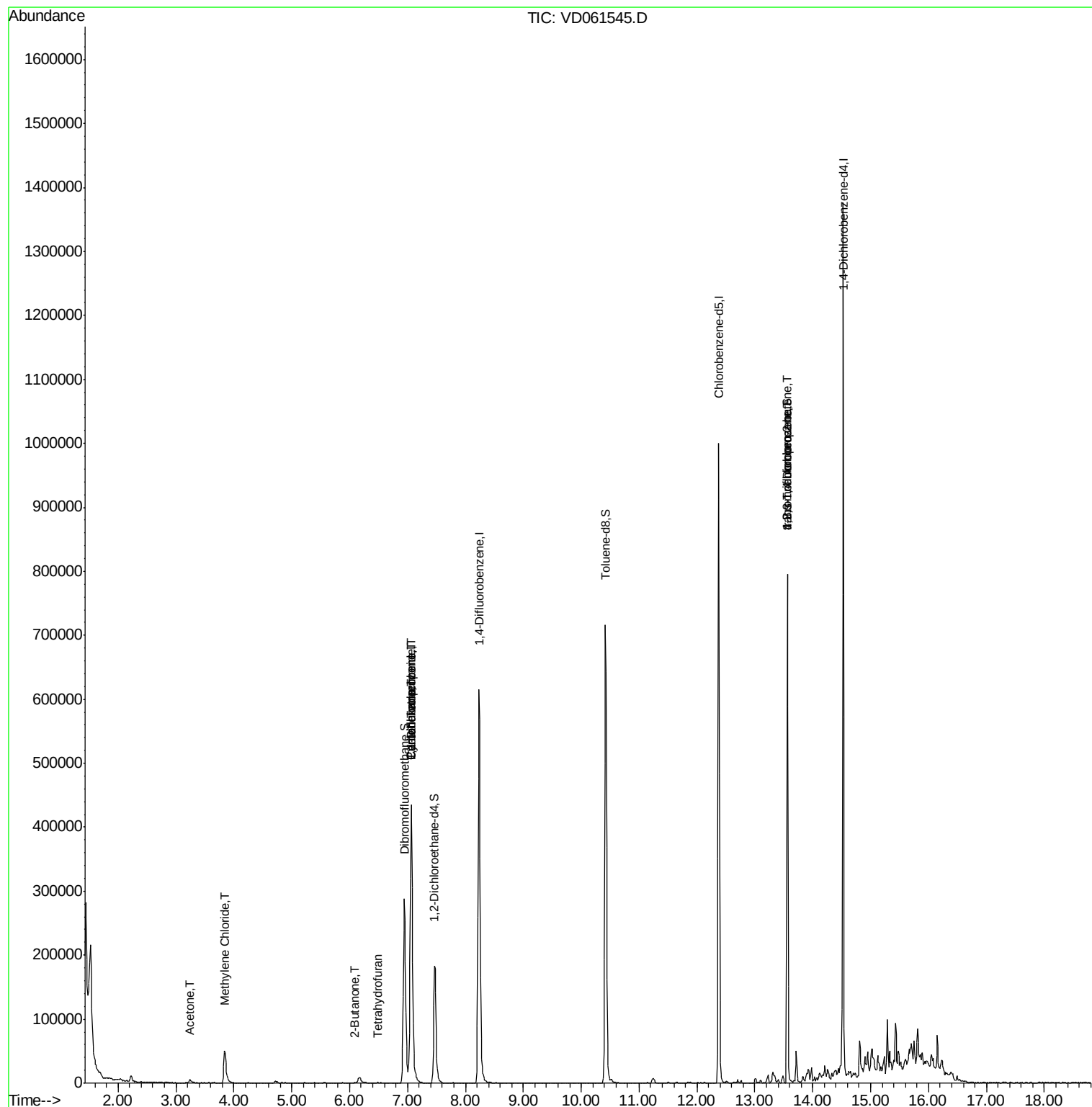
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene          | 7.06  | 168  | 451537   | 50.00  | ug/l    | 0.04     |
| 34) 1,4-Difluorobenzene        | 8.23  | 114  | 768969   | 50.00  | ug/l    | 0.04     |
| 63) Chlorobenzene-d5           | 12.38 | 117  | 649151   | 50.00  | ug/l    | 0.02     |
| 72) 1,4-Dichlorobenzene-d4     | 14.52 | 152  | 297592   | 50.00  | ug/l    | 0.01     |
| System Monitoring Compounds    |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4      | 7.48  | 65   | 195672   | 50.73  | ug/l    | 0.04     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 101.46% |          |
| 35) Dibromofluoromethane       | 6.94  | 113  | 279302   | 47.53  | ug/l    | 0.04     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 95.06%  |          |
| 50) Toluene-d8                 | 10.42 | 98   | 628623   | 44.60  | ug/l    | 0.03     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 89.20%  |          |
| 62) 4-Bromofluorobenzene       | 13.56 | 95   | 253904   | 46.98  | ug/l    | 0.01     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 93.96%  |          |
| Target Compounds               |       |      |          |        |         |          |
|                                |       |      |          |        | Qvalue  |          |
| 16) Acetone                    | 3.24  | 43   | 11406    | 11.503 | ug/l #  | 88       |
| 20) Methylene Chloride         | 3.84  | 84   | 40876    | 5.656  | ug/l    | 98       |
| 25) 2-Butanone                 | 6.10  | 43   | 1722     | 1.381  | ug/l #  | 54       |
| 29) Tetrahydrofuran            | 6.49  | 42   | 724      | 1.198  | ug/l #  | 30       |
| 31) Cyclohexane                | 7.06  | 56   | 8352     | 1.257  | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.06  | 75   | 33517    | 4.994  | ug/l #  | 45       |
| 38) Carbon Tetrachloride       | 7.06  | 117  | 43778    | 5.677  | ug/l #  | 16       |
| 76) 1,2,3-Trichloropropane     | 13.56 | 75   | 94433    | 21.967 | ug/l #  | 45       |
| 81) trans-1,4-Dichloro-2-buten | 13.56 | 75   | 96940    | 73.960 | ug/l #  | 18       |

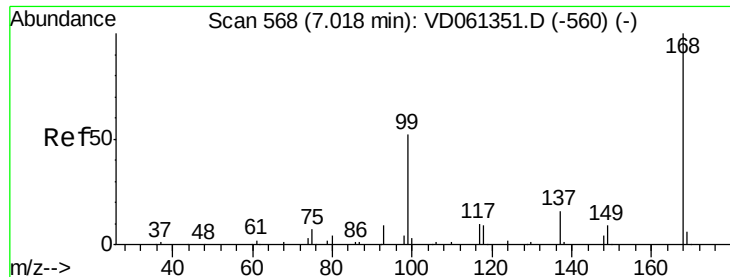
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040219\  
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Instrument :  
MSVOA\_D  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 28 09:22:37 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.04 min

