

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080218\  
 Data File : VX003827.D  
 Acq On : 02 Aug 2018 16:04  
 Operator : JC/MD  
 Sample : J4279-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WE13-GW-TANK1-IDW-072918

Quant Time: Aug 03 10:30:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jul 27 16:17:43 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.02  | 128  | 21800    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.87  | 114  | 109657   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.12 | 117  | 102770   | 30.00 | ug/l  | 0.00     |

| System Monitoring Compounds |                |    |          |       |        |      |
|-----------------------------|----------------|----|----------|-------|--------|------|
| 27) 1,2-Dichloroethane-d4   | 6.07           | 65 | 46716    | 29.19 | ug/l   | 0.00 |
| Spiked Amount 30.000        | Range 50 - 169 |    | Recovery | =     | 97.30% |      |
| 60) 4-Bromofluorobenzene    | 11.14          | 95 | 43376    | 26.21 | ug/l   | 0.00 |
| Spiked Amount 30.000        | Range 56 - 143 |    | Recovery | =     | 87.37% |      |
| 63) Toluene-d8              | 8.72           | 98 | 133251   | 28.78 | ug/l   | 0.00 |
| Spiked Amount 30.000        | Range 66 - 137 |    | Recovery | =     | 95.93% |      |

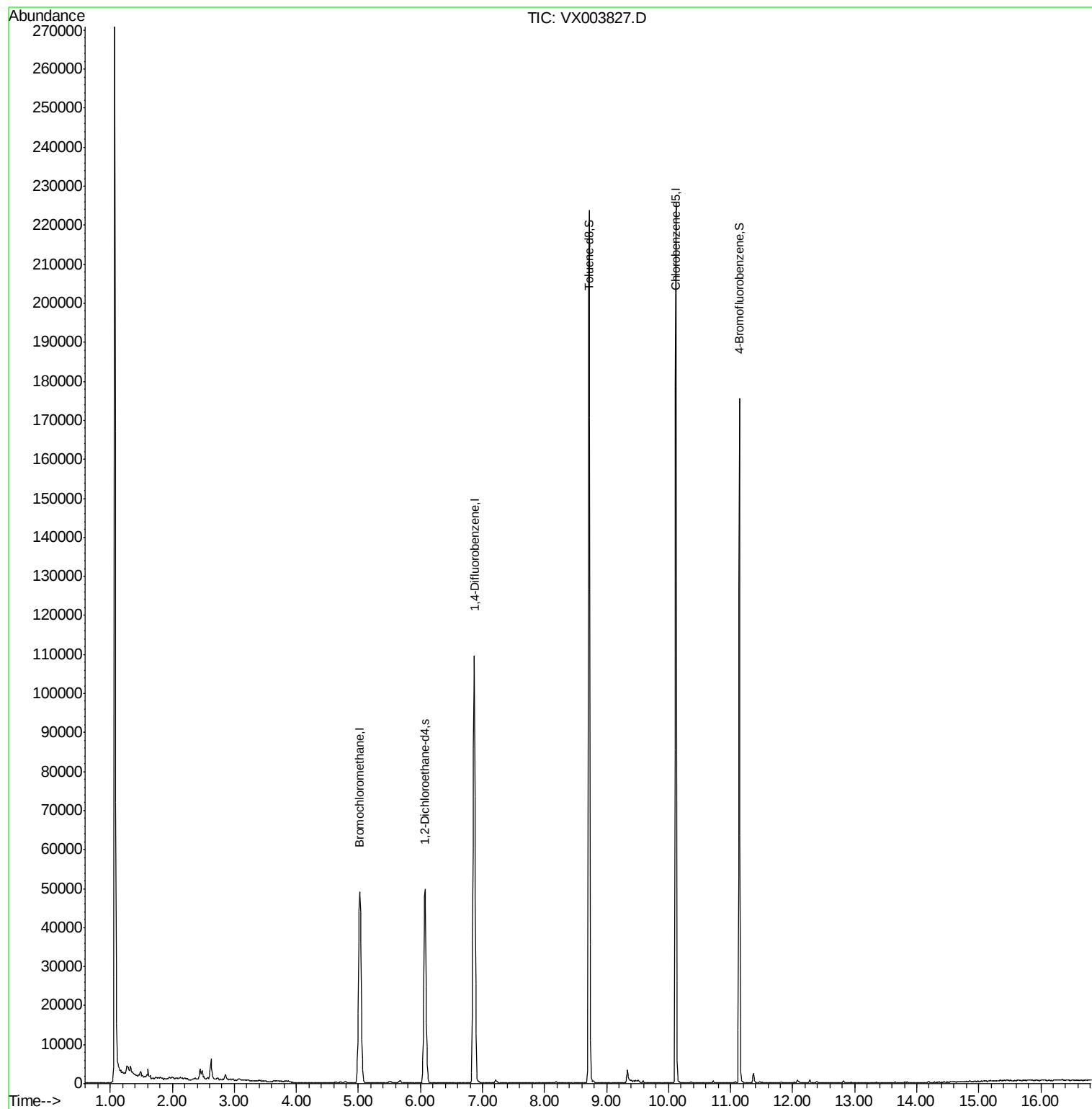
| Target Compounds | Ovalue |
|------------------|--------|
| -----            |        |

