

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX072720\  
 Data File : VX017614.D  
 Acq On : 27 Jul 2020 13:42  
 Operator : JC/SP  
 Sample : L3450-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TT-TB-20200723

Quant Time: Jul 27 15:32:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\624X072720W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Jul 27 11:38:31 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 4.98  | 128  | 105130   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.83  | 114  | 560014   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.10 | 117  | 520141   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.03   | 65    | 243659   | 30.16    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 100.53% |
| 60) 4-Bromofluorobenzene  | 11.12  | 95    | 247984   | 28.15    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 93.83%  |
| 63) Toluene-d8            | 8.70   | 98    | 674640   | 29.31    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 97.70%  |

## Target Compounds

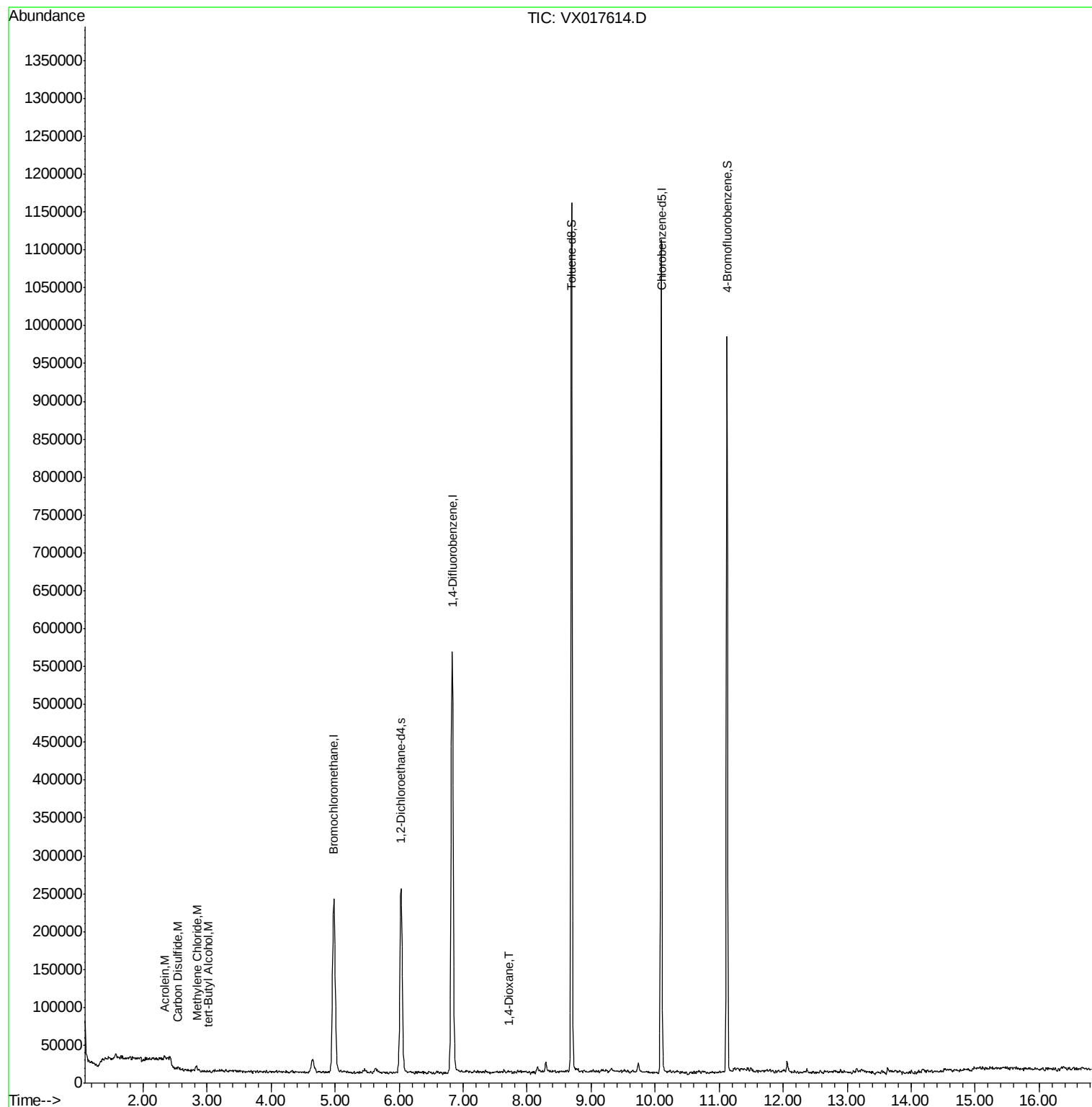
|                        |      |    |      |       | Qvalue    |
|------------------------|------|----|------|-------|-----------|
| 13) Acrolein           | 2.35 | 56 | 244  | 0.214 | ug/l 83   |
| 16) Carbon Disulfide   | 2.55 | 76 | 4040 | 0.301 | ug/l # 89 |
| 18) Methylene Chloride | 2.84 | 84 | 3819 | 0.644 | ug/l # 71 |
| 23) tert-Butyl Alcohol | 3.01 | 59 | 322  | 0.214 | ug/l # 20 |
| 45) 1,4-Dioxane        | 7.72 | 88 | 132  | 0.882 | ug/l # 1  |

