

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX083019\  
 Data File : VX011933.D  
 Acq On : 31 Aug 2019 04:12  
 Operator : SY/SP  
 Sample : K4493-06  
 Misc : 4.51g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T9-12-13-I-(1.9)

Quant Time: Aug 31 05:12:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082919S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 30 01:59:05 2019  
 Response via : Initial Calibration

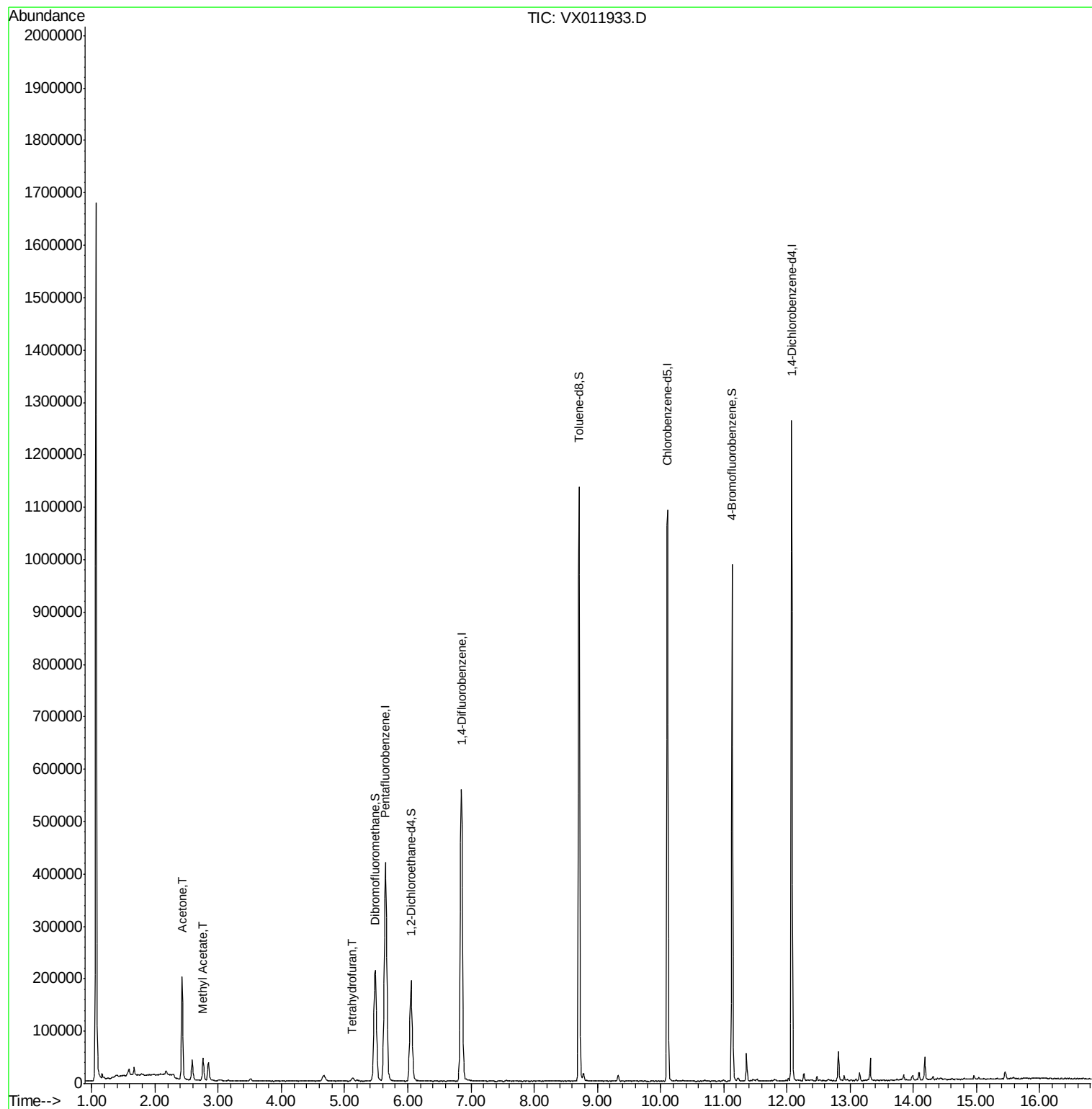
| Internal Standards          | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|---------|--------|----------|
| 1) Pentafluorobenzene       | 5.65  | 168  | 443356   | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.85  | 114  | 586658   | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 10.11 | 117  | 515817   | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.07 | 152  | 271021   | 50.00   | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 185851   | 43.75   | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 87.50% |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 176497   | 46.92   | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 93.84% |          |
| 50) Toluene-d8              | 8.71  | 98   | 667538   | 49.64   | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 99.28% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 243842   | 41.34   | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 82.68% |          |
| Target Compounds            |       |      |          |         |        |          |
| 16) Acetone                 | 2.43  | 43   | 212963   | 233.015 | ug/l   | 99       |
| 18) Methyl Acetate          | 2.76  | 43   | 50162    | 19.827  | ug/l   | 99       |
| 29) Tetrahydrofuran         | 5.13  | 42   | 5393     | 6.491   | ug/l   | 95       |

