

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF082018\  
 Data File : VF060016.D  
 Acq On : 20 Aug 2018 21:43  
 Operator : VA/AP  
 Sample : J4553-01  
 Misc : 4.72g/5mL/MSVOA F/SOIL  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 EPE-P-9(20-22)

Quant Time: Aug 21 04:29:31 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F081718S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 18 01:11:02 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.05  | 168  | 185344   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.77  | 114  | 293934   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 240875   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.64 | 152  | 134704   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.03  | 65   | 151856   | 42.45 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 84.90% |          |
| 35) Dibromofluoromethane    | 4.30  | 113  | 136147   | 45.32 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 90.64% |          |
| 50) Toluene-d8              | 7.72  | 98   | 323321   | 48.40 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 96.80% |          |
| 62) 4-Bromofluorobenzene    | 11.51 | 95   | 122296   | 29.83 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 59.66% |          |

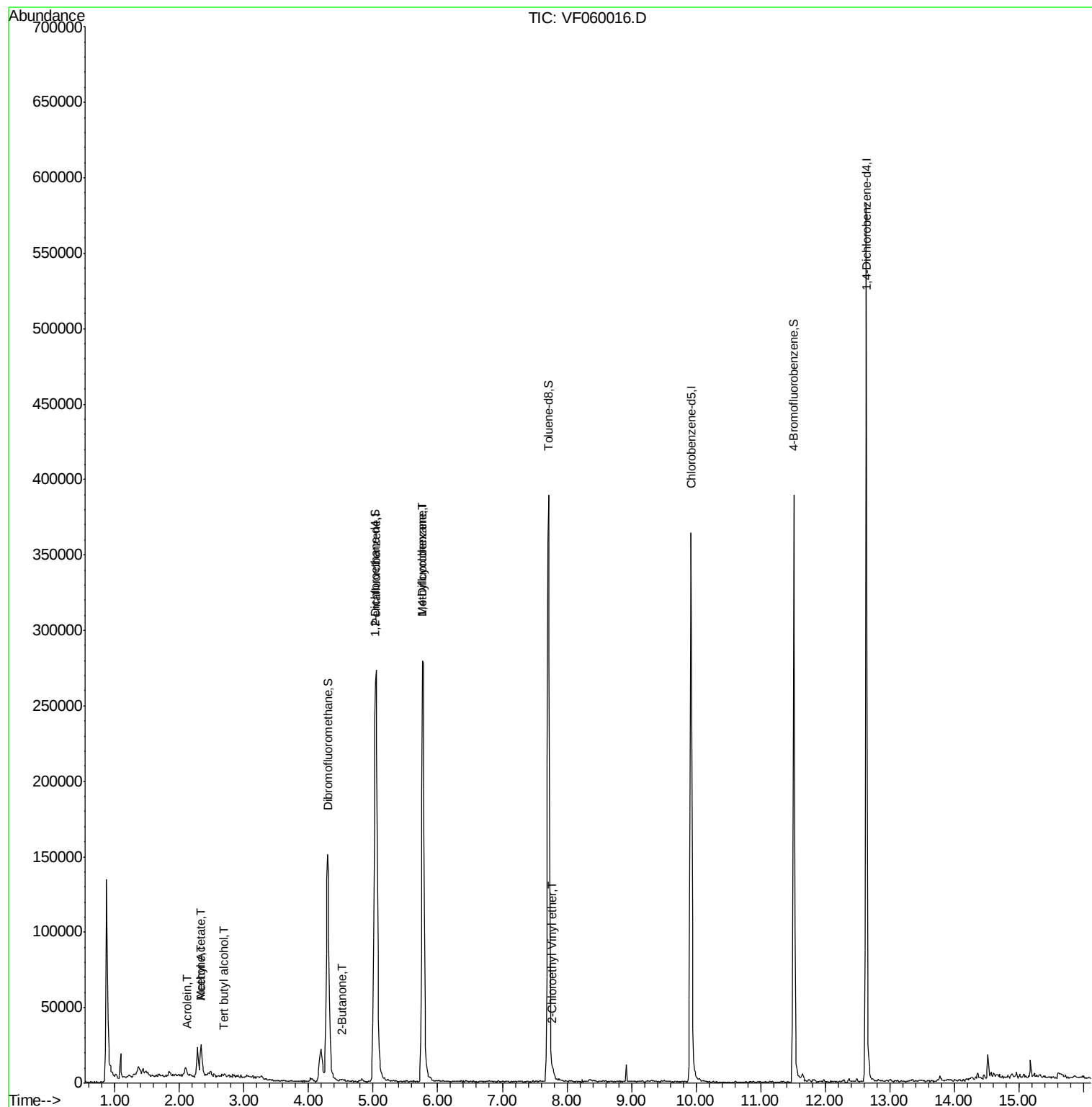
| Target Compounds              | R.T. | QIon | Response | Conc      | Units  | Qvalue |
|-------------------------------|------|------|----------|-----------|--------|--------|
| 3) Chloromethane              | 1.08 | 50   | 1029     | Below Cal |        | 90     |
| 5) Bromomethane               | 1.32 | 94   | 665      | Below Cal | #      | 66     |
| 11) Tert butyl alcohol        | 2.69 | 59   | 878      | 4.21      | ug/l # | 76     |
| 13) Acrolein                  | 2.13 | 56   | 157      | 13.95     | ug/l   | 94     |
| 16) Acetone                   | 2.33 | 43   | 33029    | 23.25     | ug/l   | 97     |
| 18) Methyl Acetate            | 2.33 | 43   | 32291    | 15.57     | ug/l # | 63     |
| 20) Methylene Chloride        | 2.28 | 84   | 7308     | Below Cal |        | 95     |
| 25) 2-Butanone                | 4.52 | 43   | 1775     | 2.05      | ug/l # | 63     |
| 39) Methylcyclohexane         | 5.76 | 83   | 4541     | 1.81      | ug/l # | 40     |
| 58) 2-Chloroethyl Vinyl ether | 7.79 | 63   | 484      | 2.93      | ug/l   | 100    |

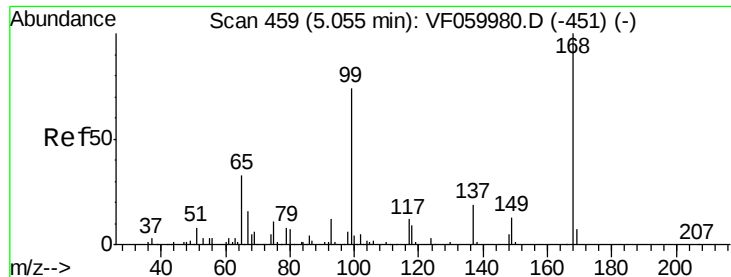
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Aug 18 01:11:02 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF060016.D

