

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090519\  
 Data File : VX012132.D  
 Acq On : 06 Sep 2019 07:03  
 Operator : SY/SP  
 Sample : K4580-07  
 Misc : 3.06g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T12-B4-(0)

Quant Time: Sep 06 07:43:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 03 15:26:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 137480   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 241958   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 174859   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 47843    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 95652    | 50.42  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 100.84% |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 71706    | 48.19  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.38%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 267159   | 48.93  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 97.86%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 80139    | 31.56  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 63.12%  |          |

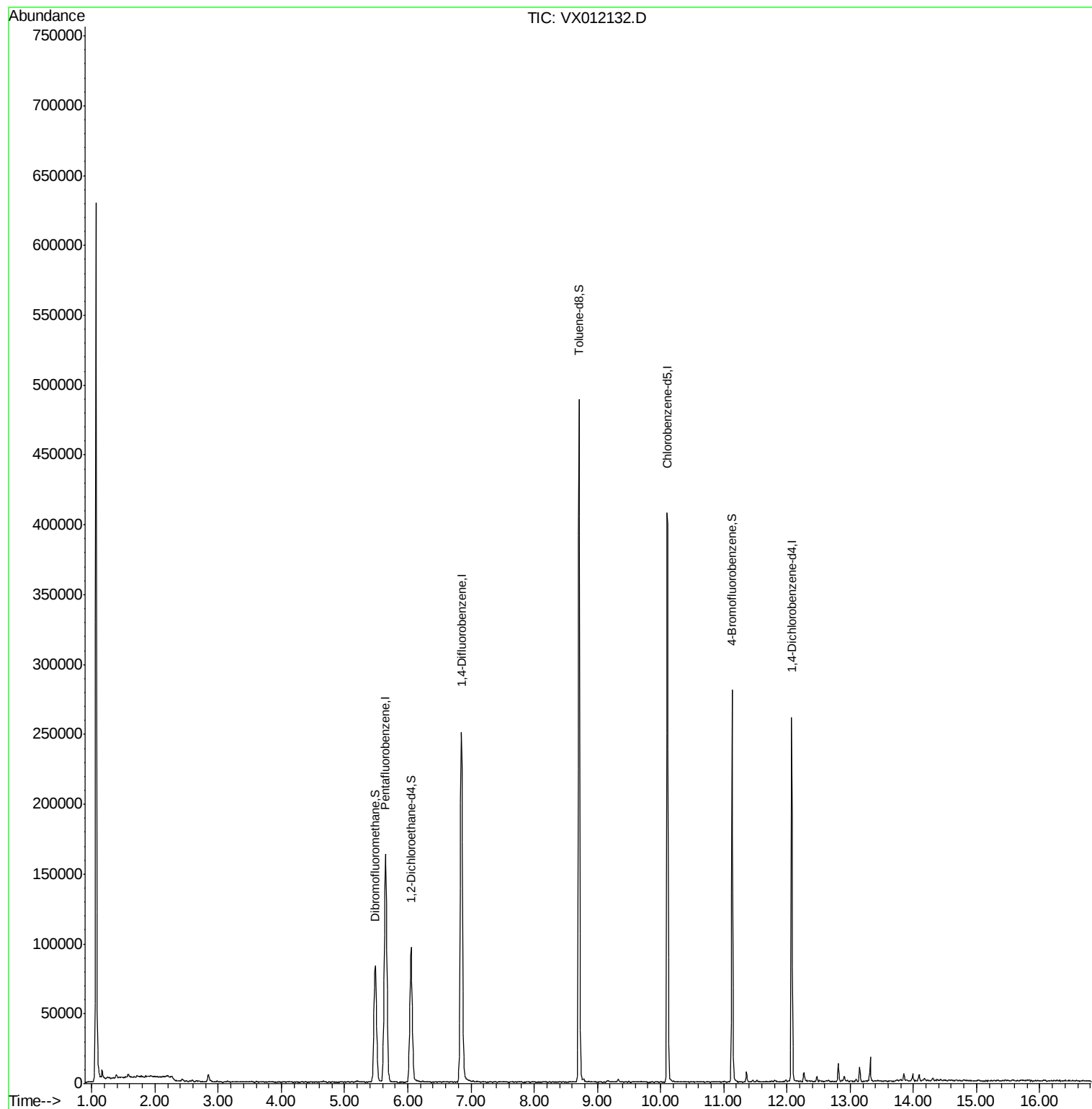
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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Quant Title : SW846 8260  
QLast Update : Tue Sep 03 15:26:48 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012132.D