Lab File: VD061545.D

Acq: 3 Apr 2019 8:15

Instrument :

MSVOA\_D

ClientSampleId :

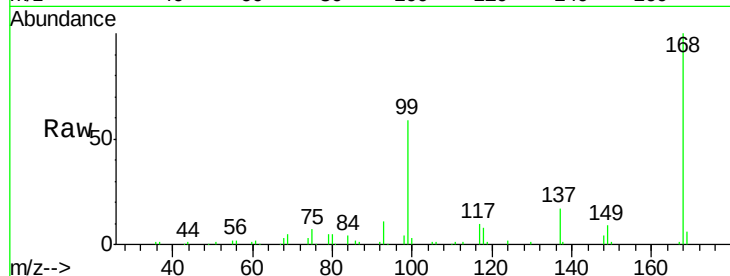
DPC-91723-SO-TP5-A

Tot Ion:168 Resp: 451537

Ion Ratio Lower Upper

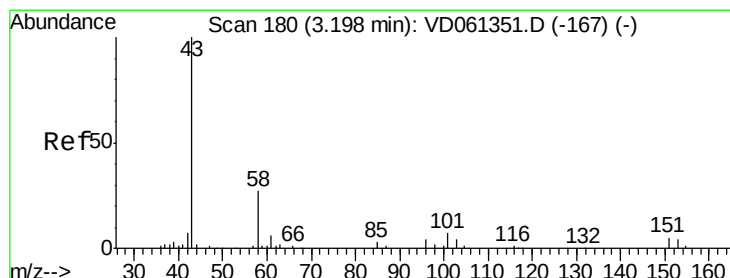
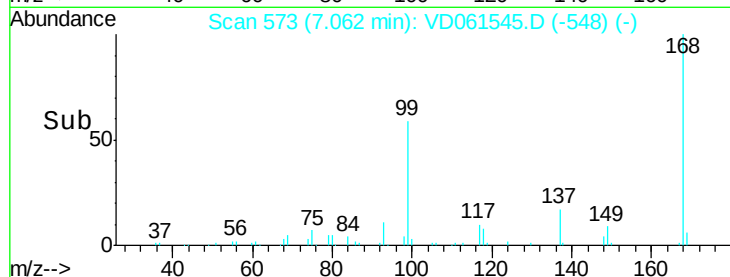
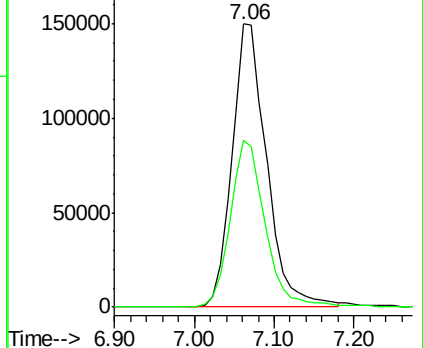
168 100

99 59.1 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 11.503 ug/l

RT: 3.24 min Scan# 185

Delta R.T. 0.04 min

Lab File: VD061545.D

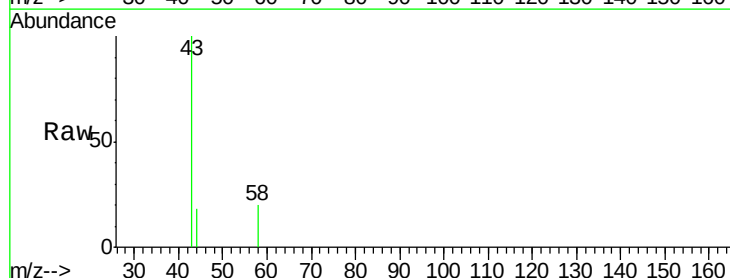
Acq: 3 Apr 2019 8:15

Tgt Ion: 43 Resp: 11406

Ion Ratio Lower Upper

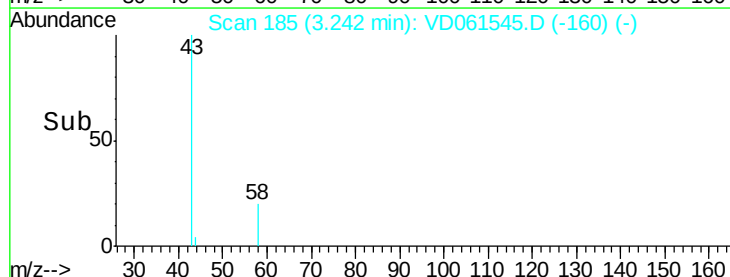
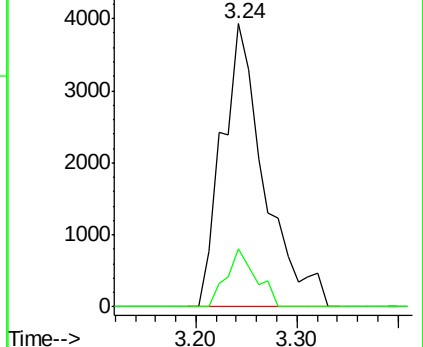
43 100

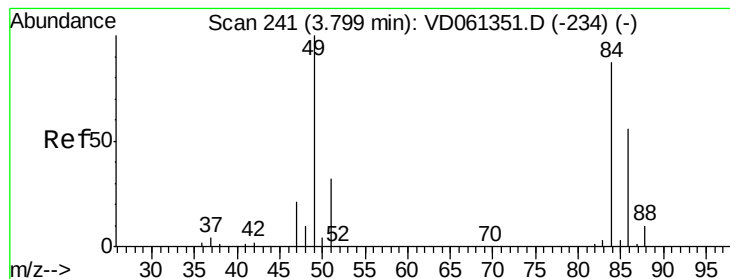
58 20.5 21.5 32.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#20

Methvlene Chloride

Concen: 5.656 ug/l

RT: 3.84 min Scan# 246

Delta R.T. 0.04 min

Lab File: VD061545.D

Acq: 3 Apr 2019 8:15

Instrument :

MSVOA\_D

ClientSampleId :