Acq: 20 Aug 2018 21:43

Instrument :

MSVOA\_F

ClientSampleId :

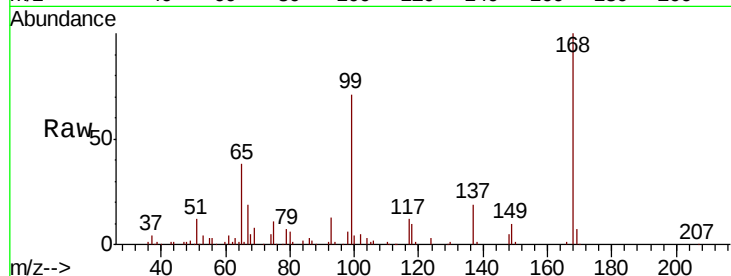
EPE-P-9(20-22)

Tot Ion:168 Resp: 185344

Ion Ratio Lower Upper

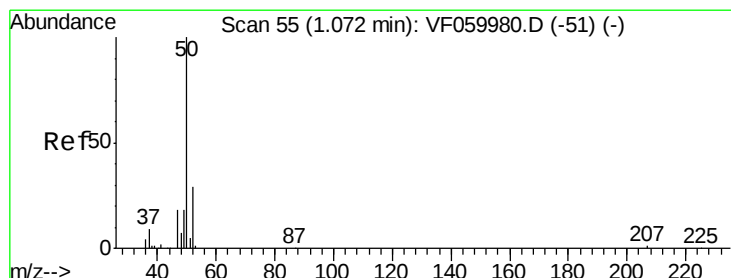
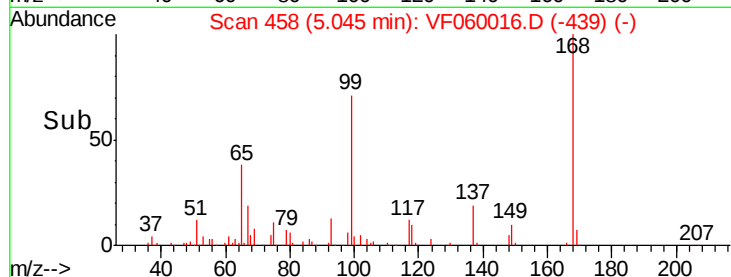
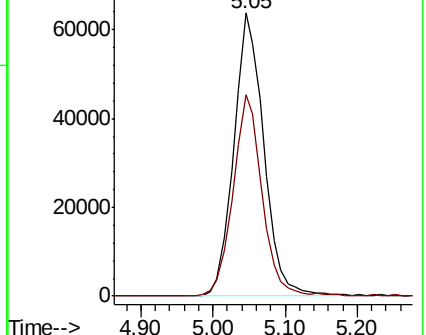
168 100

99 71.4 59.0 88.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: Below Cal

RT: 1.08 min Scan# 56

Delta R.T. 0.01 min

Lab File: VF060016.D

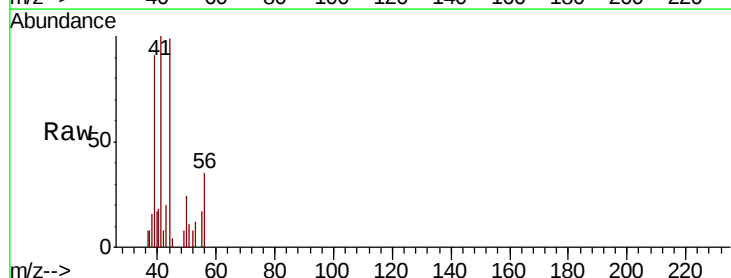
Acq: 20 Aug 2018 21:43

Tgt Ion: 50 Resp: 1029

Ion Ratio Lower Upper

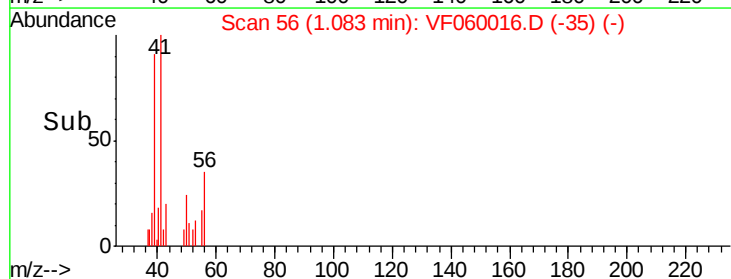
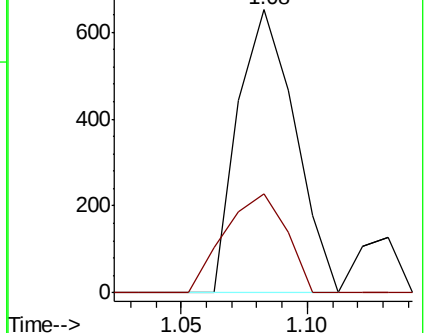
50 100

