

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY071620\  
 Data File : VY003214.D  
 Acq On : 16 Jul 2020 17:05  
 Operator : SY/MD  
 Sample : L3304-02  
 Misc : 6.06G/5ML/MSVOA Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 FK-GF-02-058-A

Quant Time: Jul 17 05:21:39 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 10 13:18:03 2020  
 Response via : Initial Calibration

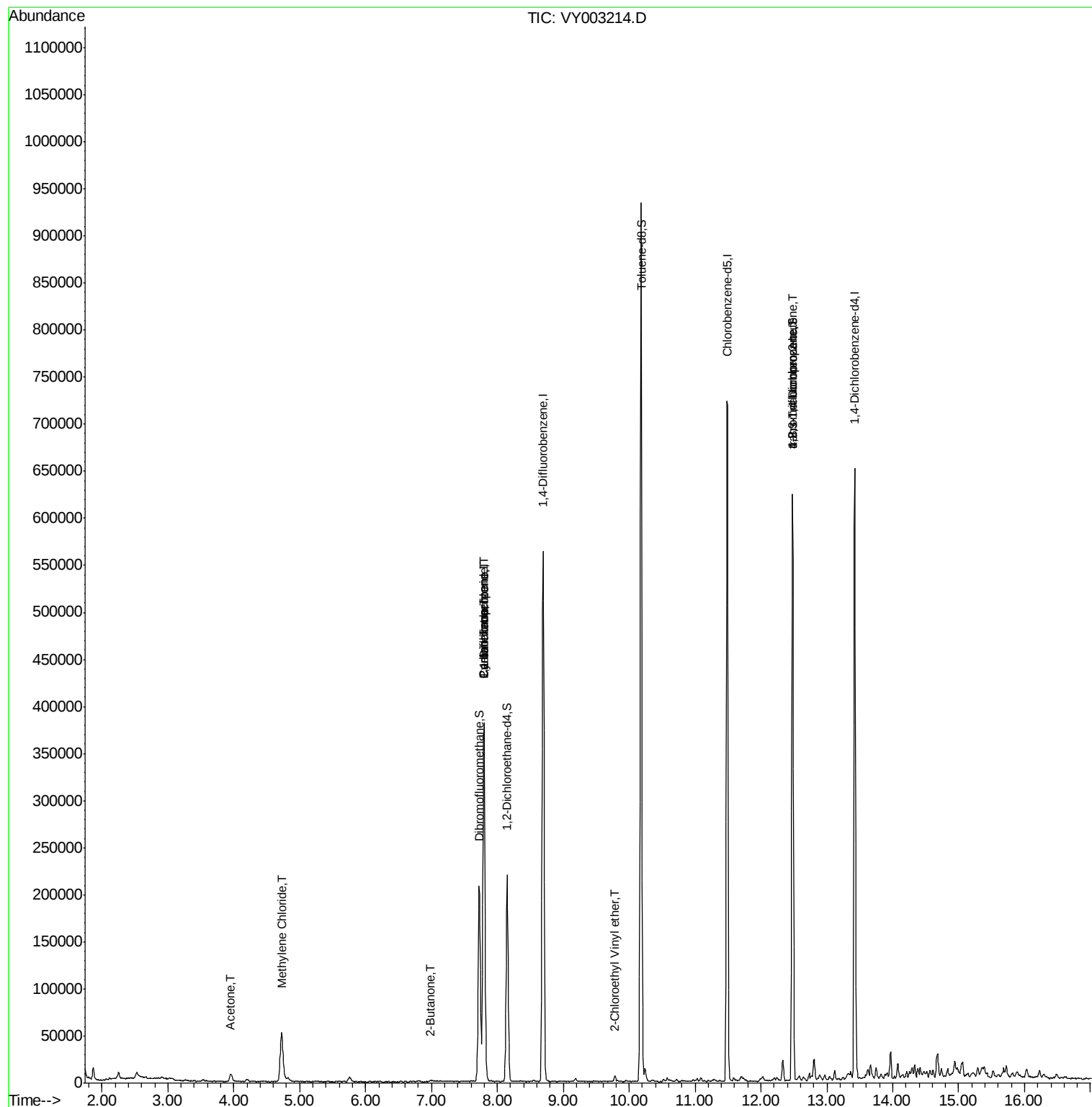
| Internal Standards             | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene          | 7.80  | 168  | 310242   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.69  | 114  | 473418   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.49 | 117  | 403375   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.42 | 152  | 165048   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.15  | 65   | 170248   | 65.02   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 130.04% |          |
| 35) Dibromofluoromethane       | 7.72  | 113  | 143457   | 52.66   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 105.32% |          |
| 50) Toluene-d8                 | 10.18 | 98   | 612912   | 60.51   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 121.02% |          |
| 62) 4-Bromofluorobenzene       | 12.48 | 95   | 179230   | 48.98   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 97.96%  |          |
| Target Compounds               |       |      |          |         |         |          |
| 16) Acetone                    | 3.95  | 43   | 13548    | 23.163  | ug/l    | 99       |
| 20) Methylene Chloride         | 4.73  | 84   | 39270    | 8.818   | ug/l    | 98       |
| 25) 2-Butanone                 | 6.99  | 43   | 1291     | 1.344   | ug/l #  | 49       |
| 31) Cyclohexane                | 7.79  | 56   | 6825     | 1.433   | ug/l #  | 14       |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 22668    | 5.283   | ug/l #  | 49       |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 28105    | 6.345   | ug/l #  | 18       |
| 58) 2-Chloroethyl Vinyl ether  | 9.77  | 63   | 2318     | 1.321   | ug/l    | 100      |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 92856    | 63.558  | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 92856    | 123.697 | ug/l #  | 13       |