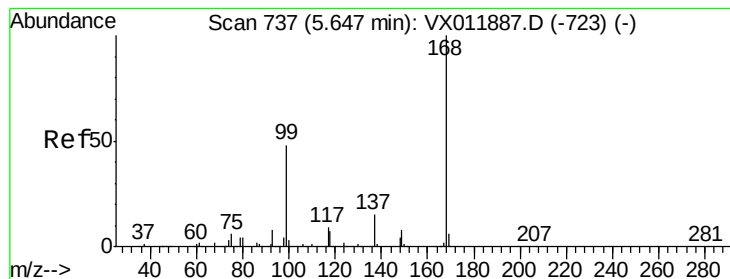
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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T9-12-13-I-(1.9)

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Quant Title : SW846 8260  
QLast Update : Fri Aug 30 01:59:05 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: VX011933.D

Acq: 31 Aug 2019 04:12

Instrument :

MSVOA\_X

ClientSampleId :

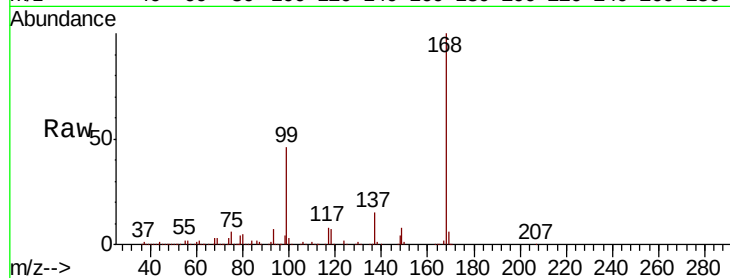
T9-12-13-I-(1.9)

Tot Ion:168 Resp: 443356

Ion Ratio Lower Upper

168 100

99 46.3 38.4 57.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

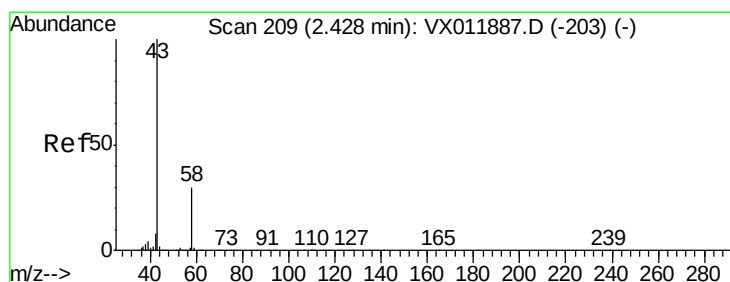
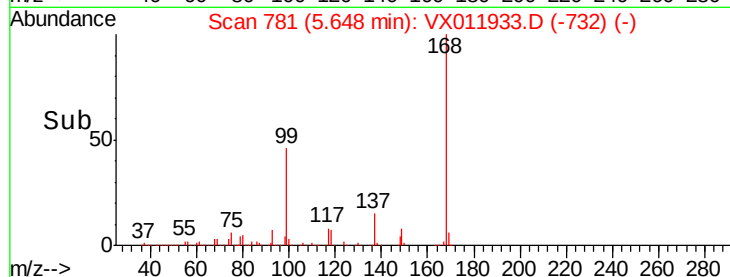
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#16

