

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD032719\  
 Data File : VD061378.D  
 Acq On : 28 Mar 2019 5:01  
 Operator : VA/AP  
 Sample : K2097-06  
 Misc : 5.76g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CS-6

Quant Time: Mar 28 06:55:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D032719S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 28 02:13:53 2019  
 Response via : Initial Calibration

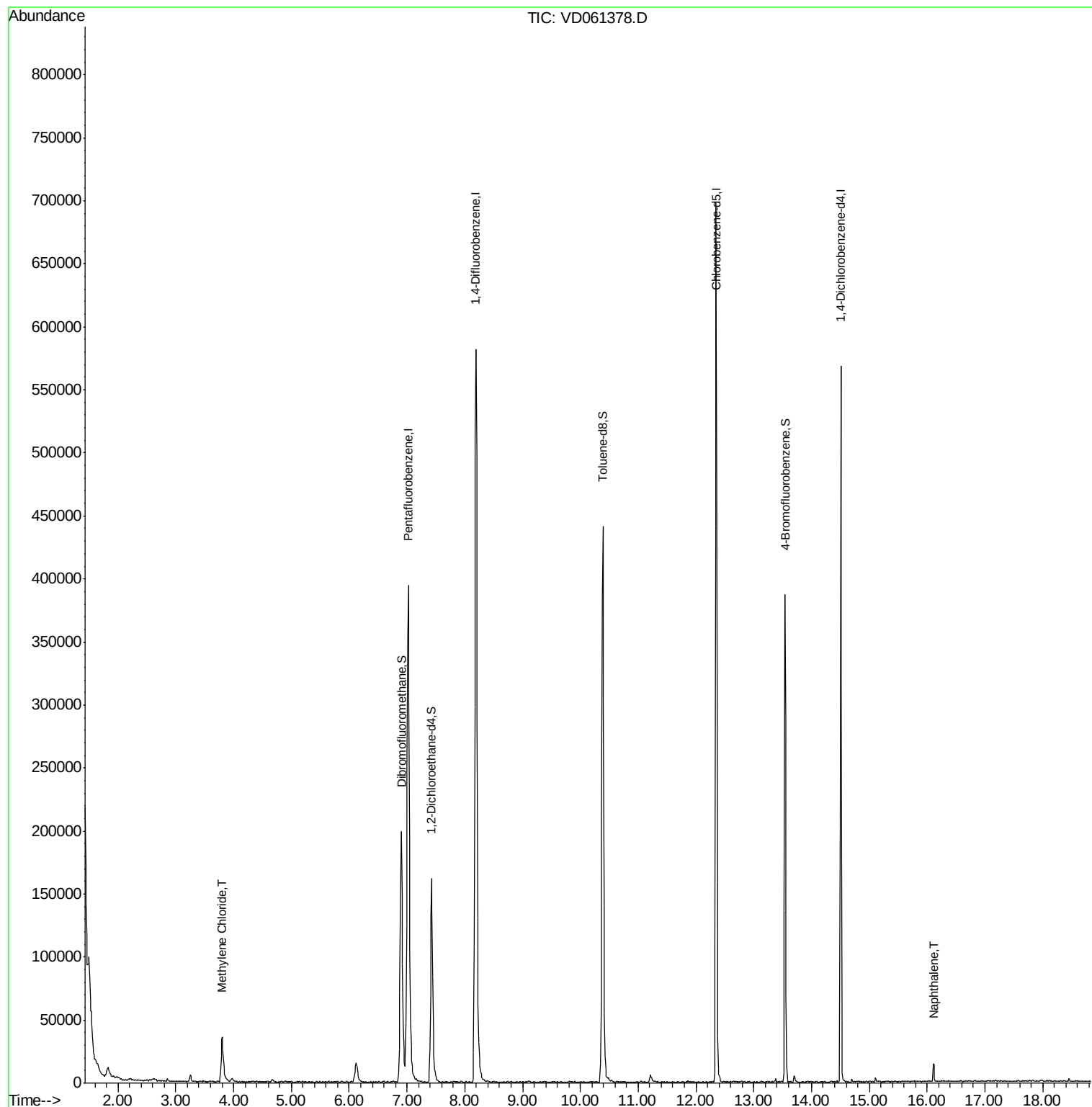
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 7.02  | 168  | 412422   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.19  | 114  | 746046   | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 12.35 | 117  | 438977   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 14.50 | 152  | 123219   | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 7.43  | 65   | 154880   | 43.96 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 87.92% |          |
| 35) Dibromofluoromethane    | 6.90  | 113  | 200785   | 35.22 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 70.44% |          |
| 50) Toluene-d8              | 10.39 | 98   | 383629   | 28.06 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 56.12% |          |
| 62) 4-Bromofluorobenzene    | 13.54 | 95   | 119344   | 22.76 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 45.52% |          |
| Target Compounds            |       |      |          |       |        |          |
| 20) Methylene Chloride      | 3.80  | 84   | 27880    | 3.718 | ug/l   | 88       |
| 95) Naphthalene             | 16.12 | 128  | 11982    | 4.887 | ug/l   | 96       |