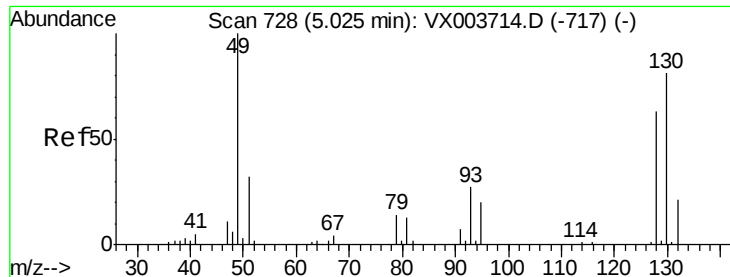
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Jul 27 16:17:43 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX003827.D

Acq: 02 Aug 2018 16:04

Instrument :

MSVOA\_X

ClientSampleId :

WE13-GW-TANK1-IDW-072918

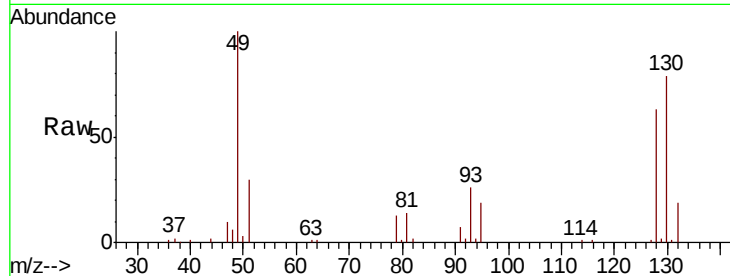
Tot Ion:128 Resp: 21800

Ion Ratio Lower Upper

128 100

49 159.0 0.0 423.0

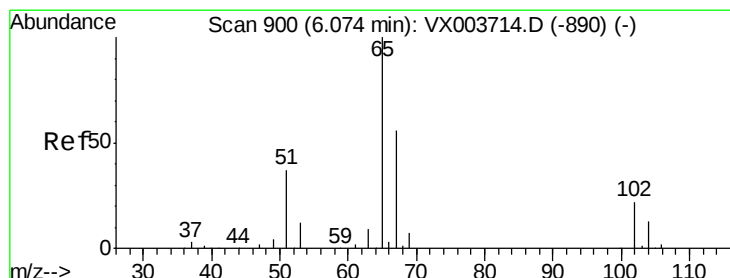
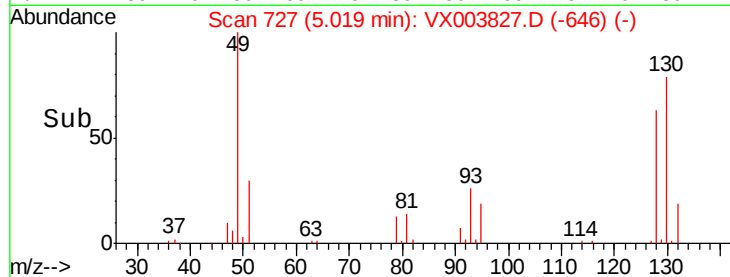
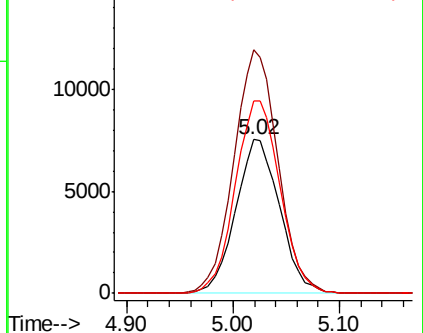
130 127.7 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#27