Acetone

Concen: 233.015 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX011933.D

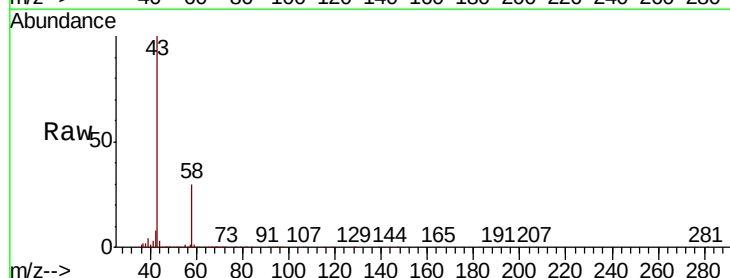
Acq: 31 Aug 2019 04:12

Tgt Ion: 43 Resp: 212963

Ion Ratio Lower Upper

43 100

58 30.2 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

150000

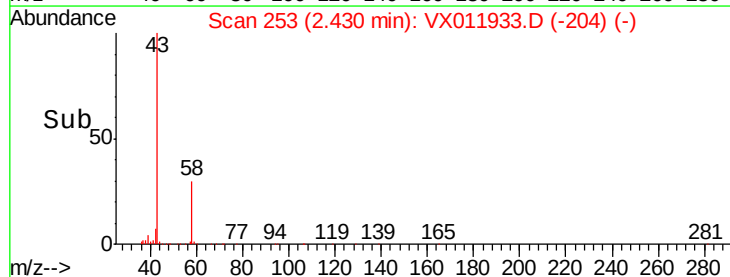
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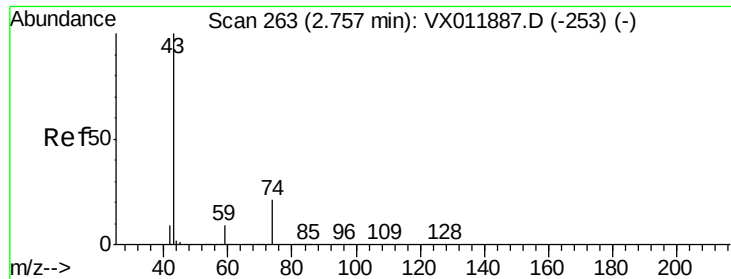
50000

0

Time-->

2.30 2.40 2.50

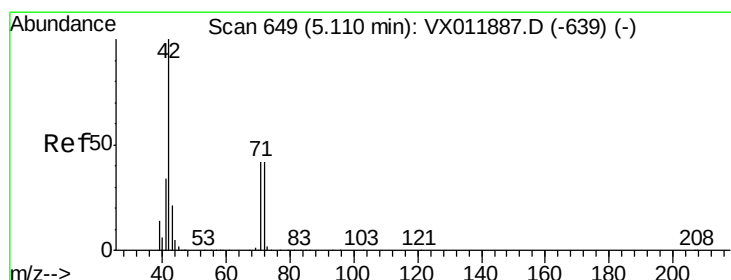
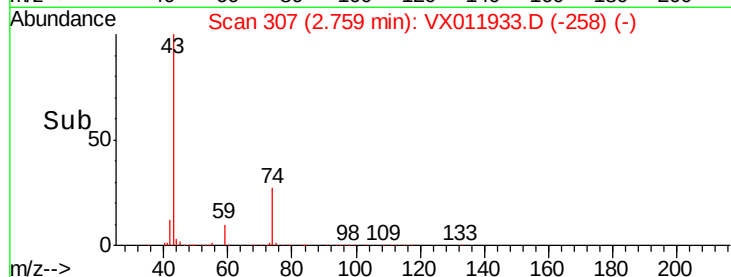
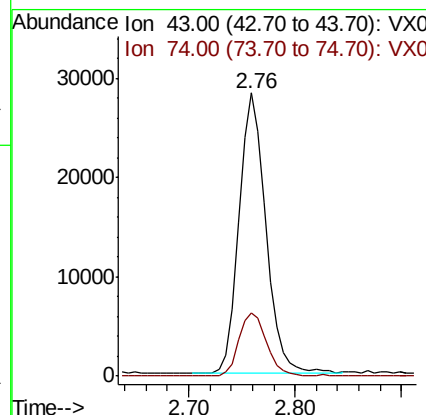
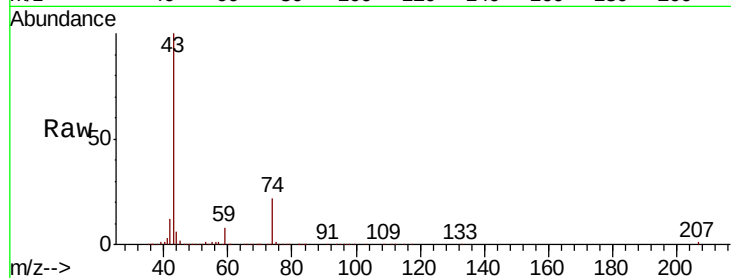