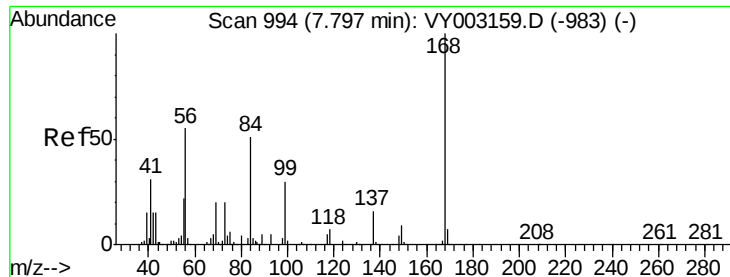
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY071620\  
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Sample : L3304-02  
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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
FK-GF-02-058-A

Quant Time: Jul 17 05:21:39 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 10 13:18:03 2020  
Response via : Initial Calibration

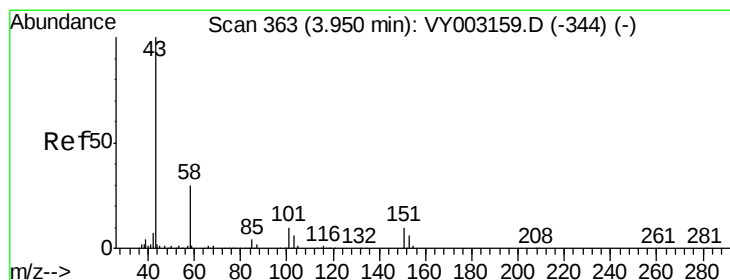
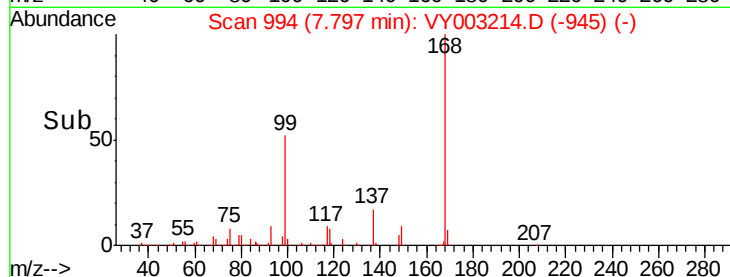
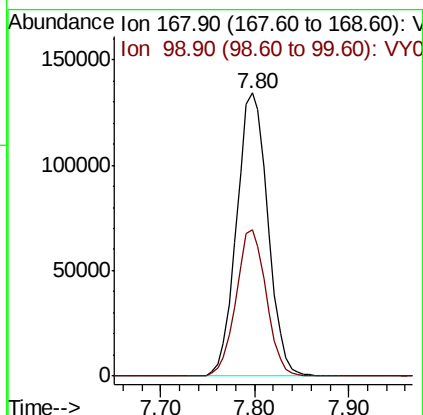
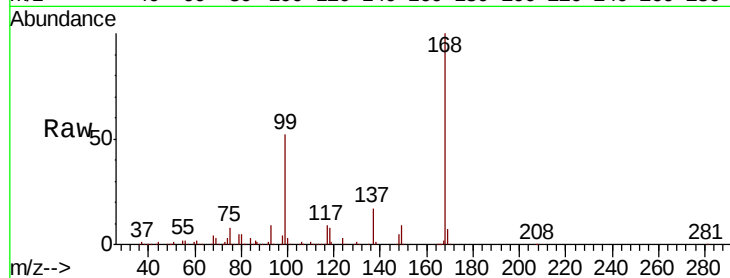




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.00 min  
Lab File: VY003214.D  
Acq: 16 Jul 2020 17:05

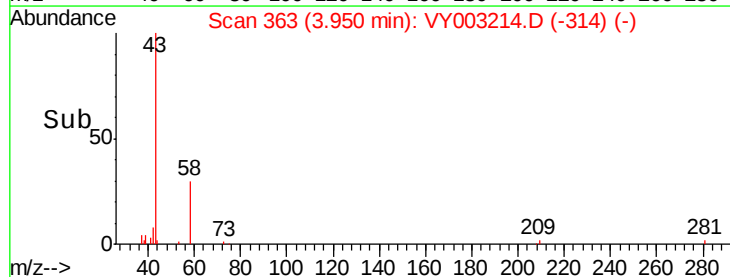
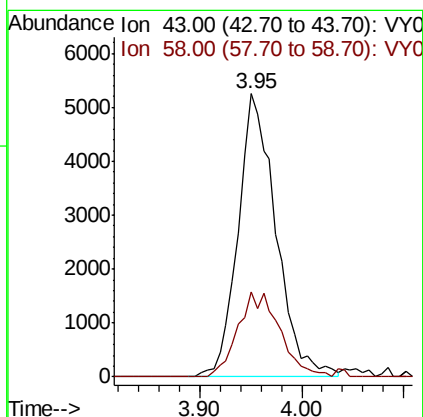
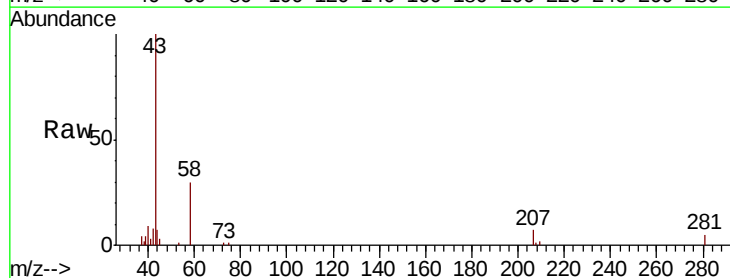
Instrument :  
MSVOA\_Y  
ClientSampleId :  
FK-GF-02-058-A