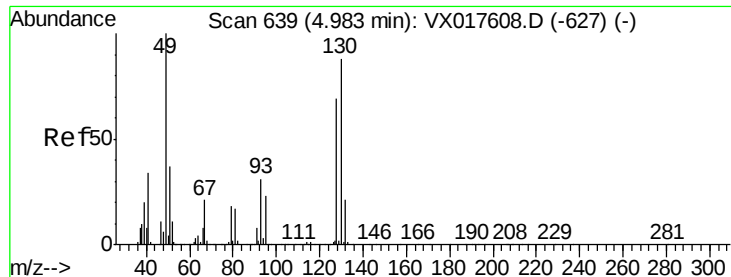
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_X  
ClientSampleId :  
TT-TB-20200723

Quant Time: Jul 27 15:32:35 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\624X072720W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Jul 27 11:38:31 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. -0.00 min

Lab File: VX017614.D

Acq: 27 Jul 2020 13:42

Instrument :

MSVOA\_X

ClientSampleId :

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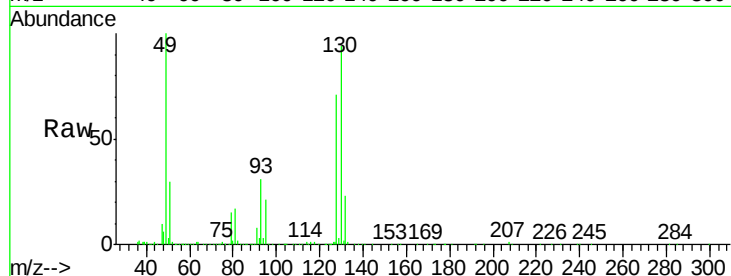
Tgt Ion:128 Resp: 105130

Ion Ratio Lower Upper

128 100

49 147.8 0.0 376.0

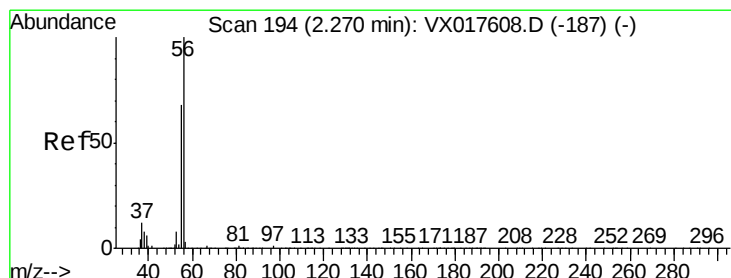
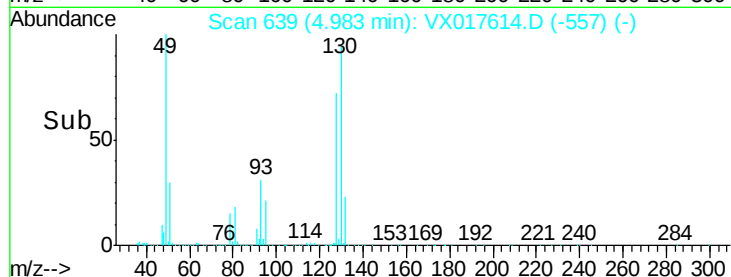
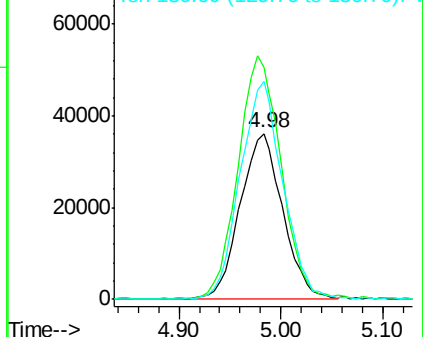
130 131.4 0.0 323.0



