

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW092518\  
 Data File : VW005614.D  
 Acq On : 25 Sep 2018 16:35  
 Operator : VA/AP  
 Sample : J5066-04  
 Misc : 5.62G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EP1-Q1-G3

Quant Time: Sep 26 04:14:37 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 21 09:05:42 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 232275   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 369338   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 312637   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 144639   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 150637   | 55.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.10% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 117566   | 50.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.24% |          |
| 50) Toluene-d8              | 10.33 | 98   | 370542   | 39.18 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 78.36%  |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 138630   | 39.62 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 79.24%  |          |

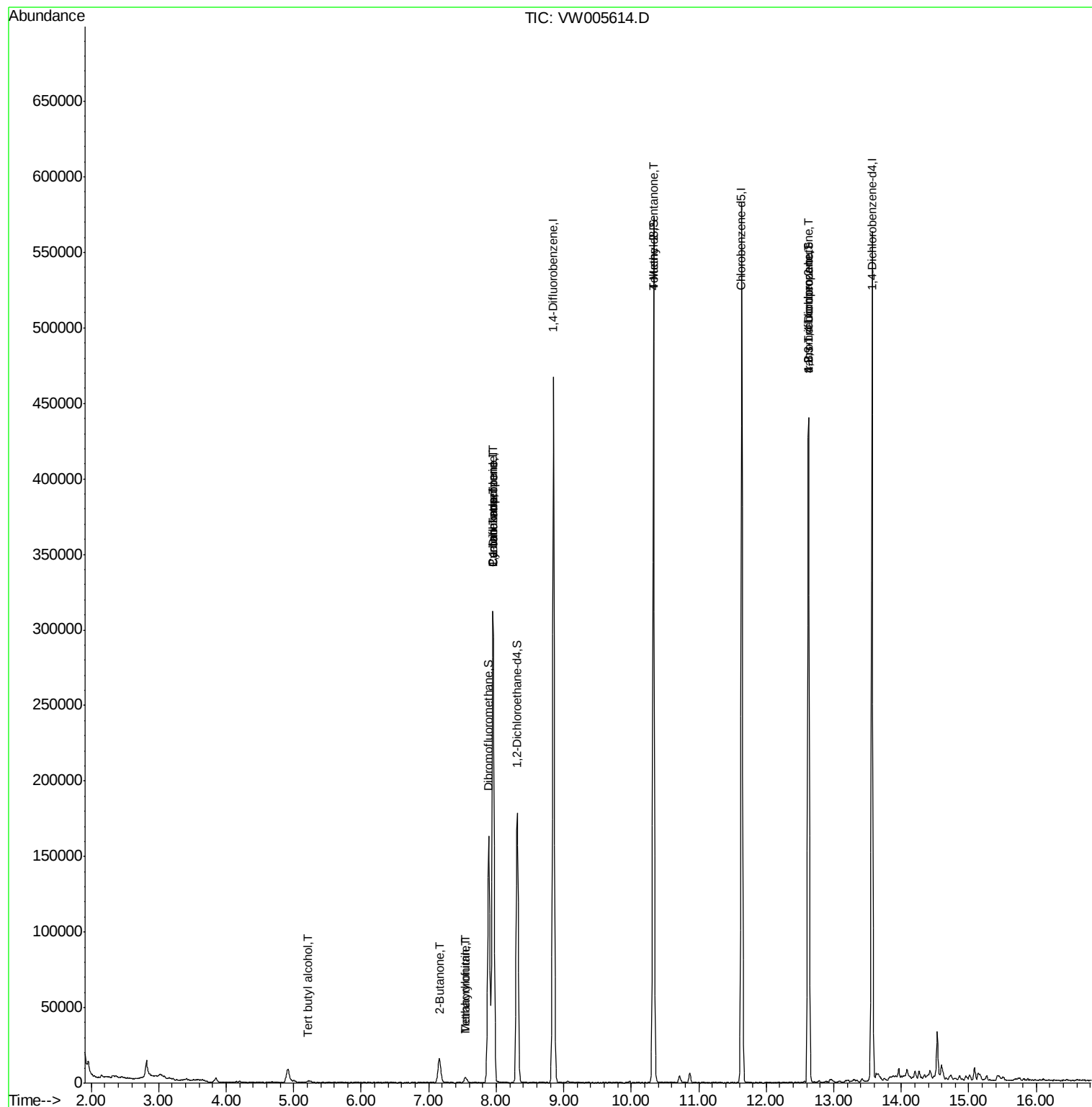
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 2.03  | 85   | 42       | Below Cal | #      | 41     |
| 11) Tert butyl alcohol         | 5.21  | 59   | 2227     | 13.519    | ug/l # | 81     |
| 16) Acetone                    | 4.15  | 43   | 1006     | Below Cal | #      | 89     |
| 20) Methylene Chloride         | 4.91  | 84   | 7592     | Below Cal |        | 90     |
| 25) 2-Butanone                 | 7.16  | 43   | 867      | 1.305     | ug/l # | 50     |
| 29) Tetrahydrofuran            | 7.55  | 42   | 2913     | 7.016     | ug/l # | 78     |
| 31) Cyclohexane                | 7.96  | 56   | 4813     | 1.135     | ug/l # | 3      |
| 36) 1,1-Dichloropropene        | 7.96  | 75   | 17912    | 4.818     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.95  | 117  | 22618    | 5.677     | ug/l # | 17     |
| 41) Methacrylonitrile          | 7.55  | 41   | 1926     | 2.163     | ug/l # | 49     |
| 51) 4-Methyl-2-Pentanone       | 10.33 | 43   | 1849     | 1.193     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 74606    | 60.510    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.62 | 75   | 74606    | 136.287   | ug/l # | 7      |

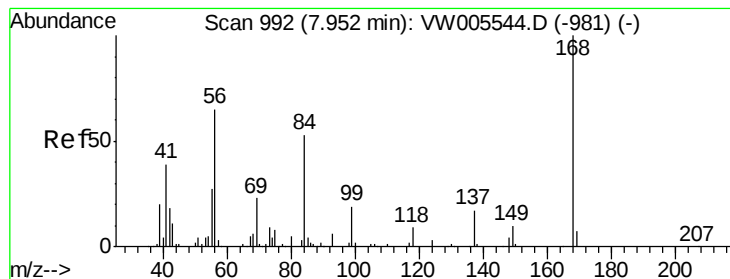
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW092518\  
Data File : VW005614.D  
Acq On : 25 Sep 2018 16:35  
Operator : VA/AP  
Sample : J5066-04  
Misc : 5.62G/5ML/MSVOA\_W/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
EP1-Q1-G3

Quant Time: Sep 26 04:14:37 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W092118S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 21 09:05:42 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW005614.D

Acq: 25 Sep 2018 16:35

Instrument :

MSVOA\_W

ClientSampleId :

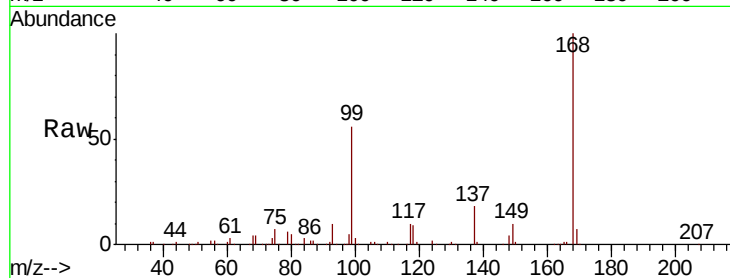
EP1-Q1-G3

Tgt Ion:168 Resp: 232275

Ion Ratio Lower Upper

168 100

99 55.7 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

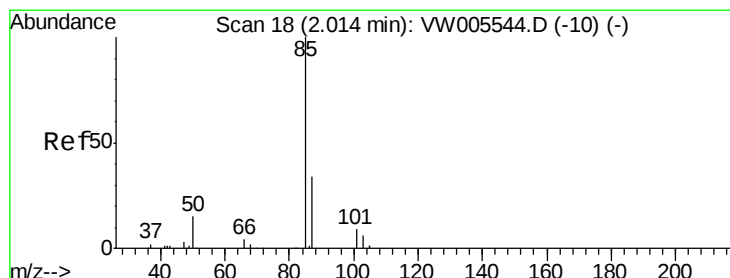
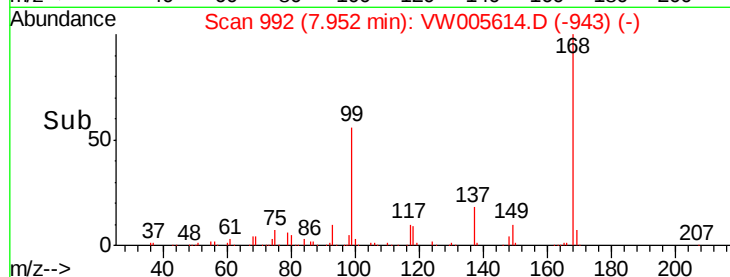
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.03 min Scan# 21