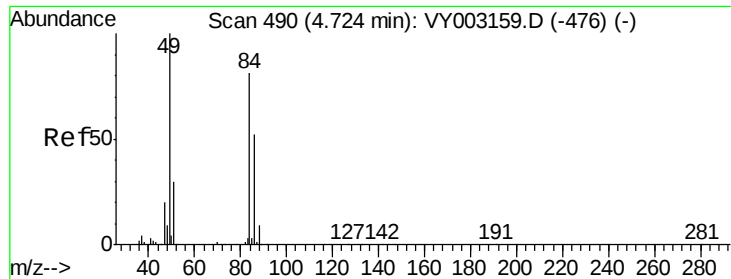
Tot Ion:168 Resp: 310242  
Ion Ratio Lower Upper  
168 100  
99 51.7 37.3 55.9



#16  
Acetone  
Concen: 23.163 ug/l  
RT: 3.95 min Scan# 363  
Delta R.T. -0.00 min  
Lab File: VY003214.D  
Acq: 16 Jul 2020 17:05

Tgt Ion: 43 Resp: 13548  
Ion Ratio Lower Upper  
43 100  
58 30.2 23.8 35.6

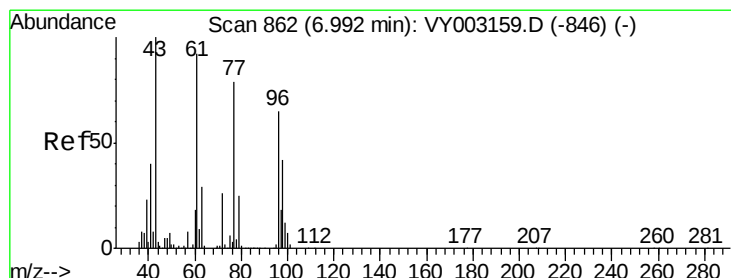
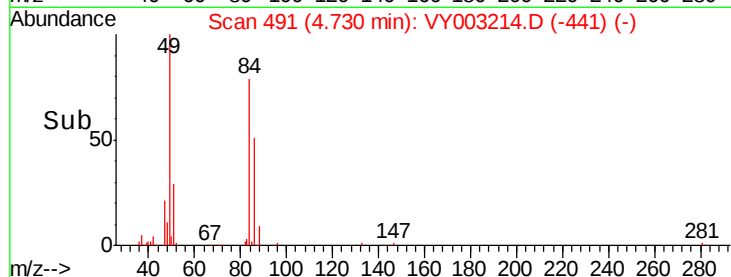
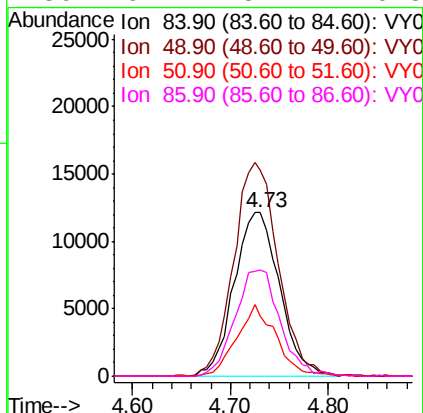
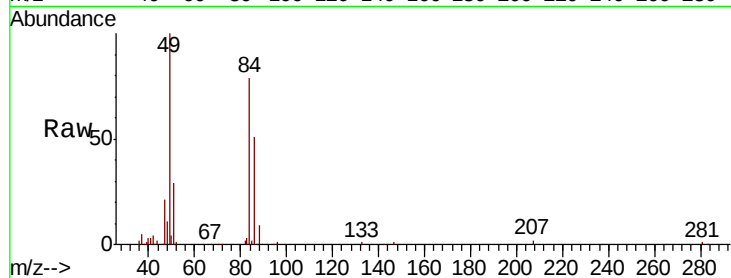




#20  
Methylene Chloride  
Concen: 8.818 ug/l  
RT: 4.73 min Scan# 491  
Delta R.T. 0.01 min  
Lab File: VY003214.D  
Acq: 16 Jul 2020 17:05

