

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121719\  
 Data File : VX014063.D  
 Acq On : 17 Dec 2019 19:42  
 Operator : JC/SP  
 Sample : K6251-21  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D1-20191209

Quant Time: Dec 18 07:56:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 553916   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 863581   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 769575   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 318536   | 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   | 313545   | 49.94 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.88% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 257355   | 49.02 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.04% |          |
| 50) Toluene-d8              | 8.71  | 98   | 1010705  | 49.45 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.90% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 331162   | 44.33 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.66% |          |

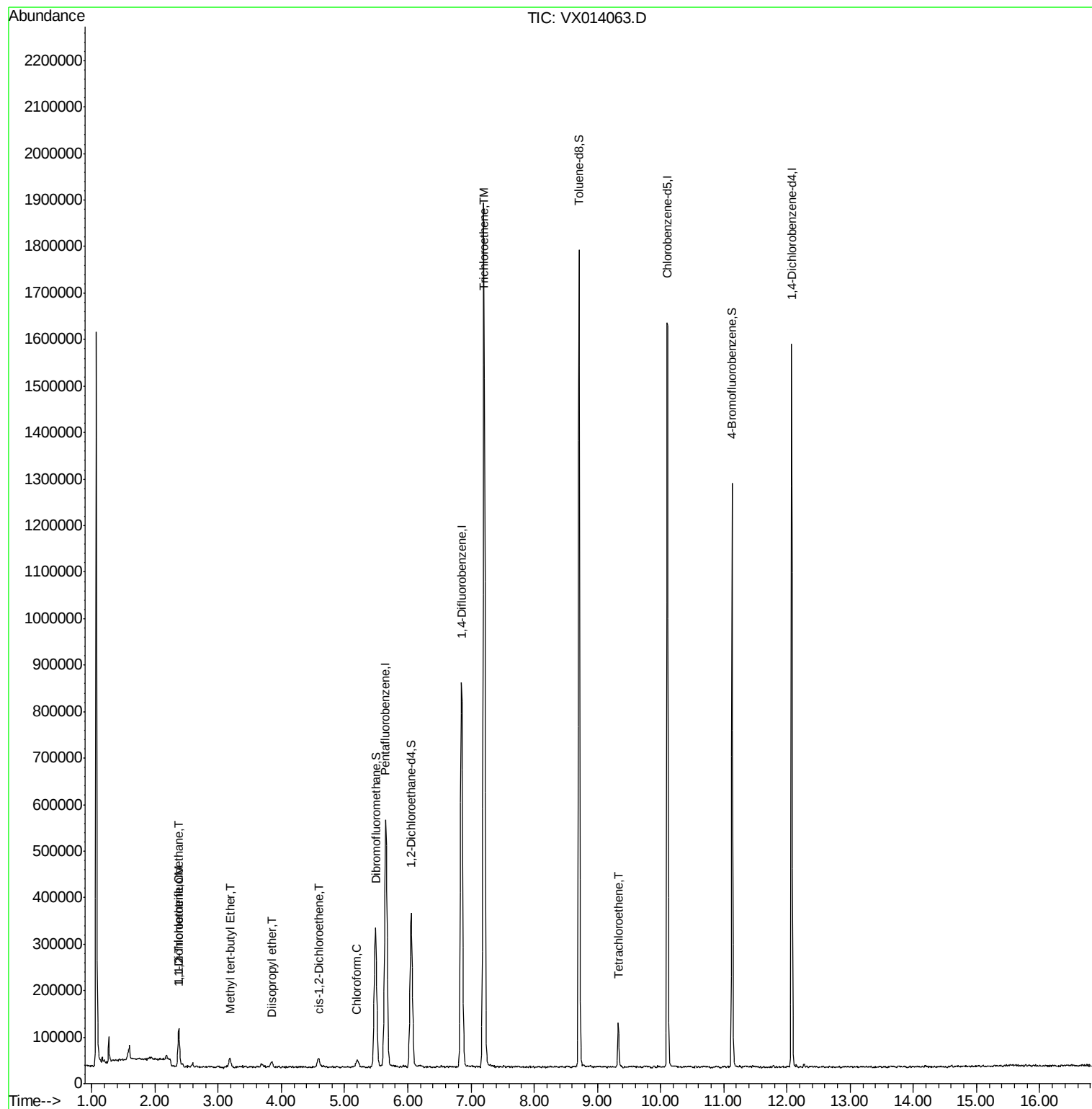
| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101  | 30454    | 5.816   | ug/l   | 96     |
| 12) 1,1-Dichloroethene        | 2.36 | 96   | 7024     | 1.318   | ug/l   | 83     |
| 19) Methyl tert-butyl Ether   | 3.19 | 73   | 22274    | 1.272   | ug/l   | 91     |
| 22) Diisopropyl ether         | 3.84 | 45   | 13012    | 0.686   | ug/l # | 73     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96   | 13998    | 2.108   | ug/l   | 84     |
| 30) Chloroform                | 5.20 | 83   | 20097    | 2.010   | ug/l   | 97     |
| 44) Trichloroethene           | 7.20 | 130  | 739683   | 109.840 | ug/l   | 96     |
| 64) Tetrachloroethene         | 9.33 | 164  | 19905    | 2.923   | ug/l   | 94     |

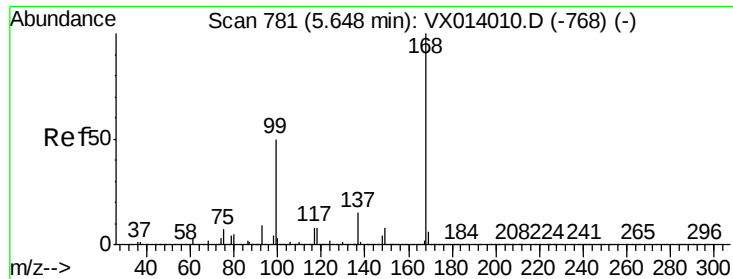
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Dec 17 03:01:07 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: VX014063.D

Acq: 17 Dec 2019 19:42

Instrument :

MSVOA\_X

ClientSampleId :