Delta R.T. 0.02 min

Lab File: VW005614.D

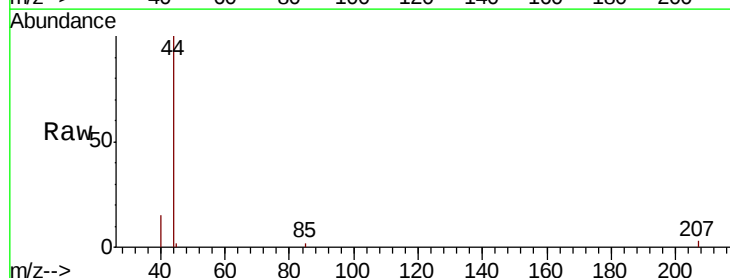
Acq: 25 Sep 2018 16:35

Tgt Ion: 85 Resp: 42

Ion Ratio Lower Upper

85 100

87 0.0 17.0 50.9#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.03

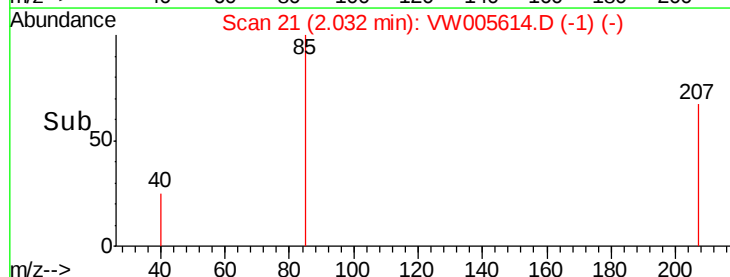
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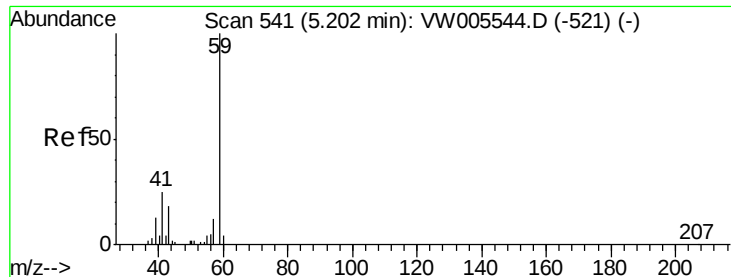
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20

0

Time-->

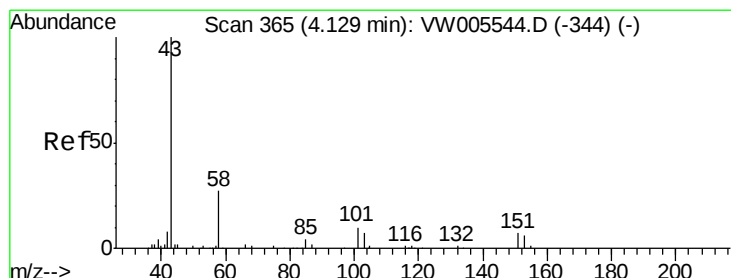
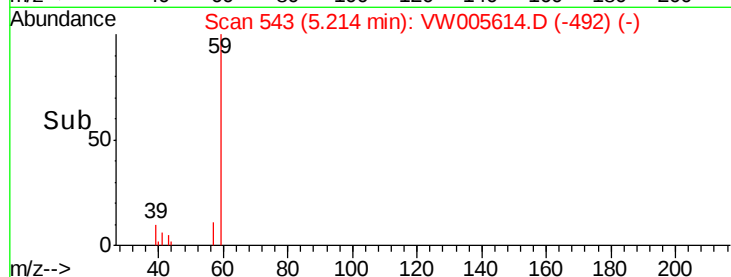
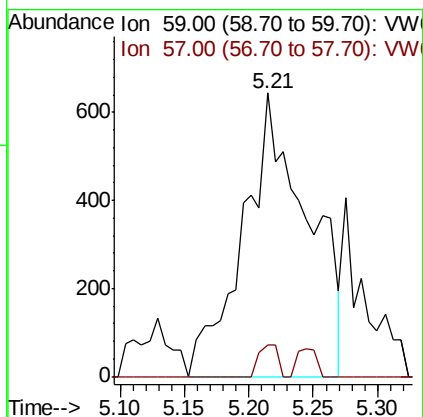
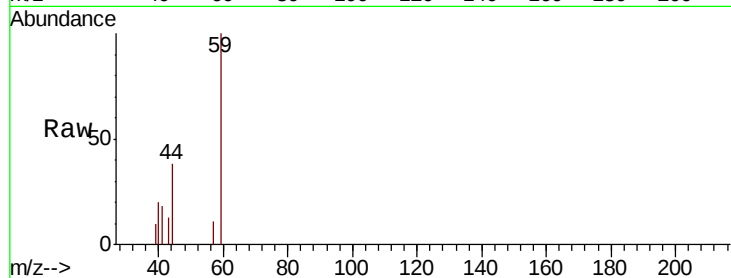




#11  
Tert butyl alcohol  
Concen: 13.519 ug/l  
RT: 5.21 min Scan# 543  
Delta R.T. 0.01 min  
Lab File: VW005614.D  
Acq: 25 Sep 2018 16:35

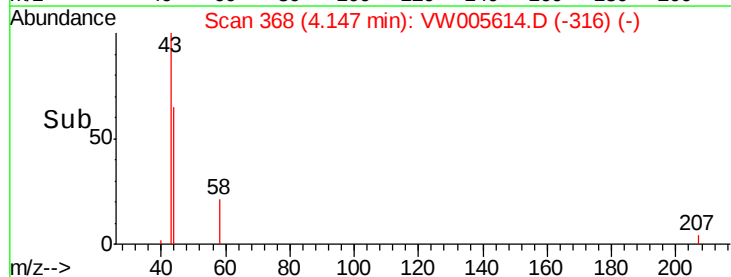
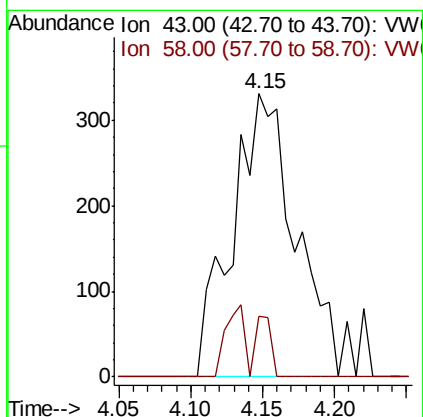
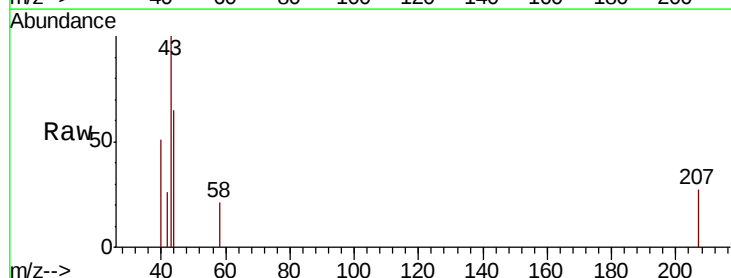
Instrument :  
MSVOA\_W  
ClientSampleId :  
EP1-Q1-G3