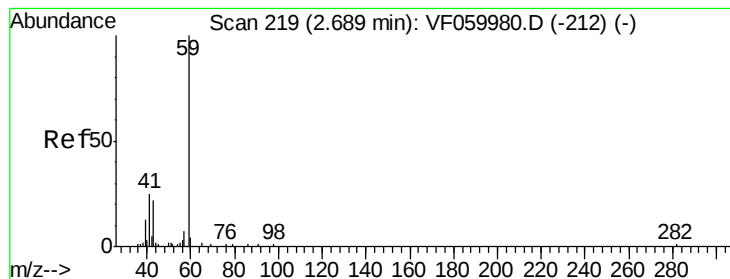
52 35.1 23.6 35.4



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



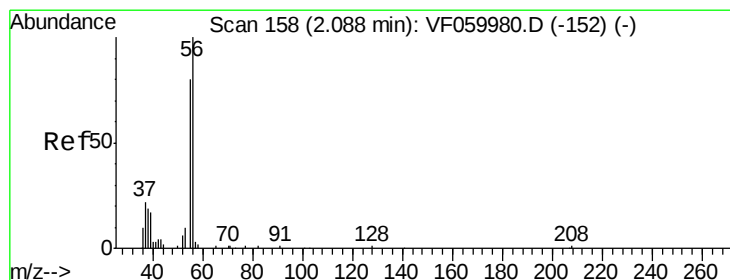
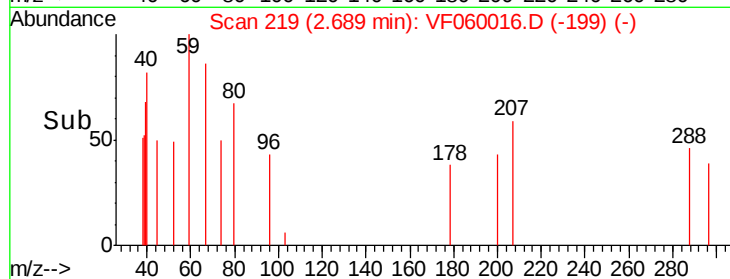
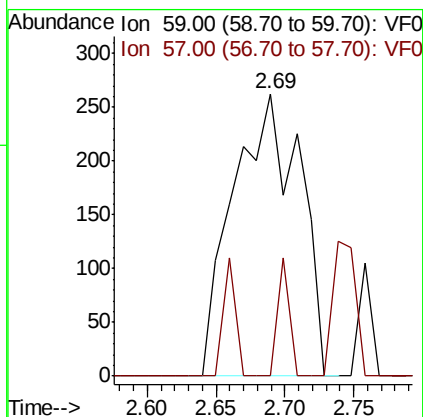
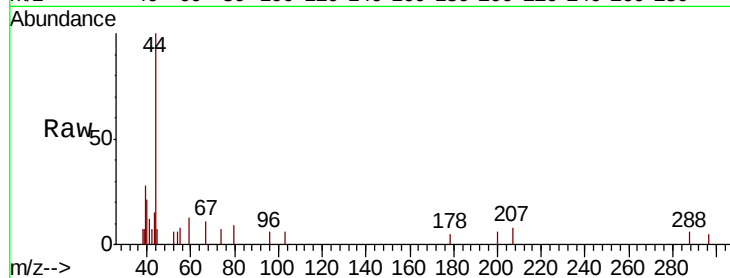


#11

Tert butyl alcohol  
 Concen: 4.21 ug/l  
 RT: 2.69 min Scan# 219  
 Delta R.T. 0.00 min  
 Lab File: VF060016.D  
 Acq: 20 Aug 2018 21:43

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 EPE-P-9(20-22)

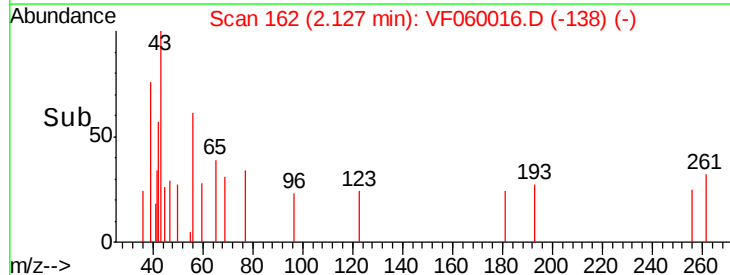
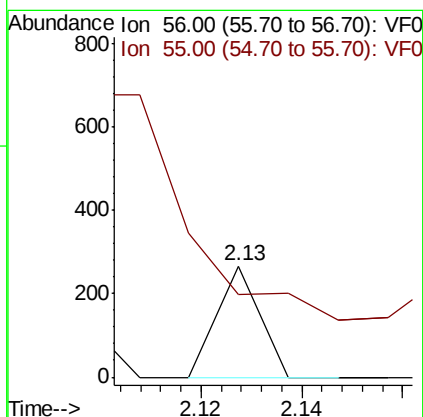
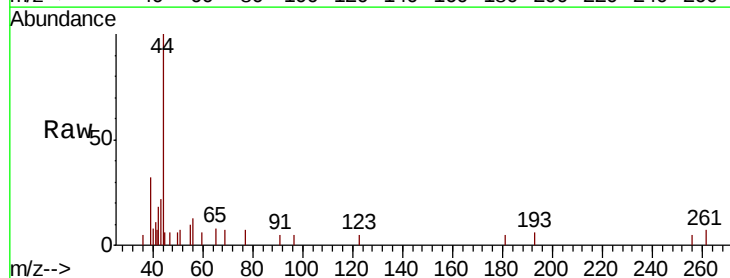
Tot Ion: 59 Resp: 878  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 6.8 10.2#

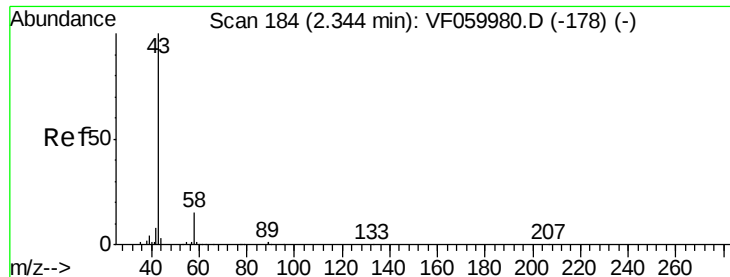


#13

Acrolein  
 Concen: 13.95 ug/l  
 RT: 2.13 min Scan# 162  
 Delta R.T. 0.04 min  
 Lab File: VF060016.D  
 Acq: 20 Aug 2018 21:43

Tgt Ion: 56 Resp: 157  
 Ion Ratio Lower Upper  
 56 100  
 55 74.1 63.8 95.6





#16

Acetone

Concen: 23.25 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF060016.D

Acq: 20 Aug 2018 21:43

Instrument :

MSVOA\_F

ClientSampleId :

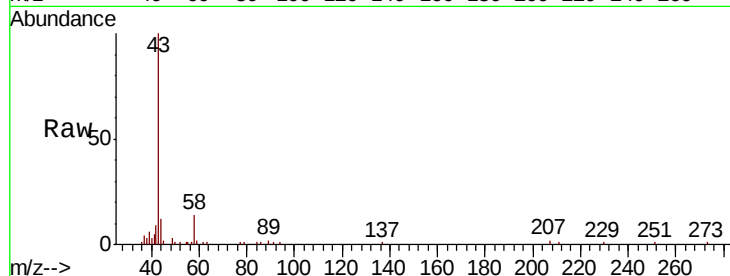
EPE-P-9(20-22)