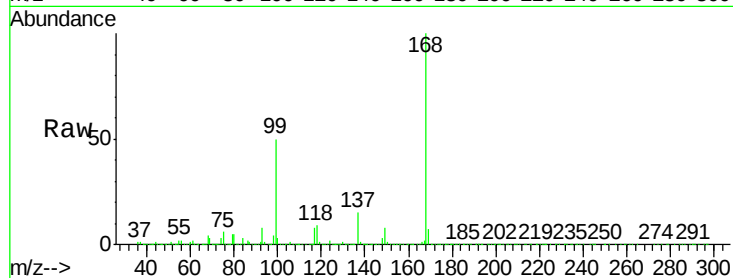
RE132D1-20191209

Tot Ion:168 Resp: 553916

Ion Ratio Lower Upper

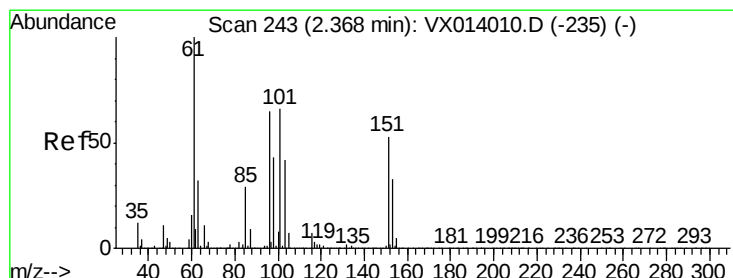
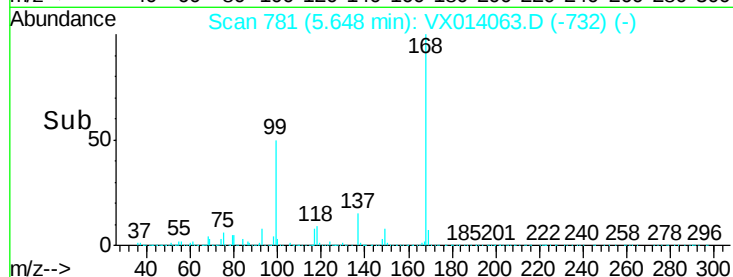
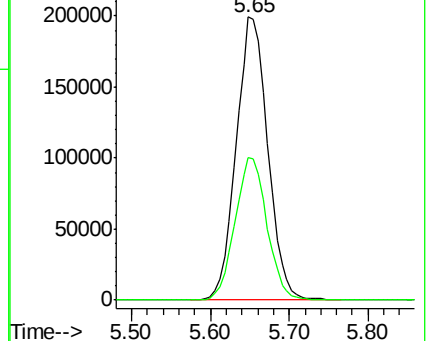
168 100

99 50.1 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.816 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX014063.D

Acq: 17 Dec 2019 19:42

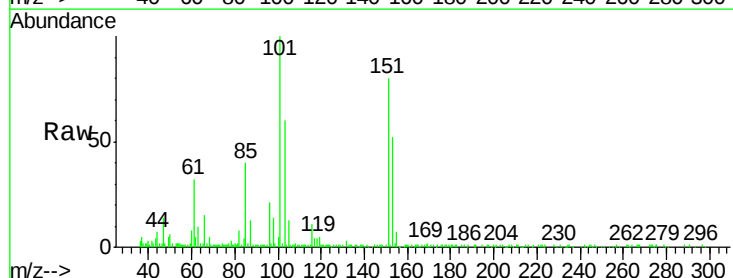
Tgt Ion:101 Resp: 30454

Ion Ratio Lower Upper

101 100

85 45.4 33.7 50.5

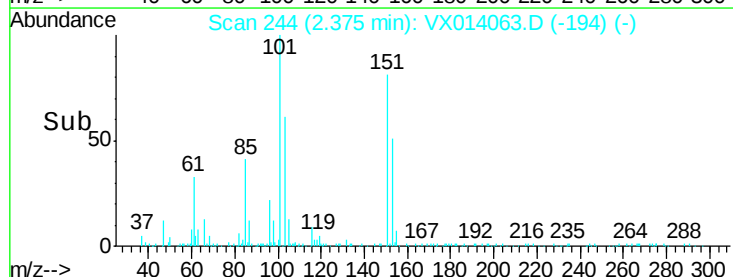
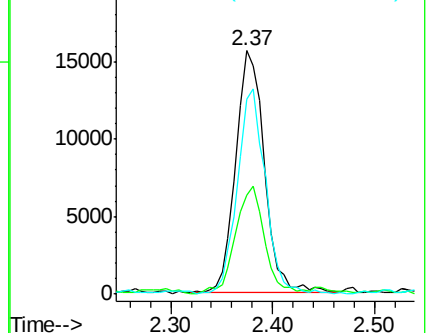
151 82.9 64.5 96.7

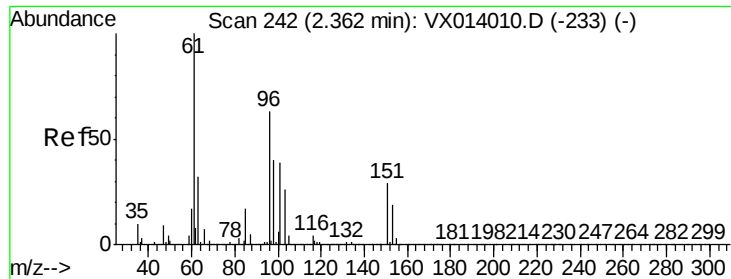


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V





#12

1,1-Dichloroethene

Concen: 1.318 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX014063.D

Acq: 17 Dec 2019 19:42

Instrument :

MSVOA\_X

ClientSampleId :

