

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF060619\  
 Data File : VF062876.D  
 Acq On : 6 Jun 2019 12:05  
 Operator : FY/SY  
 Sample : VF0606SBL01  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0606SBL01

Quant Time: Jun 07 01:22:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 31 04:18:30 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.08  | 168  | 812747   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.80  | 114  | 1370449  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.93  | 117  | 1166755  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.63 | 152  | 460804   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 5.06   | 65  | 290204   | 51.64 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.28% |      |
| 35) Dibromofluoromethane    | 4.33   | 113 | 524211   | 50.62 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.24% |      |
| 50) Toluene-d8              | 7.73   | 98  | 1316282  | 50.26 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.52% |      |
| 62) 4-Bromofluorobenzene    | 11.50  | 95  | 481503   | 51.12 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.24% |      |

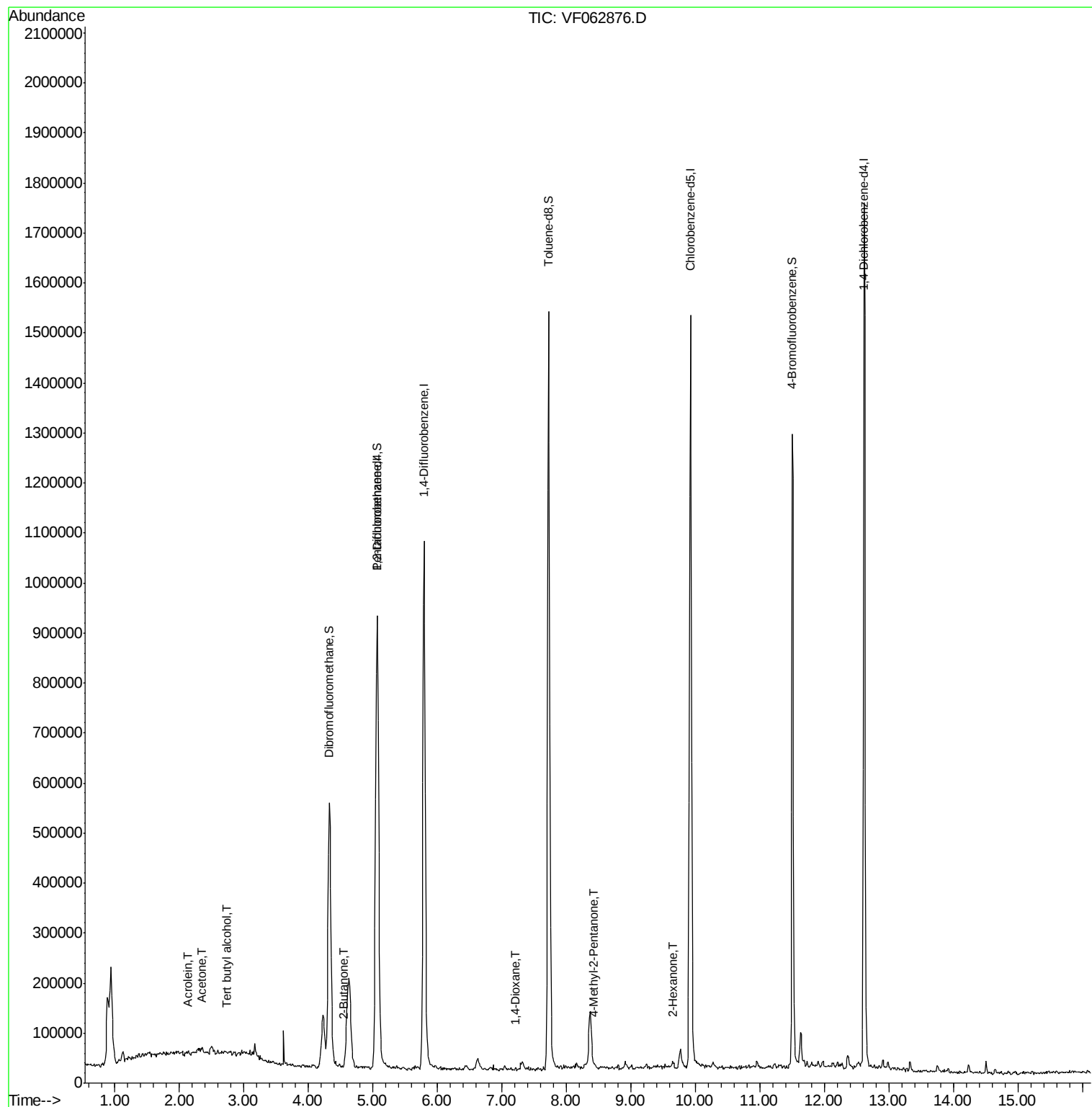
| Target Compounds           | R.T. | QIon | Response | Conc      | Units  | Qvalue |
|----------------------------|------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane | 0.94 | 85   | 228      | Below Cal |        | 92     |
| 11) Tert butyl alcohol     | 2.73 | 59   | 1981     | 5.818     | ug/l # | 40     |
| 13) Acrolein               | 2.13 | 56   | 1526     | 3.140     | ug/l   | 92     |
| 16) Acetone                | 2.37 | 43   | 4616     | 3.588     | ug/l   | 91     |
| 20) Methylene Chloride     | 2.36 | 84   | 3274     | Below Cal | #      | 84     |
| 25) 2-Butanone             | 4.54 | 43   | 3538     | 1.181     | ug/l   | 96     |
| 49) 1,4-Dioxane            | 7.20 | 88   | 745      | 17.214    | ug/l   | 87     |
| 51) 4-Methyl-2-Pentanone   | 8.43 | 43   | 9742     | 2.142     | ug/l # | 77     |
| 59) 2-Hexanone             | 9.65 | 43   | 5835     | 1.800     | ug/l   | 97     |

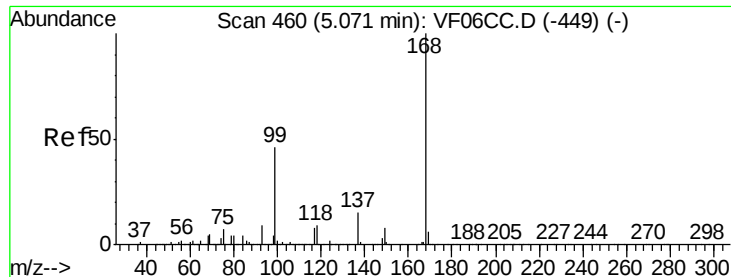
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF060619\  
Data File : VF062876.D  
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Sample : VF0606SBL01  
Misc : 5.00µ/5mL/MSVOA F/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0606SBL01

Quant Time: Jun 07 01:22:58 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
Quant Title : SW846 8260  
QLast Update : Fri May 31 04:18:30 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.00 min