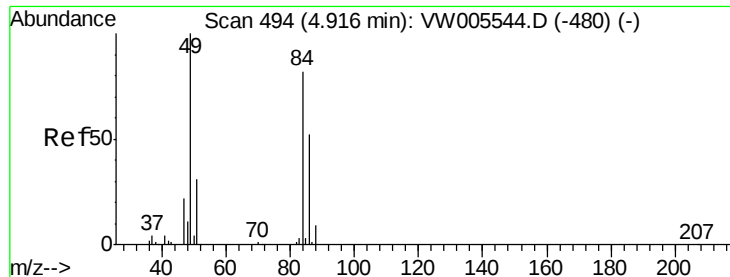
Tgt Ion: 59 Resp: 2227  
Ion Ratio Lower Upper  
59 100  
57 3.2 8.3 12.5#



#16  
Acetone  
Concen: Below Cal  
RT: 4.15 min Scan# 368  
Delta R.T. 0.02 min  
Lab File: VW005614.D  
Acq: 25 Sep 2018 16:35

Tgt Ion: 43 Resp: 1006  
Ion Ratio Lower Upper  
43 100  
58 21.5 21.8 32.8#



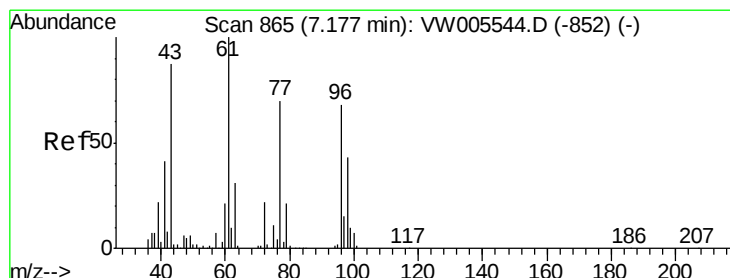
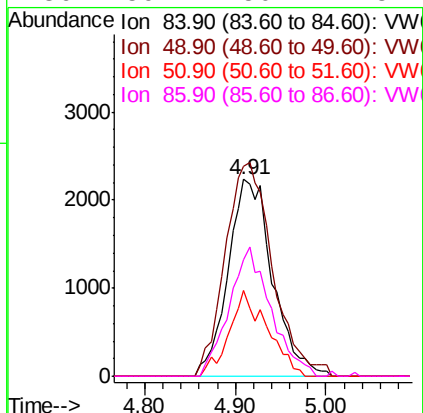
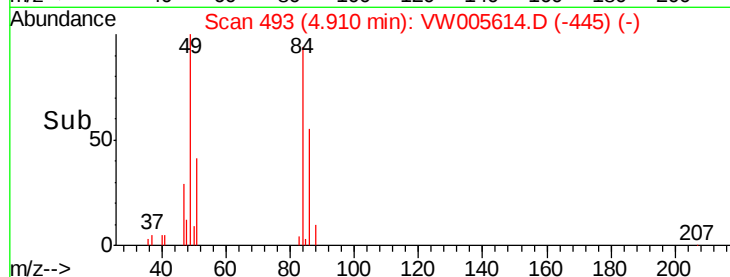
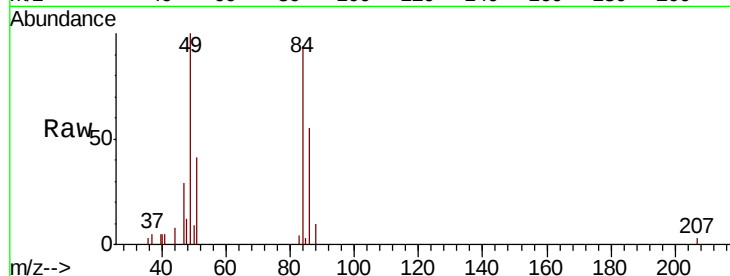


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW005614.D  
Acq: 25 Sep 2018 16:35

Instrument :  
MSVOA\_W  
ClientSampleId :  
EP1-Q1-G3

Tgt Ion: 84 Resp: 7592

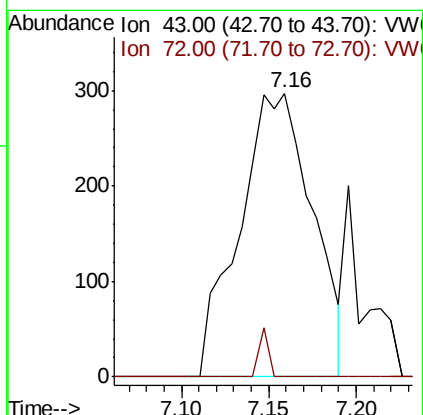
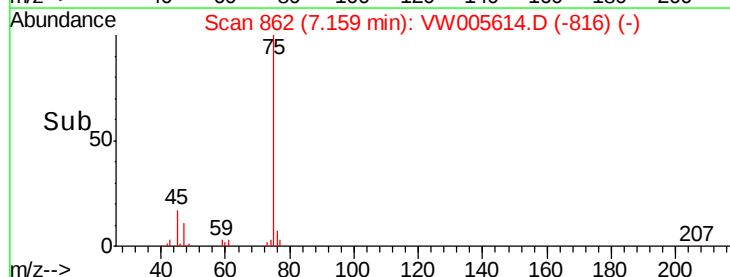
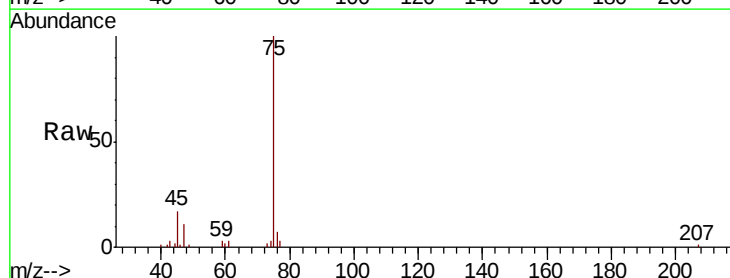
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 106.6 | 97.0  | 145.6 |
| 51  | 43.6  | 30.2  | 45.2  |
| 86  | 59.1  | 50.2  | 75.4  |

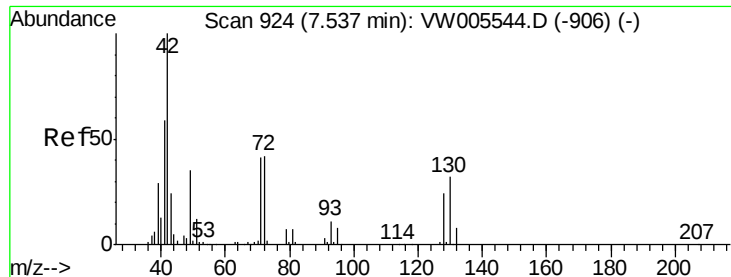


#25  
2-Butanone  
Concen: 1.305 ug/l  
RT: 7.16 min Scan# 862  
Delta R.T. -0.02 min  
Lab File: VW005614.D  
Acq: 25 Sep 2018 16:35