#18  
Methvl Acetate  
Concen: 19.827 ug/l  
RT: 2.76 min Scan# 307  
Delta R.T. 0.00 min  
Lab File: VX011933.D  
Acq: 31 Aug 2019 04:12

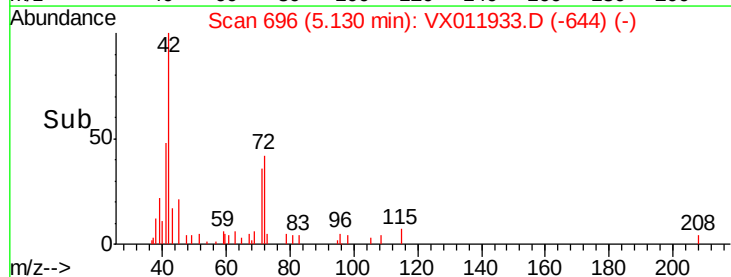
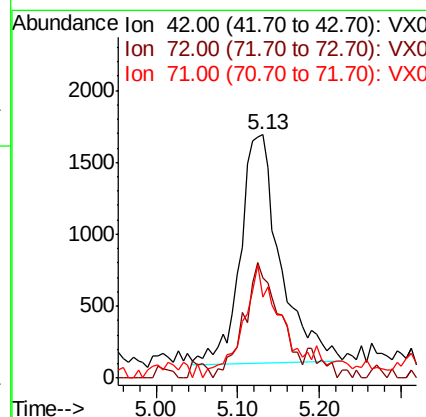
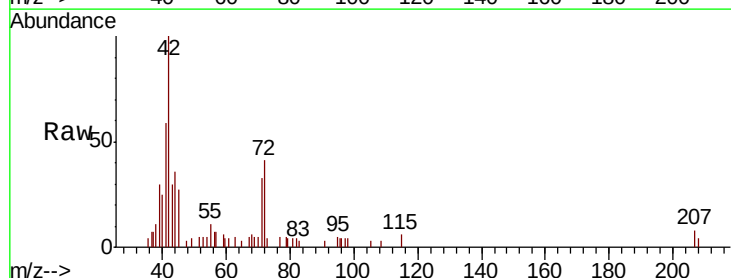
Instrument :  
MSVOA\_X  
ClientSampleId :  
T9-12-13-I-(1.9)

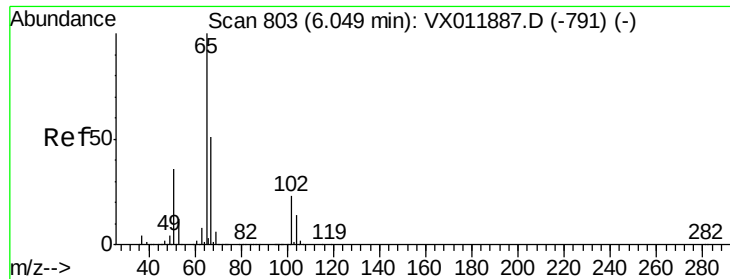
Tot Ion: 43 Resp: 50162  
Ion Ratio Lower Upper  
43 100  
74 23.7 18.4 27.6



#29  
Tetrahydrofuran  
Concen: 6.491 ug/l  
RT: 5.13 min Scan# 696  
Delta R.T. 0.02 min  
Lab File: VX011933.D  
Acq: 31 Aug 2019 04:12

Tgt Ion: 42 Resp: 5393  
Ion Ratio Lower Upper  
42 100  
72 44.6 36.2 54.4  
71 47.0 33.1 49.7