1,2-Dichloroethane-d4

Concen: 29.19 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003827.D

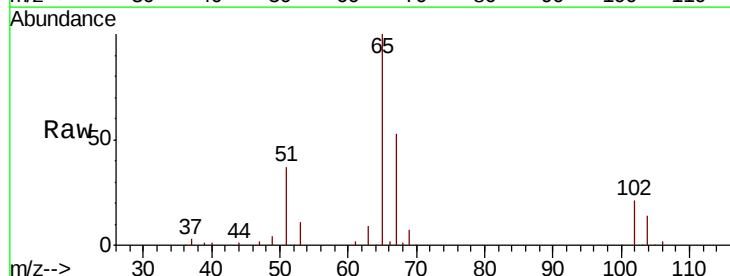
Acq: 02 Aug 2018 16:04

Tgt Ion: 65 Resp: 46716

Ion Ratio Lower Upper

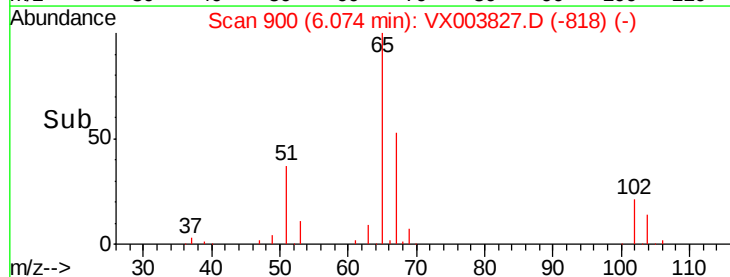
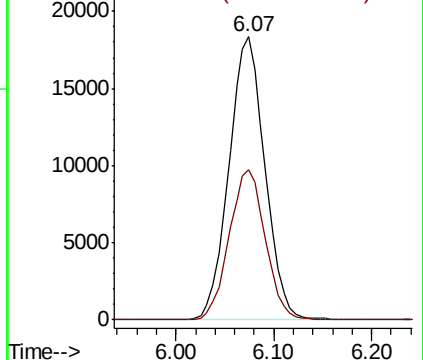
65 100

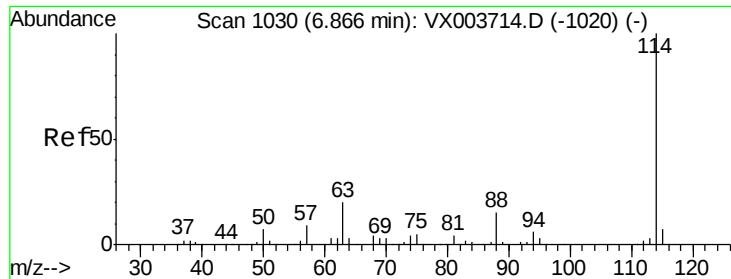
67 53.2 40.9 61.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

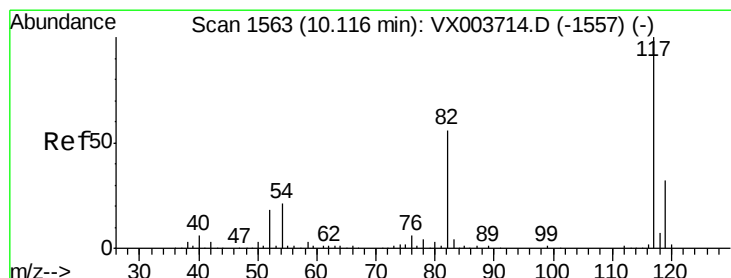
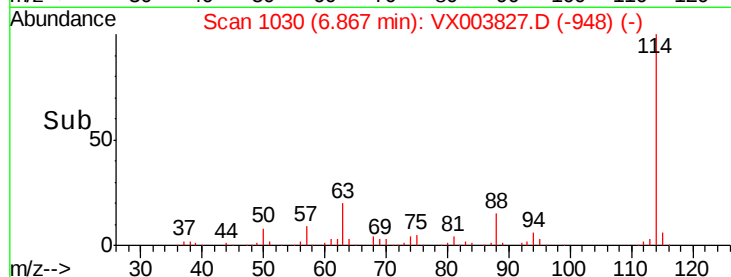
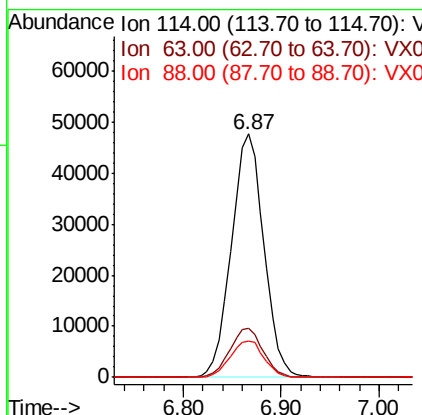
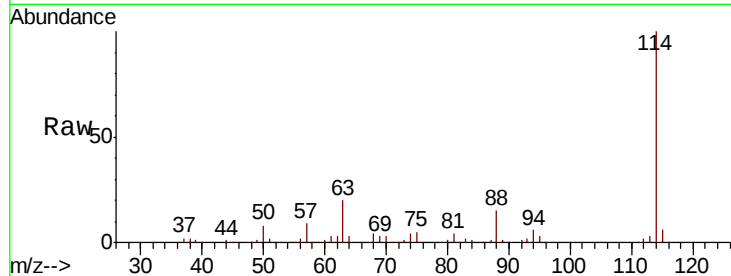