Tgt Ion: 43 Resp: 867

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 0.0   | 19.9  | 29.9# |

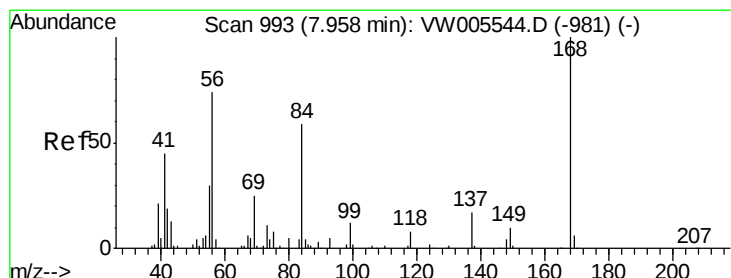
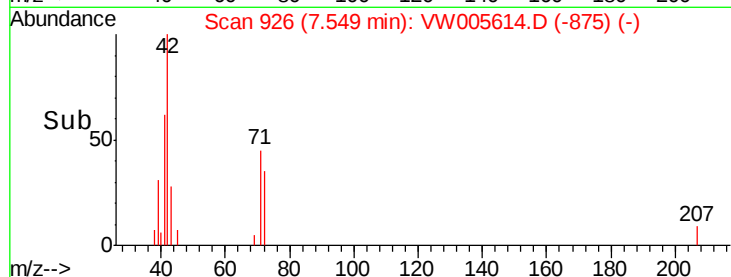
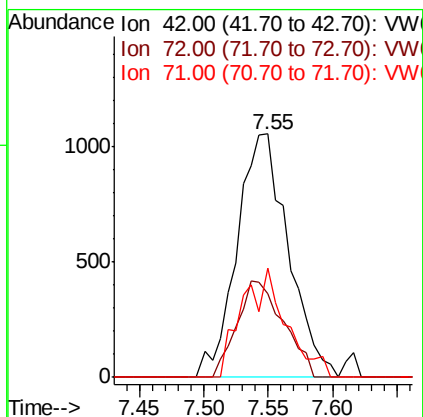
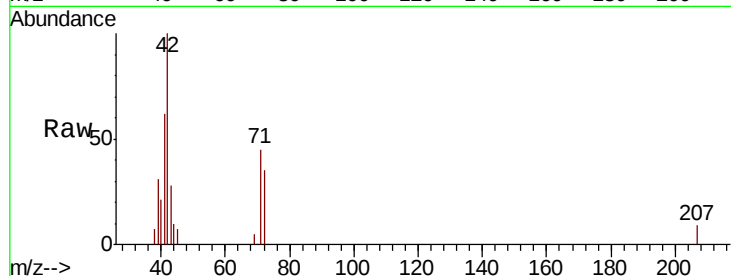




#29  
Tetrahydrofuran  
Concen: 7.016 ug/l  
RT: 7.55 min Scan# 926  
Delta R.T. 0.01 min  
Lab File: VW005614.D  
Acq: 25 Sep 2018 16:35

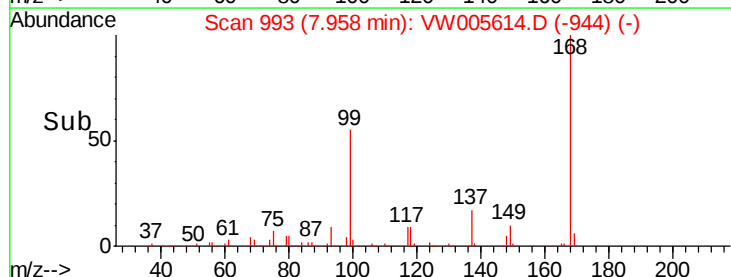
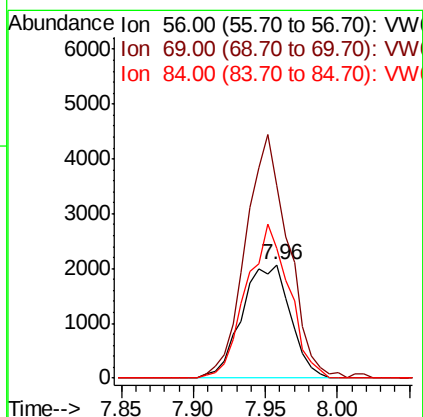
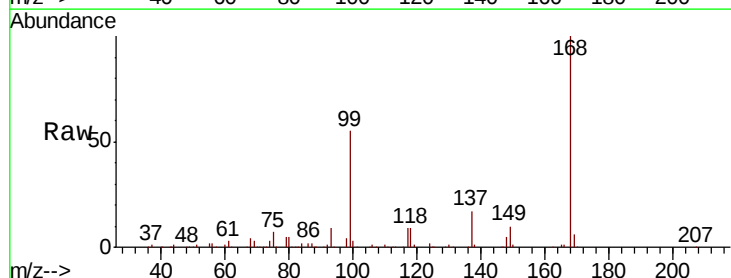
Instrument :  
MSVOA\_W  
ClientSampled :  
EP1-Q1-G3

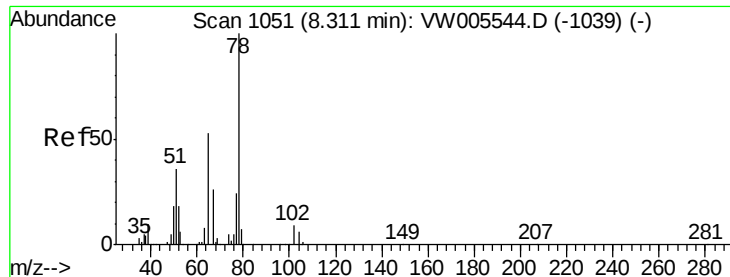
Tgt Ion: 42 Resp: 2913  
Ion Ratio Lower Upper  
42 100  
72 35.9 33.6 50.4  
71 18.2 31.8 47.6#



#31  
Cyclohexane  
Concen: 1.135 ug/l  
RT: 7.96 min Scan# 993  
Delta R.T. 0.00 min  
Lab File: VW005614.D  
Acq: 25 Sep 2018 16:35

Tgt Ion: 56 Resp: 4813  
Ion Ratio Lower Upper  
56 100  
69 169.4 27.0 40.4#  
84 114.2 64.2 96.4#

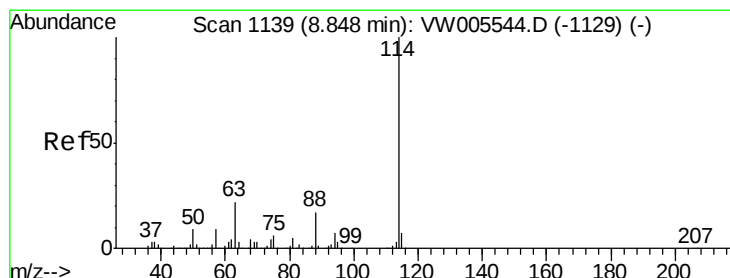
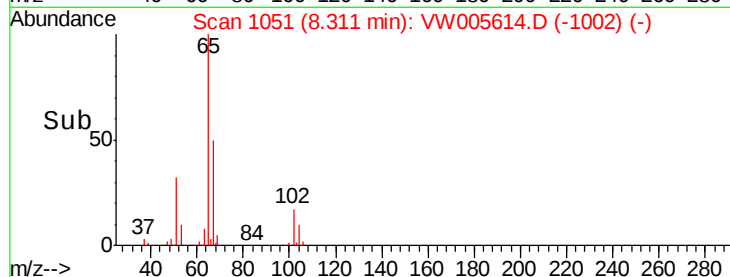
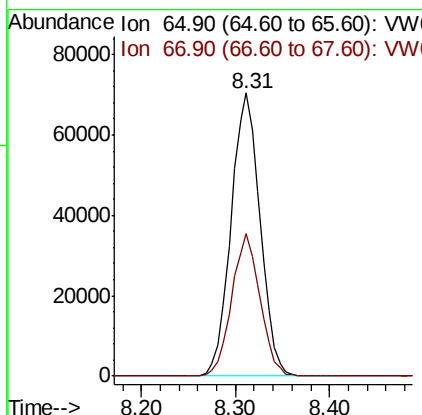
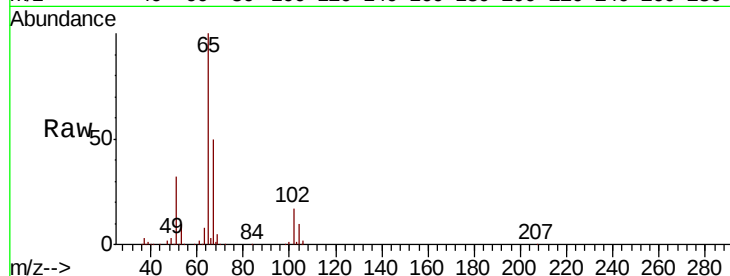




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.050 ug/l  
 RT: 8.31 min Scan# 1051  
 Delta R.T. 0.00 min  
 Lab File: VW005614.D  
 Acq: 25 Sep 2018 16:35