Tot Ion: 43 Resp: 33029

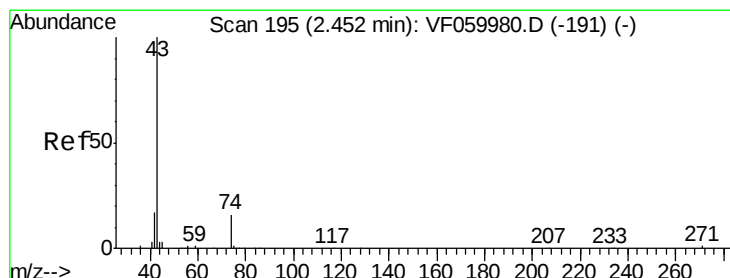
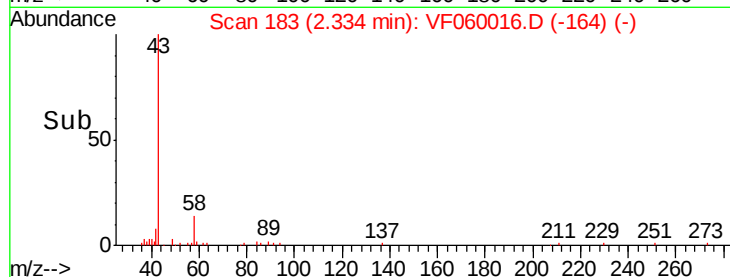
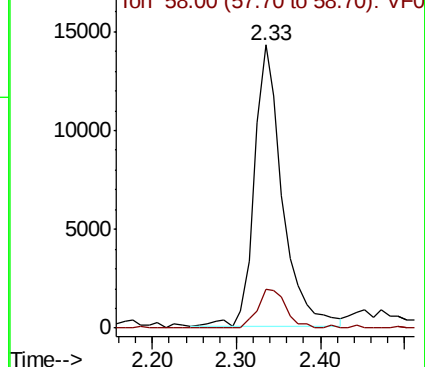
Ion Ratio Lower Upper

43 100

58 13.9 11.9 17.9



Abundance Ion 43.00 (42.70 to 43.70): VF0



#18

Methyl Acetate

Concen: 15.57 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.12 min

Lab File: VF060016.D

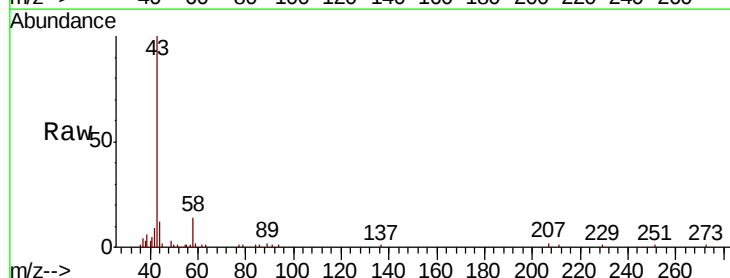
Acq: 20 Aug 2018 21:43

Tgt Ion: 43 Resp: 32291

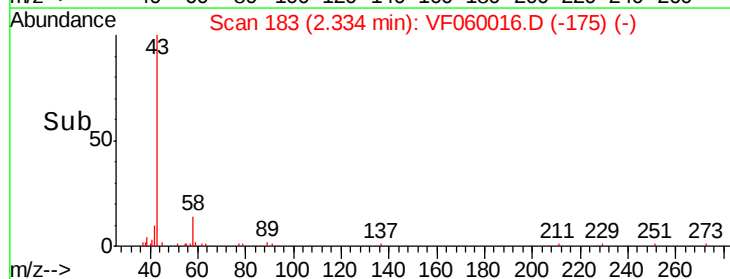
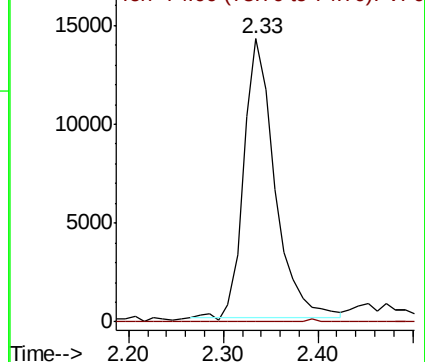
Ion Ratio Lower Upper

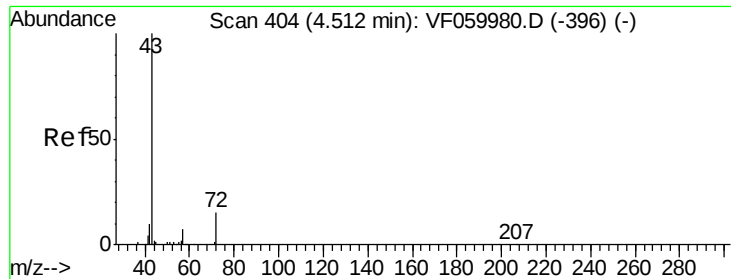
43 100

74 0.0 12.3 18.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0





#25

2-Butanone

Concen: 2.05 ug/l

RT: 4.52 min Scan# 405

Delta R.T. 0.01 min

Lab File: VF060016.D

Acq: 20 Aug 2018 21:43

Instrument :

MSVOA\_F

ClientSampleId :

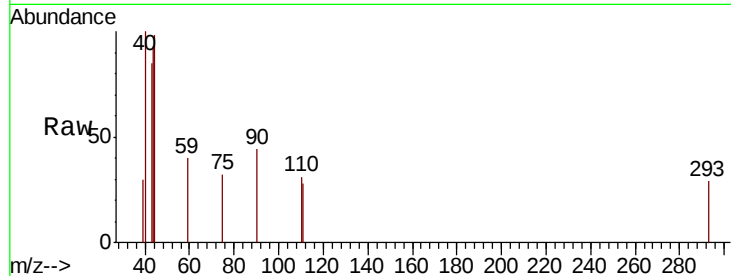
EPE-P-9(20-22)