Lab File: VF062876.D

Acq: 6 Jun 2019 12:05

Instrument :

MSVOA\_F

ClientSampleId :

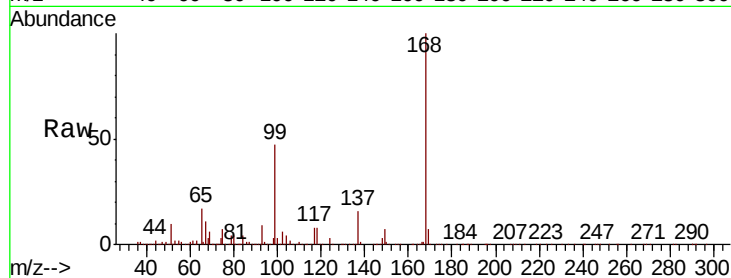
VF0606SBL01

Tot Ion:168 Resp: 812747

Ion Ratio Lower Upper

168 100

99 47.0 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.08

300000

250000

200000

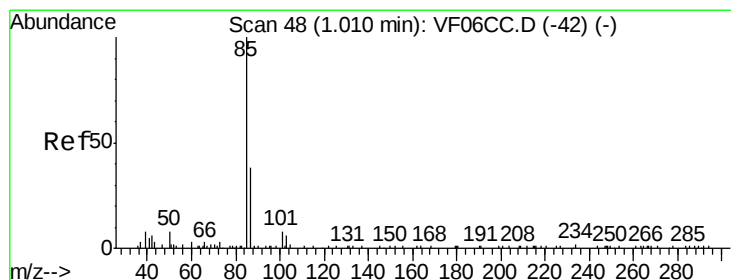
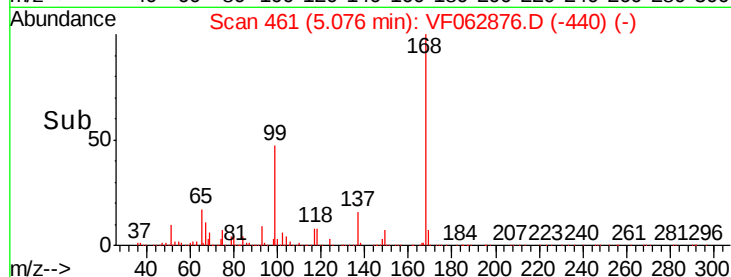
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.94 min Scan# 41

Delta R.T. -0.07 min

Lab File: VF062876.D

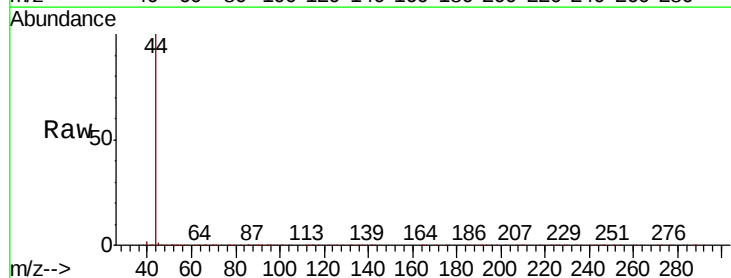
Acq: 6 Jun 2019 12:05

Tgt Ion: 85 Resp: 228

Ion Ratio Lower Upper

85 100

87 30.6 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.94

400

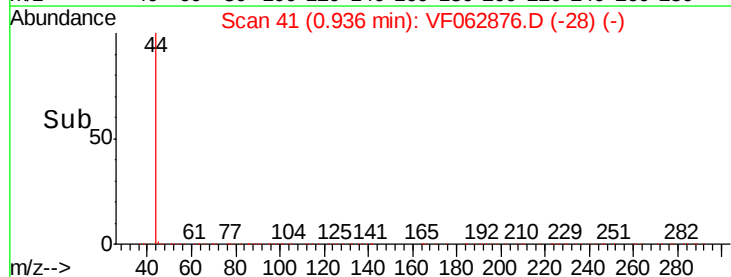
300

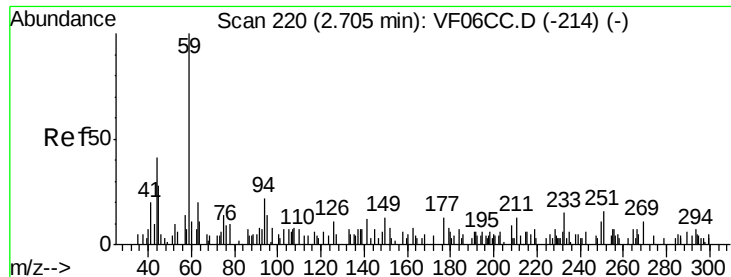
200

100

0

Time-->

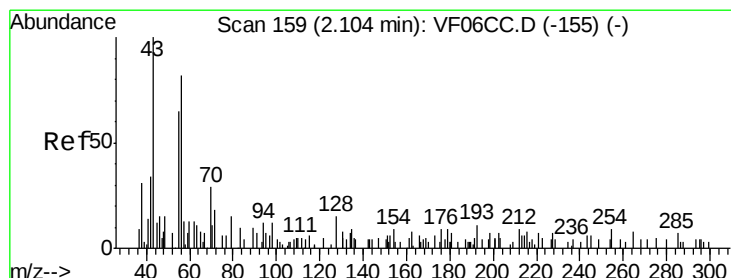
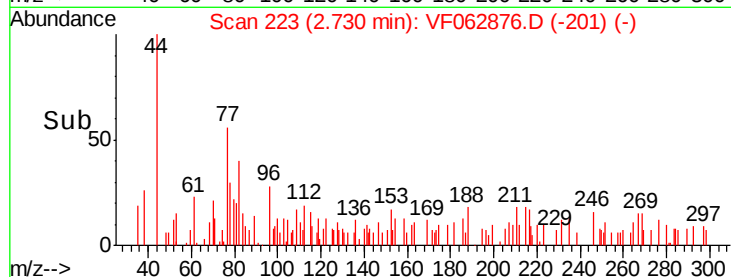
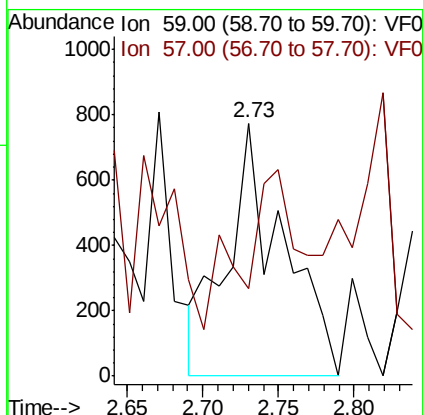
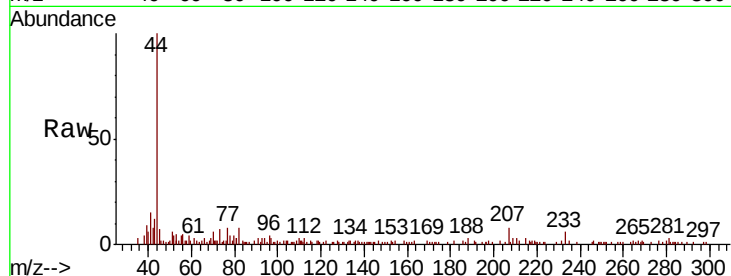