Acq: 06 Sep 2019 07:03

Instrument :

MSVOA\_X

ClientSampleId :

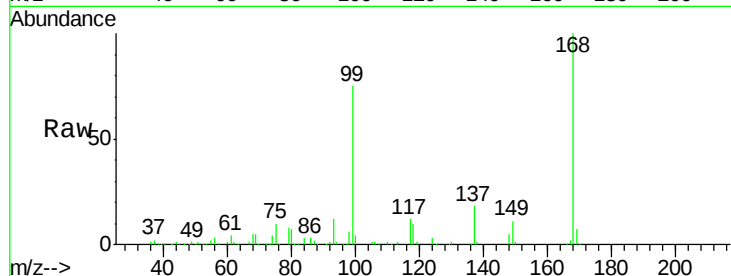
T12-B4-(0)

Tot Ion:168 Resp: 137480

Ion Ratio Lower Upper

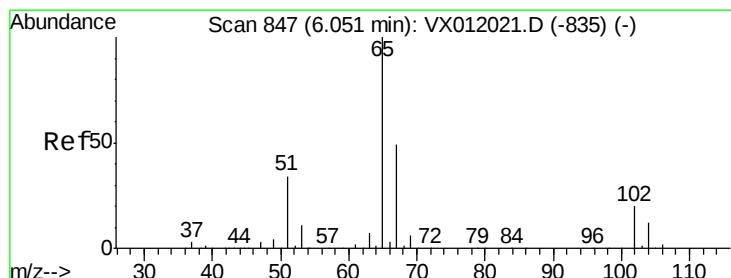
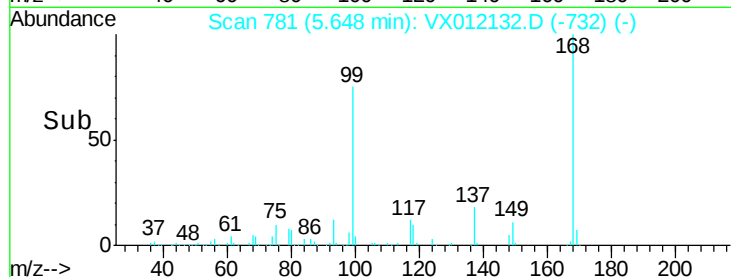
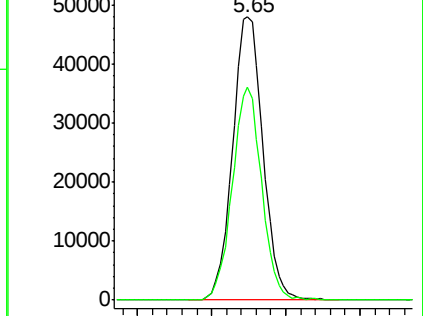
168 100

99 75.2 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.424 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012132.D