RE132D1-20191209

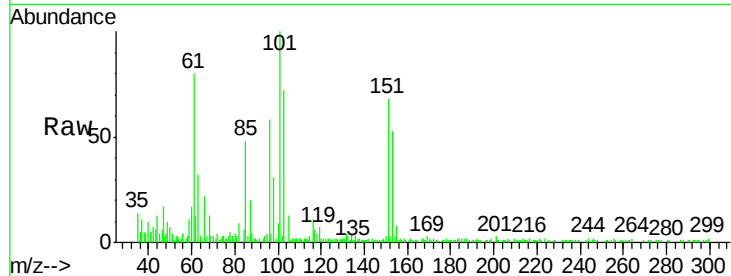
Tot Ion: 96 Resp: 7024

Ion Ratio Lower Upper

96 100

61 136.9 127.9 191.9

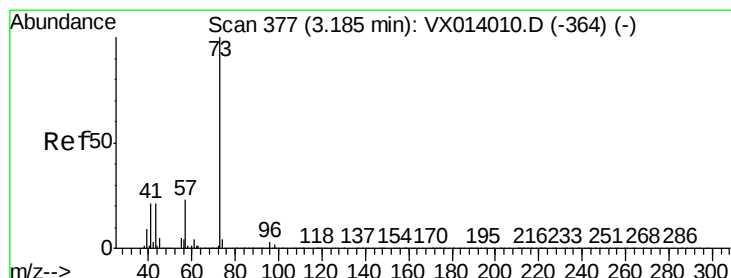
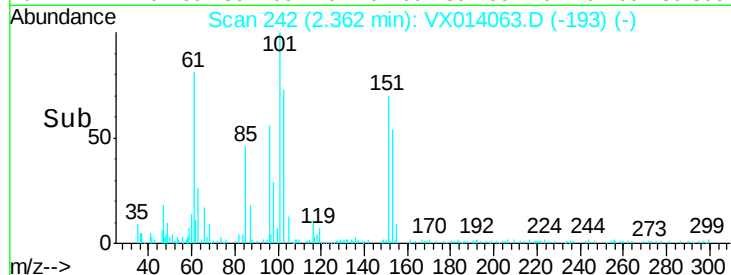
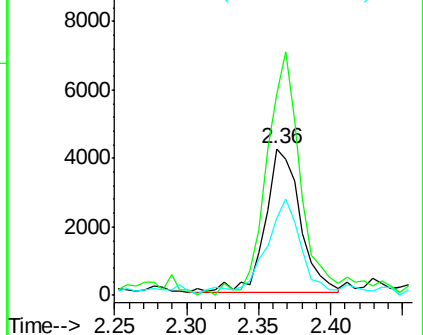
98 51.6 50.5 75.7



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#19

Methyl tert-butyl Ether

Concen: 1.272 ug/l

RT: 3.19 min Scan# 377

Delta R.T. 0.00 min

Lab File: VX014063.D

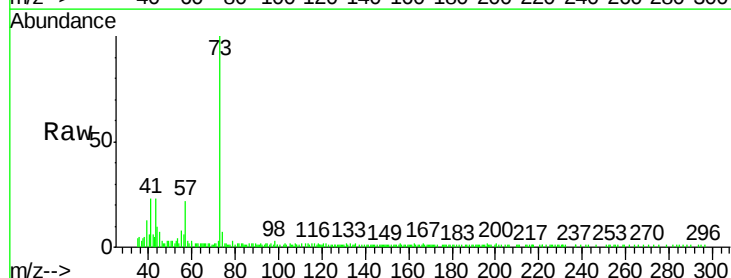
Acq: 17 Dec 2019 19:42

Tgt Ion: 73 Resp: 22274

Ion Ratio Lower Upper

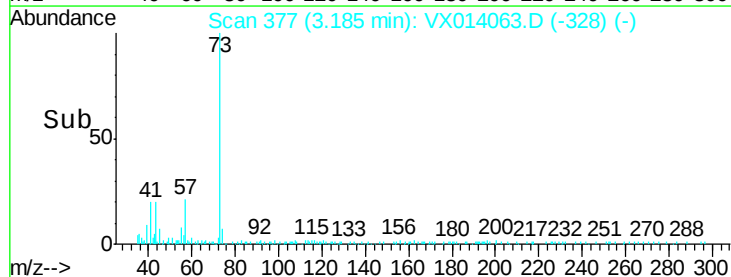
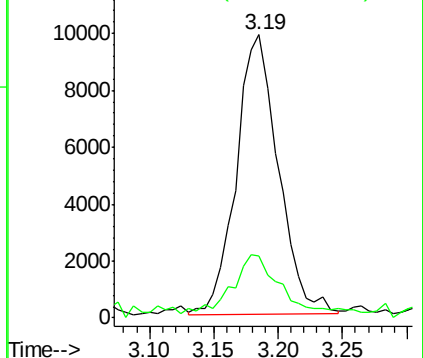
73 100