#11  
Tert butvl alcohol  
Concen: 5.818 ug/l  
RT: 2.73 min Scan# 223  
Delta R.T. 0.01 min  
Lab File: VF062876.D  
Acq: 6 Jun 2019 12:05

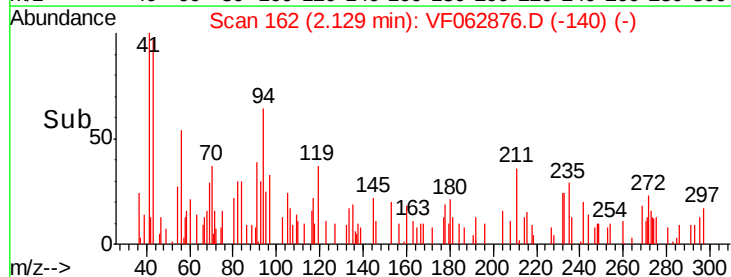
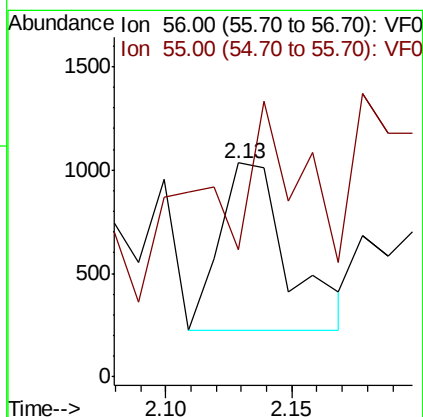
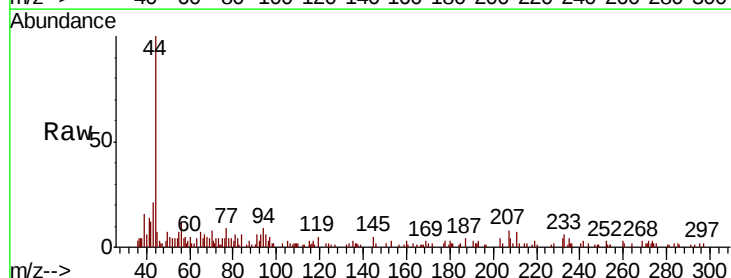
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0606SBL01

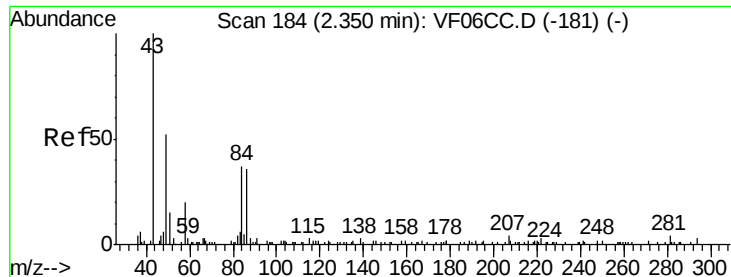
Tot Ion: 59 Resp: 1981  
Ion Ratio Lower Upper  
59 100  
57 34.7 9.2 13.8#



#13  
Acrolein  
Concen: 3.140 ug/l  
RT: 2.13 min Scan# 162  
Delta R.T. 0.01 min  
Lab File: VF062876.D  
Acq: 6 Jun 2019 12:05

Tgt Ion: 56 Resp: 1526  
Ion Ratio Lower Upper  
56 100  
55 59.7 52.9 79.3

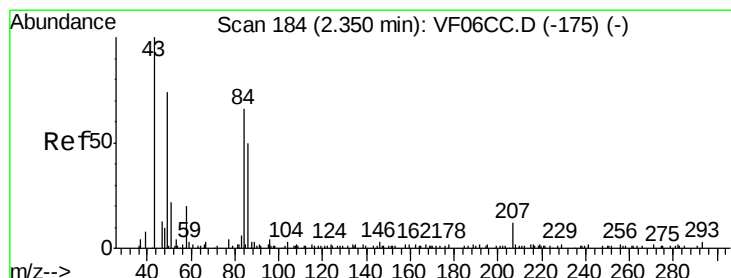
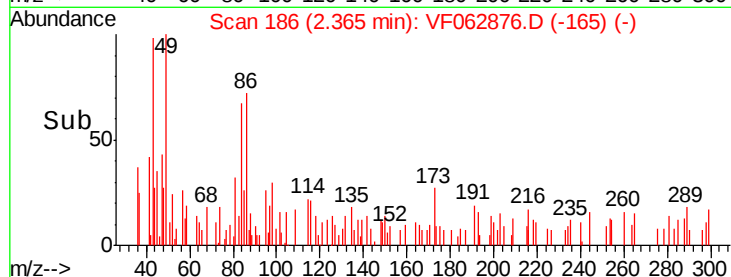
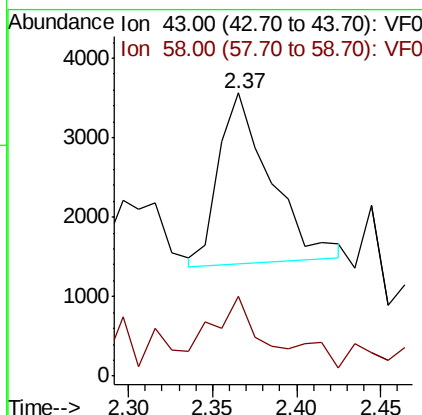
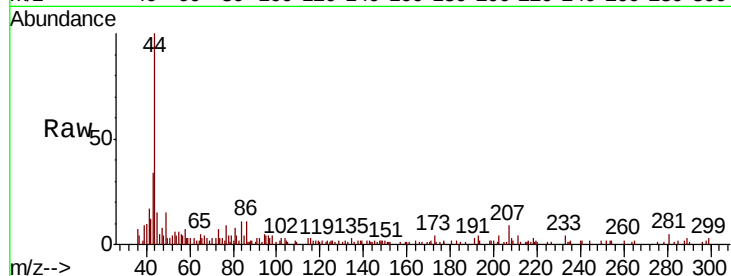




#16  
Acetone  
Concen: 3.588 ug/l  
RT: 2.37 min Scan# 186  
Delta R.T. 0.00 min  
Lab File: VF062876.D  
Acq: 6 Jun 2019 12:05