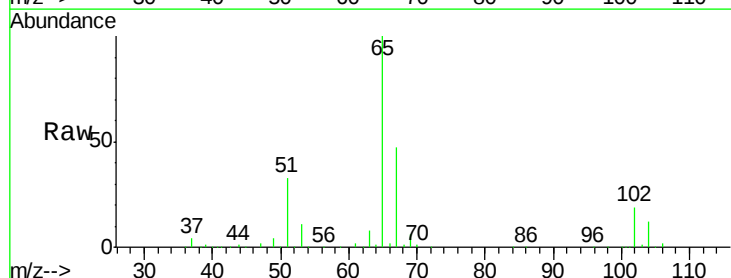
Acq: 06 Sep 2019 07:03

Tgt Ion: 65 Resp: 95652

Ion Ratio Lower Upper

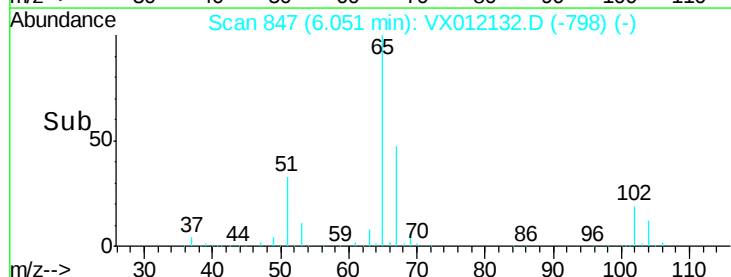
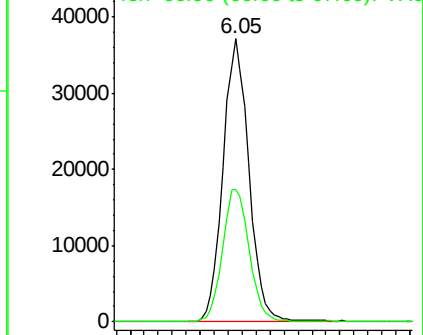
65 100

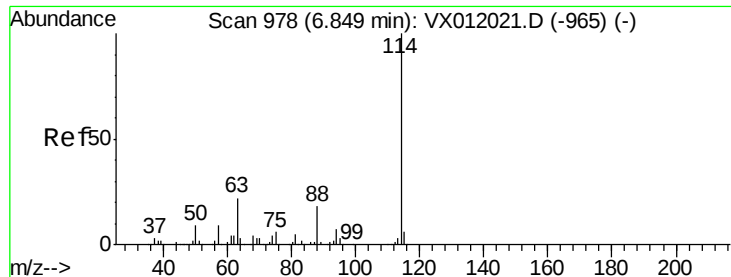
67 48.4 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012132.D

Acq: 06 Sep 2019 07:03

Instrument :

MSVOA\_X

ClientSampleId :

T12-B4-(0)

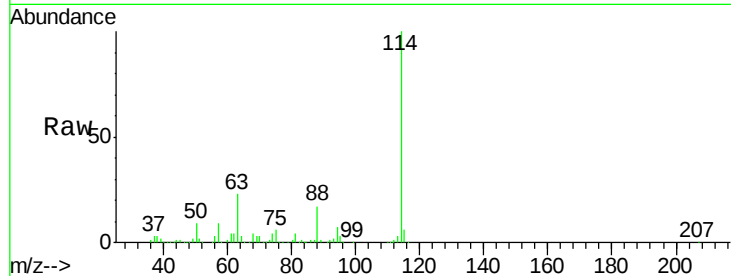
Tot Ion:114 Resp: 241958

Ion Ratio Lower Upper

114 100

63 22.6 0.0 37.4

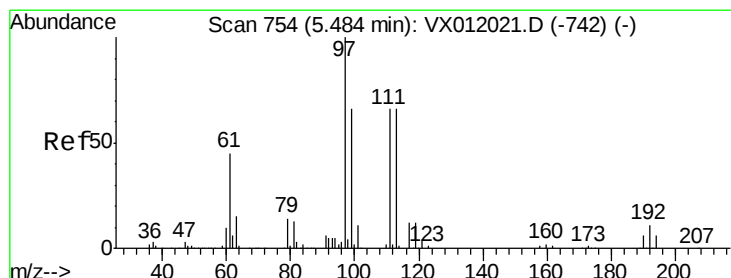
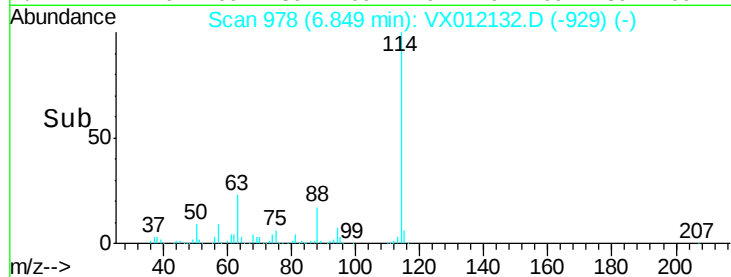
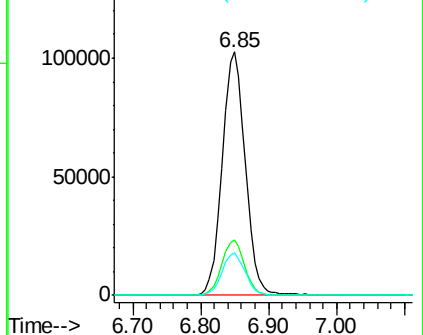
88 17.5 0.0 29.6