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



#13

Acrolein

Concen: 0.214 ug/l

RT: 2.35 min Scan# 207

Delta R.T. 0.08 min

Lab File: VX017614.D

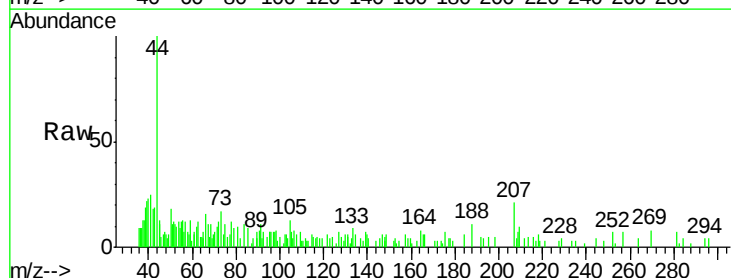
Acq: 27 Jul 2020 13:42

Tgt Ion: 56 Resp: 244

Ion Ratio Lower Upper

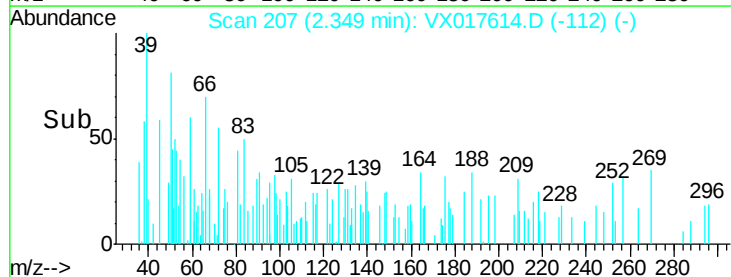
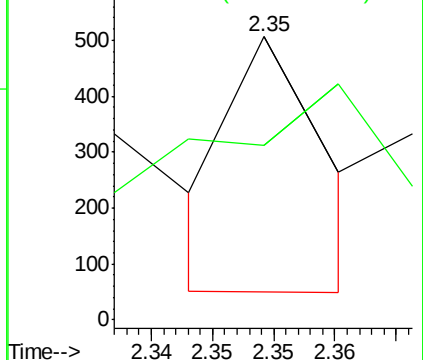
56 100

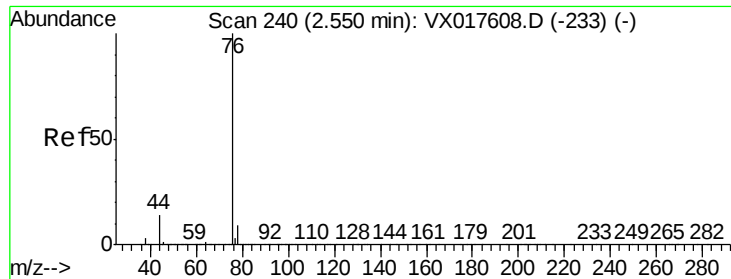
55 57.8 57.2 85.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

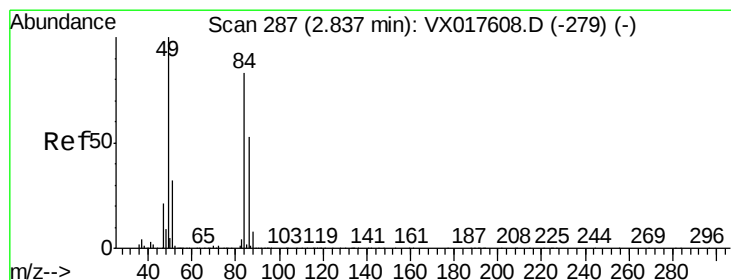
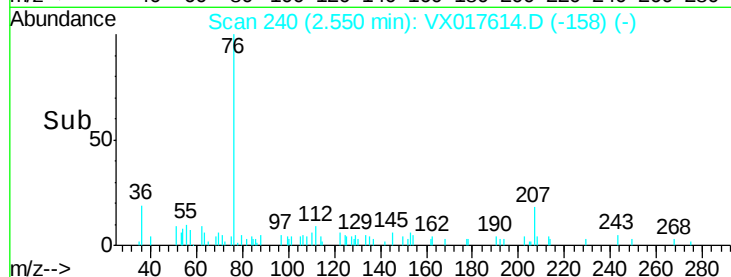
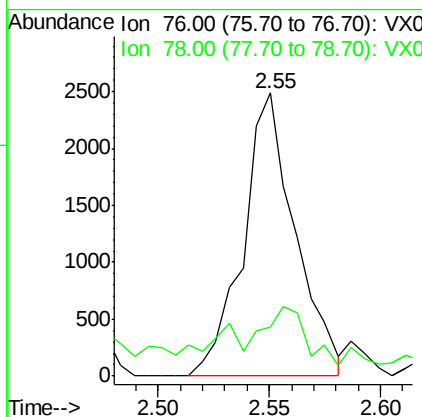
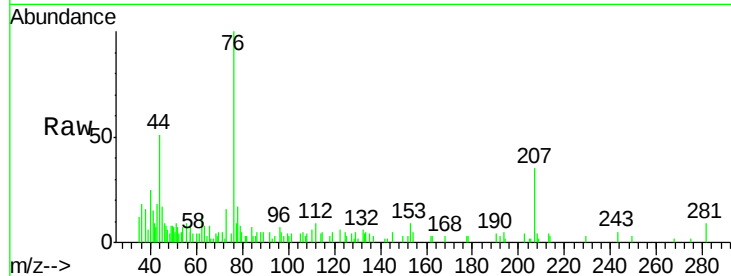