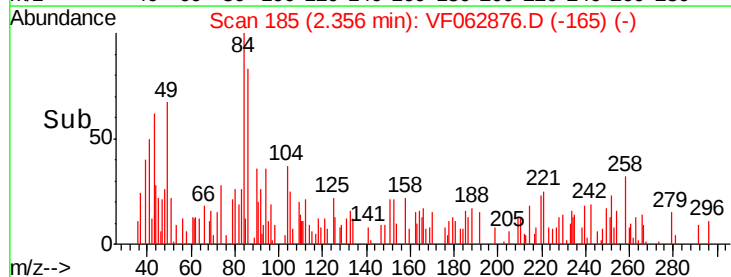
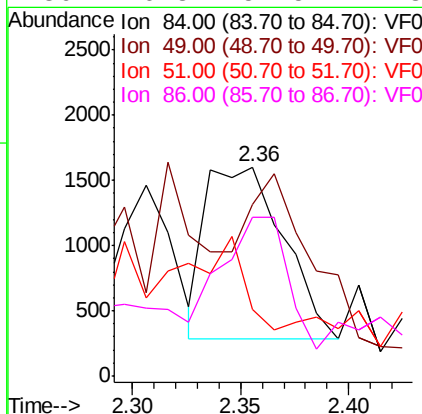
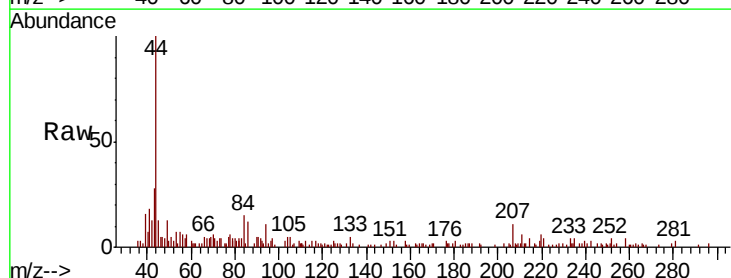
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0606SBL01

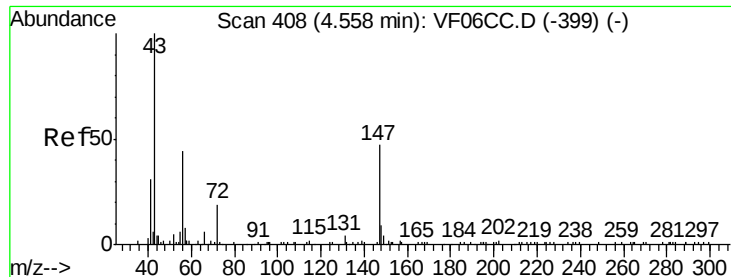
Tot Ion: 43 Resp: 4616  
Ion Ratio Lower Upper  
43 100  
58 28.1 19.0 28.4



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.36 min Scan# 185  
Delta R.T. -0.01 min  
Lab File: VF062876.D  
Acq: 6 Jun 2019 12:05

Tgt Ion: 84 Resp: 3274  
Ion Ratio Lower Upper  
84 100  
49 82.4 82.6 123.8#  
51 31.6 25.0 37.4  
86 76.3 51.5 77.3

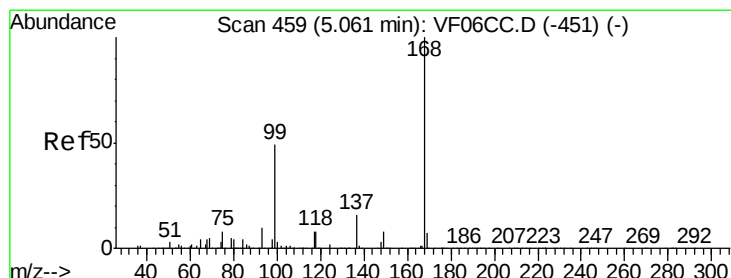
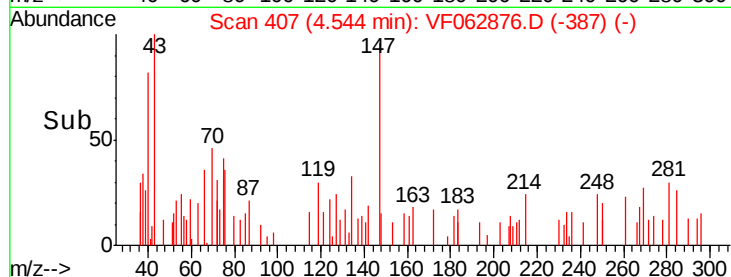
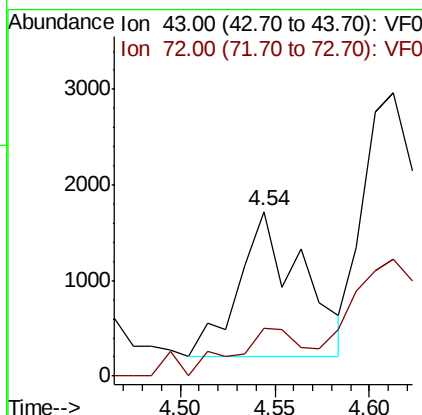
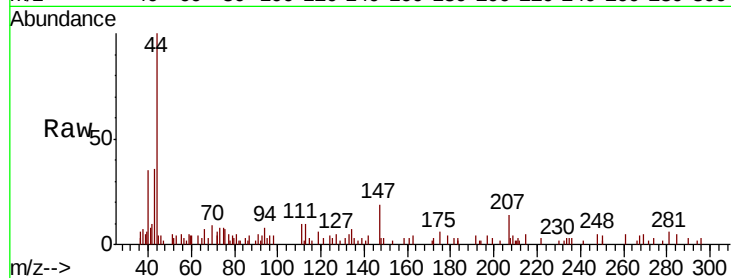




#25  
2-Butanone  
Concen: 1.181 ug/l  
RT: 4.54 min Scan# 407  
Delta R.T. -0.01 min  
Lab File: VF062876.D  
Acq: 6 Jun 2019 12:05