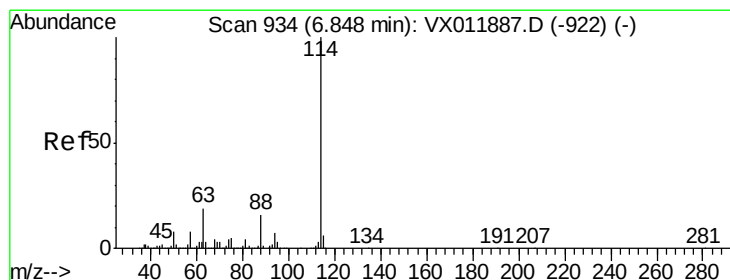
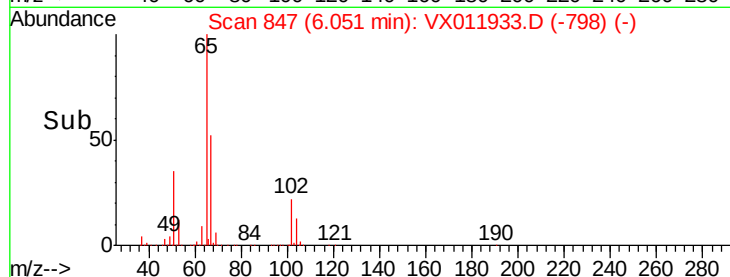
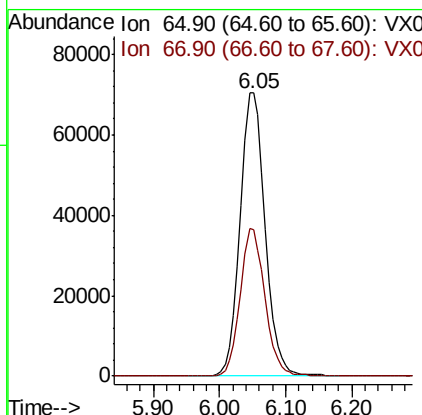
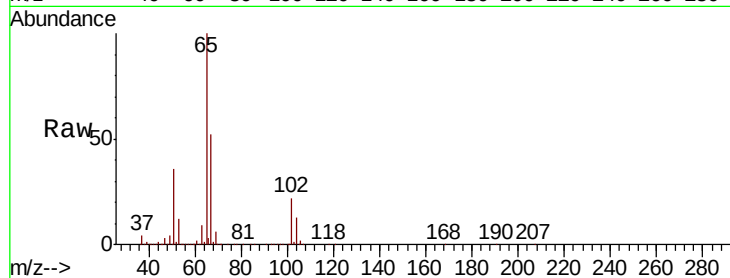




#33  
 1,2-Dichloroethane-d4  
 Concen: 43.752 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. 0.00 min  
 Lab File: VX011933.D  
 Acq: 31 Aug 2019 04:12

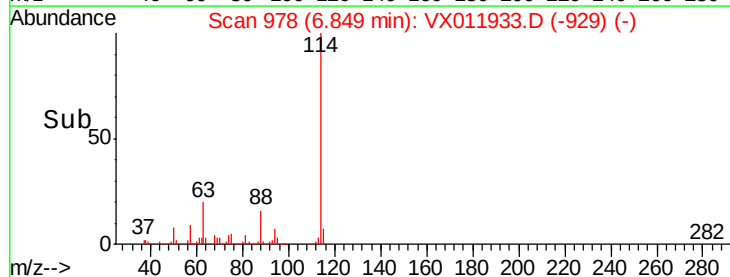
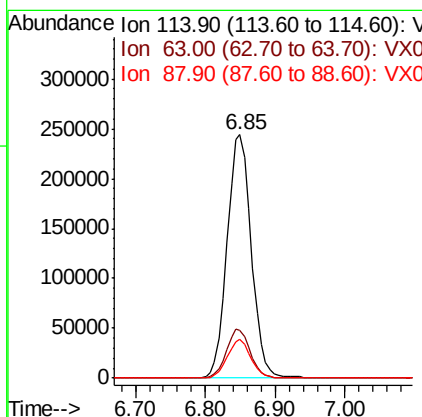
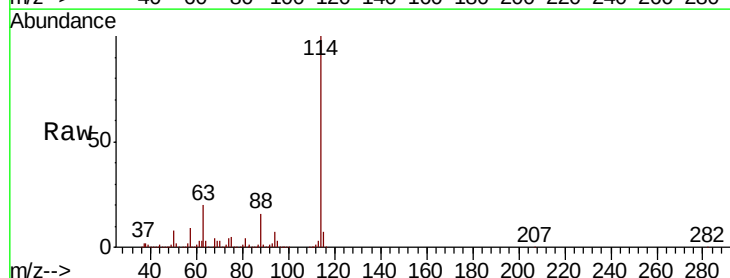
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T9-12-13-I-(1.9)