#16  
Carbon Disulfide  
Concen: 0.301 ug/l  
RT: 2.55 min Scan# 240  
Delta R.T. -0.00 min  
Lab File: VX017614.D  
Acq: 27 Jul 2020 13:42

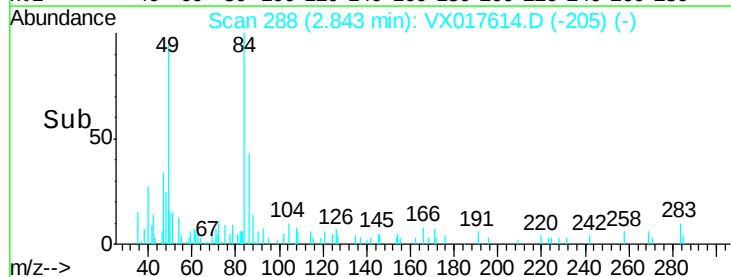
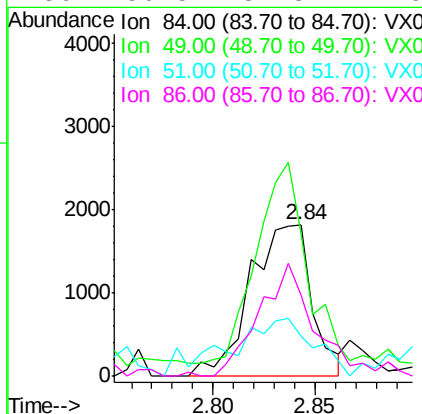
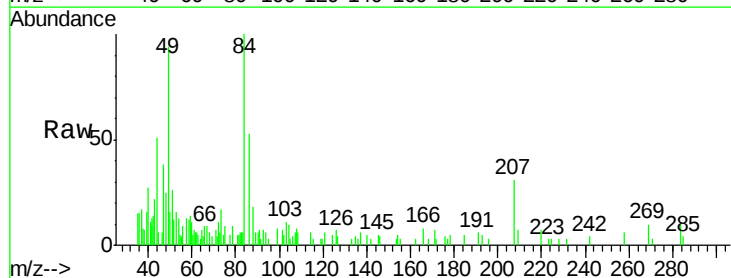
Instrument :  
MSVOA\_X  
ClientSampleId :  
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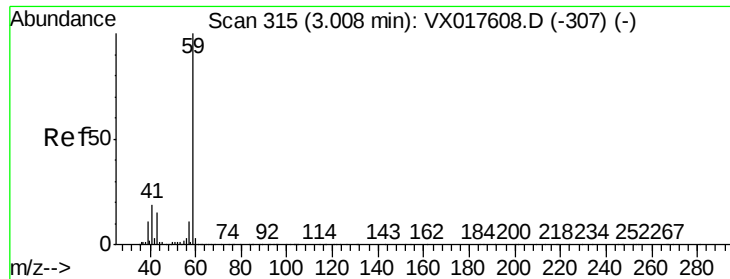
Tgt Ion: 76 Resp: 4040  
Ion Ratio Lower Upper  
76 100  
78 13.5 7.5 11.3#



#18  
Methylene Chloride  
Concen: 0.644 ug/l  
RT: 2.84 min Scan# 288  
Delta R.T. 0.01 min  
Lab File: VX017614.D  
Acq: 27 Jul 2020 13:42

Tgt Ion: 84 Resp: 3819  
Ion Ratio Lower Upper  
84 100  
49 84.8 96.7 145.1#  
51 15.6 31.0 46.4#  
86 50.5 51.8 77.6#