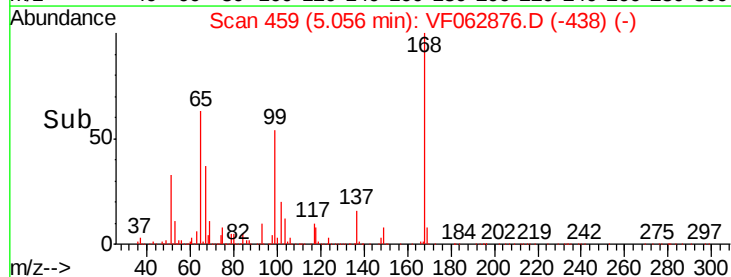
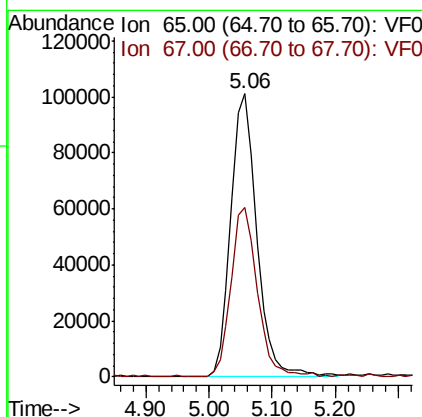
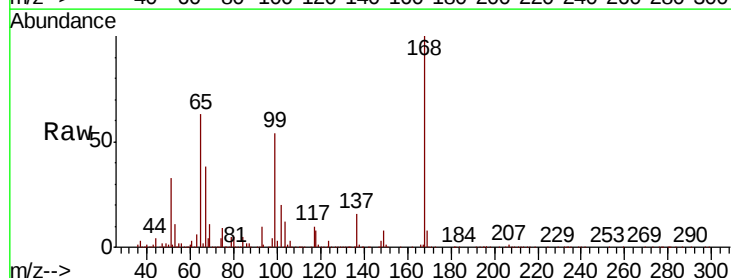
Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0606SBL01

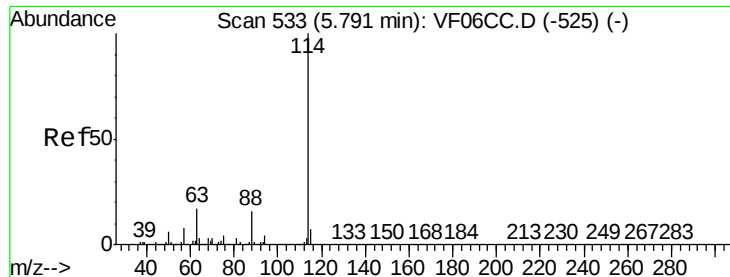
Tot Ion: 43 Resp: 3538  
Ion Ratio Lower Upper  
43 100  
72 29.0 21.4 32.0



#33  
1,2-Dichloroethane-d4  
Concen: 51.636 ug/l  
RT: 5.06 min Scan# 459  
Delta R.T. 0.00 min  
Lab File: VF062876.D  
Acq: 6 Jun 2019 12:05

Tgt Ion: 65 Resp: 290204  
Ion Ratio Lower Upper  
65 100  
67 59.9 0.0 121.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.80 min Scan# 534

Delta R.T. -0.01 min

Lab File: VF062876.D

Acq: 6 Jun 2019 12:05

Instrument :

MSVOA\_F

ClientSampleId :

VF0606SBL01

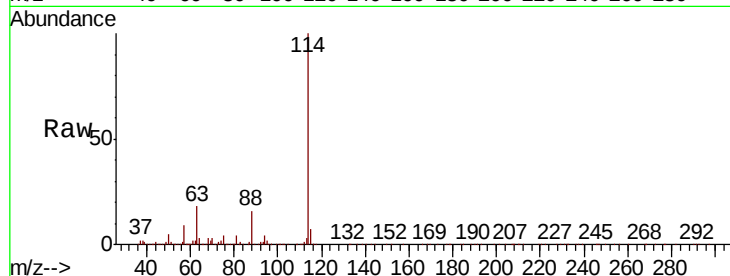
Tot Ion:114 Resp: 1370449

Ion Ratio Lower Upper

114 100

63 17.7 0.0 34.2

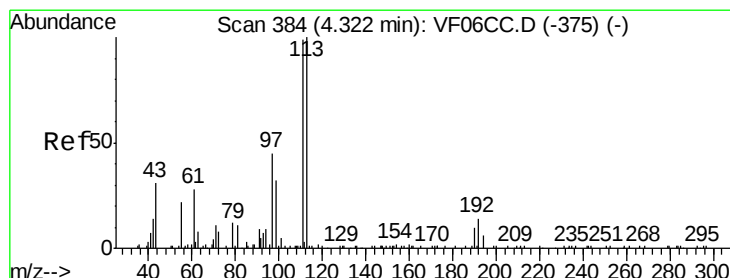
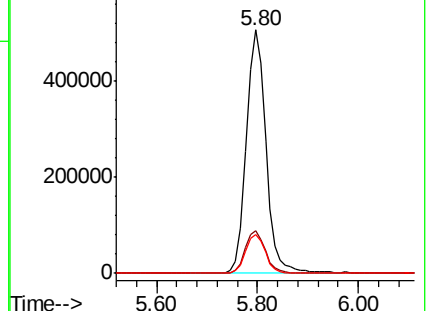
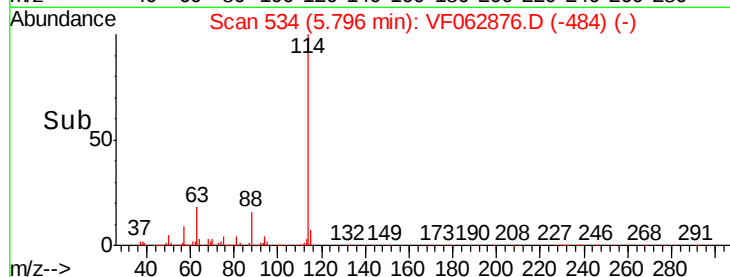
88 15.9 0.0 31.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 50.620 ug/l

RT: 4.33 min Scan# 385

Delta R.T. -0.01 min

Lab File: VF062876.D

Acq: 6 Jun 2019 12:05

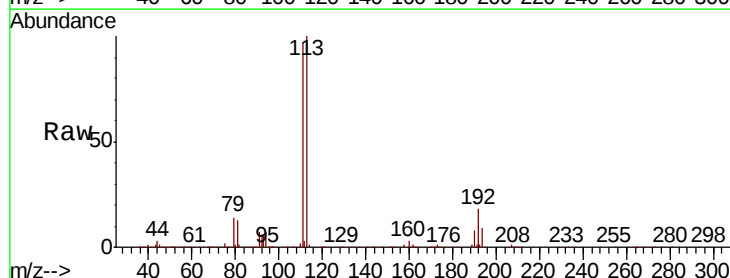
Tgt Ion:113 Resp: 524211

Ion Ratio Lower Upper

113 100

111 97.4 81.9 122.9

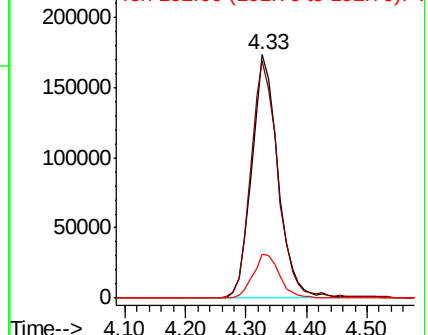
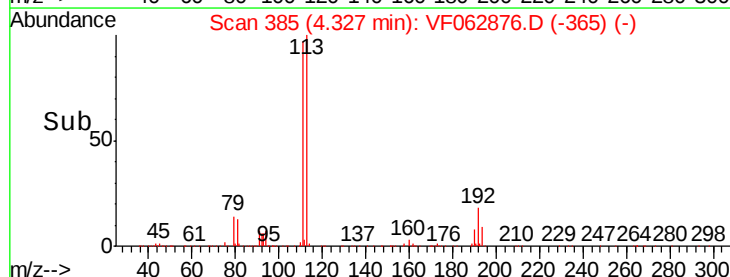
192 18.2 15.1 22.7

