

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX053119\  
 Data File : VX009993.D  
 Acq On : 31 May 2019 18:20  
 Operator : JC/SP  
 Sample : K3131-13  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z1-TB05-190530

Quant Time: Jun 01 05:33:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 29 04:00:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 183882   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 296748   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 260763   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 108985   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65  | 127622   | 49.13 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.26% |      |
| 35) Dibromofluoromethane    | 5.50   | 113 | 92941    | 49.82 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.64% |      |
| 50) Toluene-d8              | 8.71   | 98  | 374811   | 49.47 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.94% |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 123411   | 45.35 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 90.70% |      |

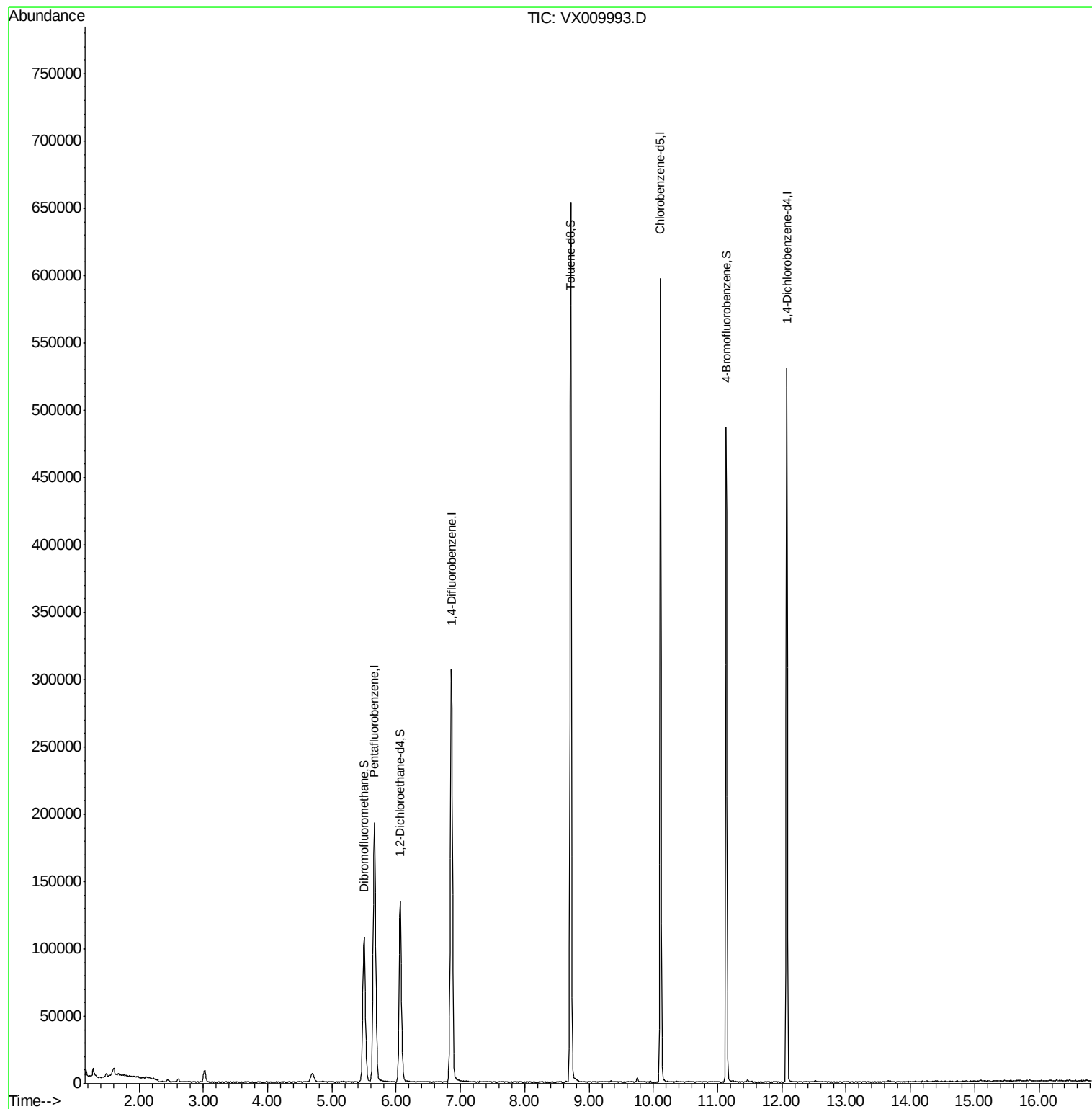
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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Quant Title : SW846 8260  
QLast Update : Wed May 29 04:00:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009993.D