Tot Ion: 43 Resp: 1775

Ion Ratio Lower Upper

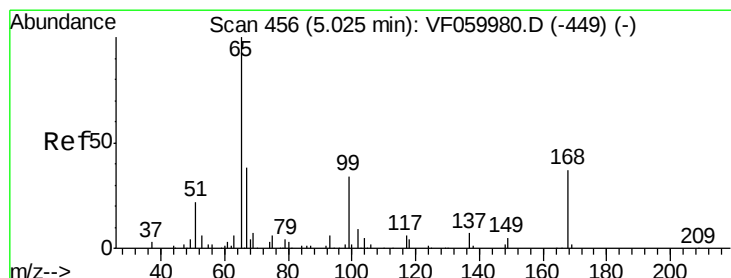
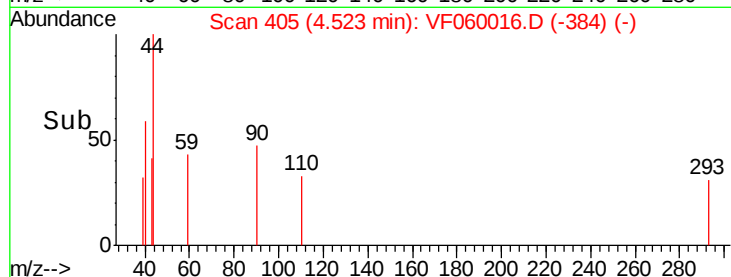
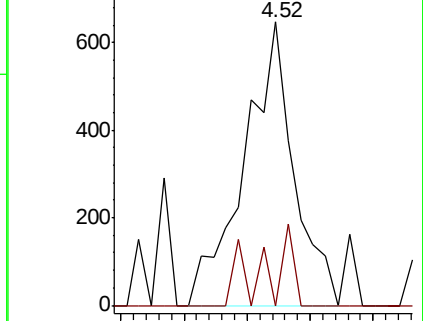
43 100

72 0.0 12.5 18.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 42.45 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF060016.D

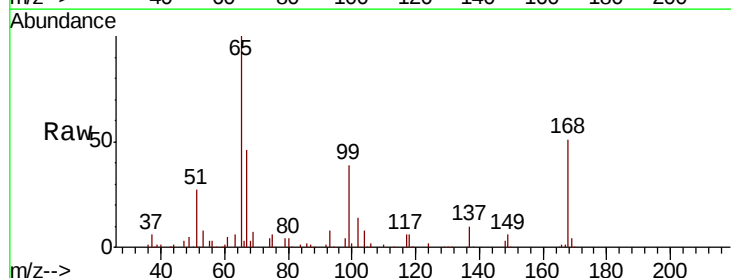
Acq: 20 Aug 2018 21:43

Tgt Ion: 65 Resp: 151856

Ion Ratio Lower Upper

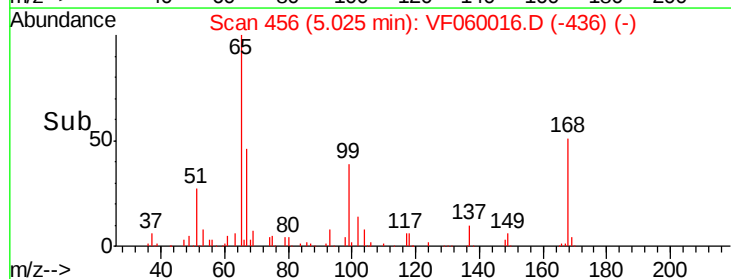
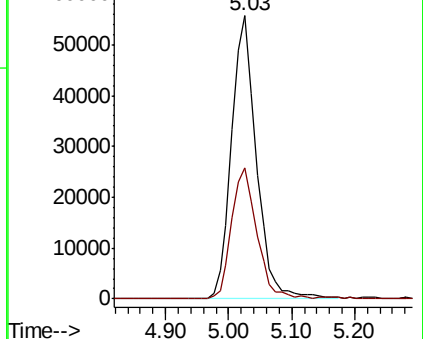
65 100

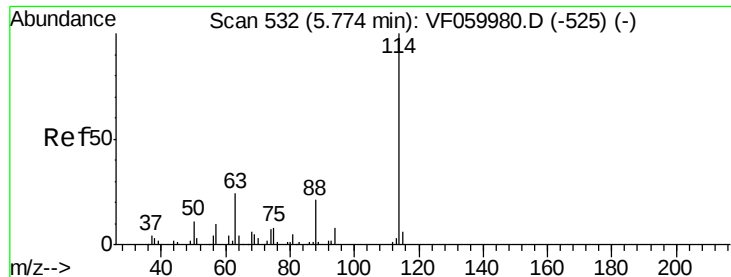
67 46.4 0.0 82.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.77 min Scan# 532

Delta R.T. 0.00 min

Lab File: VF060016.D

Acq: 20 Aug 2018 21:43

Instrument :

MSVOA\_F

ClientSampleId :

EPE-P-9(20-22)

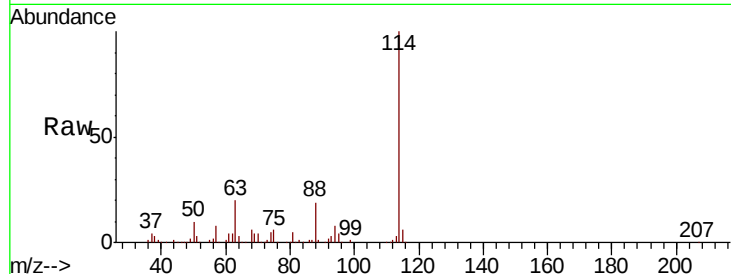
Tot Ion:114 Resp: 293934

Ion Ratio Lower Upper

114 100

63 20.5 0.0 48.6

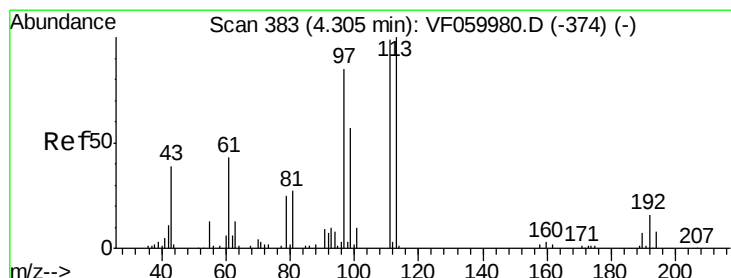
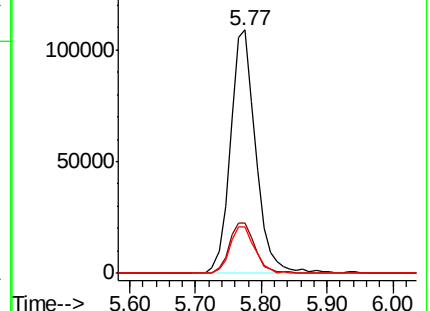
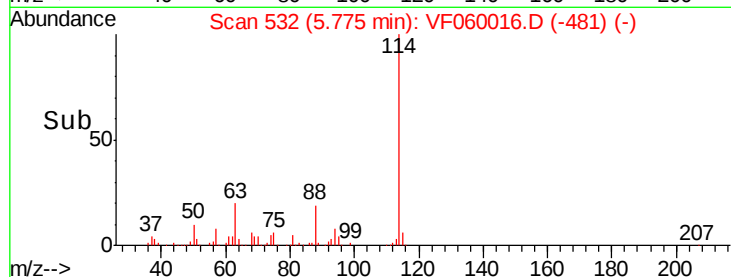
88 19.3 0.0 42.8