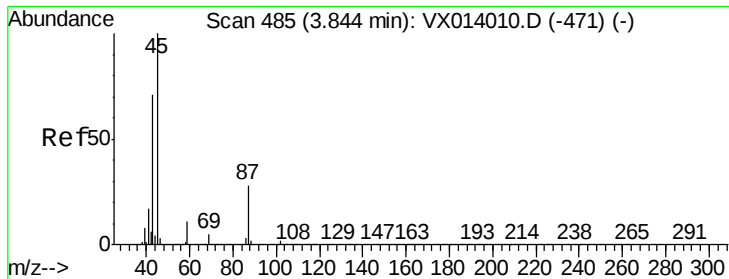
57 19.0 18.8 28.2



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

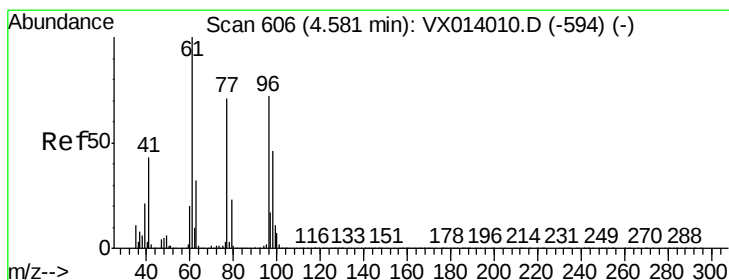
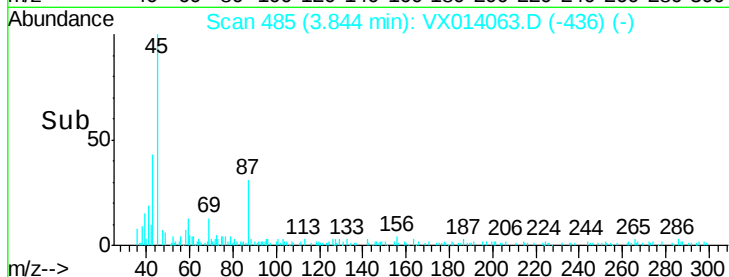
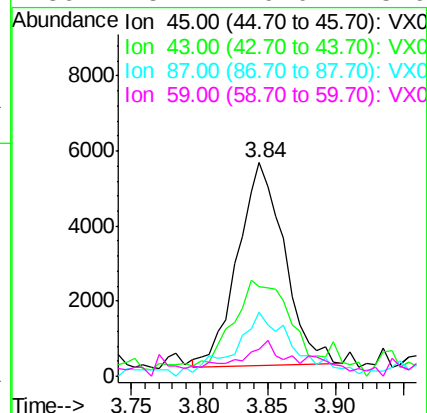
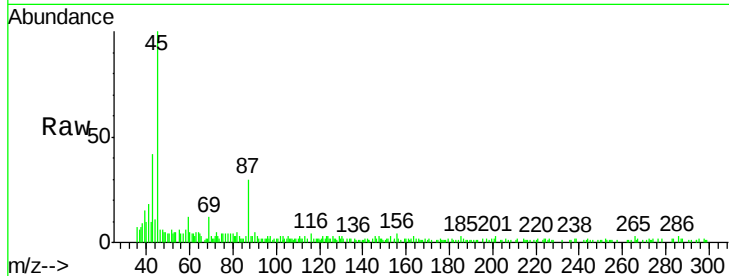




#22  
Diisopropyl ether  
Concen: 0.686 ug/l  
RT: 3.84 min Scan# 485  
Delta R.T. 0.00 min  
Lab File: VX014063.D  
Acq: 17 Dec 2019 19:42

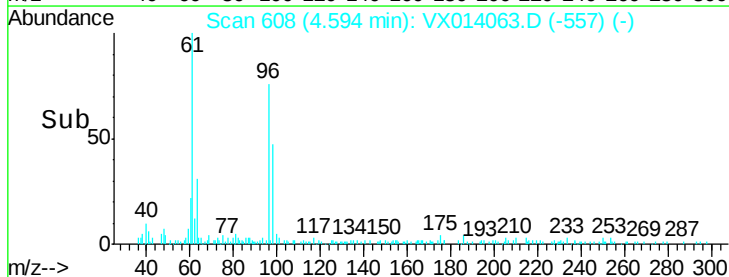
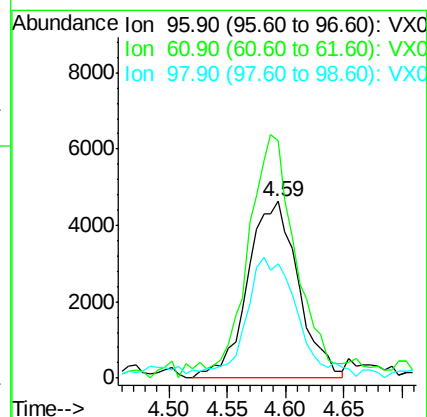
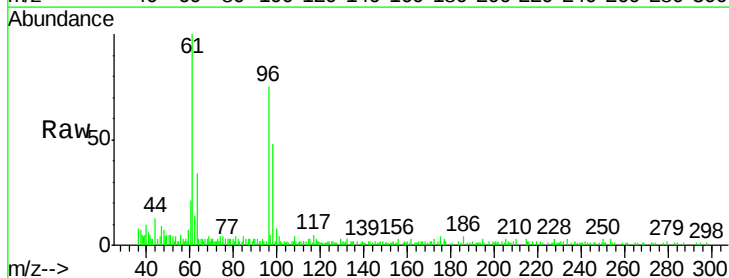
Instrument :  
MSVOA\_X  
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RE132D1-20191209

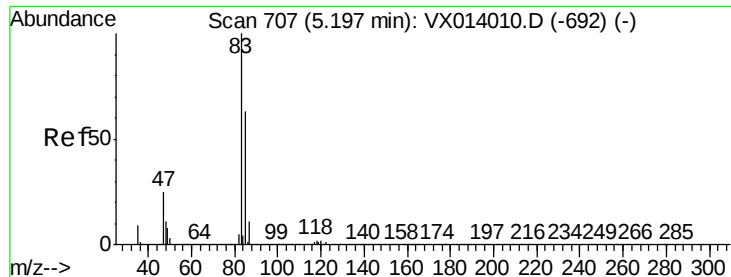
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 45    | Resp: | 13012 |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 39.6  | 57.4  | 86.0# |
| 87       | 29.9  | 21.9  | 32.9  |
| 59       | 8.4   | 9.0   | 13.6# |



#27  
cis-1,2-Dichloroethene  
Concen: 2.108 ug/l  
RT: 4.59 min Scan# 608  
Delta R.T. 0.01 min  
Lab File: VX014063.D  
Acq: 17 Dec 2019 19:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 13998 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 116.9 | 0.0   | 288.4 |
| 98       | 62.4  | 0.0   | 129.6 |