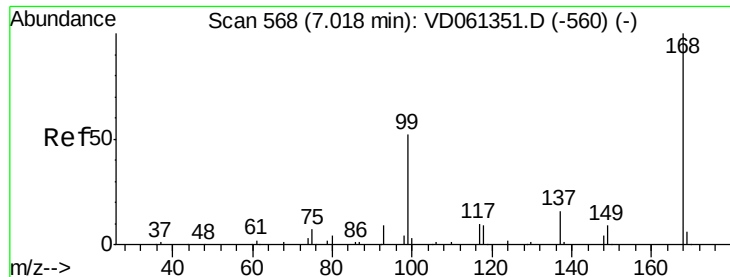
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Mar 28 02:13:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 569

Delta R.T. 0.00 min

Lab File: VD061378.D

Acq: 28 Mar 2019 5:01

Instrument :

MSVOA\_D

ClientSampleId :

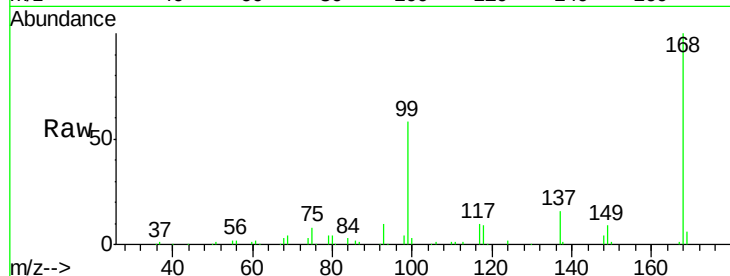
CS-6

Tgt Ion:168 Resp: 412422

Ion Ratio Lower Upper

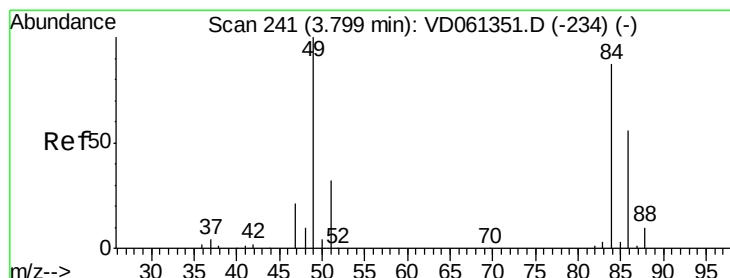
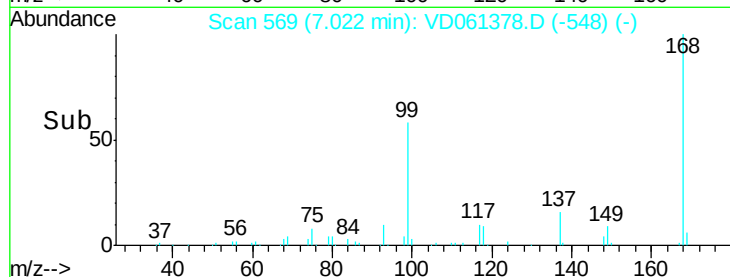
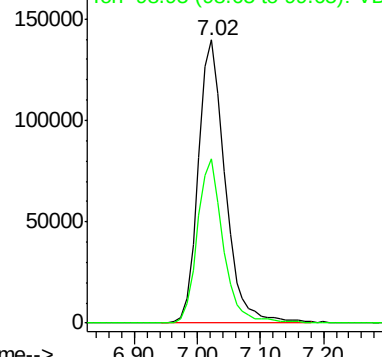
168 100