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: 45.32 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF060016.D

Acq: 20 Aug 2018 21:43

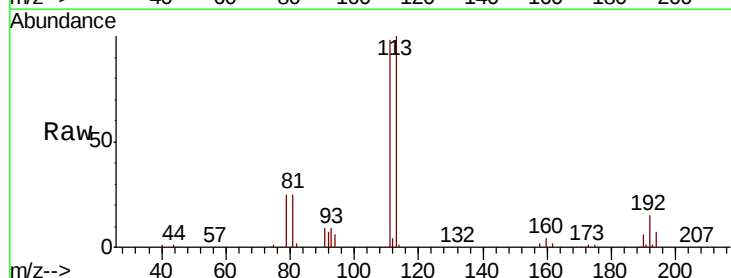
Tgt Ion:113 Resp: 136147

Ion Ratio Lower Upper

113 100

111 97.9 79.5 119.3

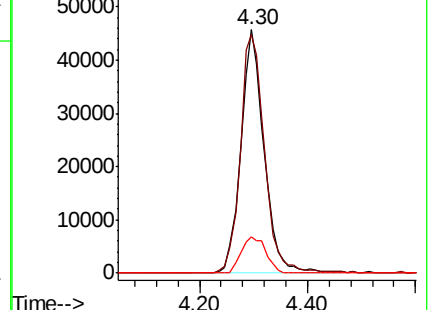
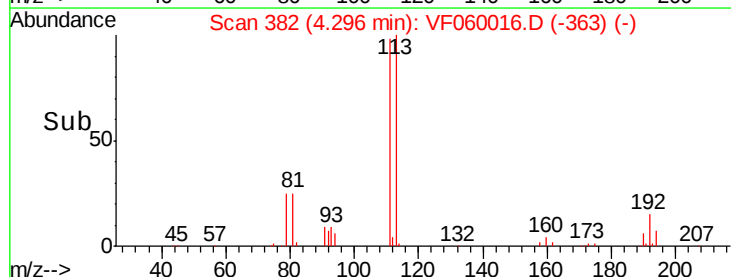
192 15.0 12.4 18.6

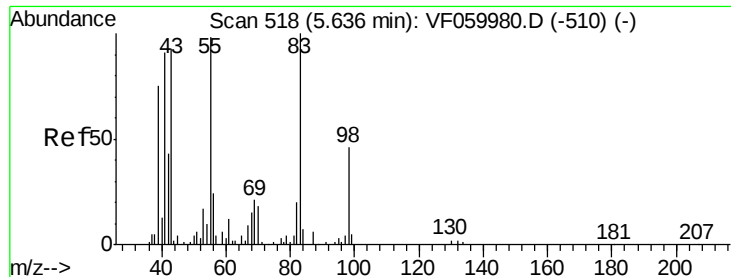


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

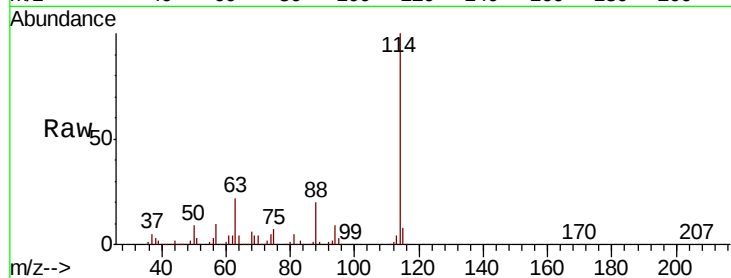




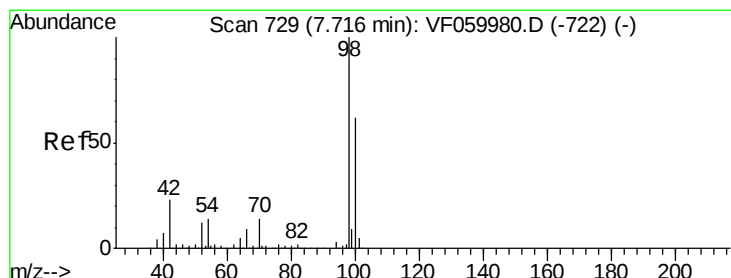
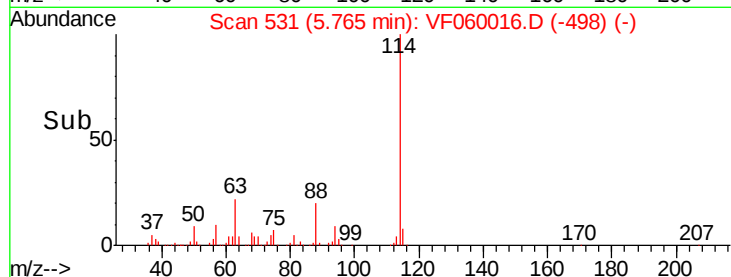
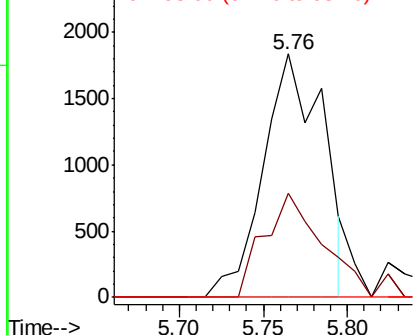
#39  
Methvlcvclohexane  
Concen: 1.81 ug/l  
RT: 5.76 min Scan# 531  
Delta R.T. 0.13 min  
Lab File: VF060016.D  
Acq: 20 Aug 2018 21:43

Instrument :  
MSVOA\_F  
ClientSampleId :  
EPE-P-9(20-22)

Tot Ion: 83 Resp: 4541  
Ion Ratio Lower Upper  
83 100  
55 43.0 78.8 118.2#  
98 0.0 36.8 55.2#