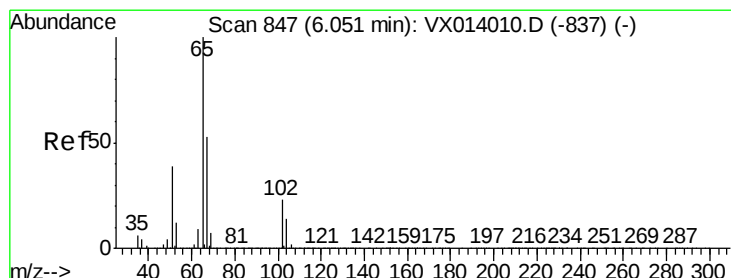
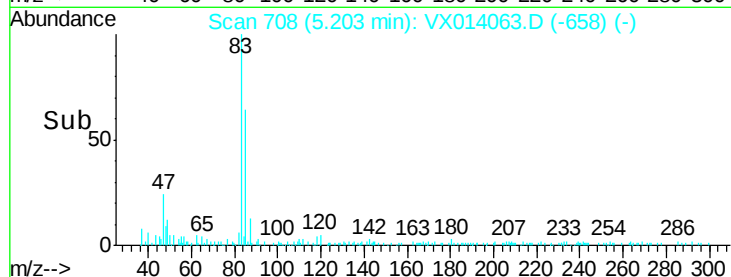
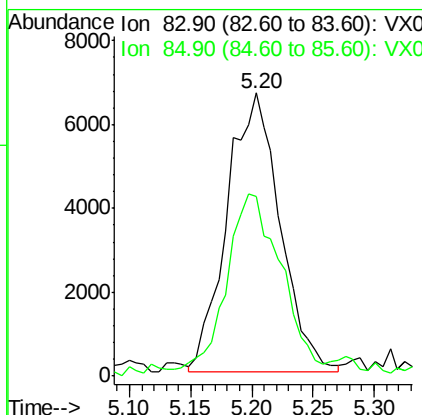
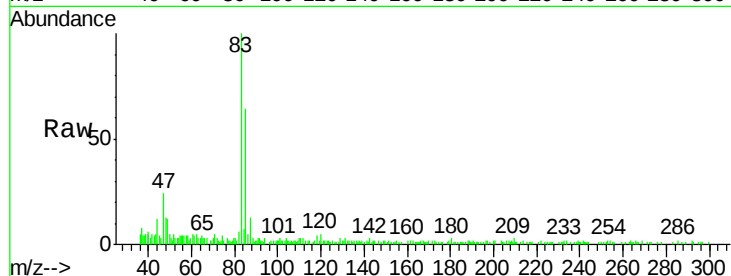




#30  
Chloroform  
Concen: 2.010 ug/l  
RT: 5.20 min Scan# 708  
Delta R.T. 0.01 min  
Lab File: VX014063.D  
Acq: 17 Dec 2019 19:42

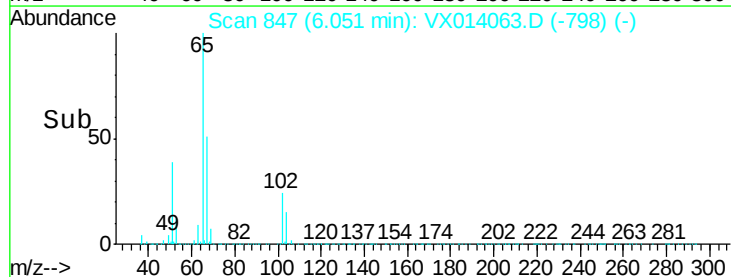
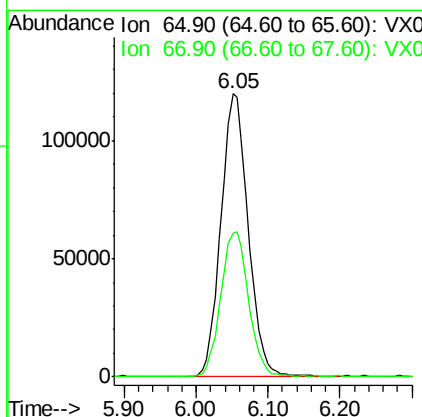
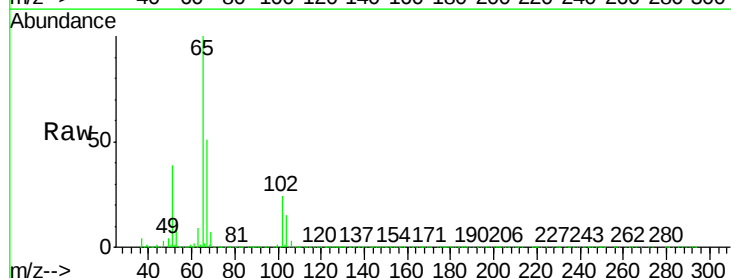
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D1-20191209

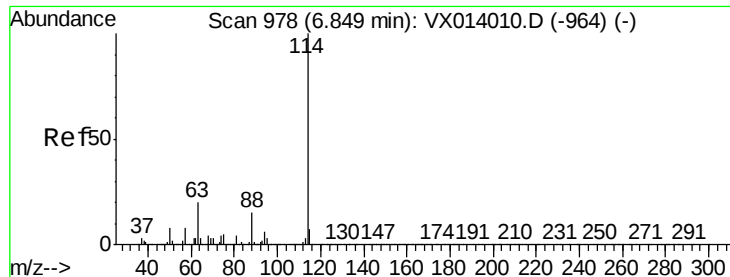
Tot Ion: 83 Resp: 20097  
Ion Ratio Lower Upper  
83 100  
85 61.0 50.8 76.2



#33  
1,2-Dichloroethane-d4  
Concen: 49.944 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. 0.00 min  
Lab File: VX014063.D  
Acq: 17 Dec 2019 19:42

Tgt Ion: 65 Resp: 313545  
Ion Ratio Lower Upper  
65 100  
67 52.1 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014063.D

Acq: 17 Dec 2019 19:42

Instrument :

MSVOA\_X

ClientSampleId :