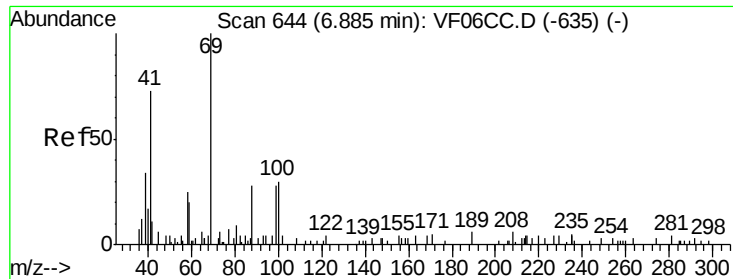


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

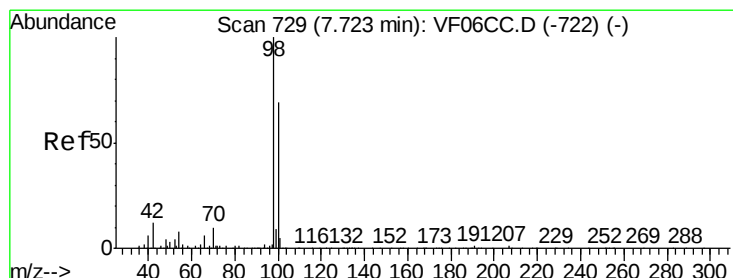
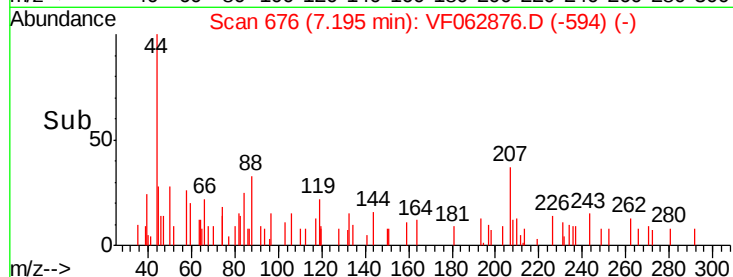
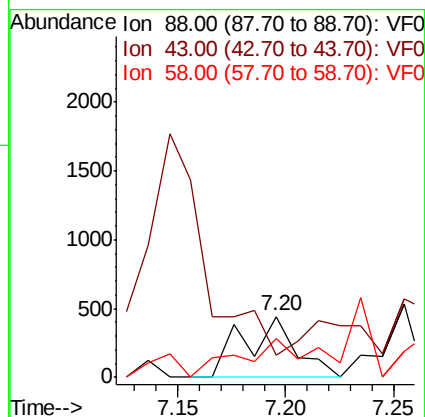
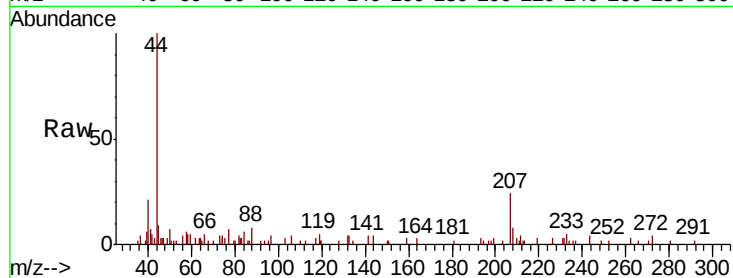




#49  
1,4-Dioxane  
Concen: 17.214 ug/l  
RT: 7.20 min Scan# 676  
Delta R.T. 0.31 min  
Lab File: VF062876.D  
Acq: 6 Jun 2019 12:05

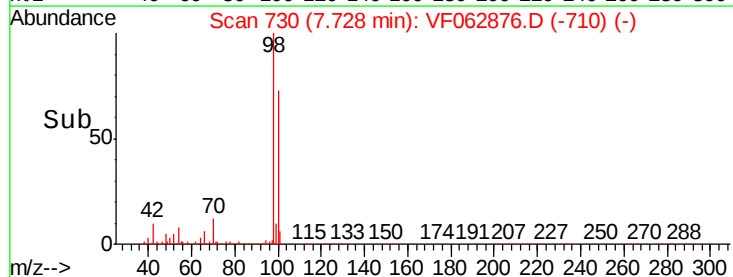
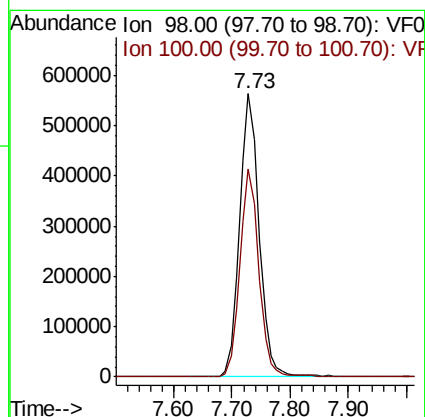
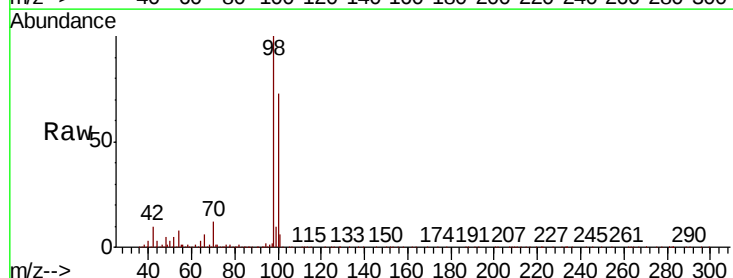
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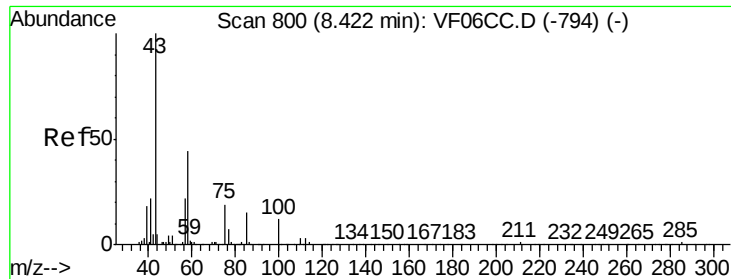
Tot Ion: 88 Resp: 745  
Ion Ratio Lower Upper  
88 100  
43 37.0 34.8 52.2  
58 62.8 59.9 89.9