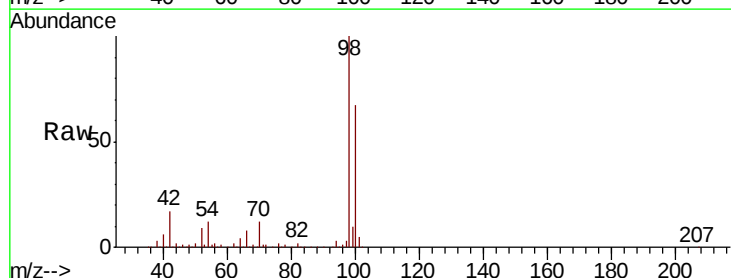


Abundance Ion 83.00 (82.70 to 83.70): VF0  
Ion 55.00 (54.70 to 55.70): VF0  
Ion 98.00 (97.70 to 98.70): VF0

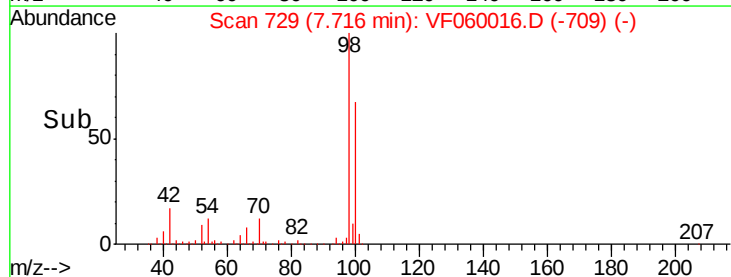
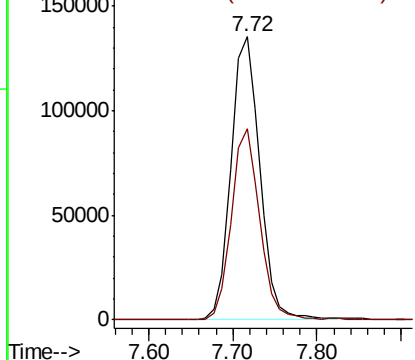


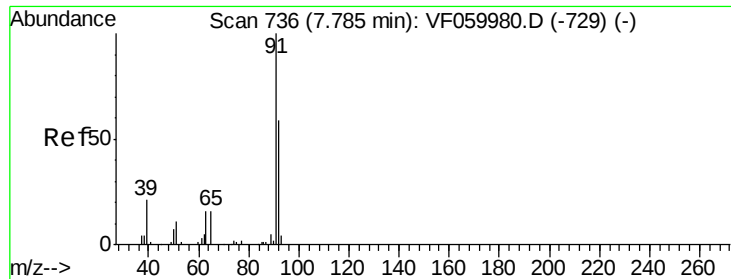
#50  
Toluene-d8  
Concen: 48.40 ug/l  
RT: 7.72 min Scan# 729  
Delta R.T. 0.00 min  
Lab File: VF060016.D  
Acq: 20 Aug 2018 21:43

Tgt Ion: 98 Resp: 323321  
Ion Ratio Lower Upper  
98 100  
100 67.4 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VF0  
Ion 100.00 (99.70 to 100.70): VF0

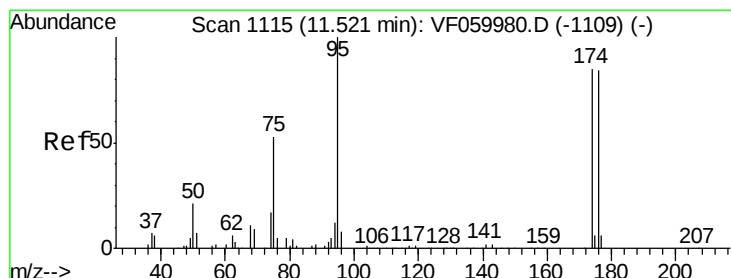
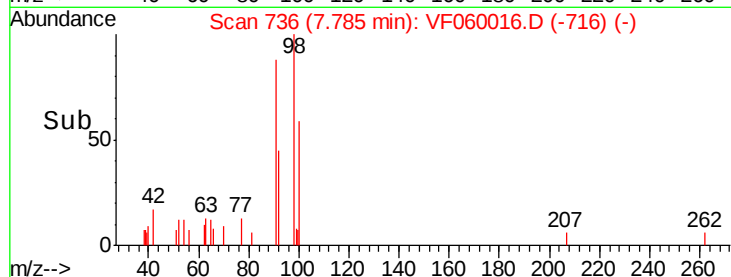
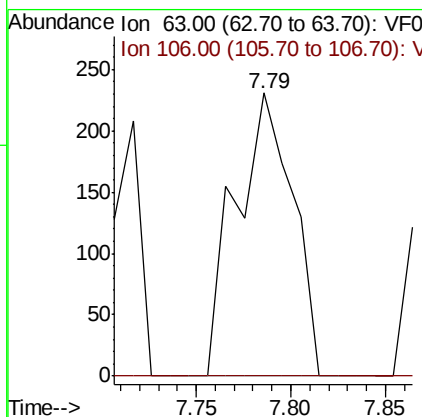
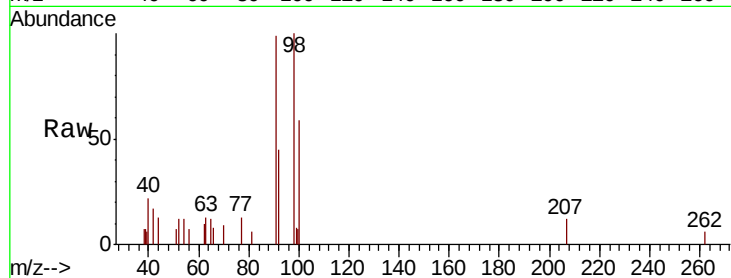




#58  
 2-Chloroethyl Vinyl ether  
 Concen: 2.93 ug/l  
 RT: 7.79 min Scan# 736  
 Delta R.T. 0.00 min  
 Lab File: VF060016.D  
 Acq: 20 Aug 2018 21:43