RE132D1-20191209

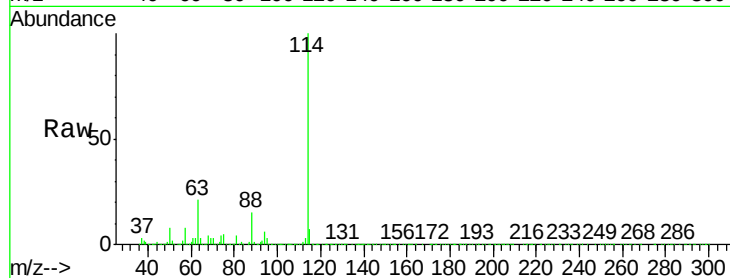
Tot Ion:114 Resp: 863581

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

88 15.3 0.0 30.4



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

500000

400000

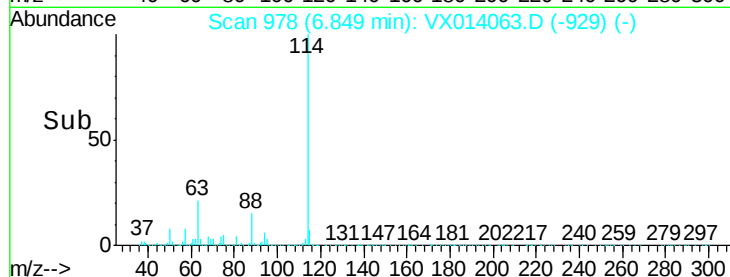
300000

200000

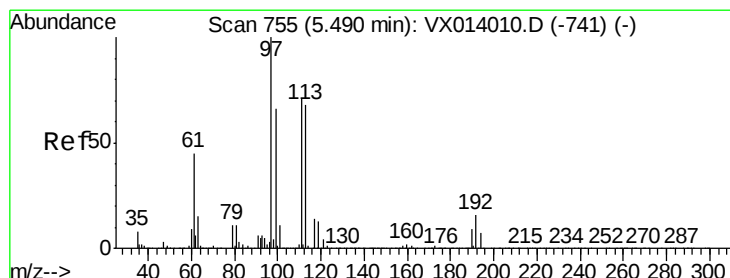
100000

0

6.70 6.80 6.90 7.00



Time-->



#35

Dibromofluoromethane

Concen: 49.024 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014063.D

Acq: 17 Dec 2019 19:42

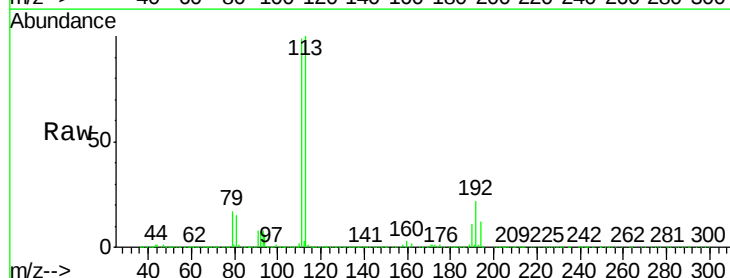
Tgt Ion:113 Resp: 257355

Ion Ratio Lower Upper

113 100

111 103.7 82.0 123.0

192 23.6 19.3 28.9



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

120000

100000

80000

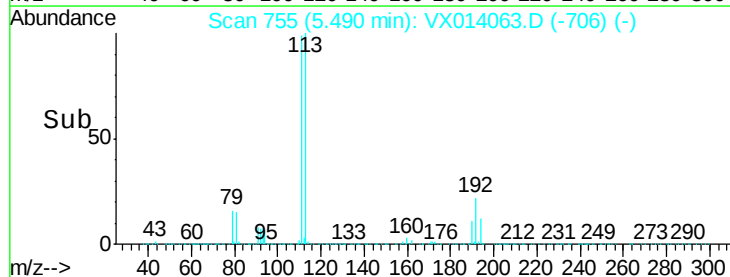
60000

40000

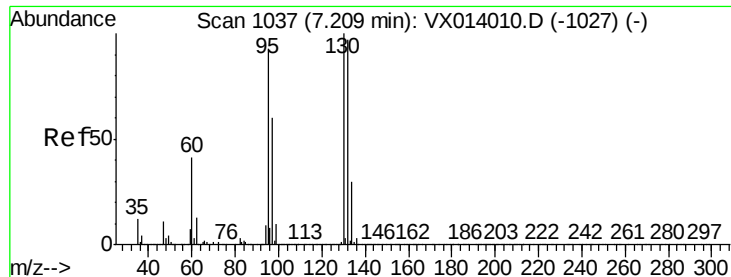
20000

0

5.40 5.50 5.60



Time-->



#44

Trichloroethene

Concen: 109.840 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX014063.D

Acq: 17 Dec 2019 19:42

Instrument :

MSVOA\_X

ClientSampleId :

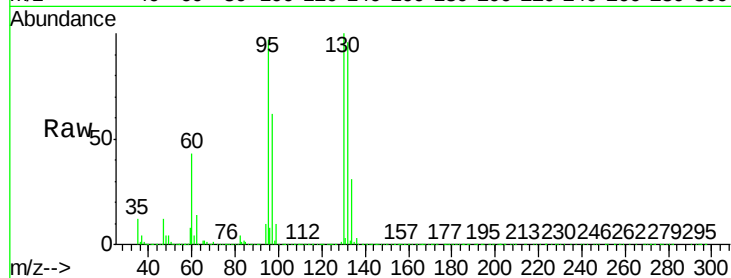
RE132D1-20191209

Tot Ion:130 Resp: 739683

Ion Ratio Lower Upper

130 100

95 96.6 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.20

400000

300000

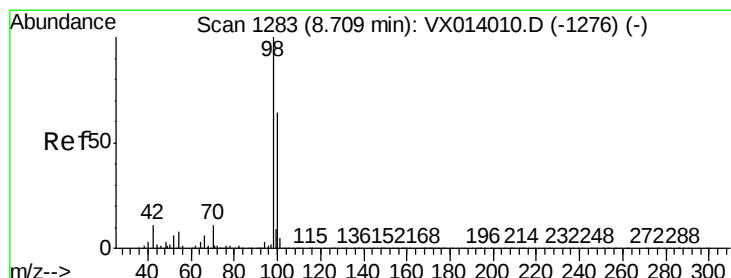
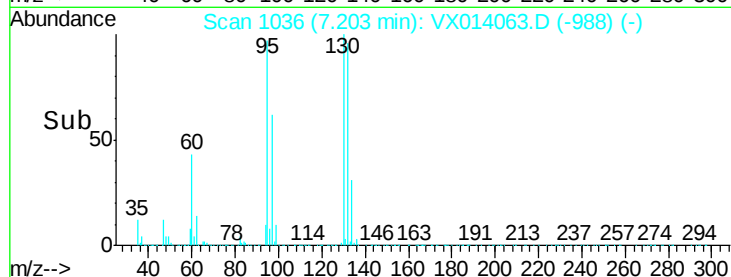
200000