99 58.1 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#20

Methylene Chloride

Concen: 3.718 ug/l

RT: 3.80 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD061378.D

Acq: 28 Mar 2019 5:01

Tgt Ion: 84 Resp: 27880

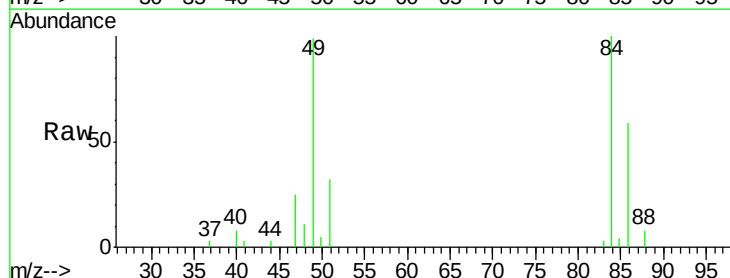
Ion Ratio Lower Upper

84 100

49 98.9 91.8 137.8

51 31.5 29.8 44.8

86 58.5 51.8 77.6

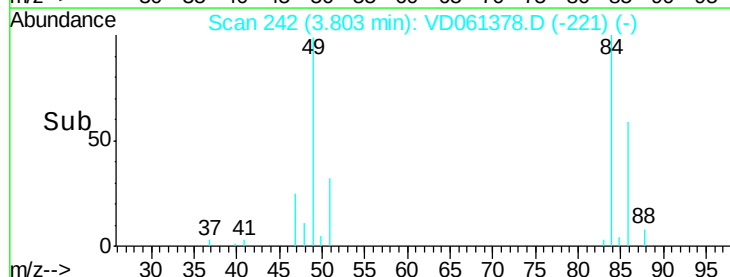
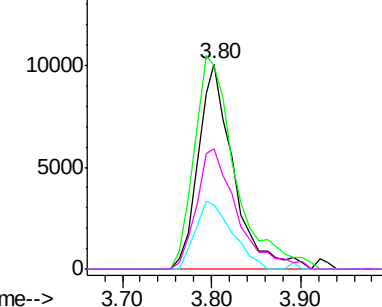


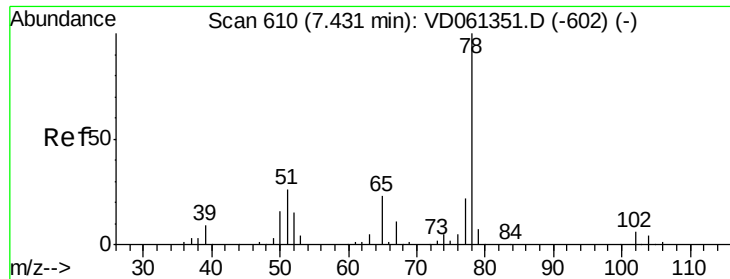
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.01 min

Lab File: VD061378.D

Acq: 28 Mar 2019 5:01

Instrument :

MSVOA\_D

ClientSampleId :