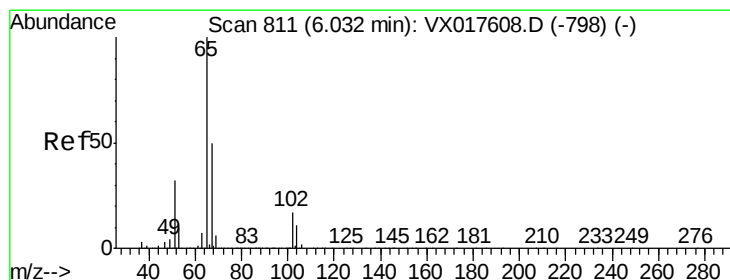
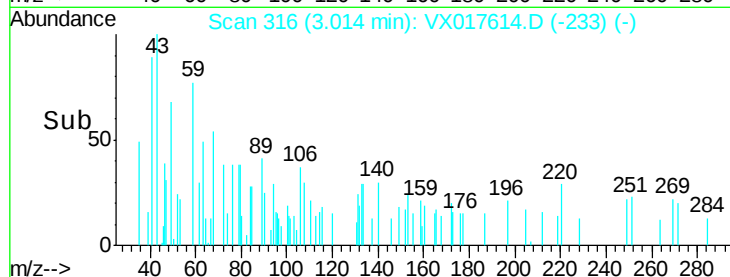
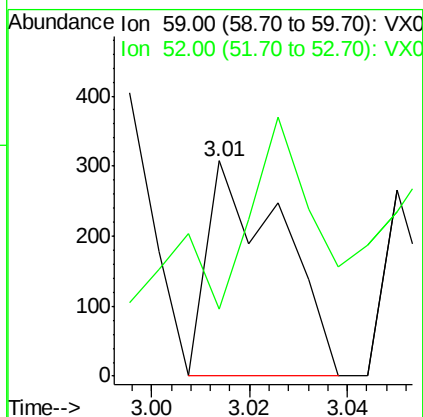
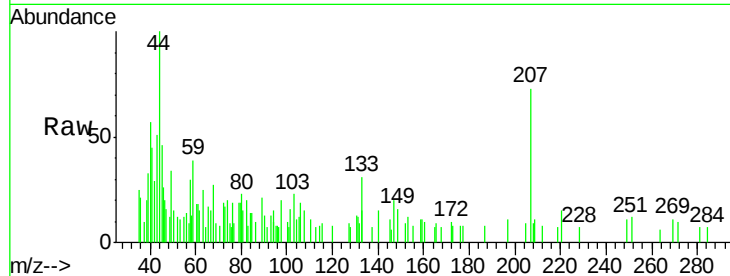




#23  
tert-Butyl Alcohol  
Concen: 0.214 ug/l  
RT: 3.01 min Scan# 316  
Delta R.T. 0.01 min  
Lab File: VX017614.D  
Acq: 27 Jul 2020 13:42

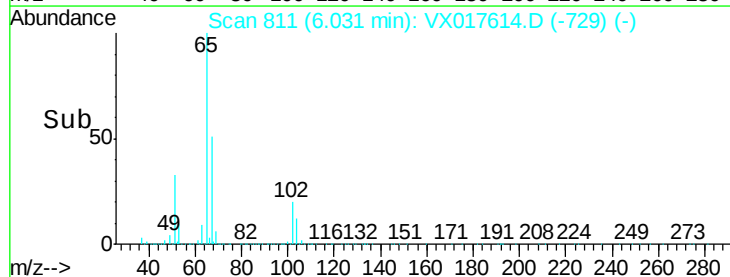
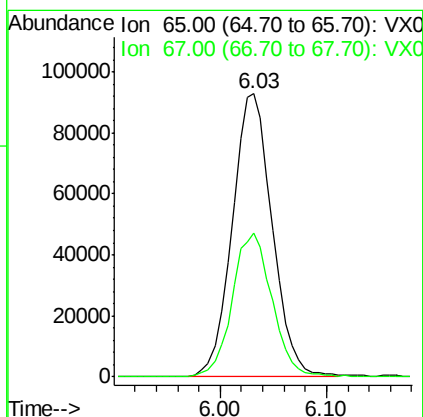
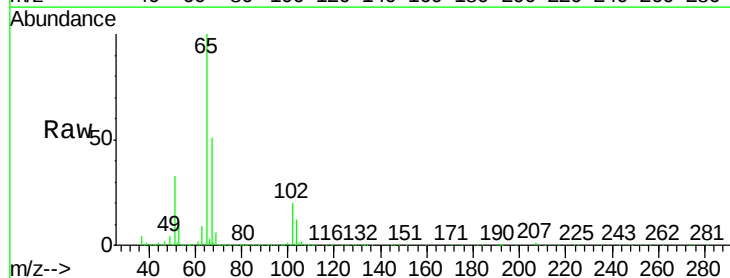
Instrument :  
MSVOA\_X  
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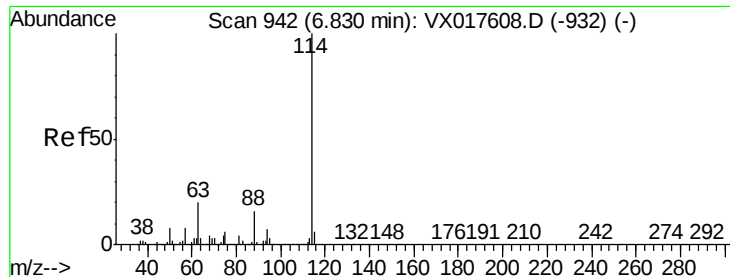
Tgt Ion: 59 Resp: 322  
Ion Ratio Lower Upper  
59 100  
52 74.2 0.2 0.4#