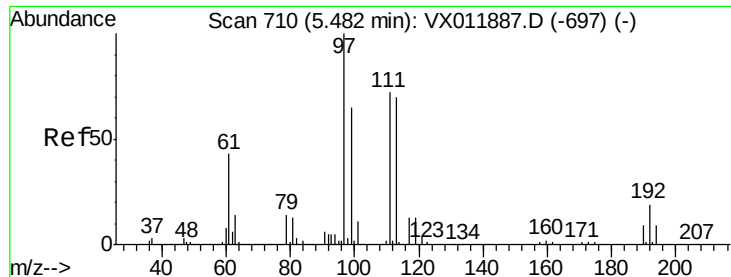
Tot Ion: 65 Resp: 185851  
 Ion Ratio Lower Upper  
 65 100  
 67 51.1 0.0 102.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX011933.D  
 Acq: 31 Aug 2019 04:12

Tgt Ion: 114 Resp: 586658  
 Ion Ratio Lower Upper  
 114 100  
 63 19.5 0.0 38.8  
 88 16.0 0.0 31.2

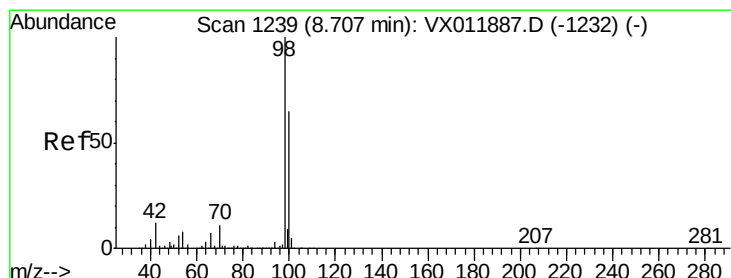
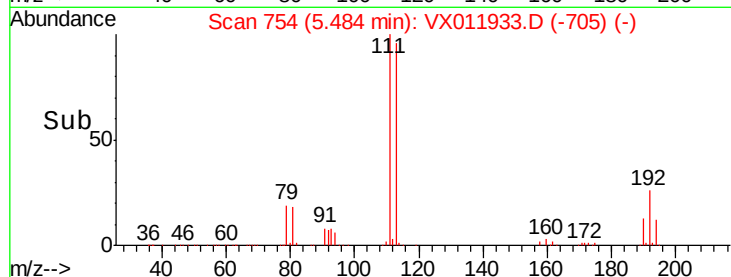
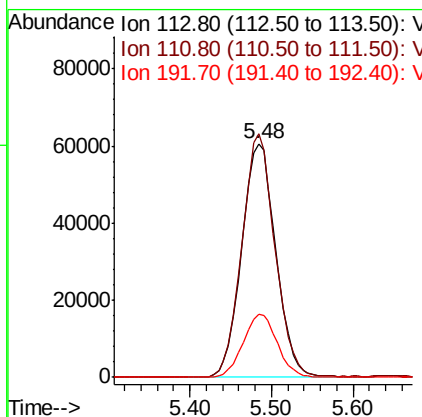
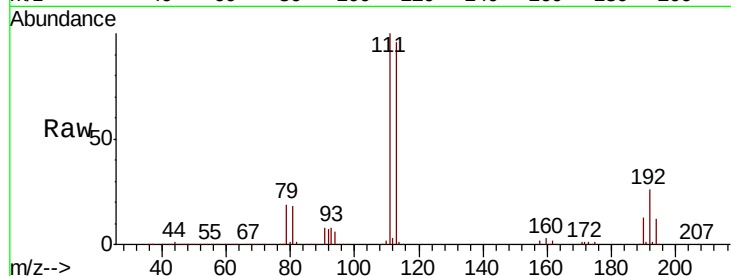




#35  
Dibromofluoromethane  
Concen: 46.917 ug/l  
RT: 5.48 min Scan# 754  
Delta R.T. 0.00 min  
Lab File: VX011933.D  
Acq: 31 Aug 2019 04:12