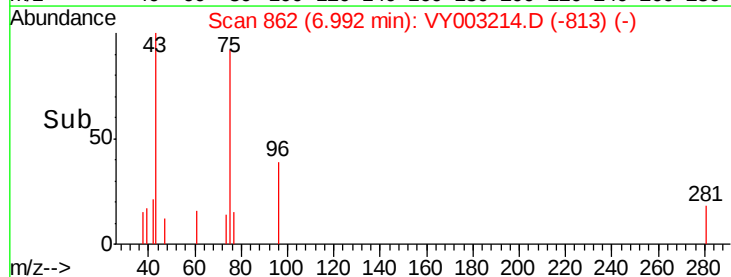
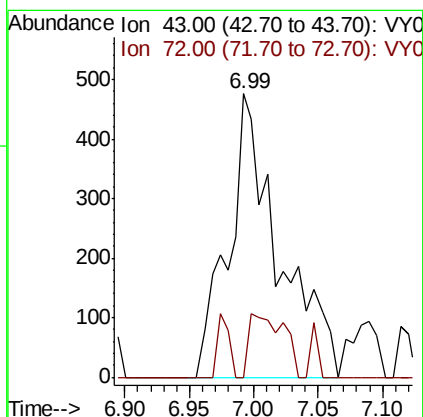
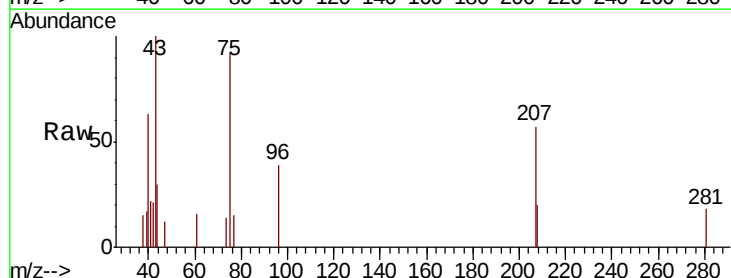
Instrument :  
MSVOA\_Y  
ClientSampleId :  
FK-GF-02-058-A

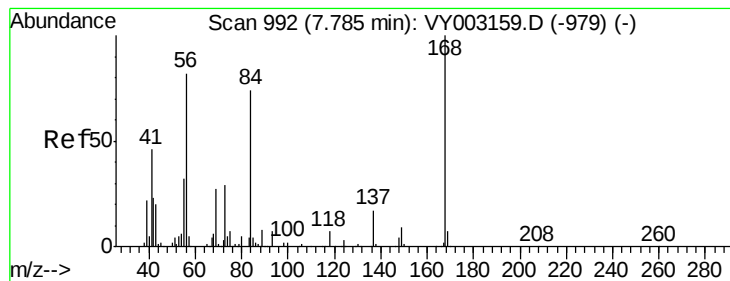
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 39270 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 126.1 | 98.2  | 147.4 |
| 51       | 36.8  | 29.8  | 44.6  |
| 86       | 64.7  | 51.2  | 76.8  |



#25  
2-Butanone  
Concen: 1.344 ug/l  
RT: 6.99 min Scan# 862  
Delta R.T. -0.00 min  
Lab File: VY003214.D  
Acq: 16 Jul 2020 17:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1291  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 20.9  | 31.3# |





#31

Cyclohexane

Concen: 1.433 ug/l

RT: 7.79 min Scan# 993

Delta R.T. 0.01 min

Lab File: VY003214.D

Acq: 16 Jul 2020 17:05

Instrument :

MSVOA\_Y

ClientSampleId :