#27  
1,2-Dichloroethane-d4  
Concen: 30.161 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. -0.00 min  
Lab File: VX017614.D  
Acq: 27 Jul 2020 13:42

Tgt Ion: 65 Resp: 243659  
Ion Ratio Lower Upper  
65 100  
67 50.4 40.6 61.0

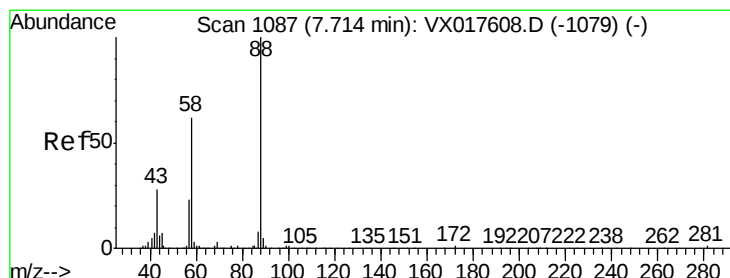
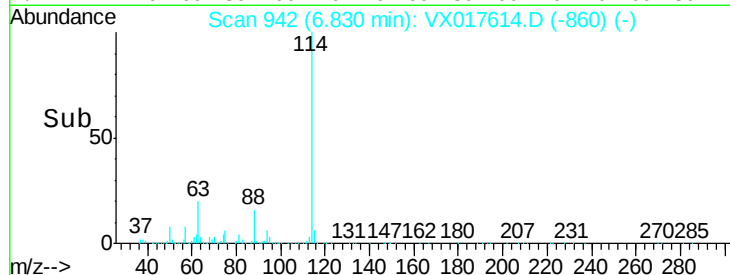
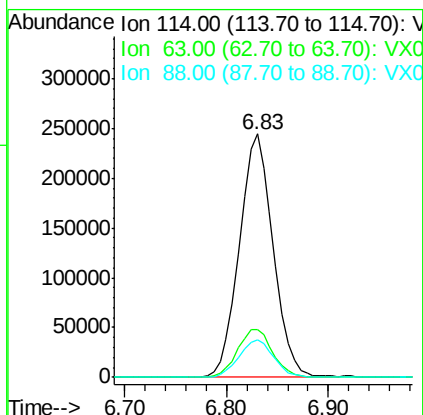
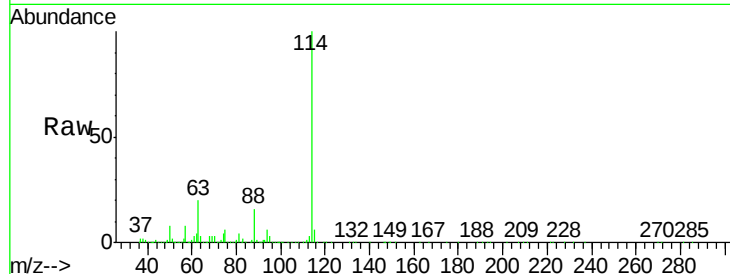




#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 6.83 min Scan# 942  
 Delta R.T. -0.00 min  
 Lab File: VX017614.D  
 Acq: 27 Jul 2020 13:42