#28  
 1,4-Difluorobenzene  
 Concen: 30.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX003827.D  
 Acq: 02 Aug 2018 16:04

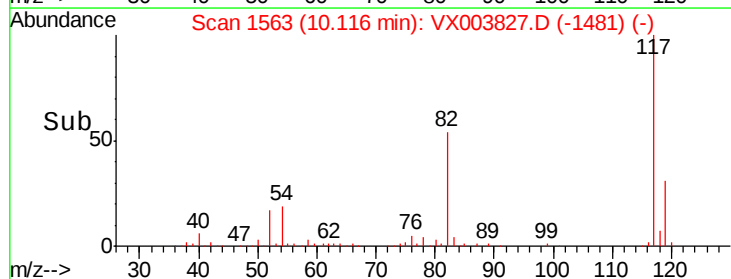
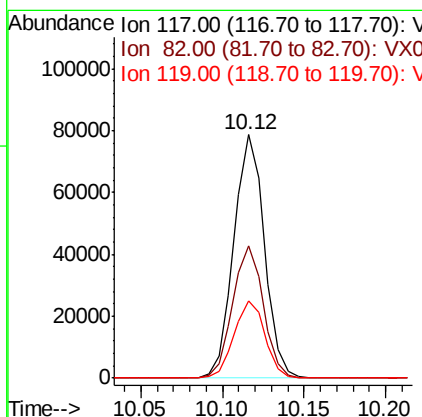
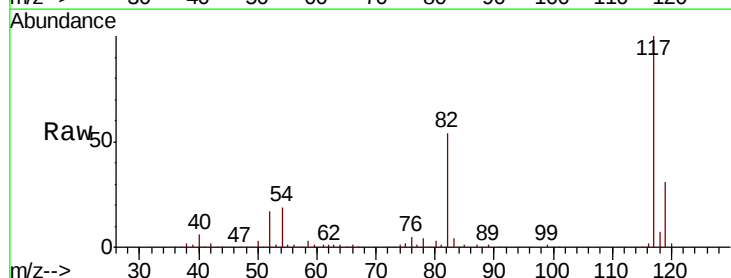
Instrument :  
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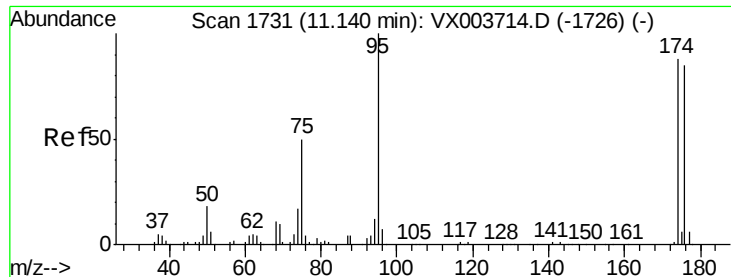
Tot Ion:114 Resp: 109657  
 Ion Ratio Lower Upper  
 114 100  
 63 20.5 17.1 25.7  
 88 15.5 12.6 19.0