Acq: 31 May 2019 18:20

Instrument :

MSVOA\_X

ClientSampleId :

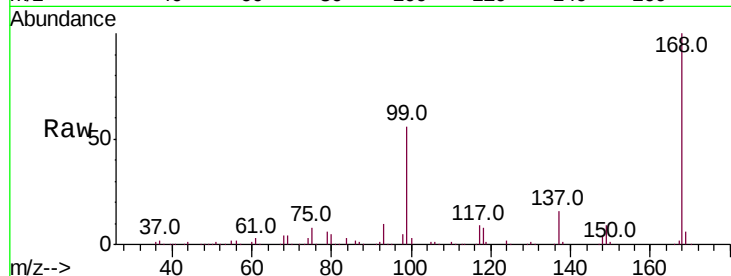
Z1-TB05-190530

Tot Ion:168 Resp: 183882

Ion Ratio Lower Upper

168 100

99 55.5 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): VX009993.D (-727) (-)

Ion 98.90 (98.60 to 99.60): VX009993.D (-727) (-)

5.67

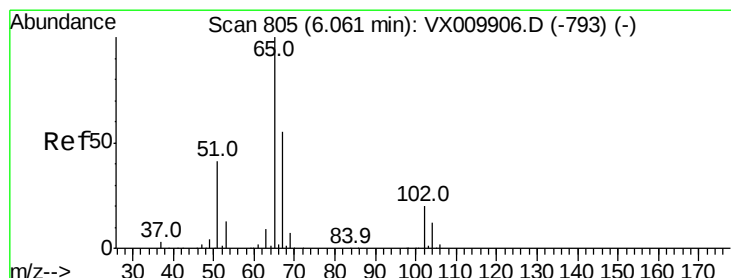
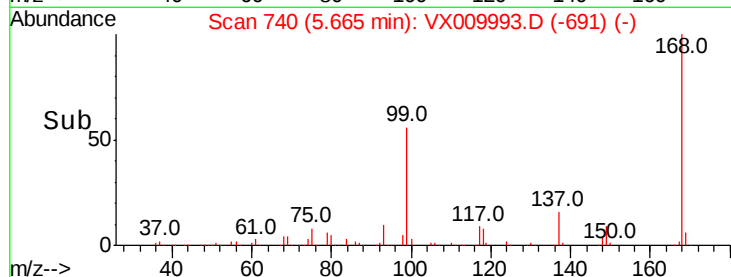
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 49.133 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009993.D

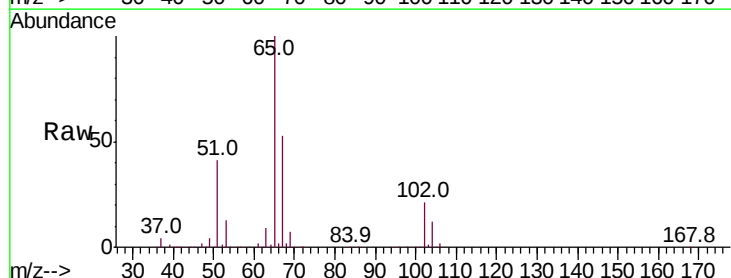
Acq: 31 May 2019 18:20

Tgt Ion: 65 Resp: 127622

Ion Ratio Lower Upper

65 100

67 53.8 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX009993.D (-793) (-)