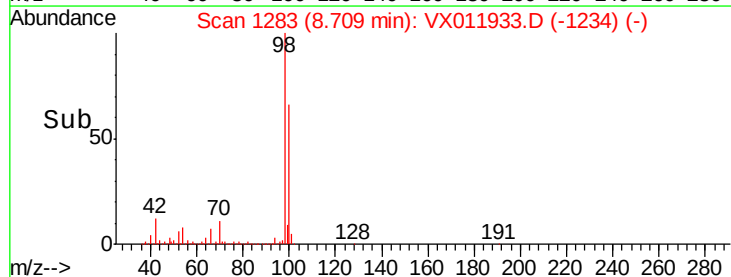
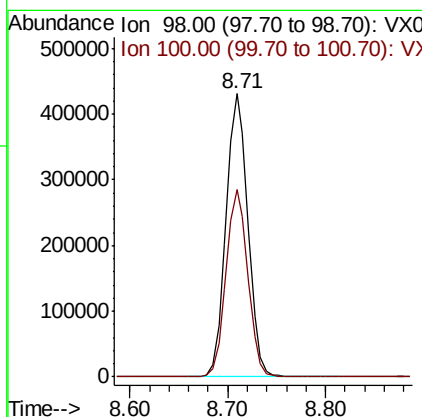
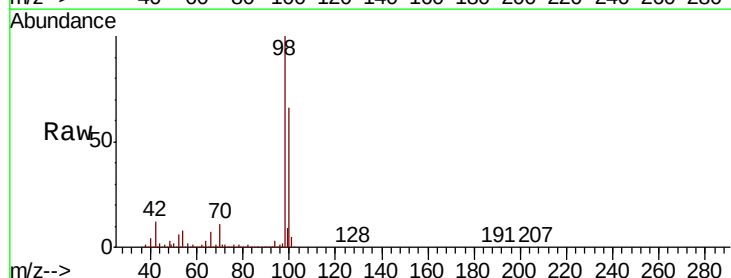
Instrument :  
MSVOA\_X  
ClientSampleId :  
T9-12-13-I-(1.9)

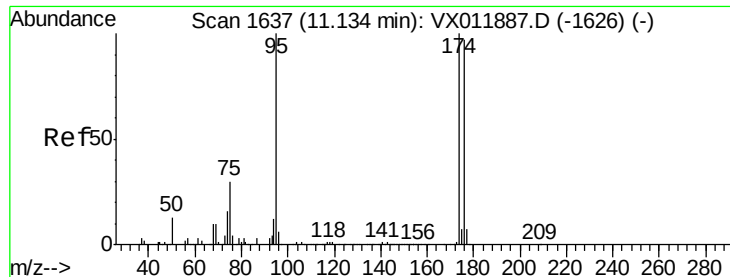
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.0 | 82.1  | 123.1 |
| 192     | 26.9  | 21.5  | 32.3  |



#50  
Toluene-d8  
Concen: 49.640 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX011933.D  
Acq: 31 Aug 2019 04:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 66.2  | 53.0  | 79.6  |





#62

4-Bromofluorobenzene

Concen: 41.336 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX011933.D

Acq: 31 Aug 2019 04:12

Instrument :

MSVOA\_X

ClientSampleId :

T9-12-13-I-(1.9)

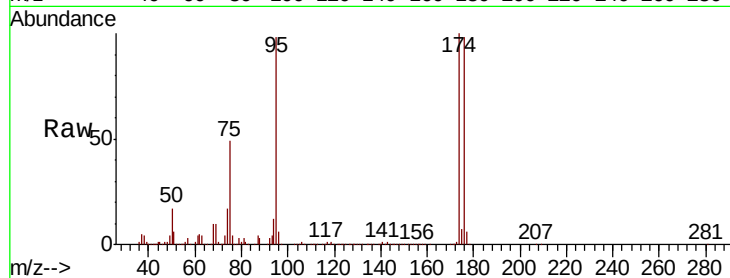
Tot Ion: 95 Resp: 243842

Ion Ratio Lower Upper

95 100

174 99.2 0.0 196.0

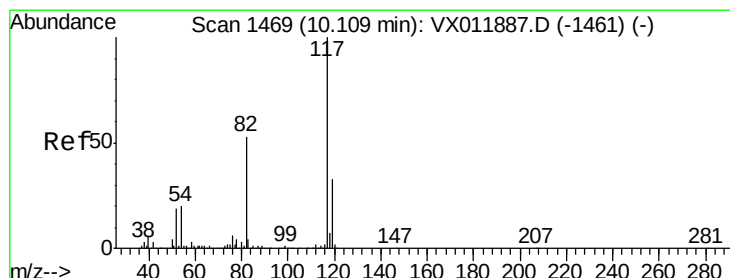
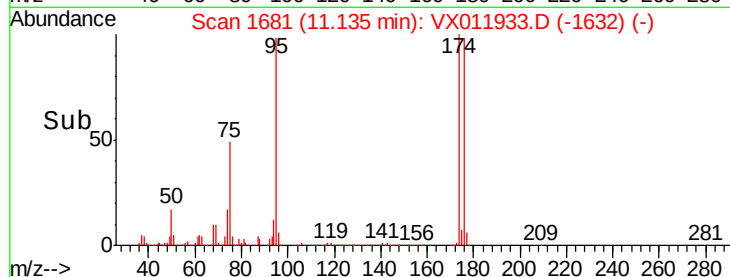
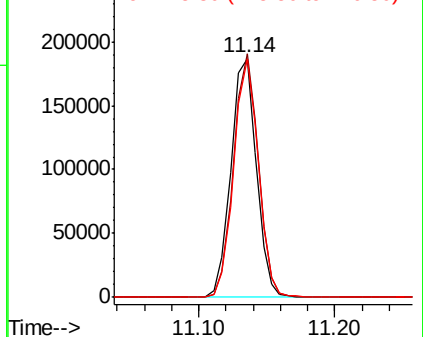
176 96.7 0.0 191.4