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: 48.190 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012132.D

Acq: 06 Sep 2019 07:03

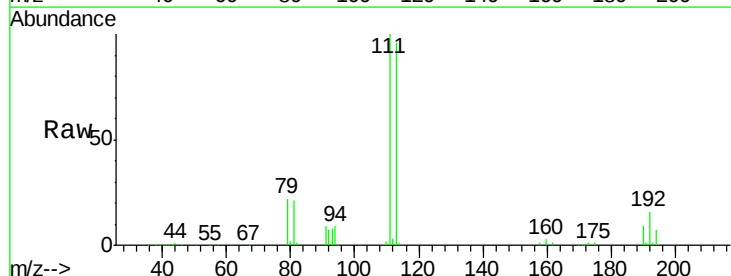
Tgt Ion:113 Resp: 71706

Ion Ratio Lower Upper

113 100

111 102.8 81.7 122.5

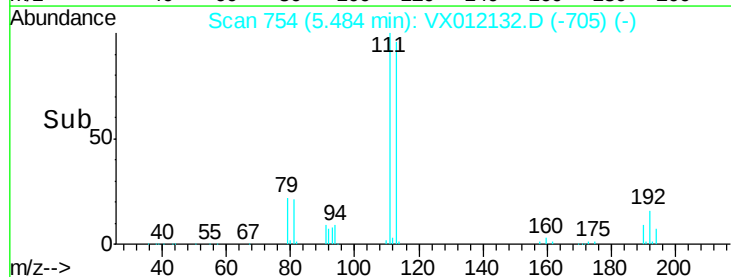
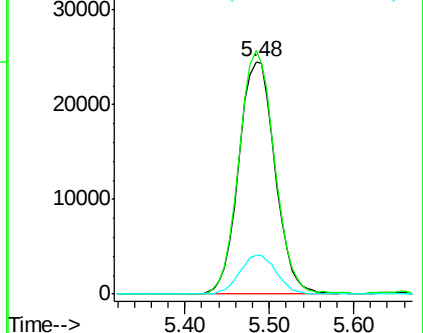
192 16.9 22.5 33.7#