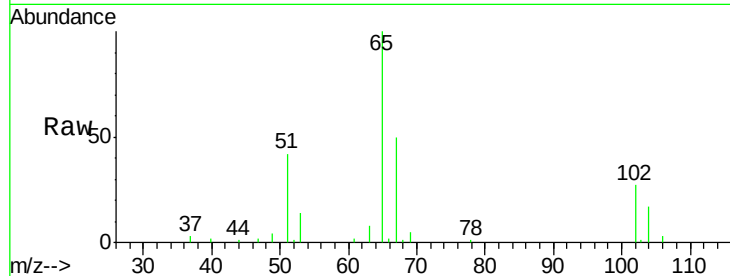
CS-6

Tgt Ion: 65 Resp: 154880

Ion Ratio Lower Upper

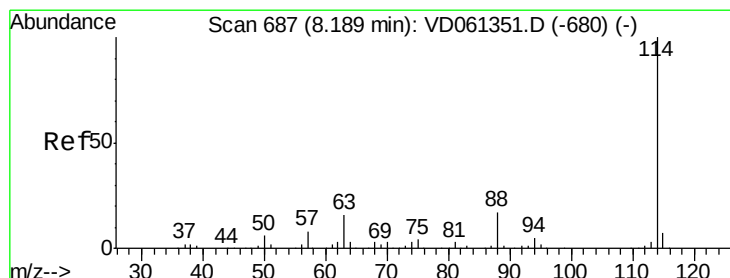
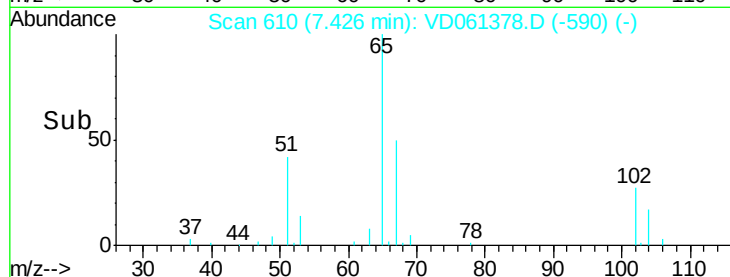
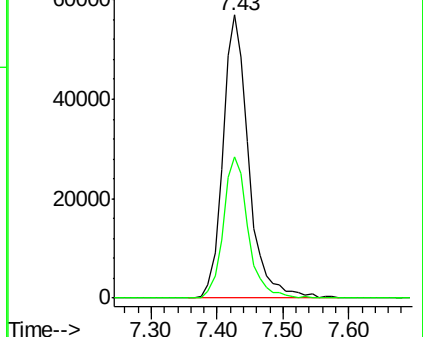
65 100

67 49.7 0.0 99.8



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: 8.19 min Scan# 688

Delta R.T. 0.00 min

Lab File: VD061378.D

Acq: 28 Mar 2019 5:01

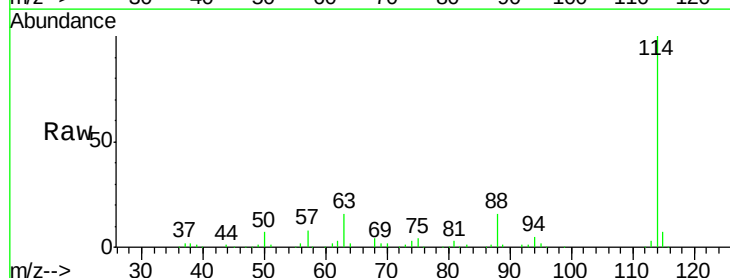
Tgt Ion: 114 Resp: 746046

Ion Ratio Lower Upper

114 100

63 16.0 0.0 31.6

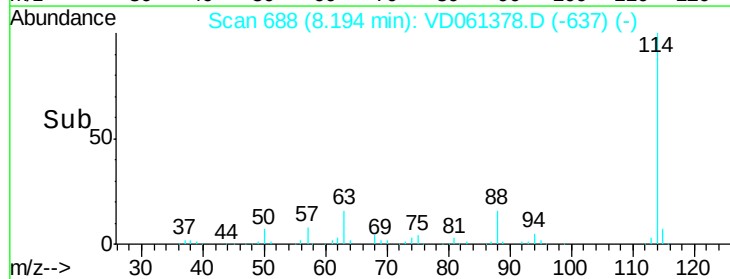
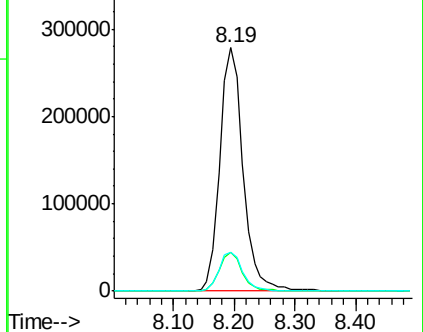
88 16.2 0.0 33.4