FK-GF-02-058-A

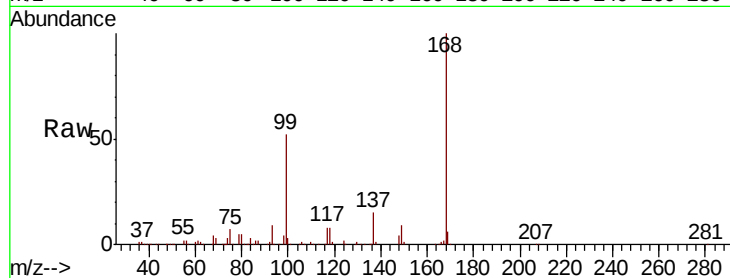
Tot Ion: 56 Resp: 6825

Ion Ratio Lower Upper

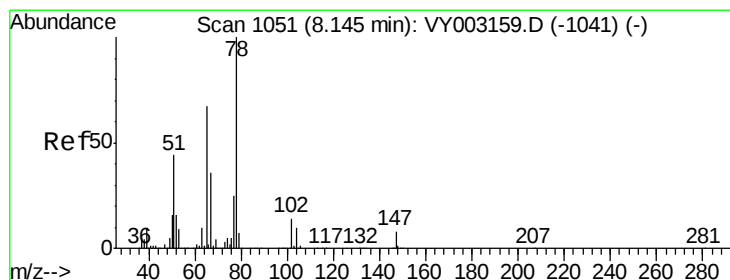
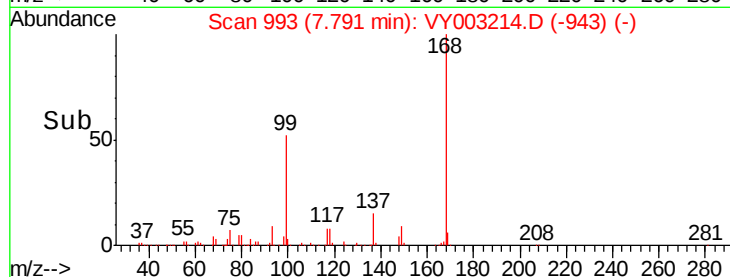
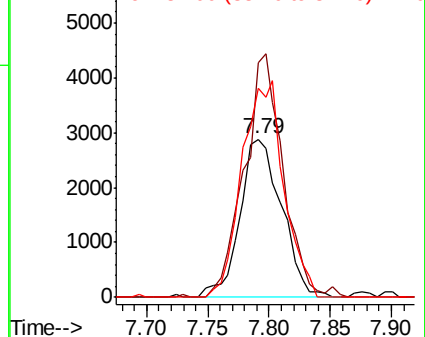
56 100

69 147.8 26.7 40.1#

84 131.7 72.3 108.5#



Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 65.016 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VY003214.D