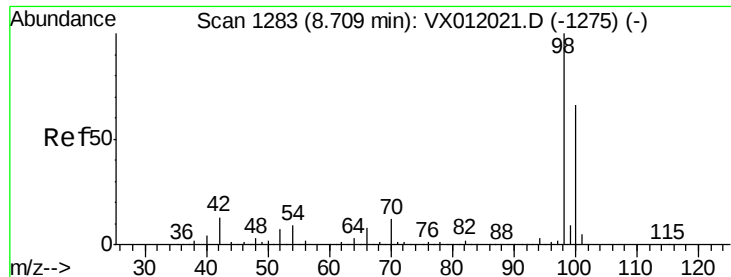


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

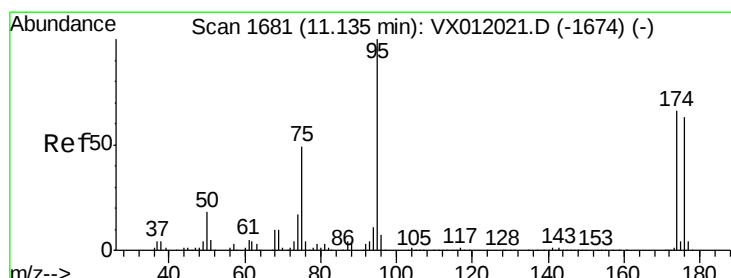
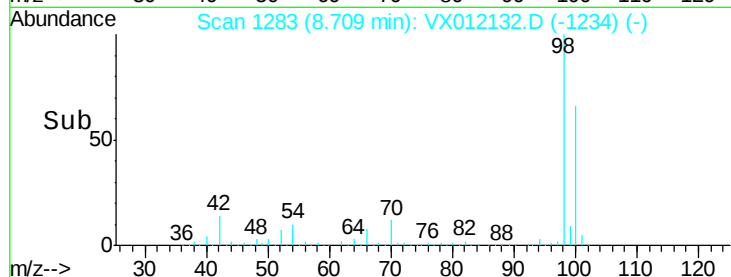
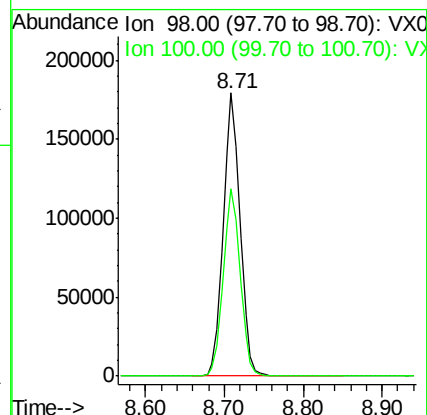
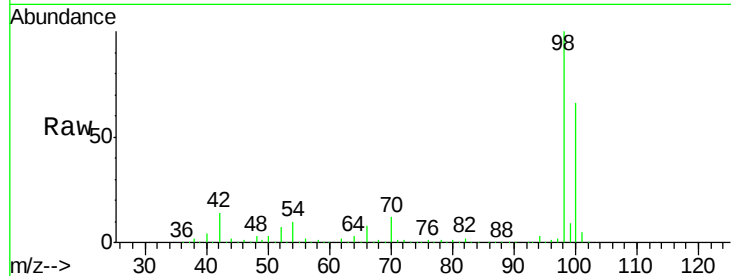




#50  
Toluene-d8  
Concen: 48.929 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. -0.00 min  
Lab File: VX012132.D  
Acq: 06 Sep 2019 07:03

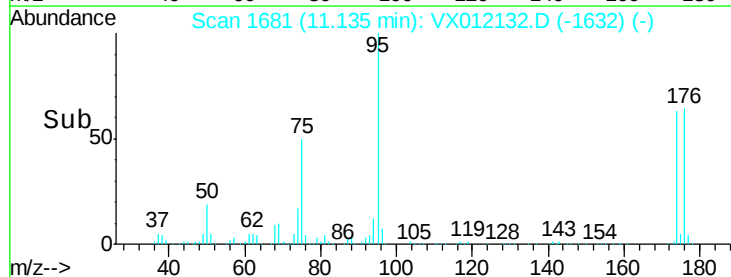
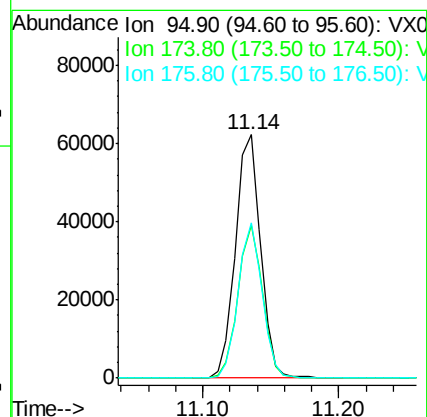
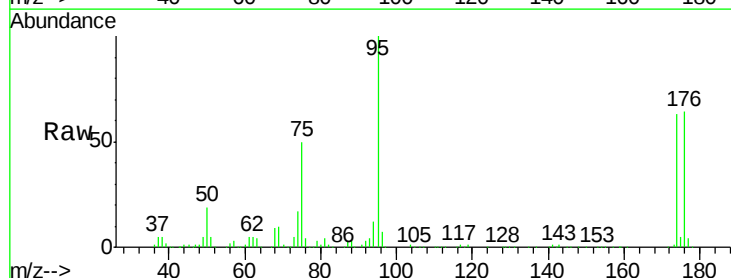
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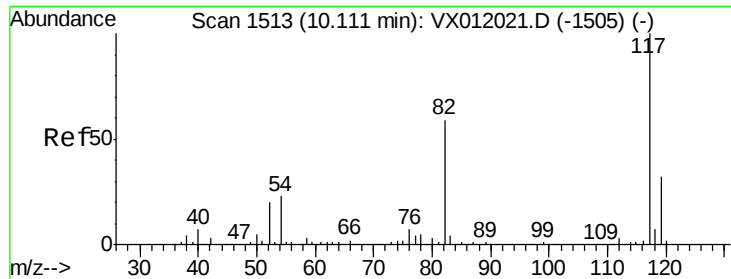
Tot Ion: 98 Resp: 267159  
Ion Ratio Lower Upper  
98 100  
100 66.6 53.3 79.9