DPC-91723-SO-TP5-A

Tot Ion: 84 Resp: 40876

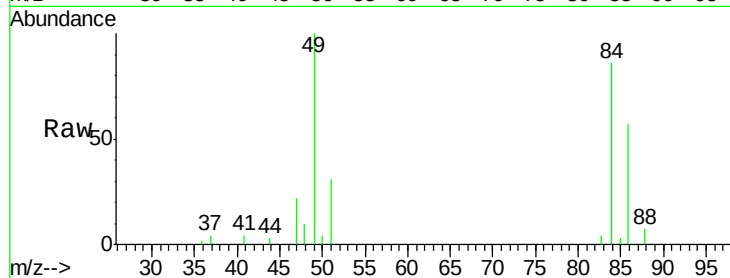
Ion Ratio Lower Upper

84 100

49 116.5 91.8 137.8

51 36.3 29.8 44.8

86 66.9 51.8 77.6

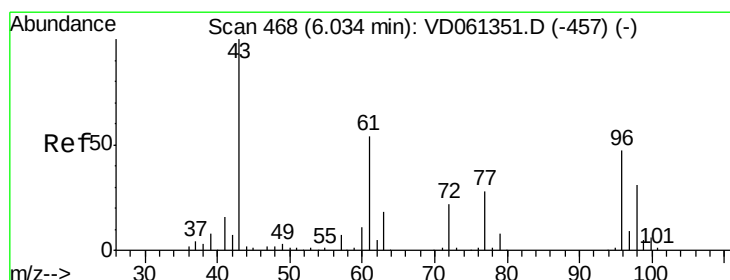
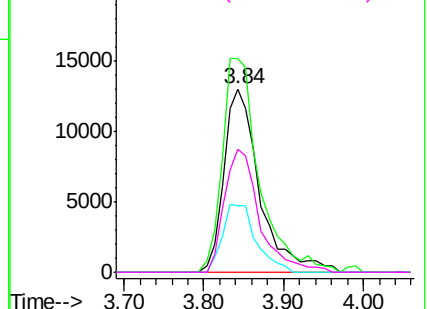
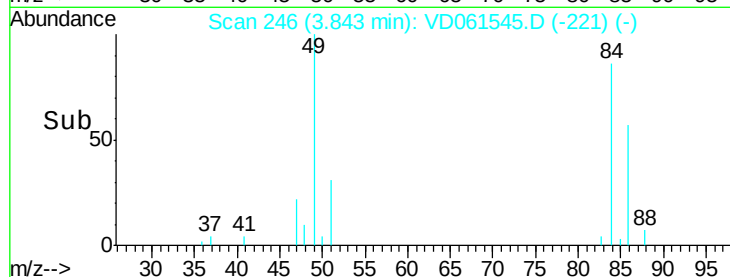


Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#25

2-Butanone

Concen: 1.381 ug/l

RT: 6.10 min Scan# 475

Delta R.T. 0.06 min

Lab File: VD061545.D

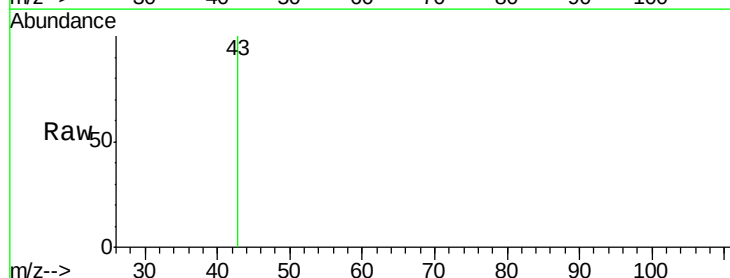
Acq: 3 Apr 2019 8:15

Tgt Ion: 43 Resp: 1722

Ion Ratio Lower Upper

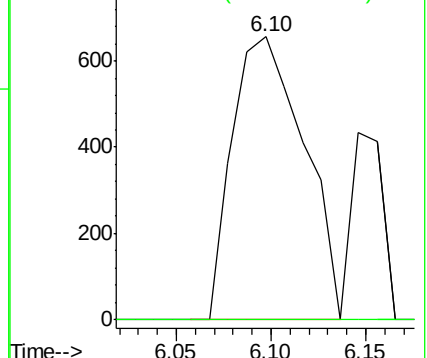
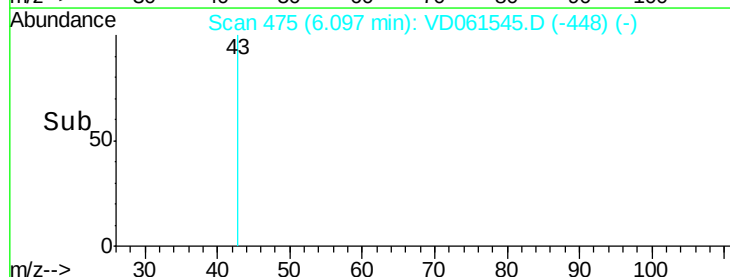
43 100

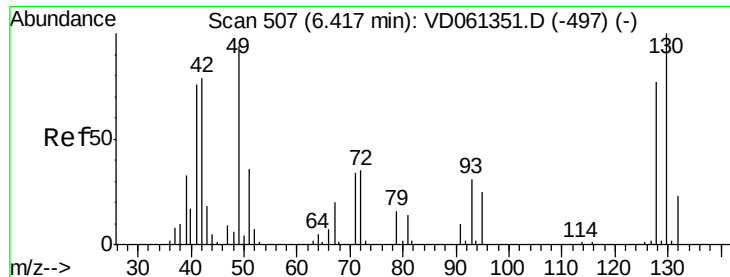
72 0.0 17.2 25.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 1.198 ug/l

RT: 6.49 min Scan# 515

Delta R.T. 0.07 min

Lab File: VD061545.D

Acq: 3 Apr 2019 8:15

Instrument :

MSVOA\_D

ClientSampleId :

DPC-91723-SO-TP5-A

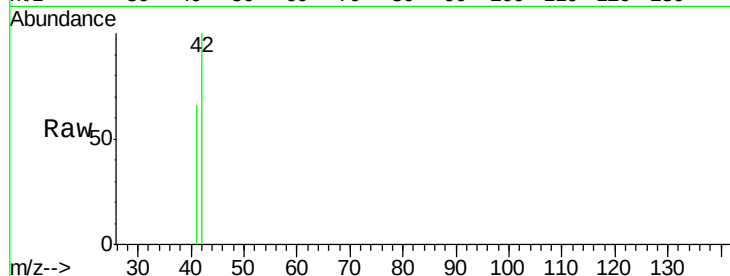
Tot Ion: 42 Resp: 724

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

71 0.0 36.7 55.1#



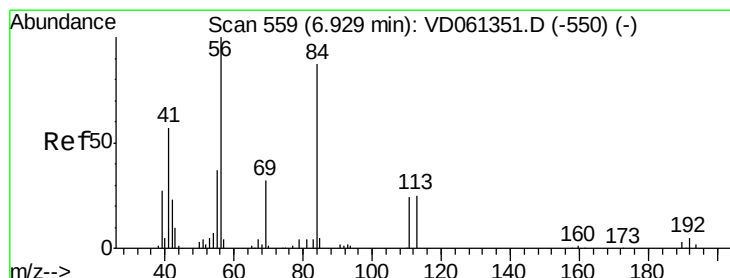
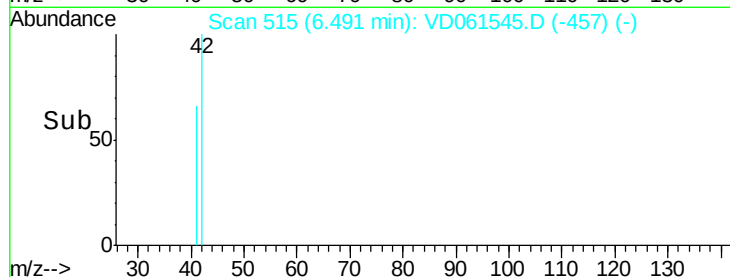
Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