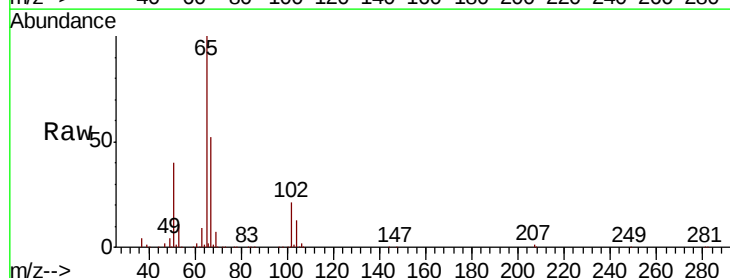
Acq: 16 Jul 2020 17:05

Tgt Ion: 65 Resp: 170248

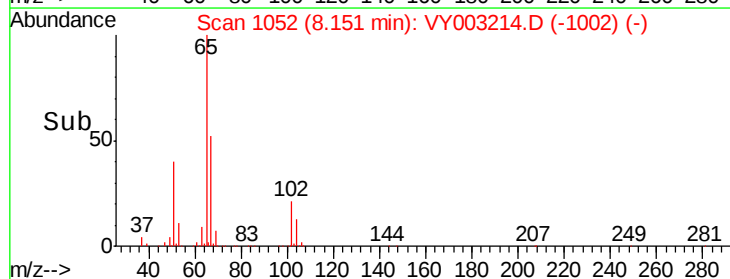
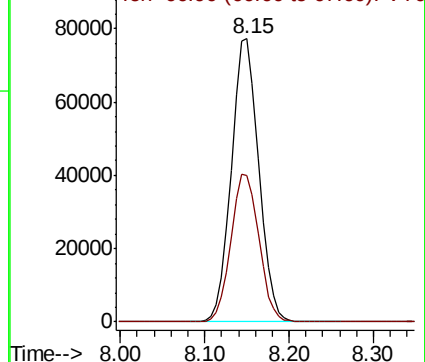
Ion Ratio Lower Upper

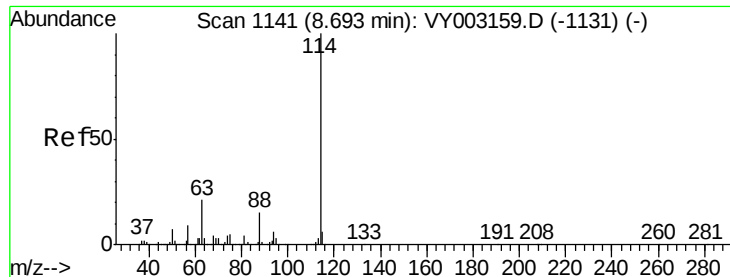
65 100

67 53.3 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VY0  
Ion 66.90 (66.60 to 67.60): VY0

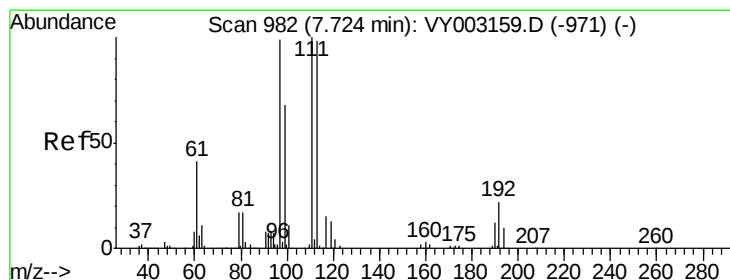
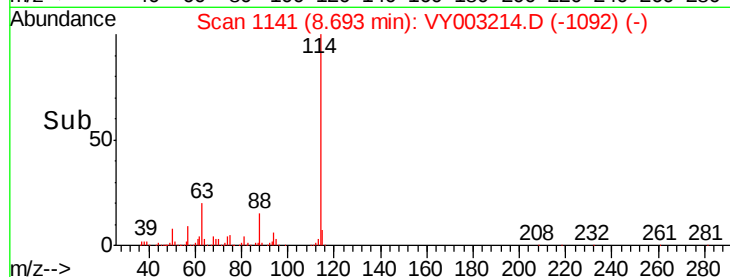
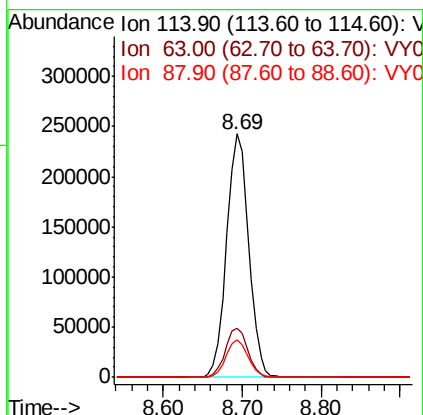
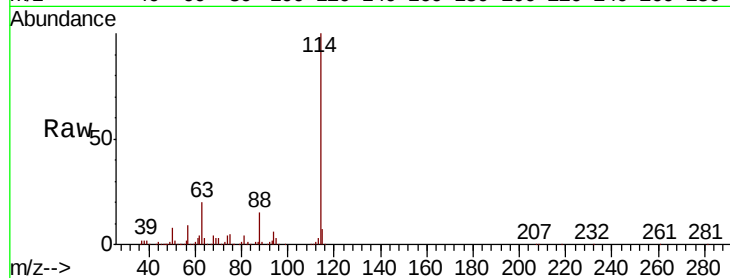