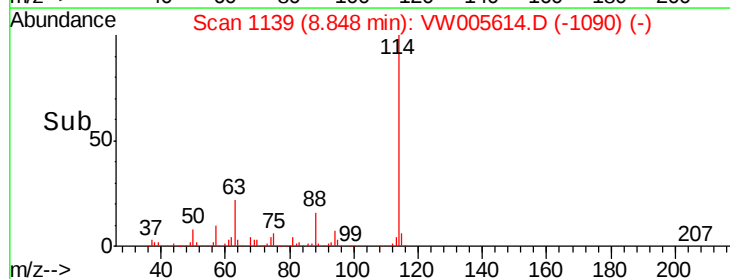
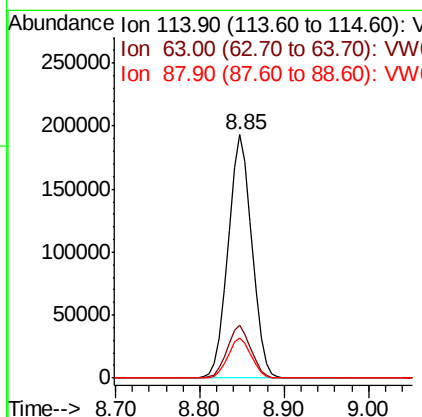
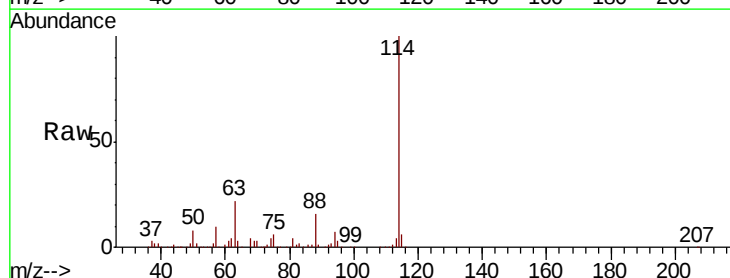
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EP1-Q1-G3

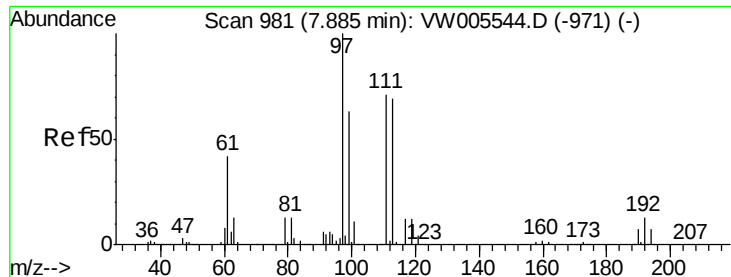
Tgt Ion: 65 Resp: 150637  
 Ion Ratio Lower Upper  
 65 100  
 67 48.9 0.0 100.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW005614.D  
 Acq: 25 Sep 2018 16:35

Tgt Ion: 114 Resp: 369338  
 Ion Ratio Lower Upper  
 114 100  
 63 21.6 0.0 43.0  
 88 16.3 0.0 33.0

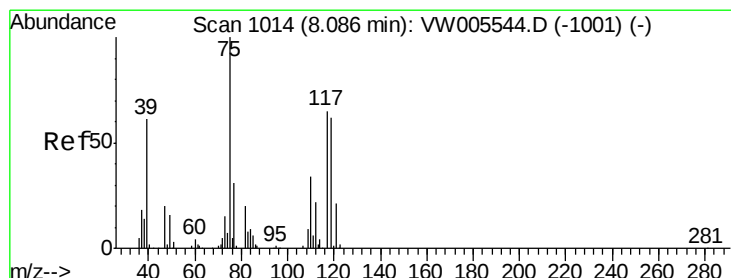
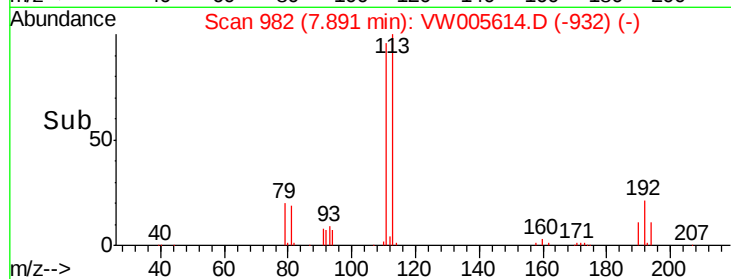
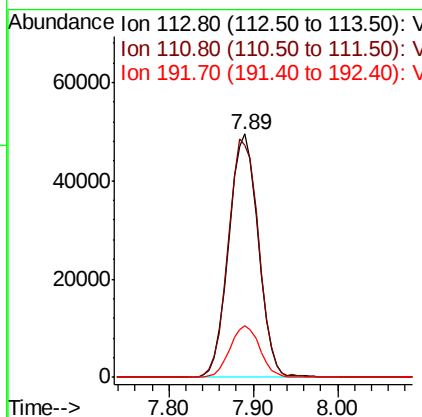
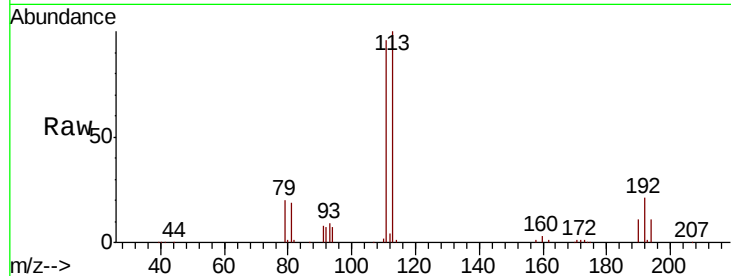




#35  
 Dibromofluoromethane  
 Concen: 50.618 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. 0.01 min  
 Lab File: VW005614.D  
 Acq: 25 Sep 2018 16:35

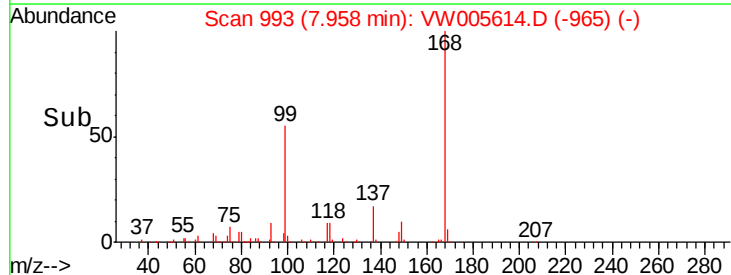
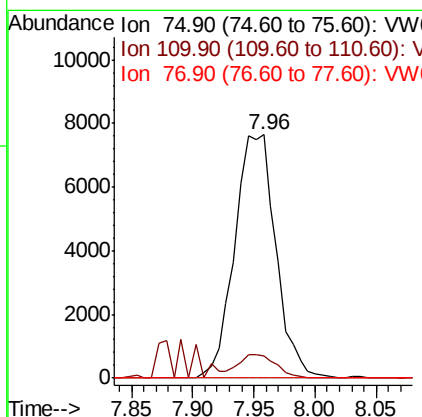
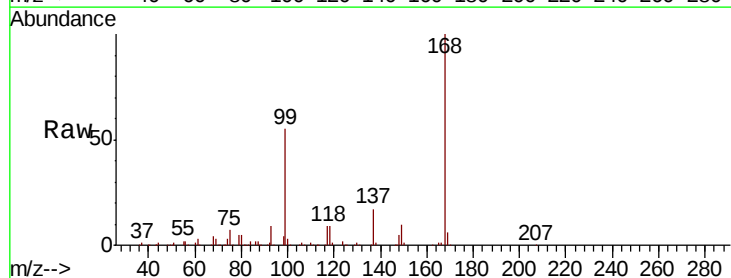
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EP1-Q1-G3

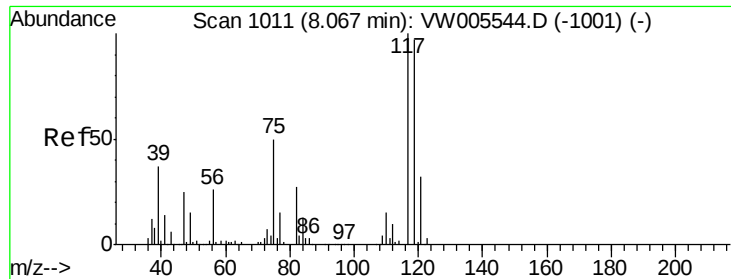
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.9 | 82.6  | 123.8 |
| 192     | 21.3  | 17.0  | 25.4  |