6.49

Time-->



#31

Cyclohexane

Concen: 1.257 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.13 min

Lab File: VD061545.D

Acq: 3 Apr 2019 8:15

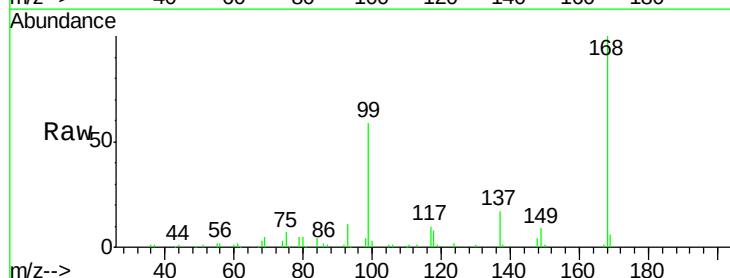
Tgt Ion: 56 Resp: 8352

Ion Ratio Lower Upper

56 100

69 232.3 25.7 38.5#

84 162.7 70.6 105.8#



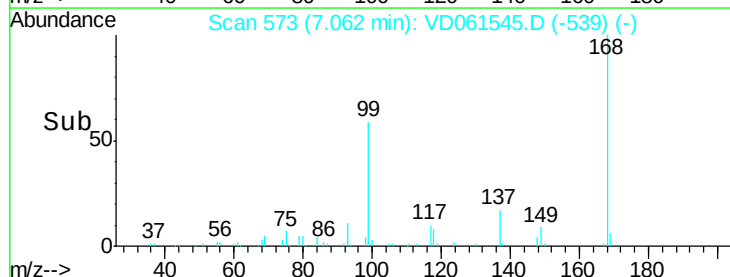
Abundance Ion 55.95 (55.65 to 56.65): VDC

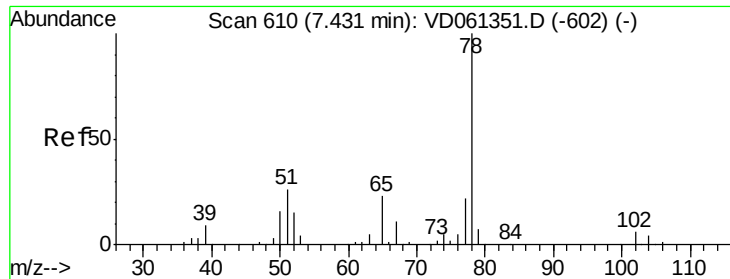
Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

7.06

Time-->

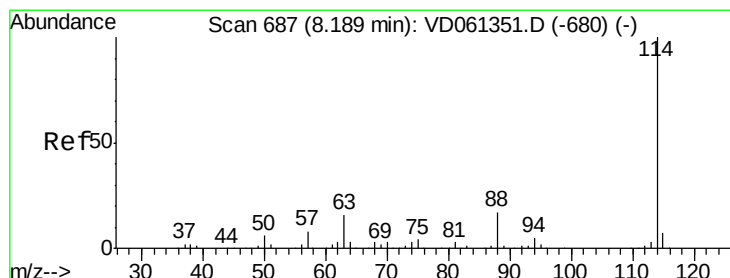
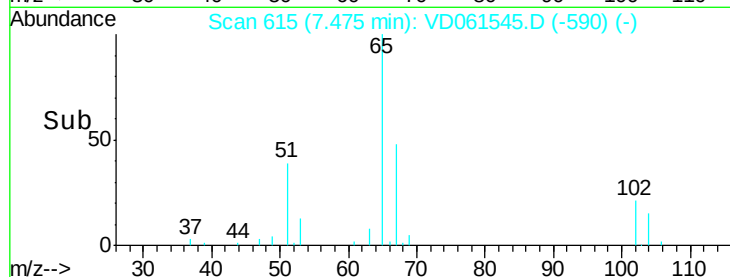
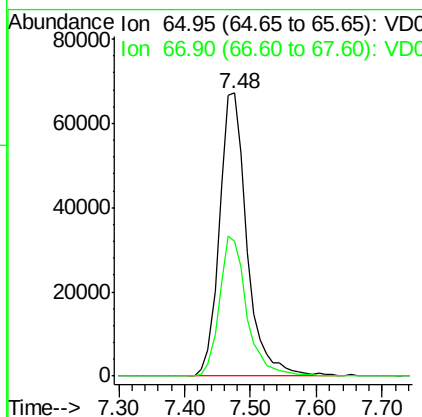
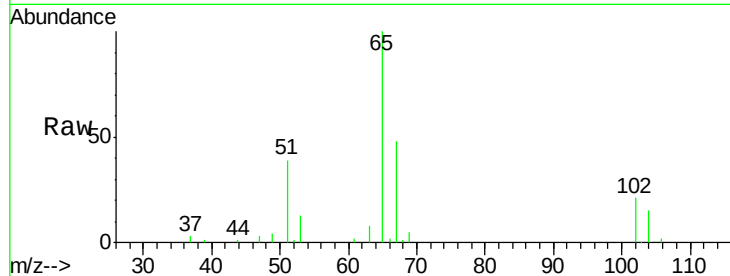




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 7.48 min Scan# 615  
 Delta R.T. 0.04 min  
 Lab File: VD061545.D  
 Acq: 3 Apr 2019 8:15