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX011933.D

Acq: 31 Aug 2019 04:12

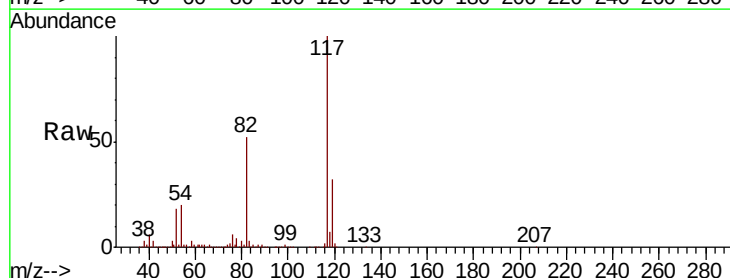
Tgt Ion: 117 Resp: 515817

Ion Ratio Lower Upper

117 100

82 51.5 42.0 63.0

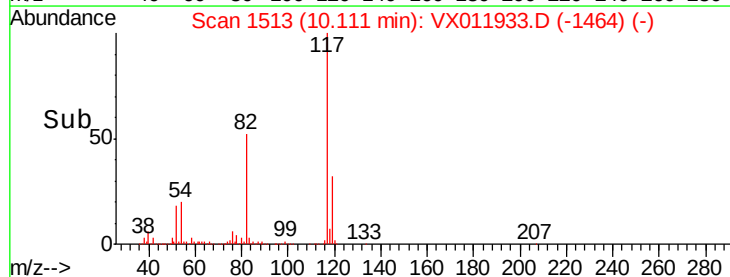
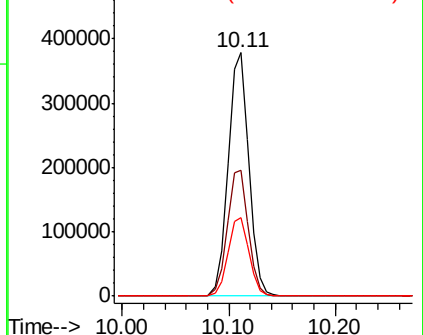
119 32.1 26.2 39.4

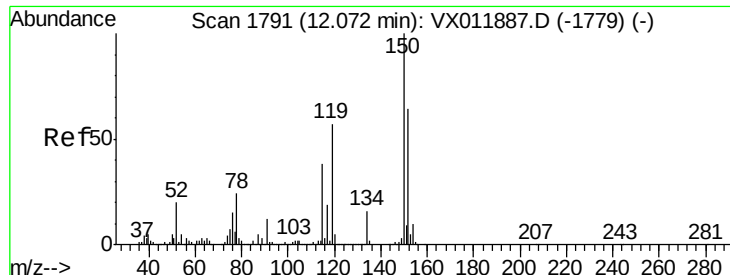


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX011933.D

Acq: 31 Aug 2019 04:12

Instrument :

MSVOA\_X

ClientSampleId :

T9-12-13-I-(1.9)

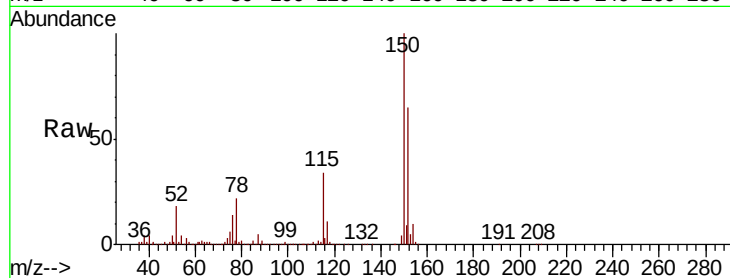
Tot Ion:152 Resp: 271021

Ion Ratio Lower Upper

152 100

115 53.0 37.1 111.3

150 154.2 0.0 339.6



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