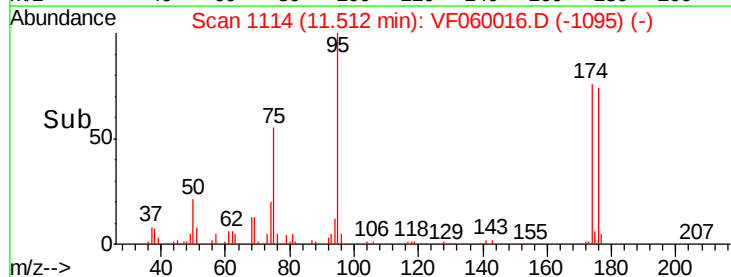
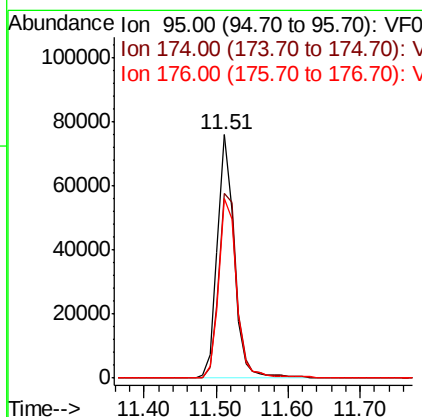
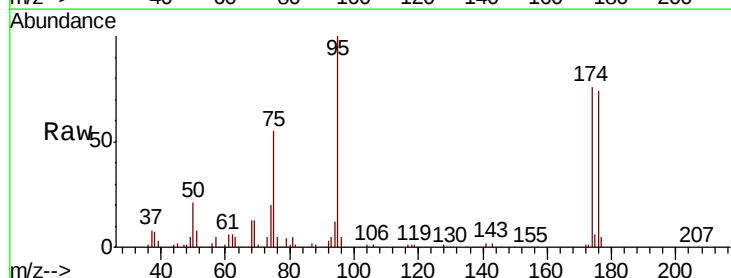
Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 EPE-P-9(20-22)

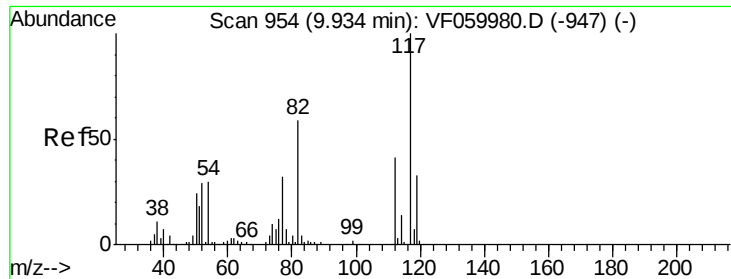
Tot Ion: 63 Resp: 484  
 Ion Ratio Lower Upper  
 63 100  
 106 0.0 0.0 0.0



#62  
 4-Bromofluorobenzene  
 Concen: 29.83 ug/l  
 RT: 11.51 min Scan# 1114  
 Delta R.T. -0.01 min  
 Lab File: VF060016.D  
 Acq: 20 Aug 2018 21:43

Tgt Ion: 95 Resp: 122296  
 Ion Ratio Lower Upper  
 95 100  
 174 75.8 0.0 169.8  
 176 73.6 0.0 167.8

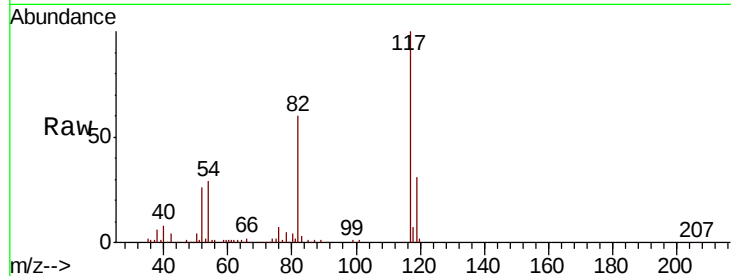




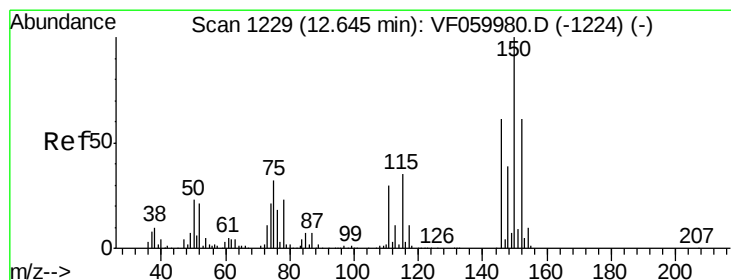
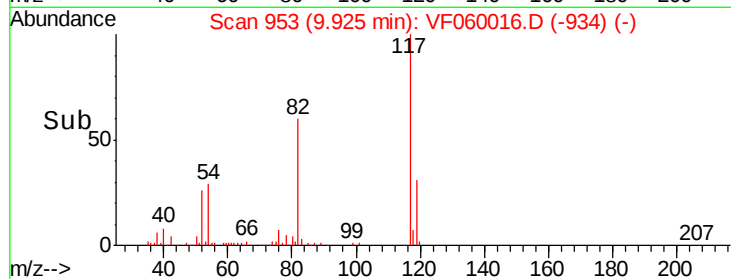
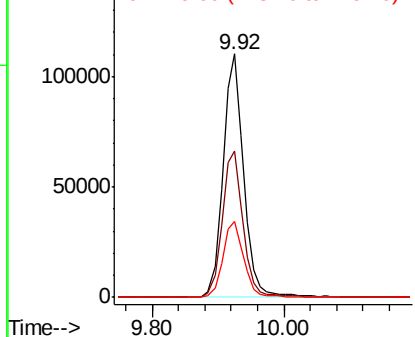
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.92 min Scan# 953  
Delta R.T. -0.01 min  
Lab File: VF060016.D  
Acq: 20 Aug 2018 21:43

Instrument :  
MSVOA\_F  
ClientSampleId :  
EPE-P-9(20-22)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 60.0  | 47.2  | 70.8  |
| 119     | 31.1  | 26.1  | 39.1  |

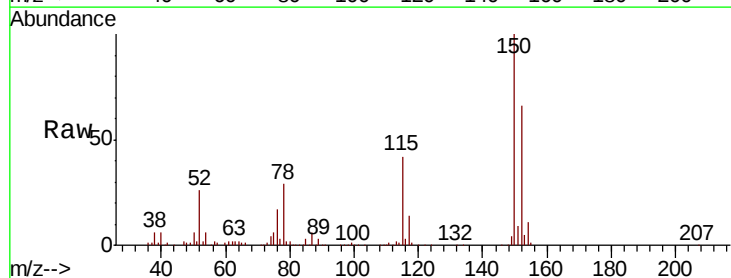


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VF0  
Ion 119.00 (118.70 to 119.70): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.64 min Scan# 1228  
Delta R.T. -0.01 min  
Lab File: VF060016.D  
Acq: 20 Aug 2018 21:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 63.8  | 29.1  | 87.3  |
| 150     | 151.6 | 0.0   | 330.2 |



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