#50  
Toluene-d8  
Concen: 50.264 ug/l  
RT: 7.73 min Scan# 730  
Delta R.T. -0.01 min  
Lab File: VF062876.D  
Acq: 6 Jun 2019 12:05

Tgt Ion: 98 Resp: 1316282  
Ion Ratio Lower Upper  
98 100  
100 73.3 59.8 89.8

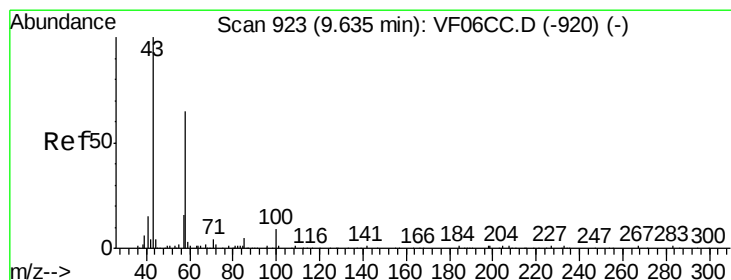
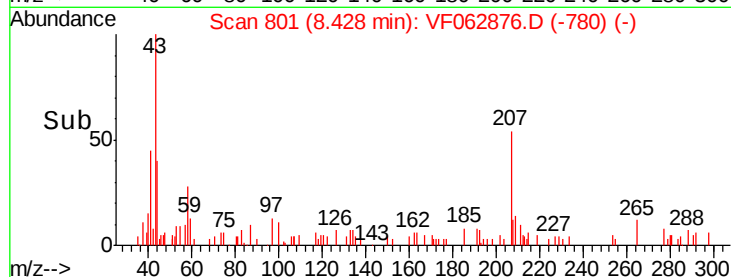
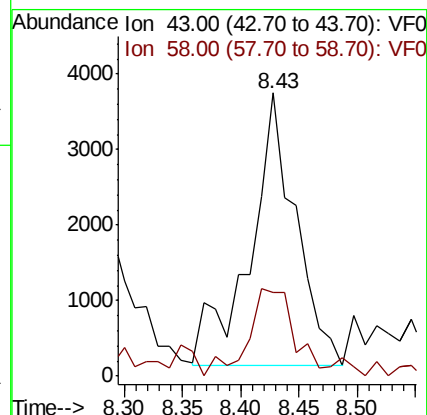
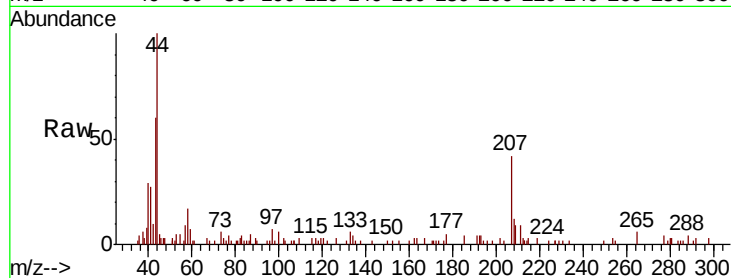




#51  
 4-Methyl-2-Pentanone  
 Concen: 2.142 ug/l  
 RT: 8.43 min Scan# 801  
 Delta R.T. 0.00 min  
 Lab File: VF062876.D  
 Acq: 6 Jun 2019 12:05

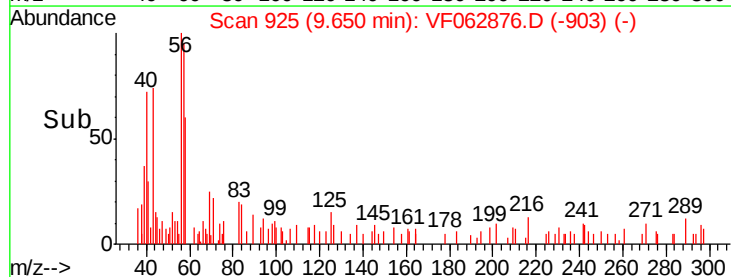
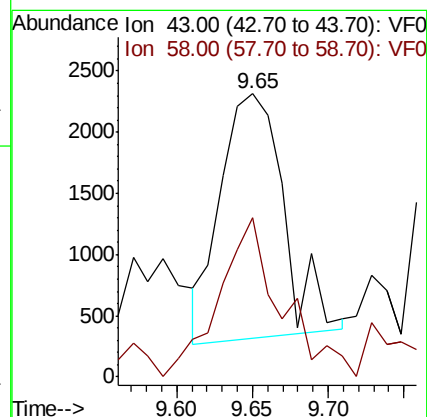
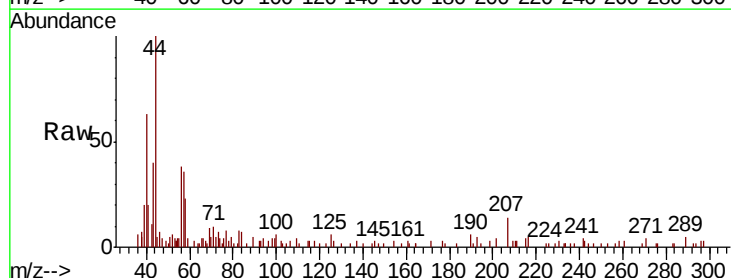
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VF0606SBL01

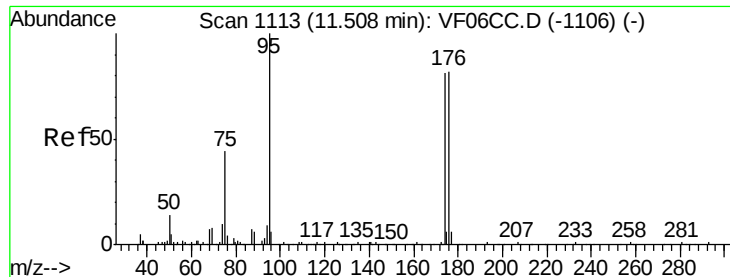
Tot Ion: 43 Resp: 9742  
 Ion Ratio Lower Upper  
 43 100  
 58 29.4 35.5 53.3#



#59  
 2-Hexanone  
 Concen: 1.800 ug/l  
 RT: 9.65 min Scan# 925  
 Delta R.T. 0.01 min  
 Lab File: VF062876.D  
 Acq: 6 Jun 2019 12:05