#62  
4-Bromofluorobenzene  
Concen: 31.559 ug/l  
RT: 11.14 min Scan# 1681  
Delta R.T. -0.00 min  
Lab File: VX012132.D  
Acq: 06 Sep 2019 07:03

Tgt Ion: 95 Resp: 80139  
Ion Ratio Lower Upper  
95 100  
174 61.7 0.0 205.4  
176 61.0 0.0 201.8

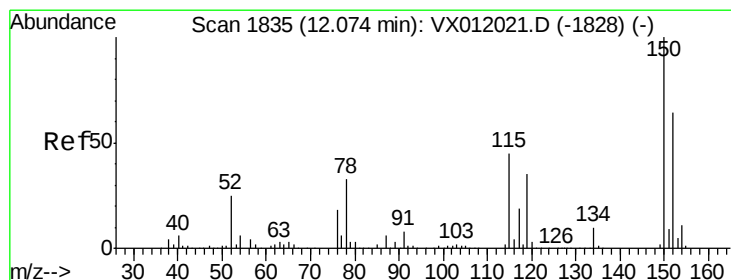
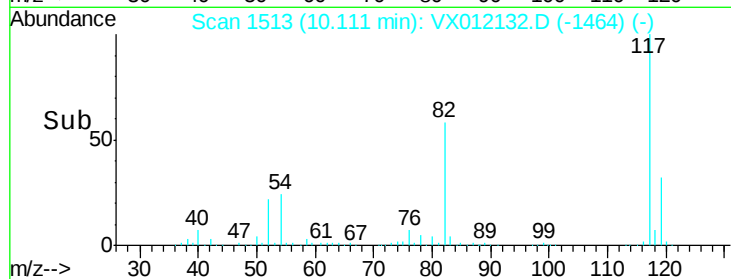
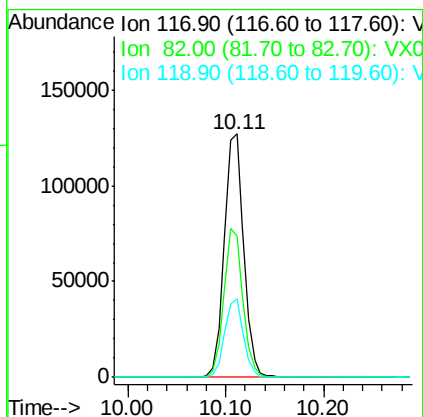
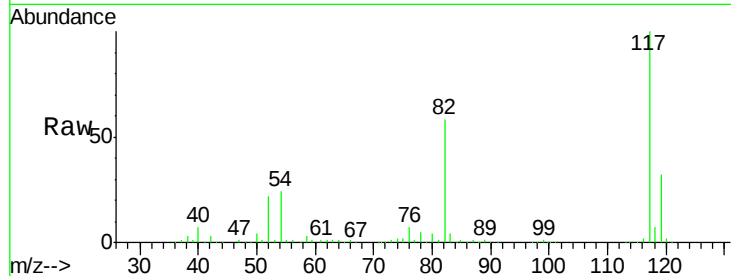




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX012132.D  
Acq: 06 Sep 2019 07:03

Instrument :  
MSVOA\_X  
ClientSampleId :  
T12-B4-(0)

Tot Ion:117 Resp: 174859  
Ion Ratio Lower Upper  
117 100  
82 58.0 39.4 59.0  
119 32.0 26.1 39.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX012132.D  
Acq: 06 Sep 2019 07:03

Tgt Ion:152 Resp: 47843  
Ion Ratio Lower Upper  
152 100  
115 64.4 36.4 109.3  
150 157.0 0.0 341.2