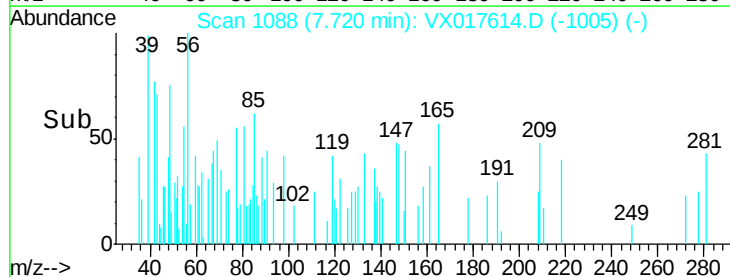
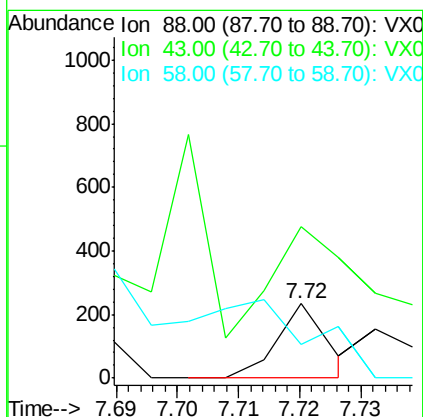
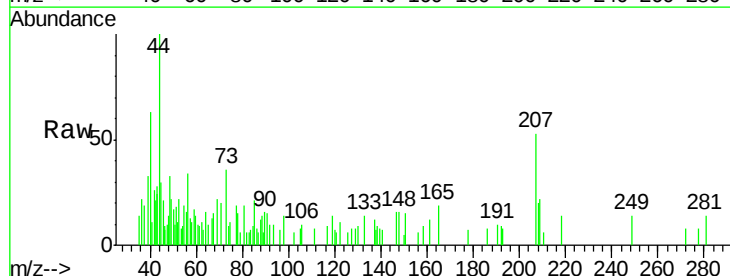
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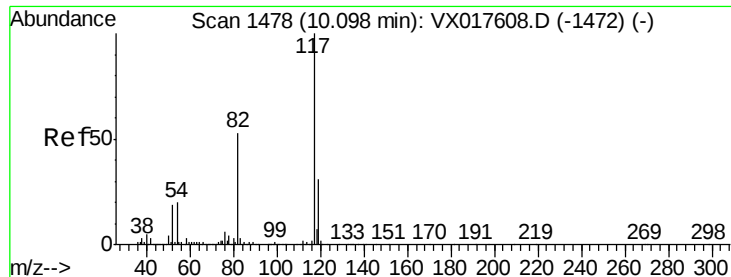
Tgt Ion: 114 Resp: 560014  
 Ion Ratio Lower Upper  
 114 100  
 63 20.5 16.3 24.5  
 88 15.8 12.6 18.8



#45  
 1,4-Dioxane  
 Concen: 0.882 ug/l  
 RT: 7.72 min Scan# 1088  
 Delta R.T. 0.01 min  
 Lab File: VX017614.D  
 Acq: 27 Jul 2020 13:42

Tgt Ion: 88 Resp: 132  
 Ion Ratio Lower Upper  
 88 100  
 43 278.0 29.0 43.6#  
 58 253.0 55.6 83.4#

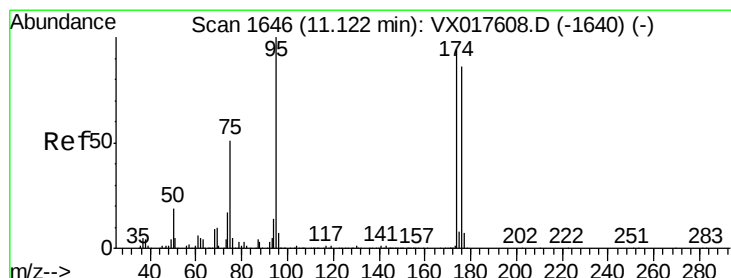
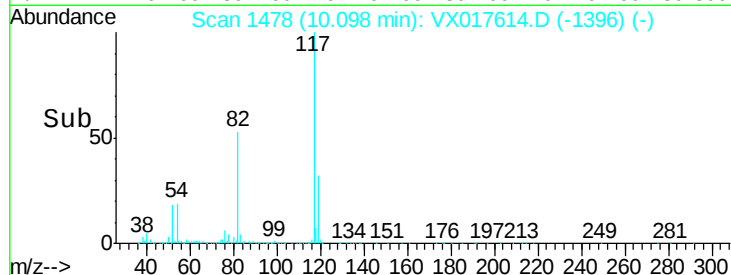
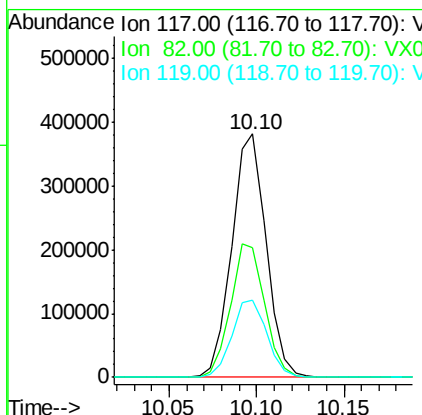
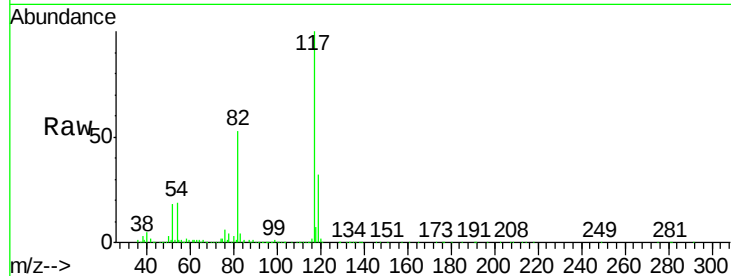