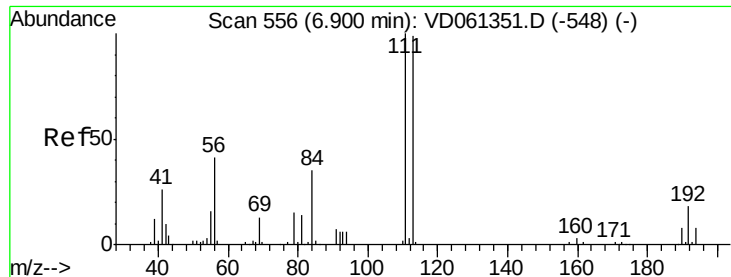


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.90 min Scan# 557

Delta R.T. 0.00 min

Lab File: VD061378.D

Acq: 28 Mar 2019 5:01

Instrument :

MSVOA\_D

ClientSampleId :

CS-6

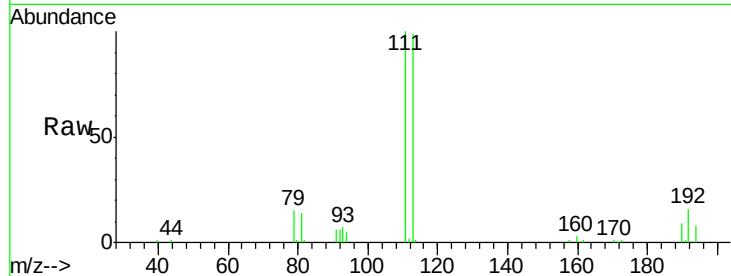
Tgt Ion:113 Resp: 200785

Ion Ratio Lower Upper

113 100

111 101.1 81.0 121.6

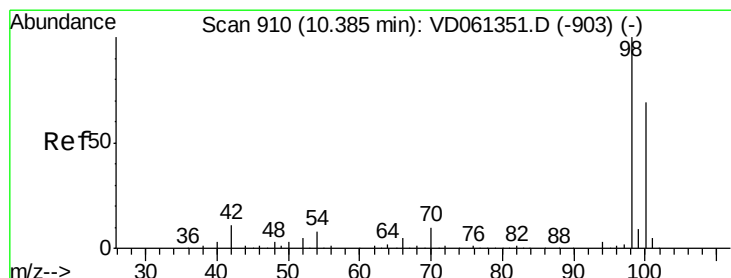
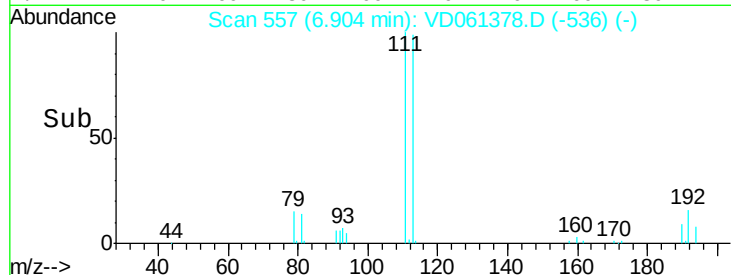
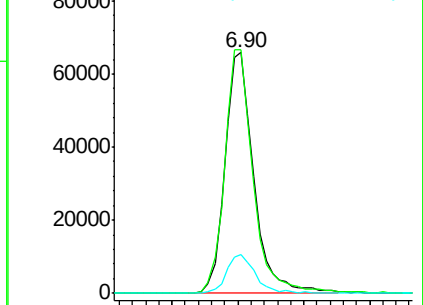
192 16.1 14.4 21.6