#57  
 Chlorobenzene-d5  
 Concen: 30.00 ug/l  
 RT: 10.12 min Scan# 1563  
 Delta R.T. 0.00 min  
 Lab File: VX003827.D  
 Acq: 02 Aug 2018 16:04

Tgt Ion:117 Resp: 102770  
 Ion Ratio Lower Upper  
 117 100  
 82 54.5 44.3 66.5  
 119 31.9 25.7 38.5

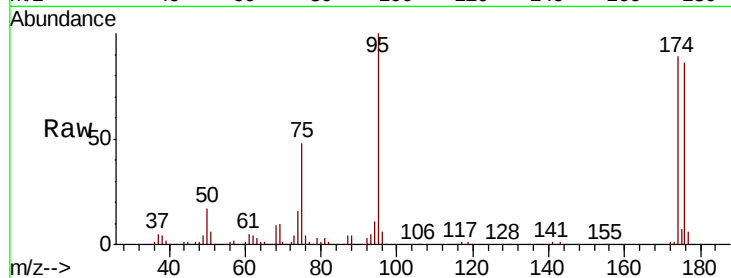




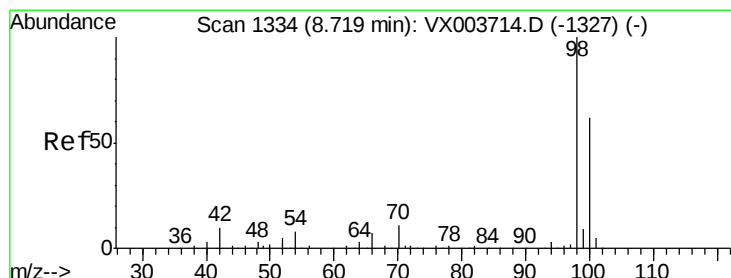
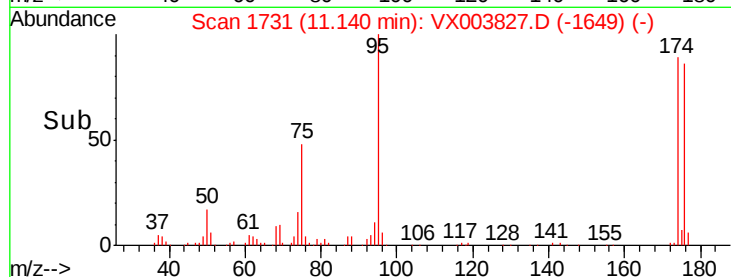
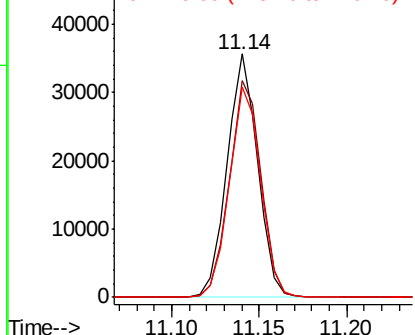
#60  
4-Bromofluorobenzene  
Concen: 26.21 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX003827.D  
Acq: 02 Aug 2018 16:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
WE13-GW-TANK1-IDW-072918

Tot Ion: 95 Resp: 43376  
Ion Ratio Lower Upper  
95 100  
174 92.1 71.8 107.6  
176 88.6 70.1 105.1

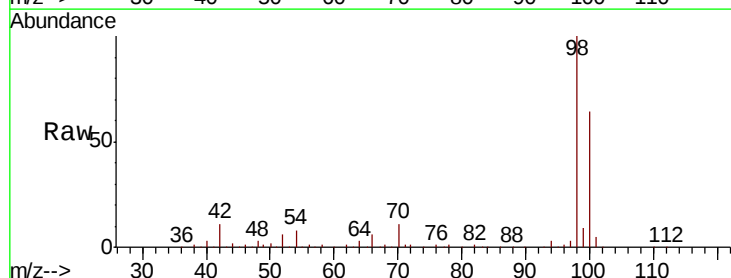


Abundance Ion 95.00 (94.70 to 95.70): VX0  
Ion 174.00 (173.70 to 174.70): V  
Ion 176.00 (175.70 to 176.70): V



#63  
Toluene-d8  
Concen: 28.78 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX003827.D  
Acq: 02 Aug 2018 16:04

Tgt Ion: 98 Resp: 133251  
Ion Ratio Lower Upper  
98 100  
100 63.3 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V