Ion 66.90 (66.60 to 67.60): VX009993.D (-793) (-)

6.06

50000

40000

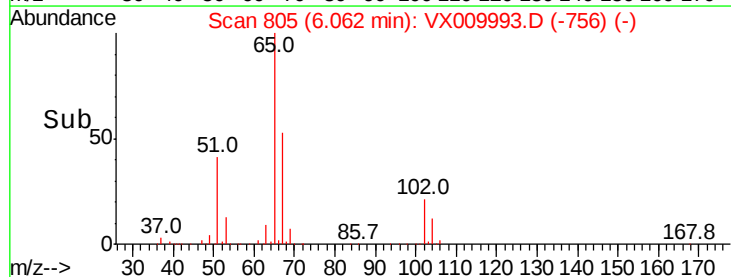
30000

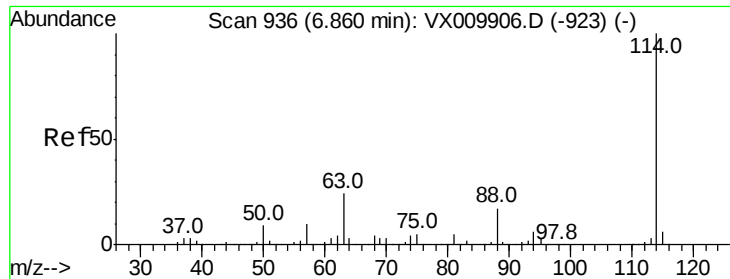
20000

10000

0

Time--> 5.90 6.00 6.10 6.20

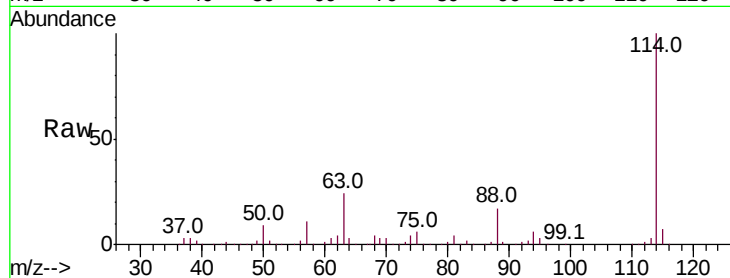




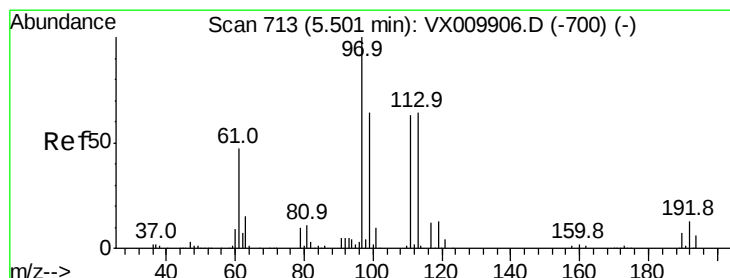
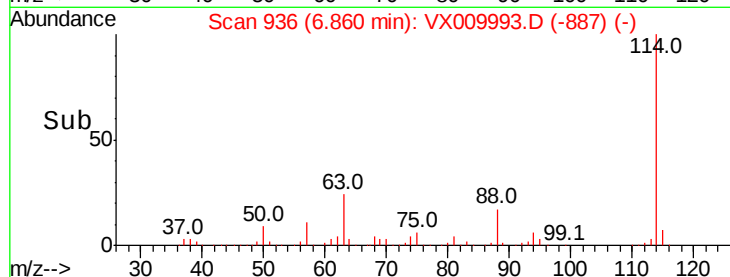
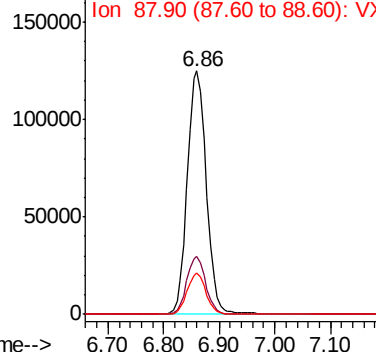
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX009993.D  
 Acq: 31 May 2019 18:20