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



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.39 min Scan# 911

Delta R.T. 0.00 min

Lab File: VD061378.D

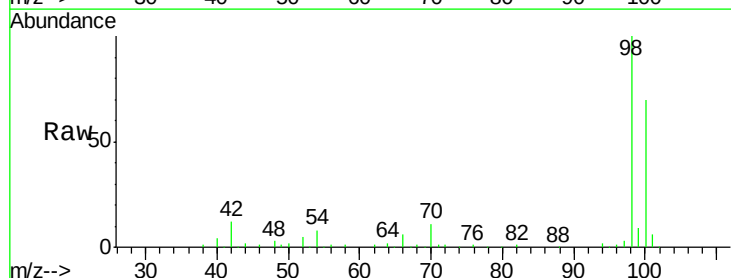
Acq: 28 Mar 2019 5:01

Tgt Ion: 98 Resp: 383629

Ion Ratio Lower Upper

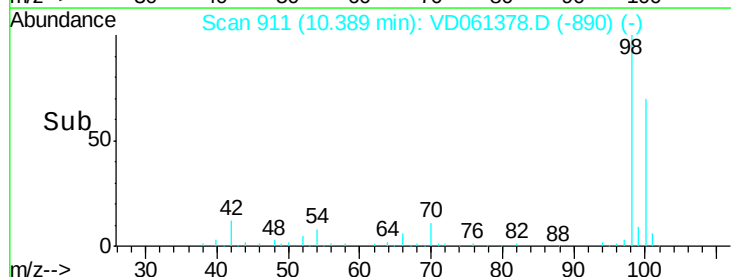
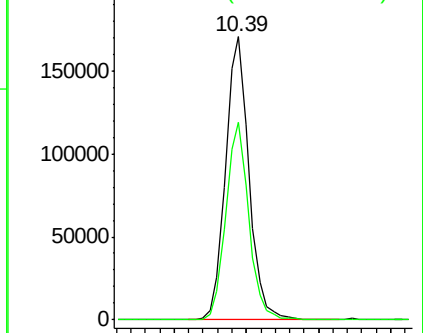
98 100