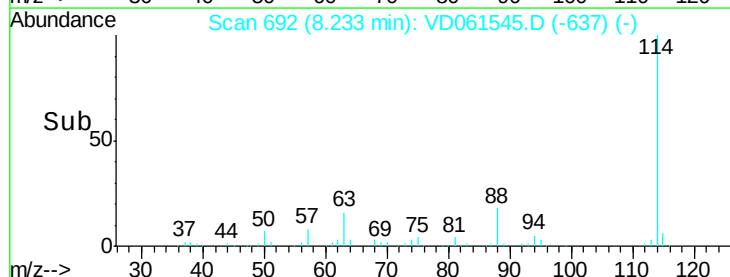
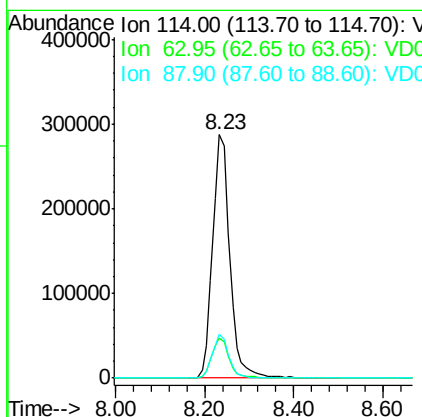
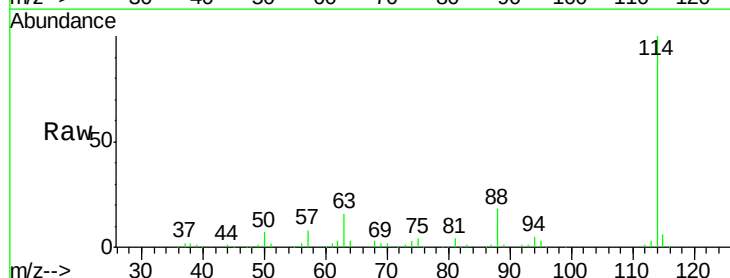
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DPC-91723-SO-TP5-A

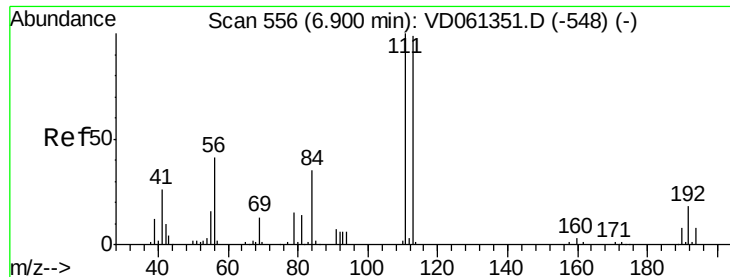
Tot Ion: 65 Resp: 195672  
 Ion Ratio Lower Upper  
 65 100  
 67 47.7 0.0 99.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.23 min Scan# 692  
 Delta R.T. 0.04 min  
 Lab File: VD061545.D  
 Acq: 3 Apr 2019 8:15

Tgt Ion: 114 Resp: 768969  
 Ion Ratio Lower Upper  
 114 100  
 63 16.3 0.0 31.6  
 88 17.9 0.0 33.4

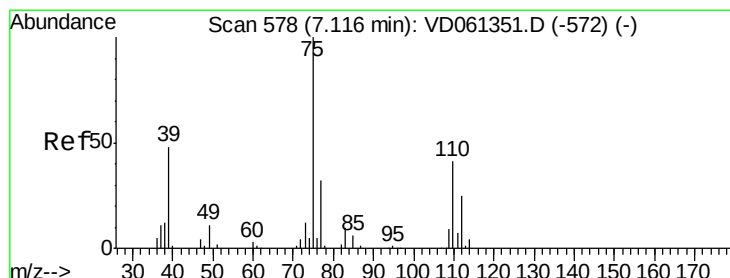
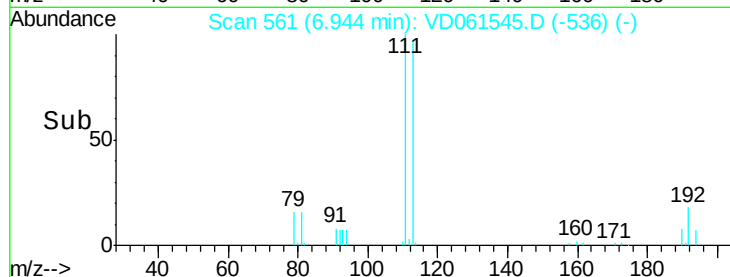
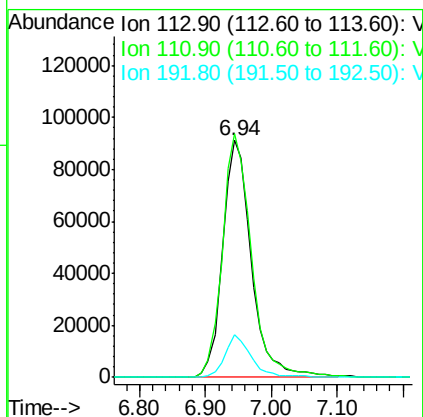
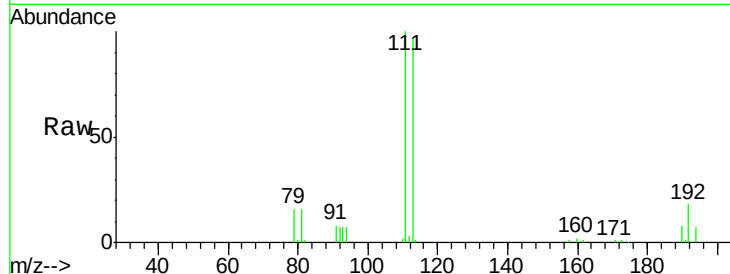




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.94 min Scan# 561  
 Delta R.T. 0.04 min  
 Lab File: VD061545.D  
 Acq: 3 Apr 2019 8:15

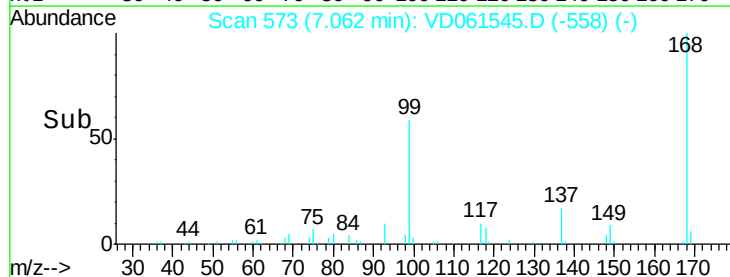
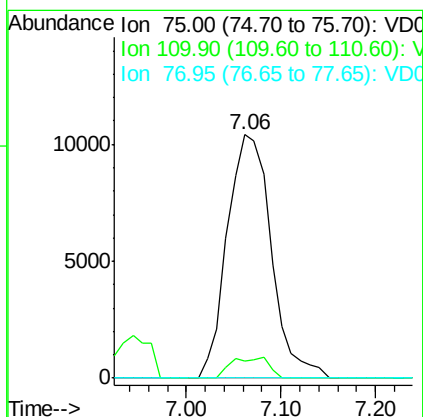
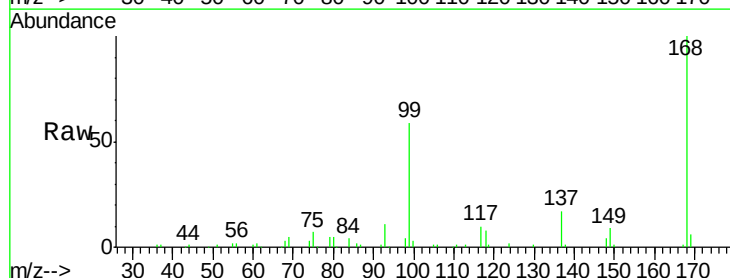
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DPC-91723-SO-TP5-A