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z1-TB05-190530

Tot Ion:114 Resp: 296748  
 Ion Ratio Lower Upper  
 114 100  
 63 24.0 0.0 47.4  
 88 16.8 0.0 33.0

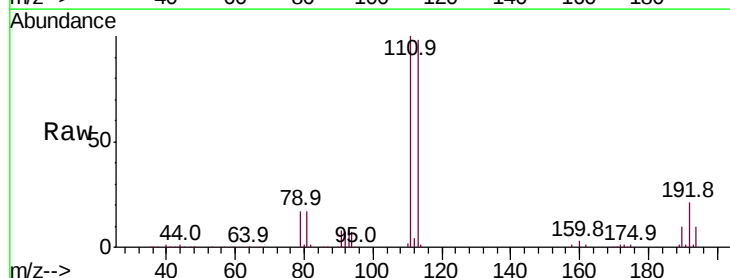


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

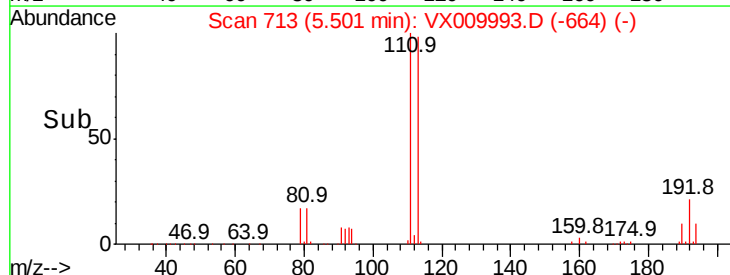
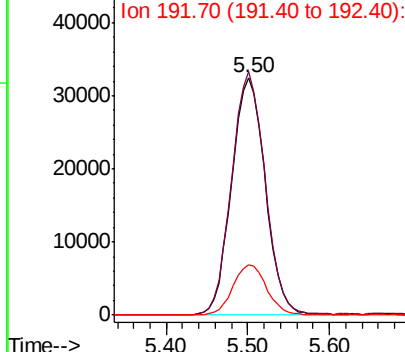


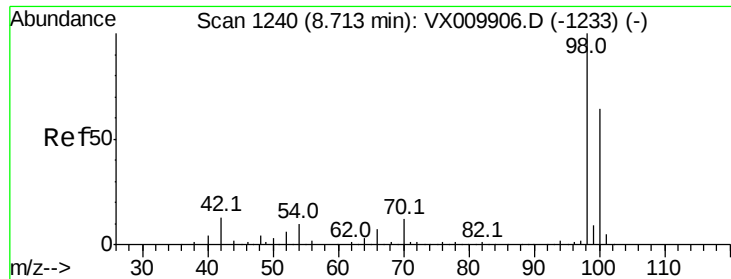
#35  
 Dibromofluoromethane  
 Concen: 49.817 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VX009993.D  
 Acq: 31 May 2019 18:20

Tgt Ion:113 Resp: 92941  
 Ion Ratio Lower Upper  
 113 100  
 111 102.0 82.2 123.2  
 192 21.2 17.1 25.7



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





#50

Toluene-d8

Concen: 49.473 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009993.D

Acq: 31 May 2019 18:20

Instrument :

MSVOA\_X

ClientSampleId :