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX017614.D  
Acq: 27 Jul 2020 13:42

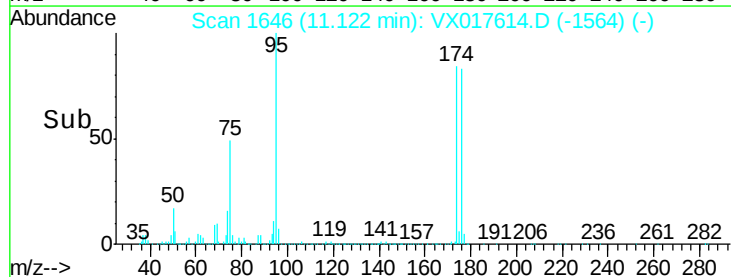
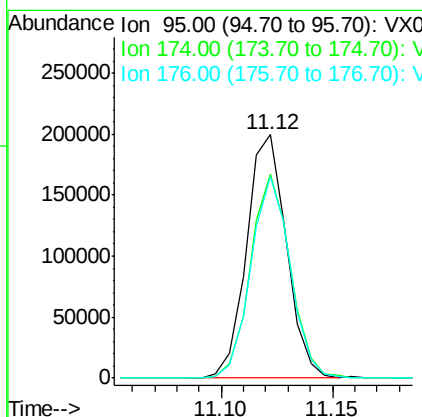
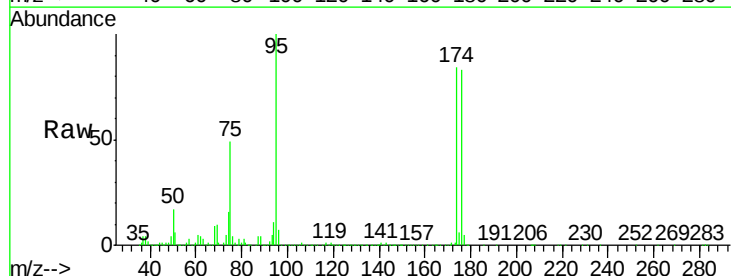
Instrument :  
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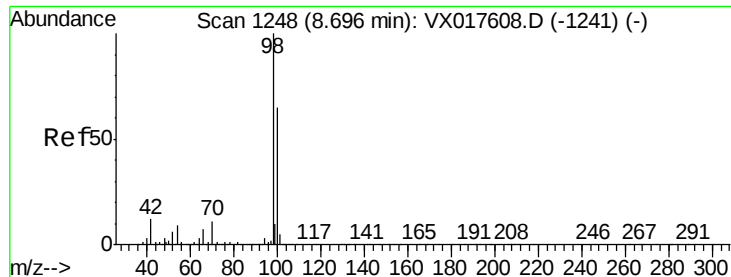
Tgt Ion: 117 Resp: 520141  
Ion Ratio Lower Upper  
117 100  
82 54.7 43.6 65.4  
119 32.3 25.7 38.5



#60  
4-Bromofluorobenzene  
Concen: 28.152 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX017614.D  
Acq: 27 Jul 2020 13:42

Tgt Ion: 95 Resp: 247984  
Ion Ratio Lower Upper  
95 100  
174 84.0 70.2 105.2  
176 82.1 65.6 98.4





#63

Toluene-d8

Concen: 29.310 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017614.D

Acq: 27 Jul 2020 13:42

Instrument :

MSVOA\_X

ClientSampleId :

TT-TB-20200723

Tgt Ion: 98 Resp: 674640

Ion Ratio Lower Upper

98 100

100 65.5 51.9 77.9