100000

0

Time-->

7.10 7.20 7.30 7.40



#50

Toluene-d8

Concen: 49.452 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014063.D

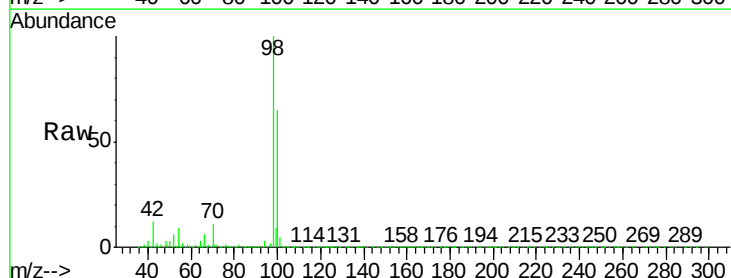
Acq: 17 Dec 2019 19:42

Tgt Ion: 98 Resp: 1010705

Ion Ratio Lower Upper

98 100

100 65.5 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

800000

600000

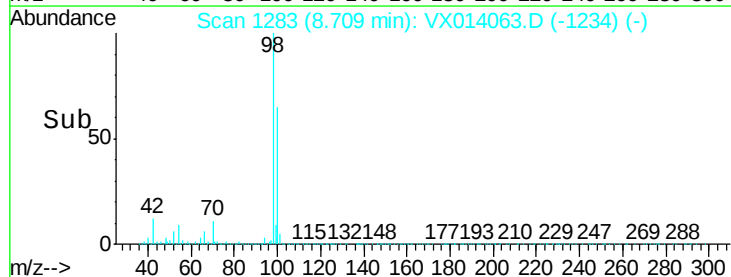
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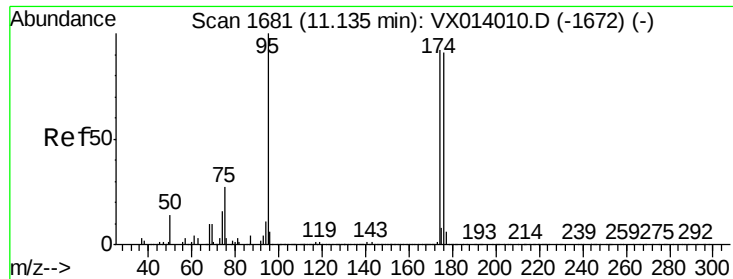
200000

0

Time-->

8.60 8.70 8.80

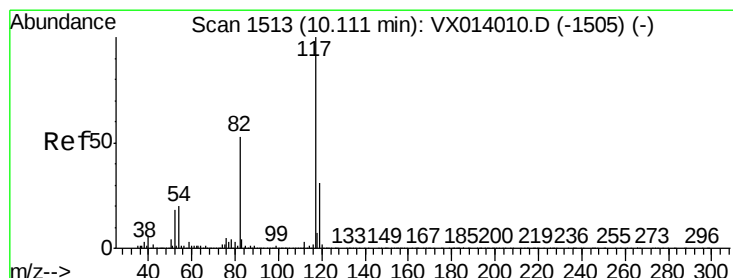
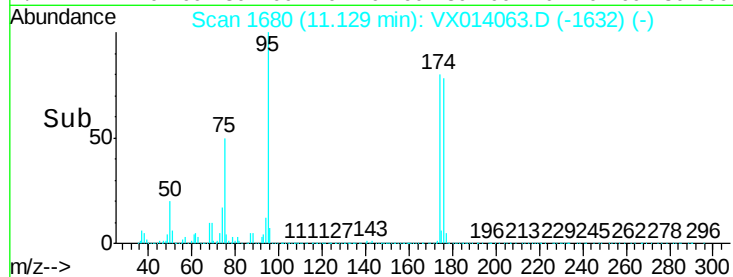
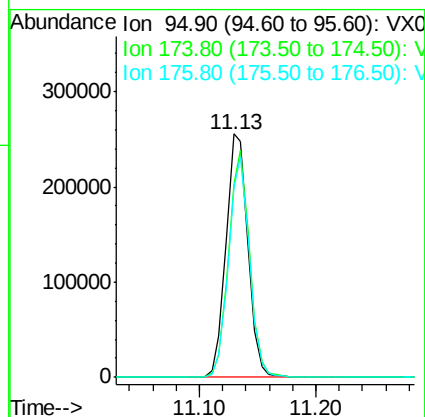
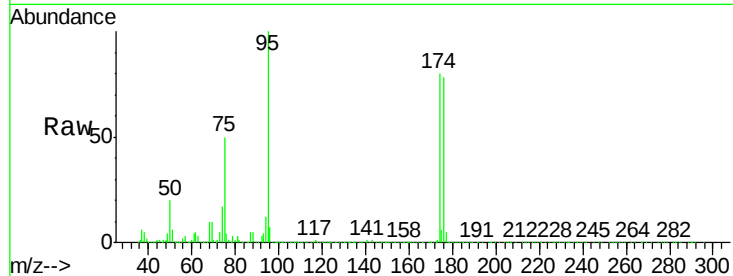




#62  
4-Bromofluorobenzene  
Concen: 44.326 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. -0.01 min  
Lab File: VX014063.D  
Acq: 17 Dec 2019 19:42