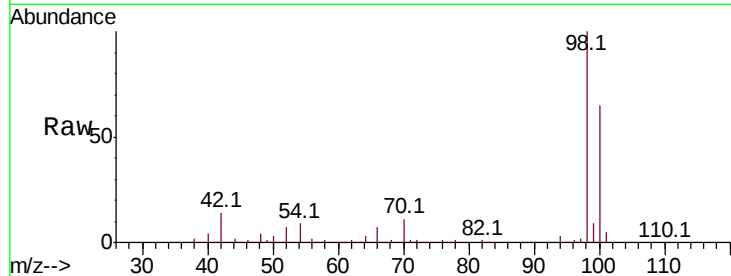
Z1-TB05-190530

Tot Ion: 98 Resp: 374811

Ion Ratio Lower Upper

98 100

100 64.7 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

100000

50000

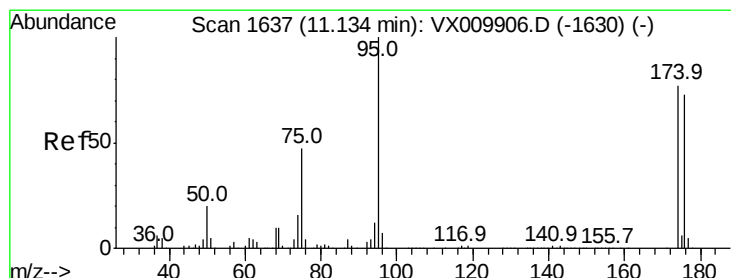
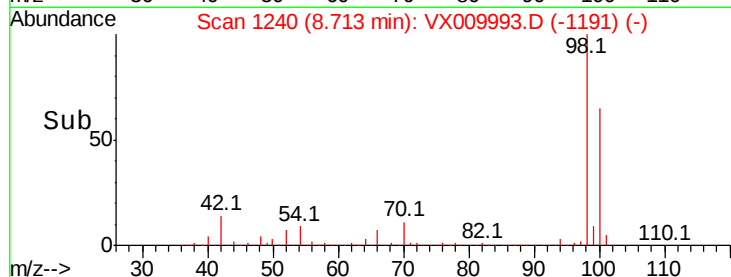
0

8.60

8.70

8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 45.352 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009993.D