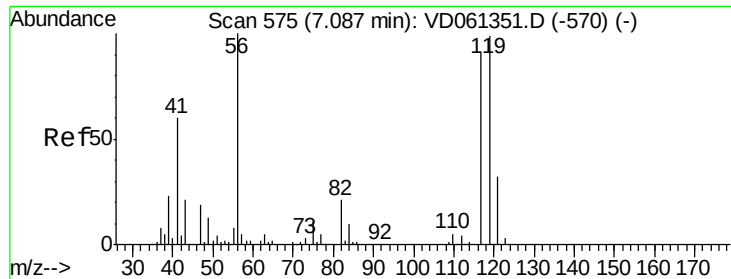
Tot Ion:113 Resp: 279302  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 81.0 121.6  
 192 18.0 14.4 21.6



#36  
 1,1-Dichloropropene  
 Concen: 4.994 ug/l  
 RT: 7.06 min Scan# 573  
 Delta R.T. -0.05 min  
 Lab File: VD061545.D  
 Acq: 3 Apr 2019 8:15

Tgt Ion: 75 Resp: 33517  
 Ion Ratio Lower Upper  
 75 100  
 110 7.0 20.4 61.3#  
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 5.677 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.03 min

Lab File: VD061545.D

Acq: 3 Apr 2019 8:15

Instrument :

MSVOA\_D

ClientSampleId :

DPC-91723-SO-TP5-A

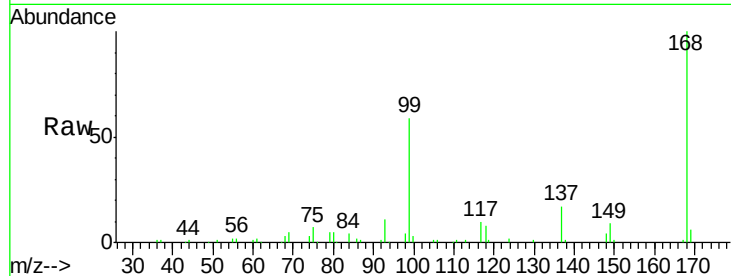
Tot Ion:117 Resp: 43778

Ion Ratio Lower Upper

117 100

119 7.1 80.1 120.1#

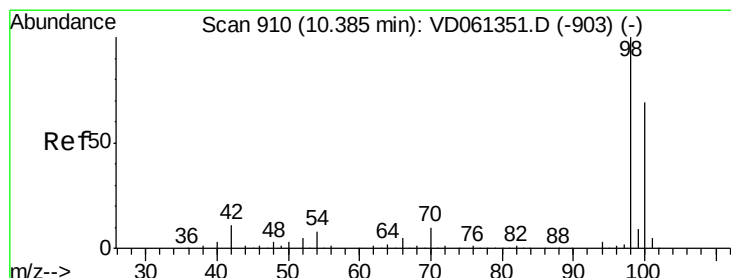
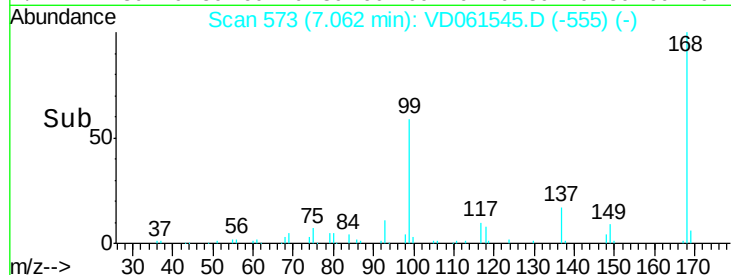
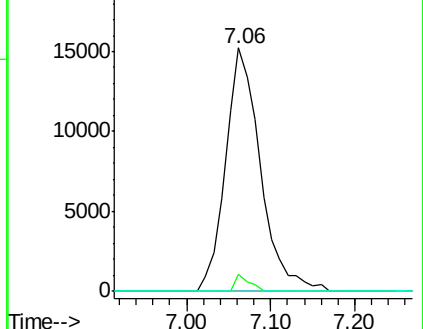
121 0.0 25.6 38.4#



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: 10.42 min Scan# 914

Delta R.T. 0.03 min

Lab File: VD061545.D

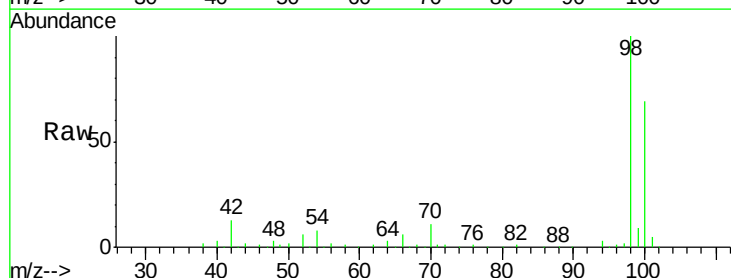
Acq: 3 Apr 2019 8:15

Tgt Ion: 98 Resp: 628623

Ion Ratio Lower Upper

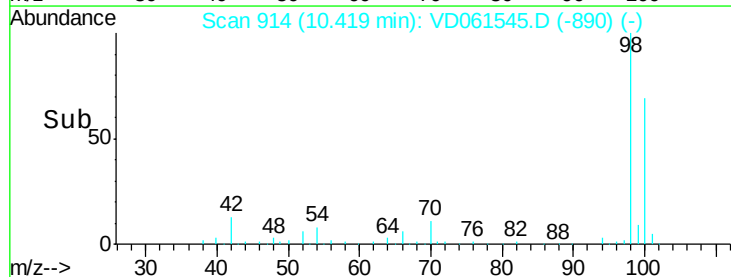
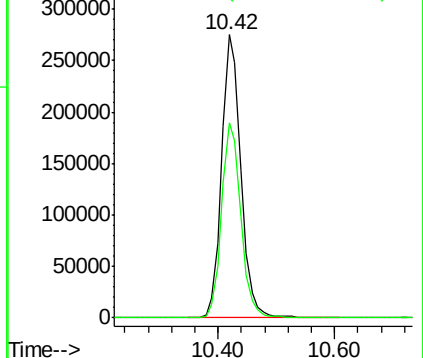
98 100