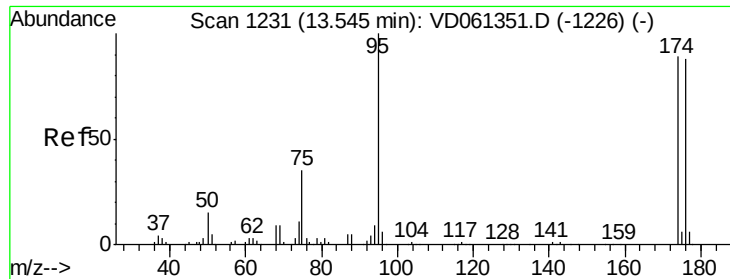
100 70.0 56.2 84.2



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

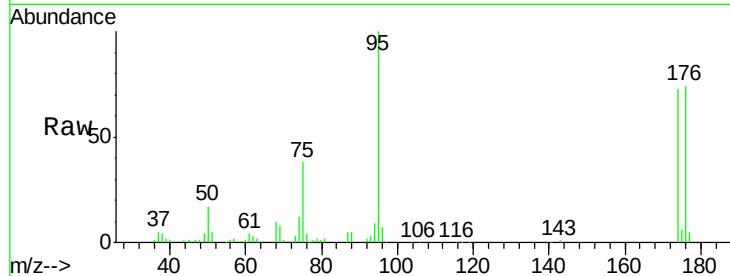




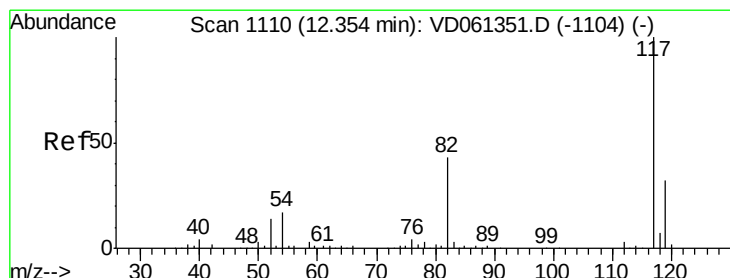
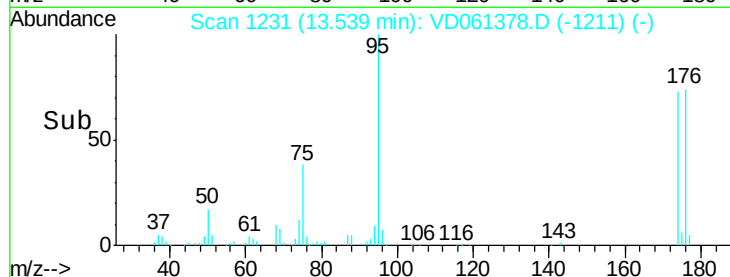
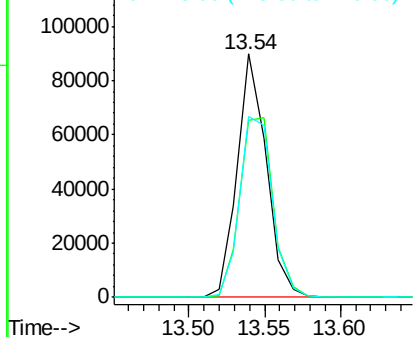
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 13.54 min Scan# 1231  
Delta R.T. -0.01 min  
Lab File: VD061378.D  
Acq: 28 Mar 2019 5:01

Instrument :  
MSVOA\_D  
ClientSampleId :  
CS-6

Tgt Ion: 95 Resp: 119344  
Ion Ratio Lower Upper  
95 100  
174 72.8 0.0 178.0  
176 74.1 0.0 175.0

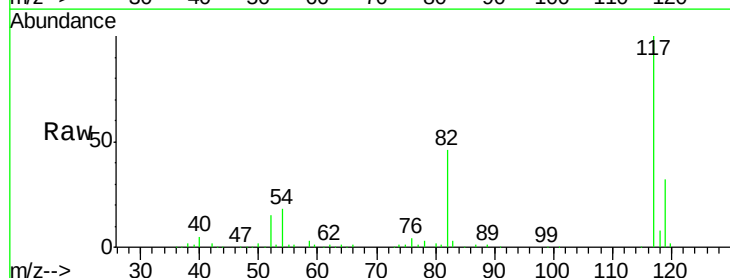


Abundance Ion 95.00 (94.70 to 95.70): V  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V

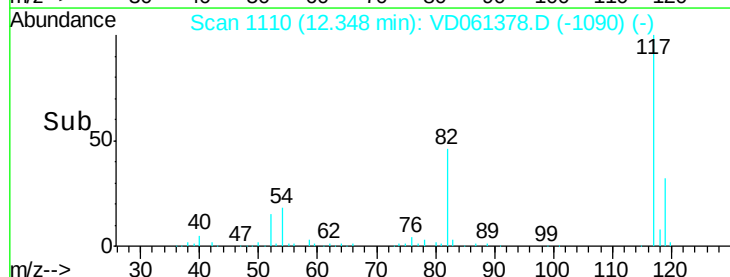
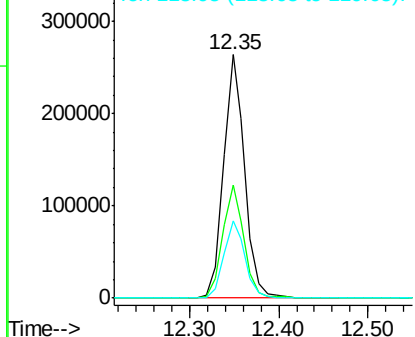


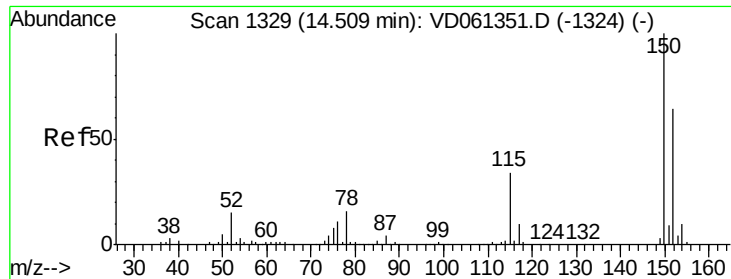
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.35 min Scan# 1110  
Delta R.T. -0.01 min  
Lab File: VD061378.D  
Acq: 28 Mar 2019 5:01