Acq: 31 May 2019 18:20

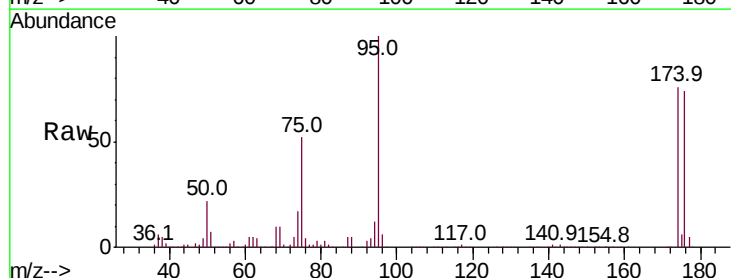
Tgt Ion: 95 Resp: 123411

Ion Ratio Lower Upper

95 100

174 80.1 0.0 160.4

176 78.8 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

100000

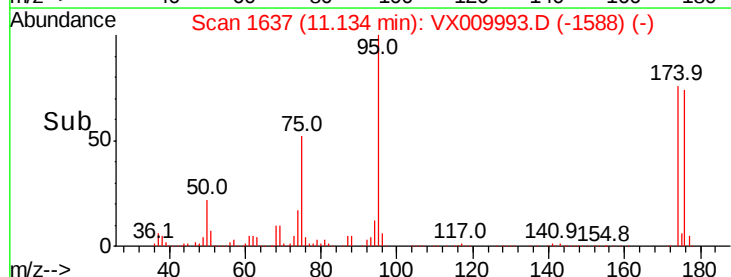
50000

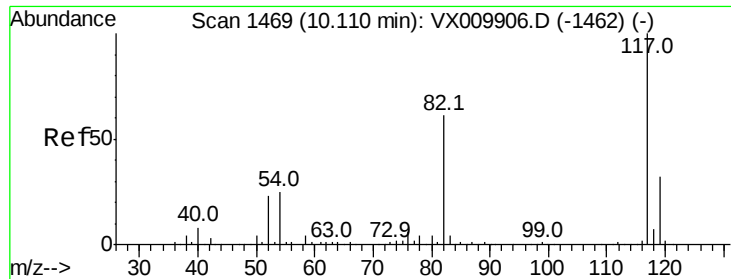
0

11.10

11.20

Time-->

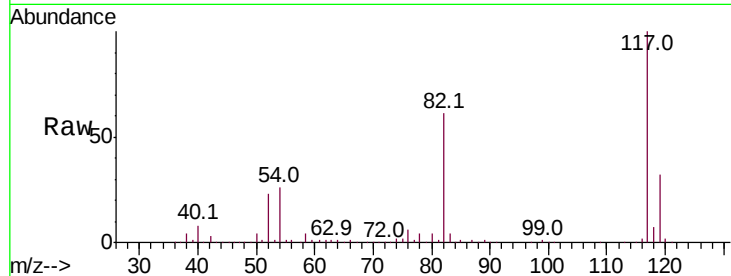




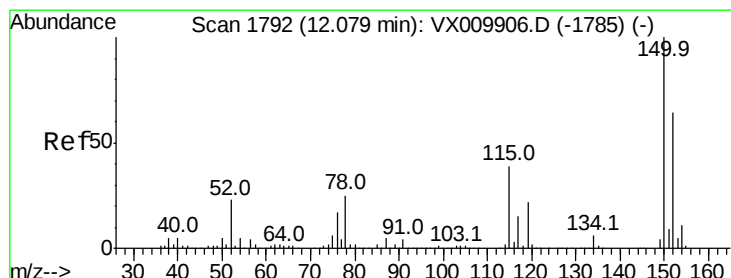
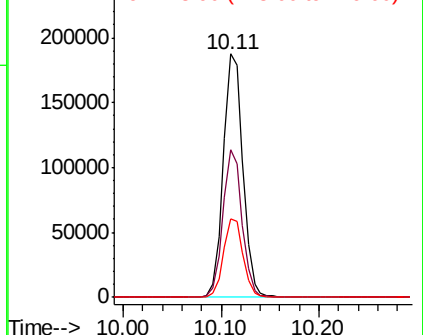
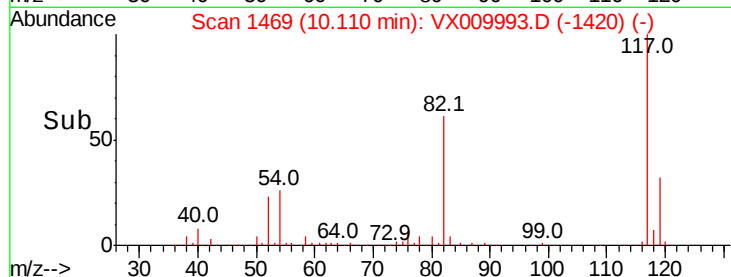
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX009993.D  
Acq: 31 May 2019 18:20

Instrument :  
MSVOA\_X  
ClientSampleId :  
Z1-TB05-190530

Tot Ion:117 Resp: 260763  
Ion Ratio Lower Upper  
117 100  
82 60.7 49.2 73.8  
119 32.2 25.2 37.8

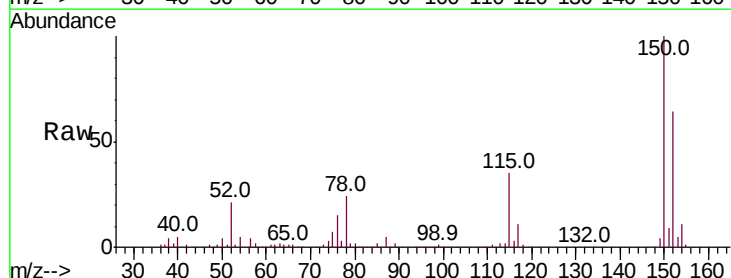


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX009993.D  
Acq: 31 May 2019 18:20

Tgt Ion:152 Resp: 108985  
Ion Ratio Lower Upper  
152 100  
115 58.4 41.4 124.2  
150 157.9 0.0 345.2



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