#36  
 1,1-Dichloropropene  
 Concen: 4.818 ug/l  
 RT: 7.96 min Scan# 993  
 Delta R.T. -0.13 min  
 Lab File: VW005614.D  
 Acq: 25 Sep 2018 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.6   | 17.0  | 50.9# |
| 77      | 0.0   | 24.8  | 37.2# |

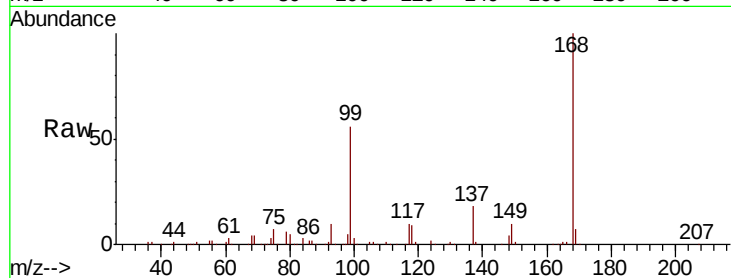




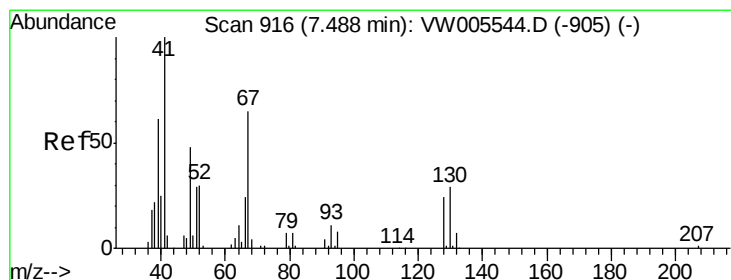
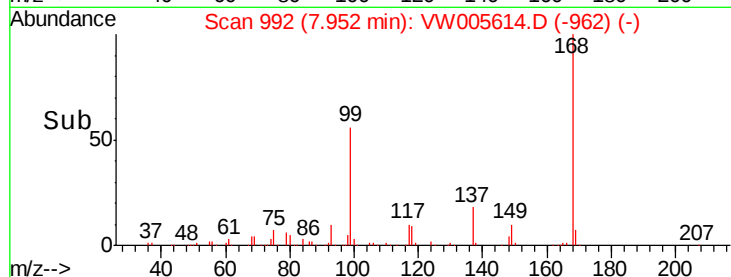
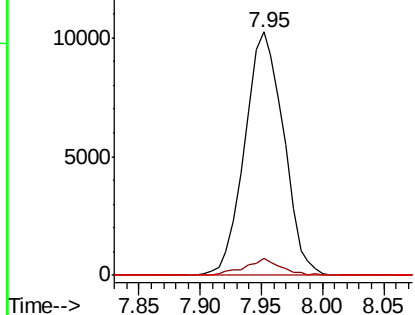
#38  
Carbon Tetrachloride  
Concen: 5.677 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.12 min  
Lab File: VW005614.D  
Acq: 25 Sep 2018 16:35

Instrument :  
MSVOA\_W  
ClientSampled :  
EP1-Q1-G3

Tgt Ion: 117 Resp: 22618  
Ion Ratio Lower Upper  
117 100  
119 7.1 77.6 116.4#  
121 0.0 25.7 38.5#

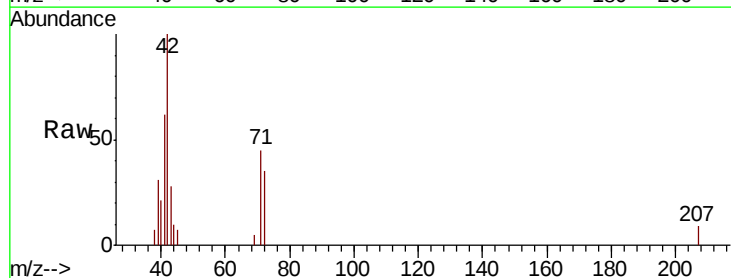


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

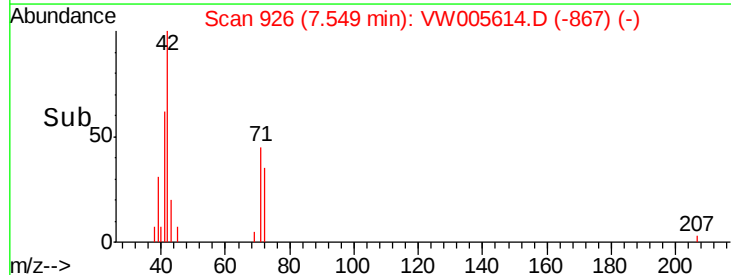
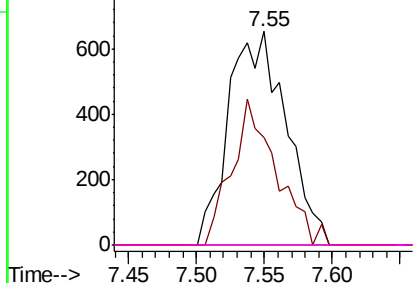


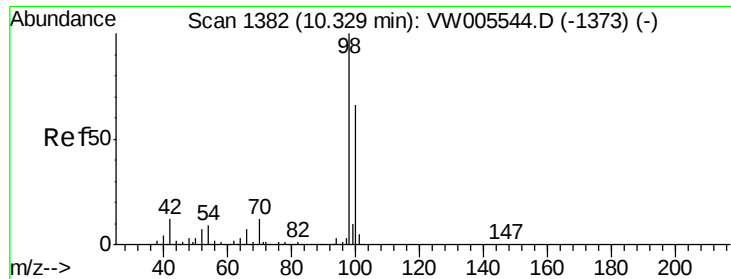
#41  
Methacrylonitrile  
Concen: 2.163 ug/l  
RT: 7.55 min Scan# 926  
Delta R.T. 0.06 min  
Lab File: VW005614.D  
Acq: 25 Sep 2018 16:35

Tgt Ion: 41 Resp: 1926  
Ion Ratio Lower Upper  
41 100  
39 52.8 45.4 68.2  
67 0.0 55.2 82.8#  
52 0.0 25.3 37.9#



Abundance Ion 41.00 (40.70 to 41.70): VW  
Ion 39.00 (38.70 to 39.70): VW  
Ion 67.00 (66.70 to 67.70): VW  
Ion 52.00 (51.70 to 52.70): VW





#50

Toluene-d8

Concen: 39.181 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW005614.D

Acq: 25 Sep 2018 16:35

Instrument :

MSVOA\_W

ClientSampleId :