Tgt Ion: 117 Resp: 438977  
Ion Ratio Lower Upper  
117 100  
82 46.4 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: 14.50 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VD061378.D

Acq: 28 Mar 2019 5:01

Instrument :

MSVOA\_D

ClientSampleId :

CS-6

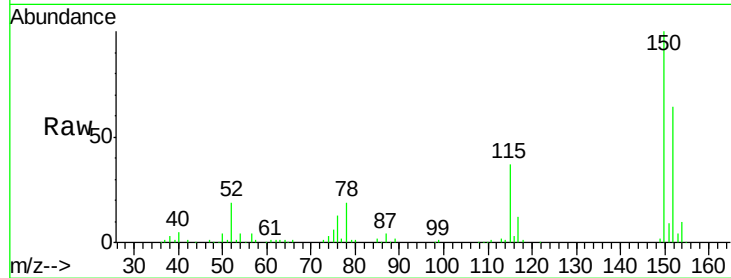
Tgt Ion:152 Resp: 123219

Ion Ratio Lower Upper

152 100

115 57.3 26.9 80.6

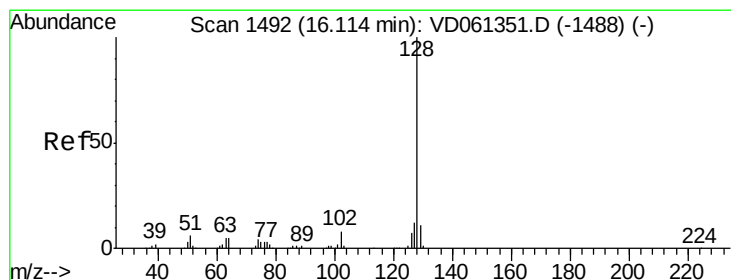
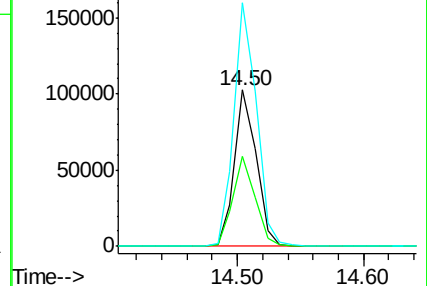
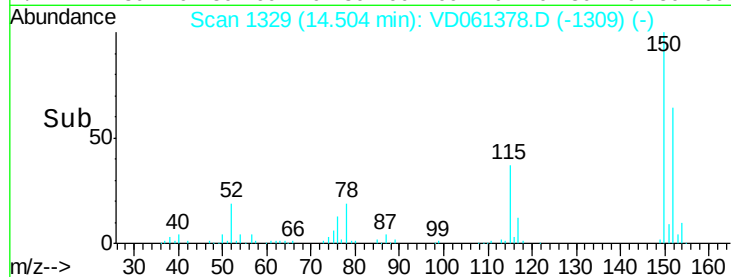
150 155.8 0.0 318.0



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



#95

Naphthalene

Concen: 4.887 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD061378.D

Acq: 28 Mar 2019 5:01

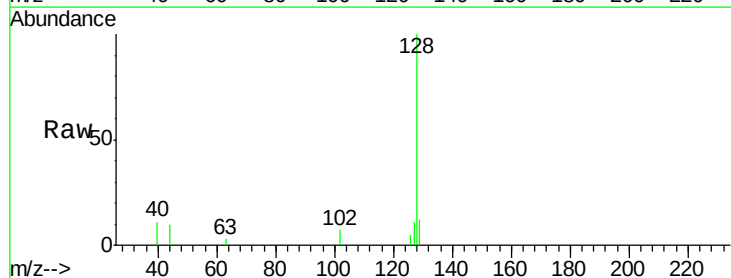
Tgt Ion:128 Resp: 11982

Ion Ratio Lower Upper

128 100

127 10.5 9.9 14.9

129 12.0 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