100 68.9 56.2 84.2

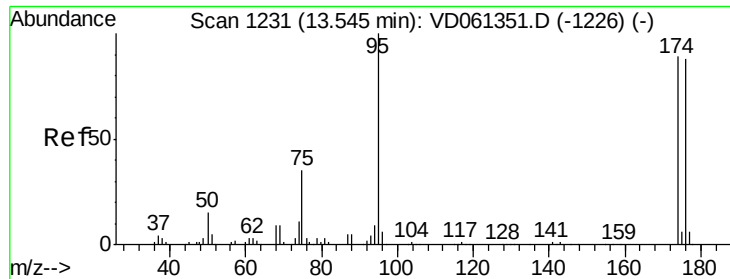


Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V



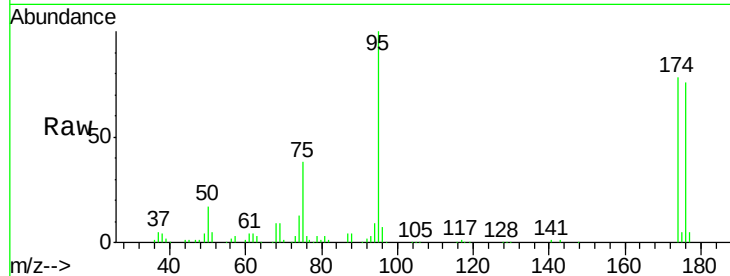




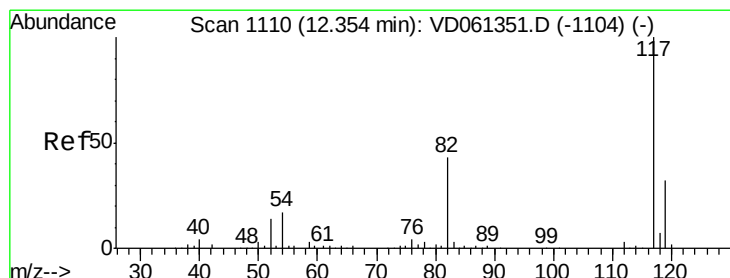
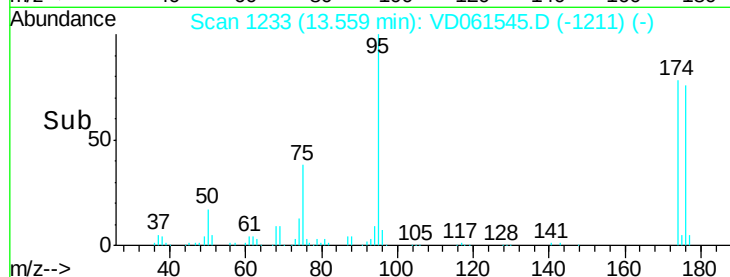
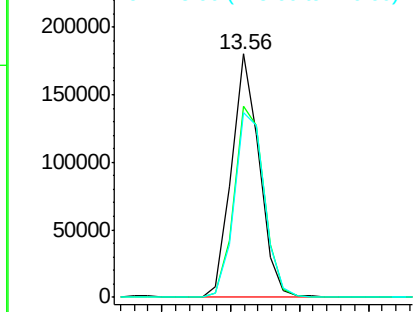
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 13.56 min Scan# 1233  
Delta R.T. 0.01 min  
Lab File: VD061545.D  
Acq: 3 Apr 2019 8:15

Instrument :  
MSVOA\_D  
ClientSampleId :  
DPC-91723-SO-TP5-A

Tot Ion: 95 Resp: 253904  
Ion Ratio Lower Upper  
95 100  
174 78.3 0.0 178.0  
176 76.0 0.0 175.0

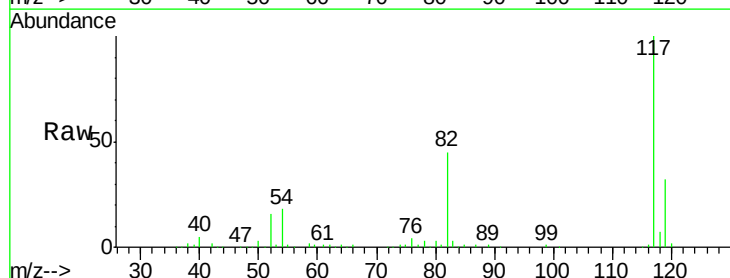


Abundance Ion 95.00 (94.70 to 95.70): V  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V

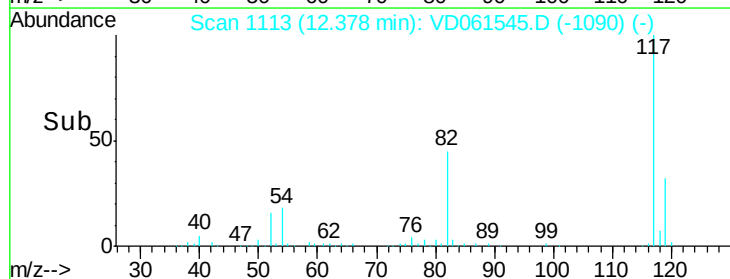
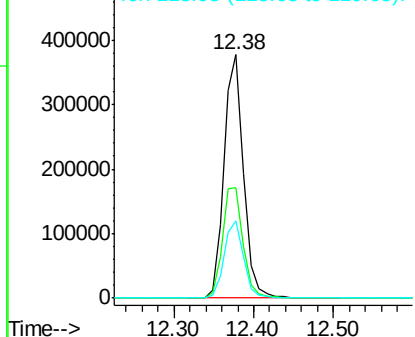


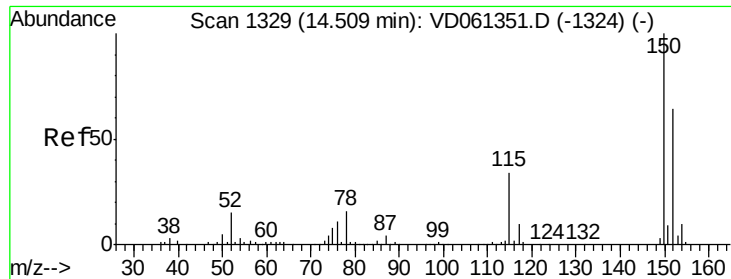
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.38 min Scan# 1113  
Delta R.T. 0.02 min  
Lab File: VD061545.D  
Acq: 3 Apr 2019 8:15

Tgt Ion: 117 Resp: 649151  
Ion Ratio Lower Upper  
117 100  
82 45.5 34.4 51.6  
119 31.9 25.8 38.6



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: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD061545.D

Acq: 3 Apr 2019 8:15

Instrument :

MSVOA\_D

ClientSampleId :