Tgt Ion: 43 Resp: 5835  
 Ion Ratio Lower Upper  
 43 100  
 58 56.3 29.3 87.9





#62

4-Bromofluorobenzene

Concen: 51.115 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF062876.D

Acq: 6 Jun 2019 12:05

Instrument :

MSVOA\_F

ClientSampleId :

VF0606SBL01

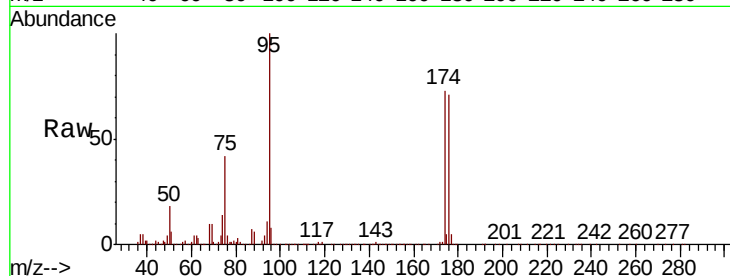
Tot Ion: 95 Resp: 481503

Ion Ratio Lower Upper

95 100

174 73.2 0.0 170.6

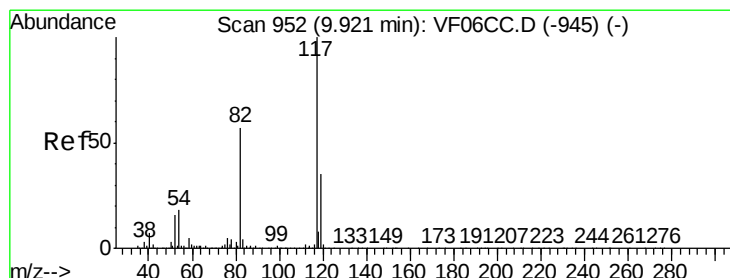
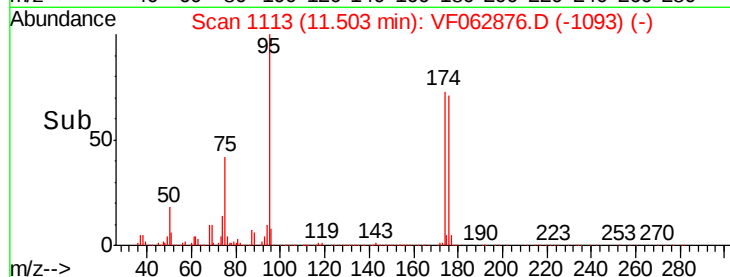
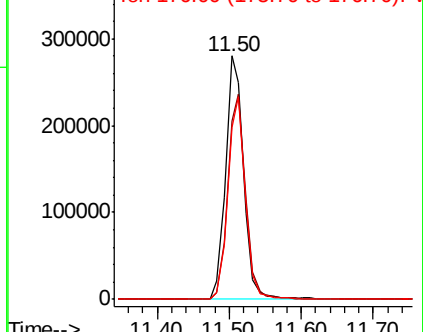
176 70.7 0.0 170.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.93 min Scan# 953

Delta R.T. -0.01 min

Lab File: VF062876.D

Acq: 6 Jun 2019 12:05

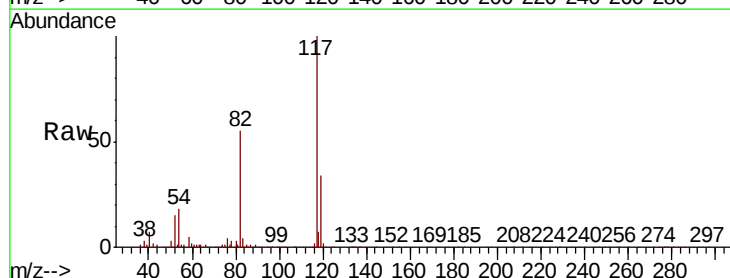
Tgt Ion: 117 Resp: 1166755

Ion Ratio Lower Upper

117 100

82 54.6 42.4 63.6

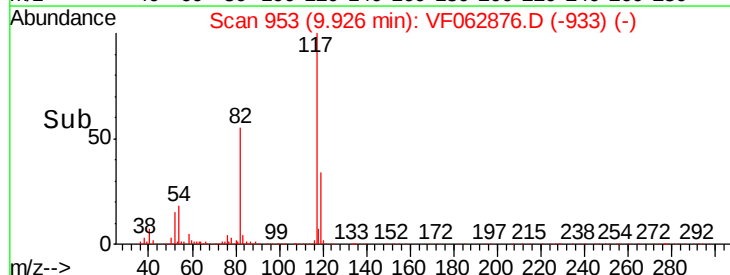
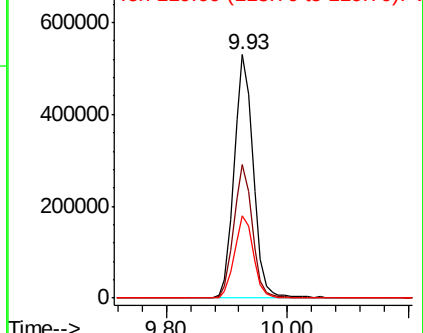
119 33.9 27.1 40.7

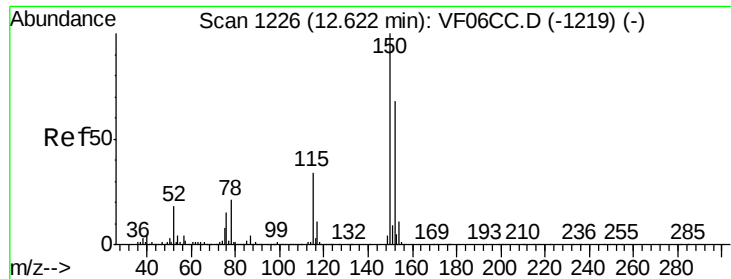


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



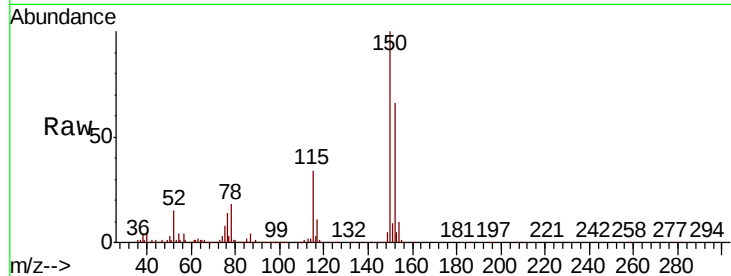


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.63 min Scan# 1227  
Delta R.T. 0.00 min  
Lab File: VF062876.D  
Acq: 6 Jun 2019 12:05

Instrument :  
MSVOA\_F  
ClientSampleId :  
VF0606SBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 52.4  | 24.6  | 74.0  |
| 150     | 152.0 | 0.0   | 290.6 |



Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