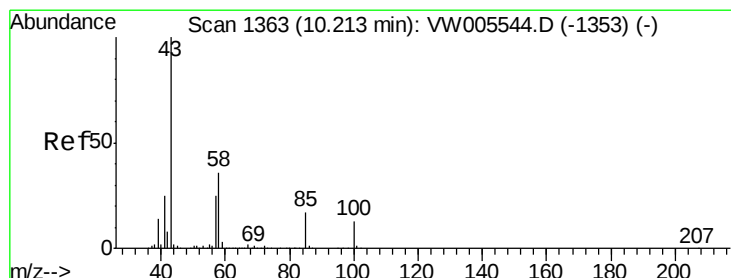
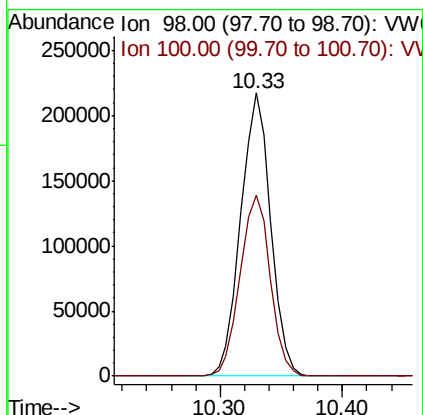
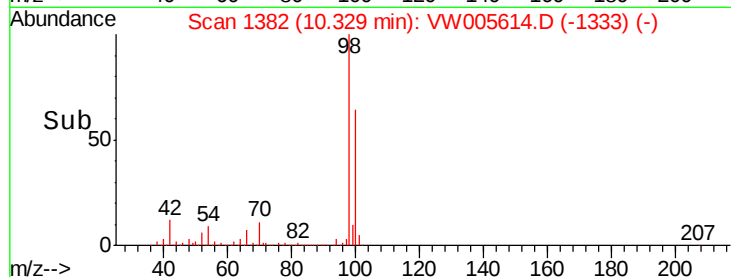
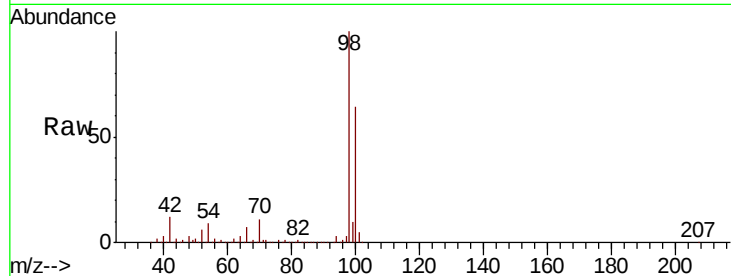
EP1-Q1-G3

Tgt Ion: 98 Resp: 370542

Ion Ratio Lower Upper

98 100

100 64.2 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 1.193 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.12 min

Lab File: VW005614.D

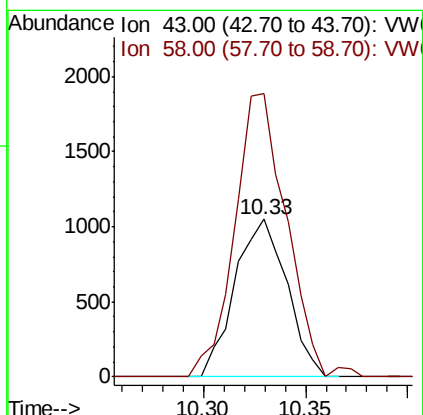
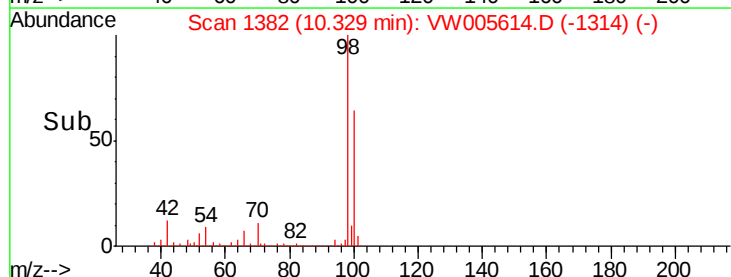
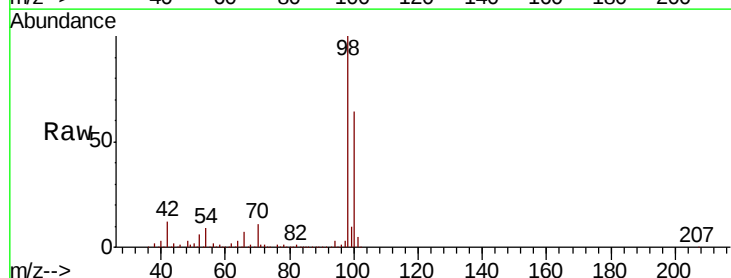
Acq: 25 Sep 2018 16:35

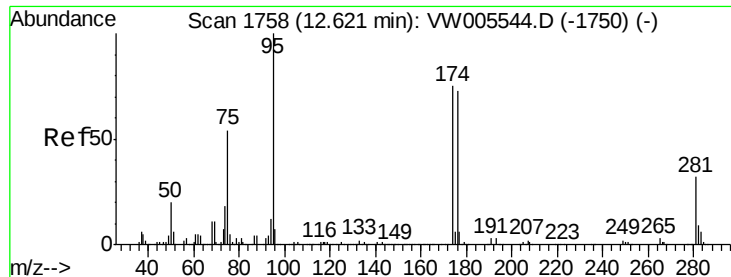
Tgt Ion: 43 Resp: 1849

Ion Ratio Lower Upper

43 100

58 179.9 30.0 45.0#

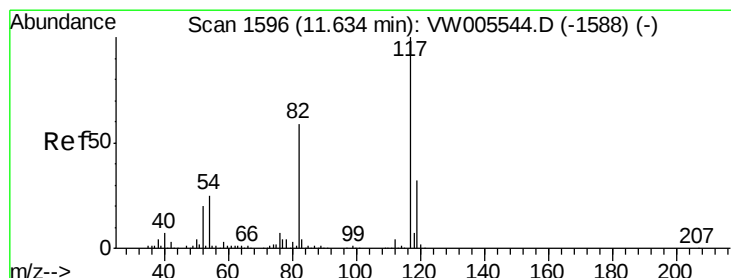
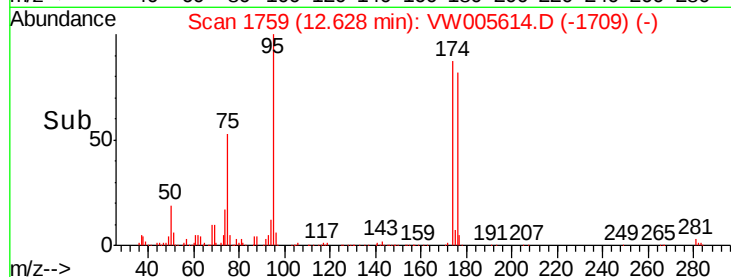
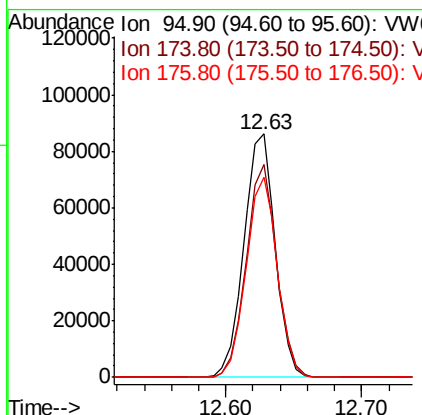
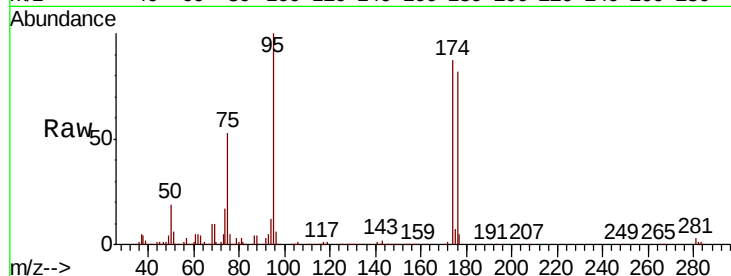




#62  
4-Bromofluorobenzene  
Concen: 39.615 ug/l  
RT: 12.63 min Scan# 1759  
Delta R.T. 0.01 min  
Lab File: VW005614.D  
Acq: 25 Sep 2018 16:35