DPC-91723-SO-TP5-A

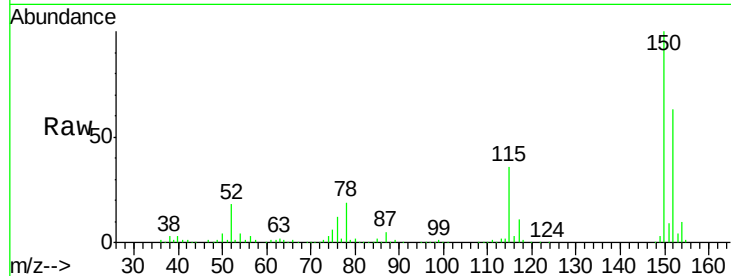
Tot Ion:152 Resp: 297592

Ion Ratio Lower Upper

152 100

115 56.6 26.9 80.6

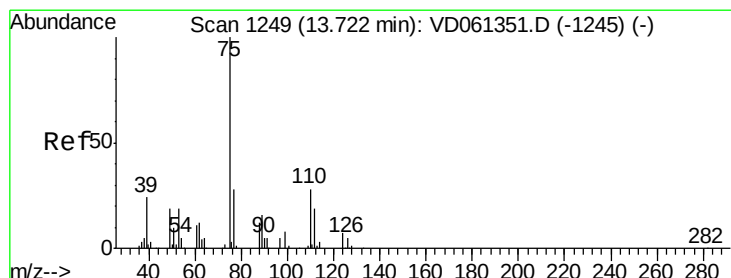
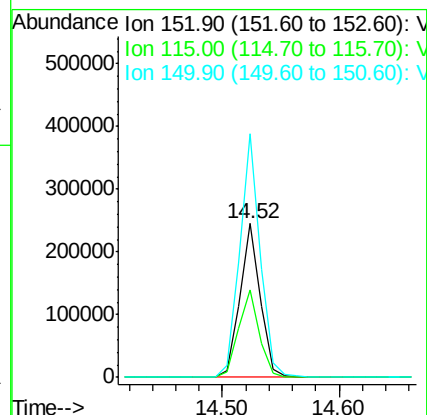
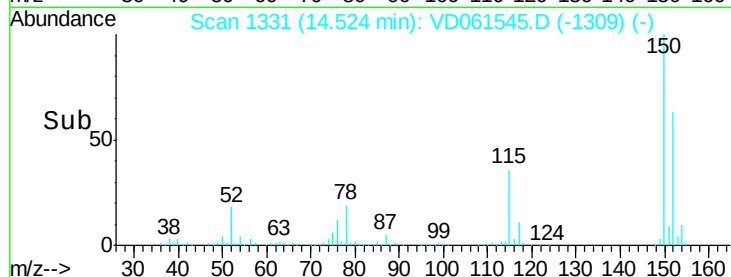
150 158.5 0.0 318.0



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: 21.967 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD061545.D

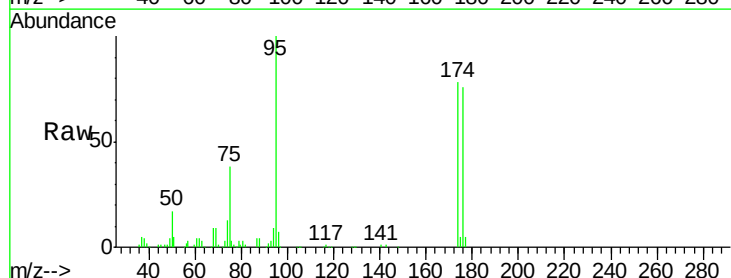
Acq: 3 Apr 2019 8:15

Tgt Ion: 75 Resp: 94433

Ion Ratio Lower Upper

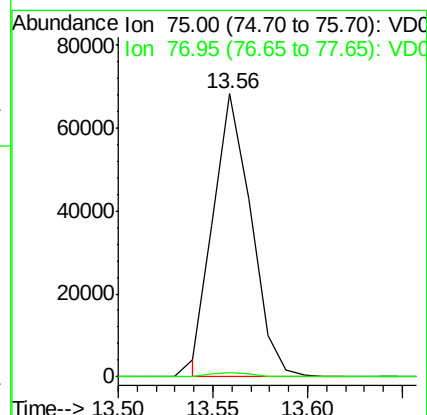
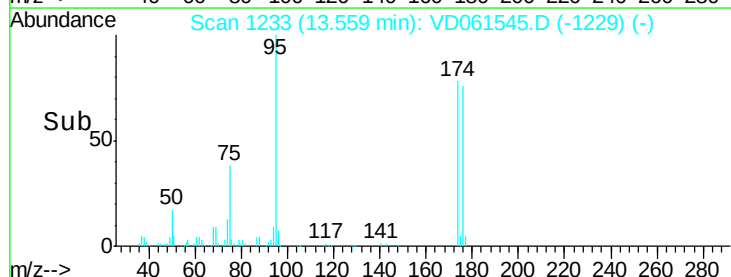
75 100

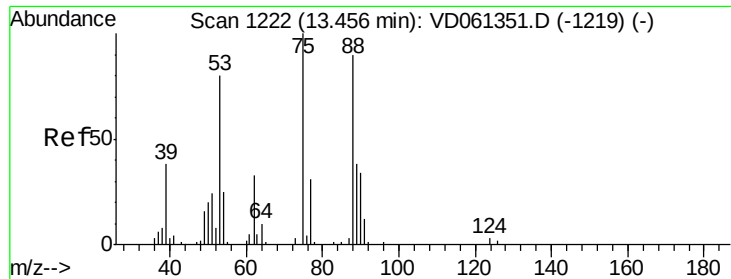
77 1.4 16.2 48.5#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 73.960 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.10 min

Lab File: VD061545.D

Acq: 3 Apr 2019 8:15

Instrument :

MSVOA\_D

ClientSampleId :

DPC-91723-SO-TP5-A

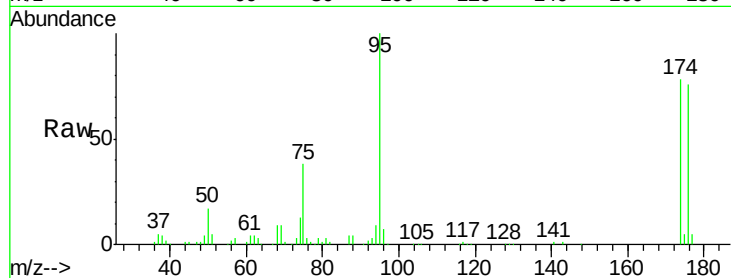
Tot Ion: 75 Resp: 96940

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC  
Ion 53.00 (52.70 to 53.70): VDC  
Ion 89.00 (88.70 to 89.70): VDC