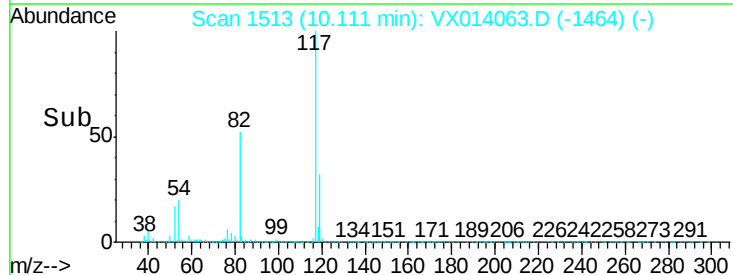
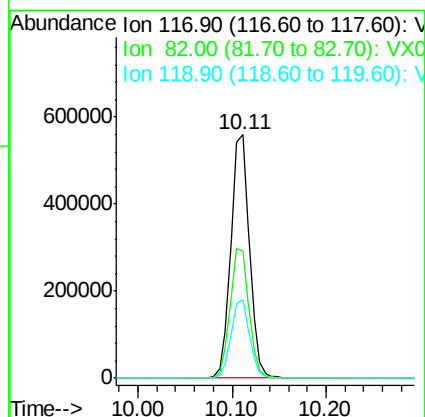
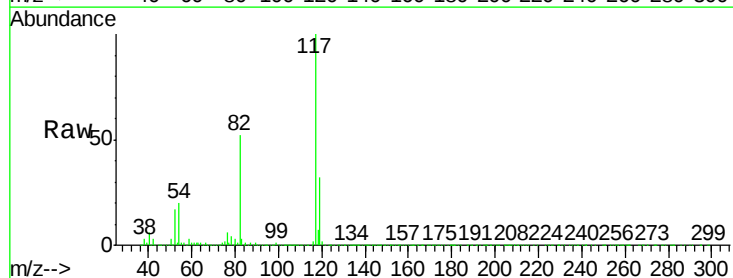
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D1-20191209

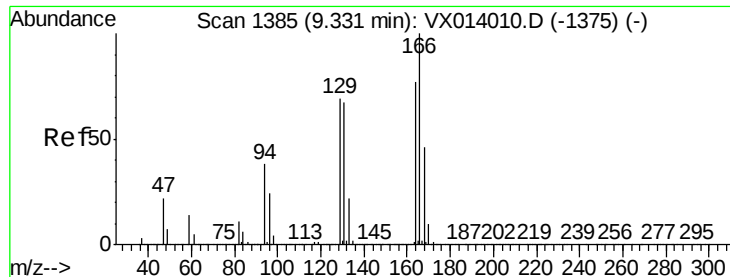
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 89.6  | 0.0   | 175.8 |
| 176     | 86.8  | 0.0   | 173.0 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX014063.D  
Acq: 17 Dec 2019 19:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.4  | 42.2  | 63.4  |
| 119     | 32.1  | 25.1  | 37.7  |





#64

Tetrachloroethene

Concen: 2.923 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX014063.D

Acq: 17 Dec 2019 19:42

Instrument :

MSVOA\_X

ClientSampleId :

RE132D1-20191209

Tot Ion:164 Resp: 19905

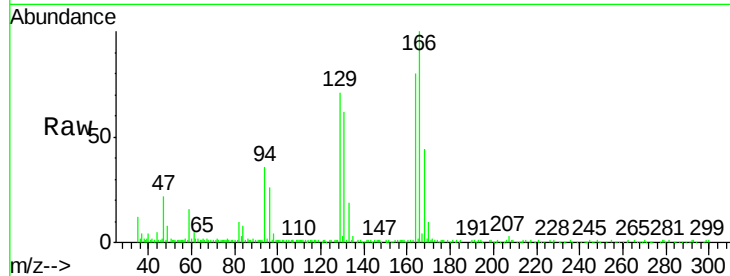
Ion Ratio Lower Upper

164 100

166 125.4 104.0 156.0

129 86.9 72.2 108.4

131 76.7 69.6 104.4

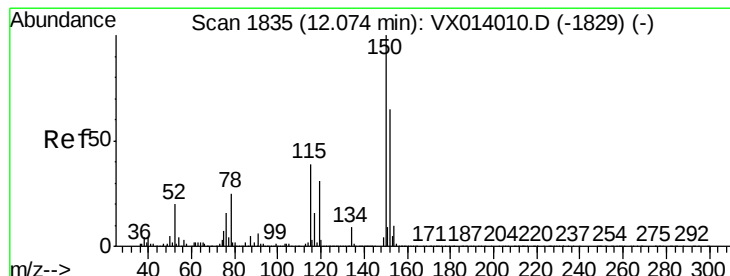
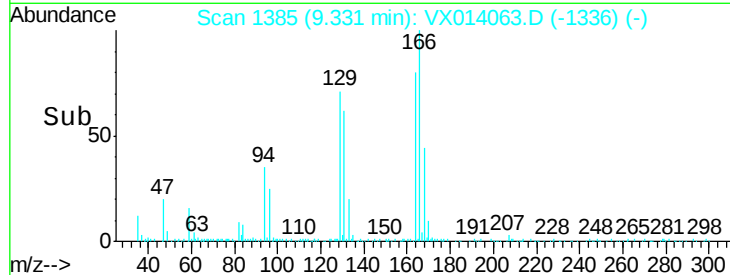
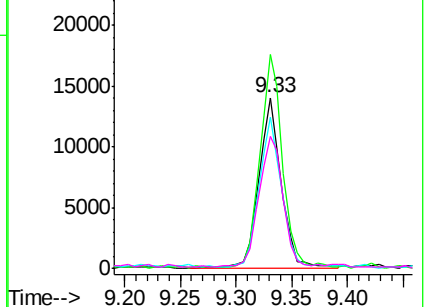


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX014063.D

Acq: 17 Dec 2019 19:42

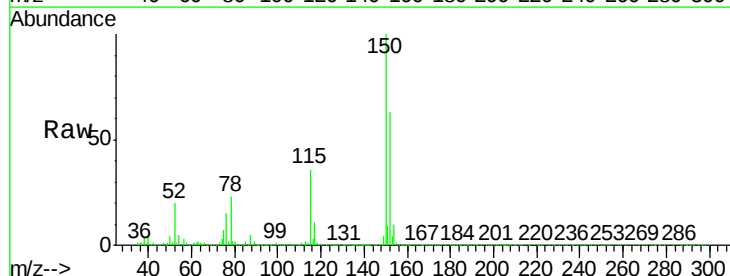
Tgt Ion:152 Resp: 318536

Ion Ratio Lower Upper

152 100

115 57.0 38.3 114.9

150 158.7 0.0 345.4



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