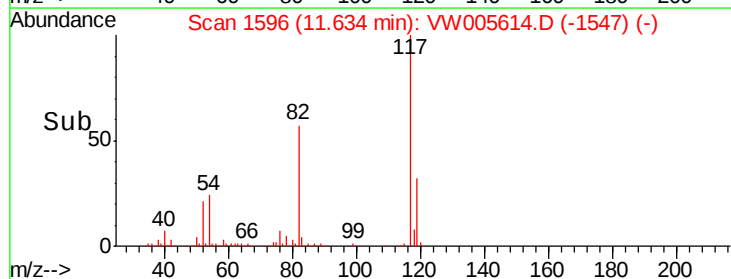
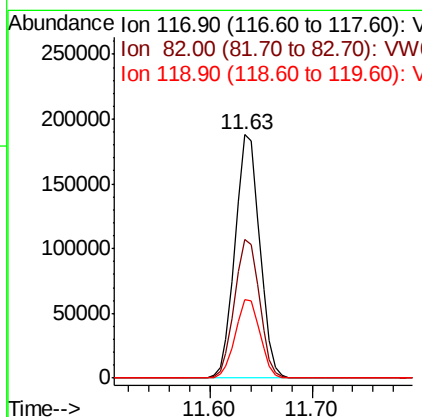
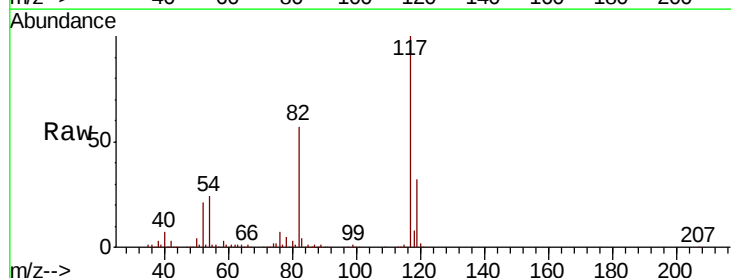
Instrument :  
MSVOA\_W  
ClientSampleId :  
EP1-Q1-G3

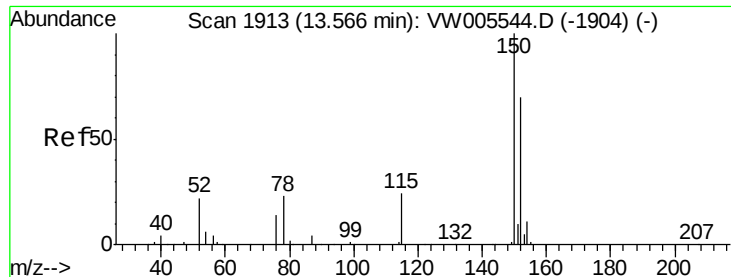
Tgt Ion: 95 Resp: 138630  
Ion Ratio Lower Upper  
95 100  
174 85.3 0.0 163.8  
176 81.7 0.0 158.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW005614.D  
Acq: 25 Sep 2018 16:35

Tgt Ion: 117 Resp: 312637  
Ion Ratio Lower Upper  
117 100  
82 57.1 46.9 70.3  
119 32.4 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW005614.D

Acq: 25 Sep 2018 16:35

Instrument :

MSVOA\_W

ClientSampleId :

EP1-Q1-G3

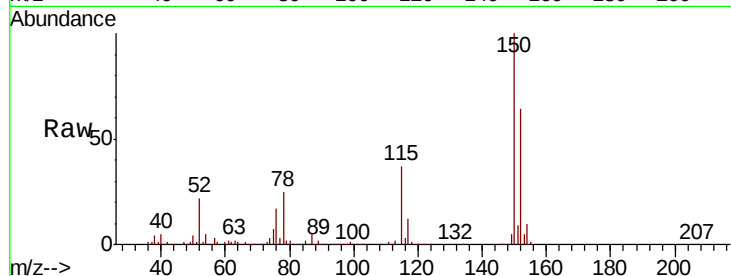
Tgt Ion:152 Resp: 144639

Ion Ratio Lower Upper

152 100

115 58.5 30.0 90.0

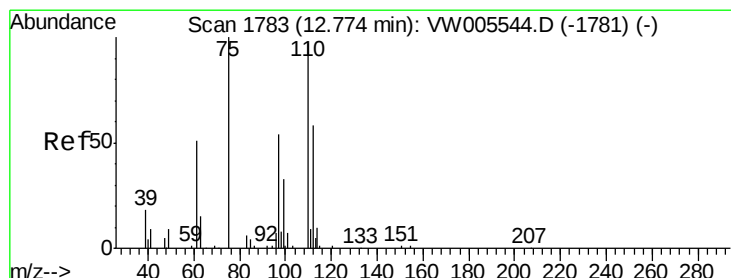
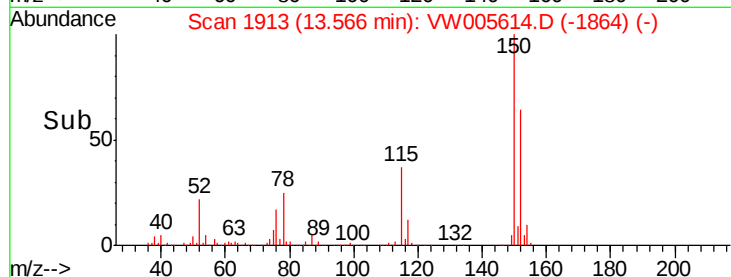
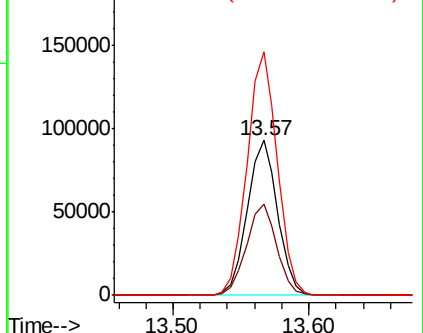
150 157.2 0.0 348.6



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



#76

1,2,3-Trichloropropane

Concen: 60.510 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005614.D

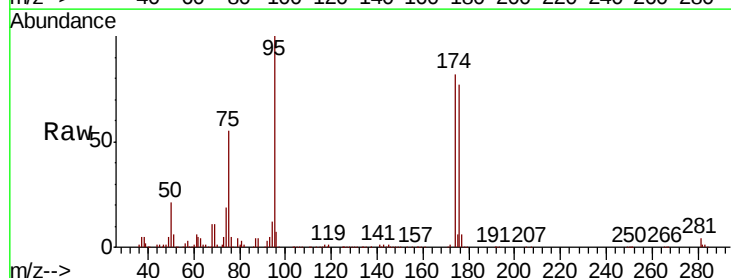
Acq: 25 Sep 2018 16:35

Tgt Ion: 75 Resp: 74606

Ion Ratio Lower Upper

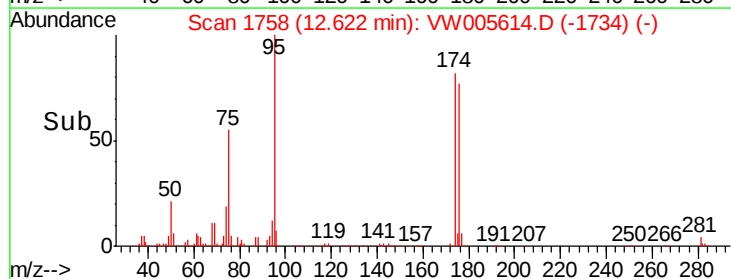
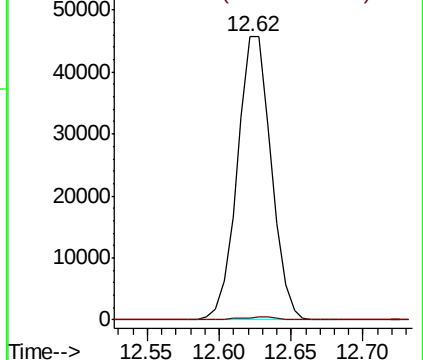
75 100

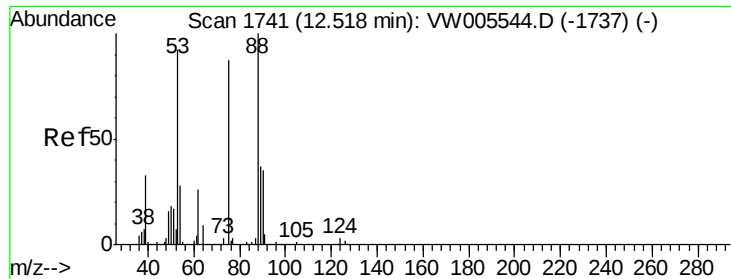
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 136.287 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005614.D

Acq: 25 Sep 2018 16:35

Instrument :

MSVOA\_W

ClientSampleId :

EP1-Q1-G3

Tgt Ion: 75 Resp: 74606

Ion Ratio Lower Upper

75 100

53 0.2 85.8 128.6#

89 0.0 37.3 55.9#