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1141  
 Delta R.T. -0.00 min  
 Lab File: VY003214.D  
 Acq: 16 Jul 2020 17:05

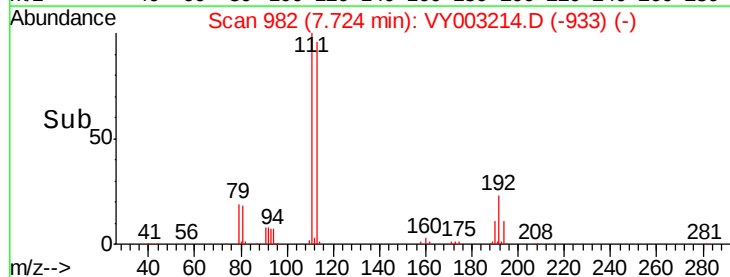
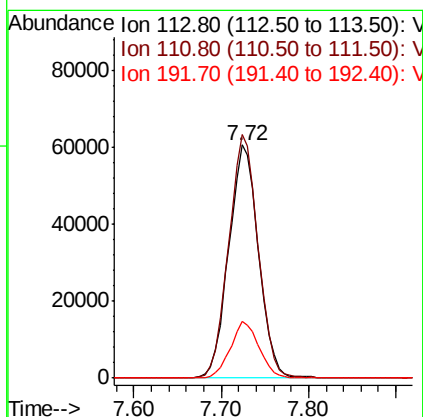
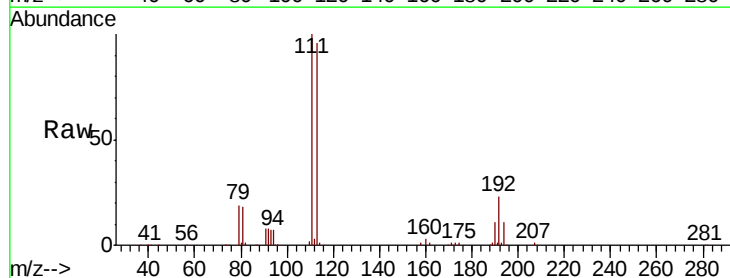
Instrument :  
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 FK-GF-02-058-A

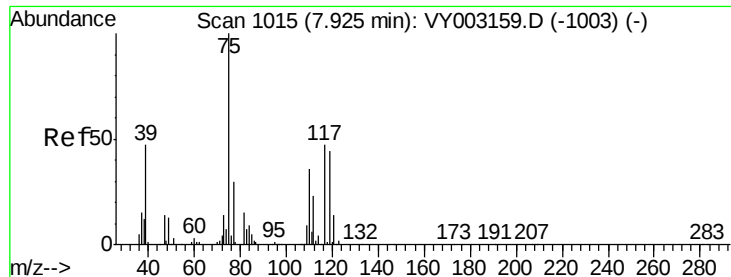
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.1  | 0.0   | 41.2  |
| 88      | 15.5  | 0.0   | 30.2  |



#35  
 Dibromofluoromethane  
 Concen: 52.656 ug/l  
 RT: 7.72 min Scan# 982  
 Delta R.T. -0.00 min  
 Lab File: VY003214.D  
 Acq: 16 Jul 2020 17:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.4 | 82.1  | 123.1 |
| 192     | 23.4  | 18.8  | 28.2  |





#36

1,1-Dichloropropene

Concen: 5.283 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY003214.D

Acq: 16 Jul 2020 17:05

Instrument :

MSVOA\_Y

ClientSampleId :

FK-GF-02-058-A

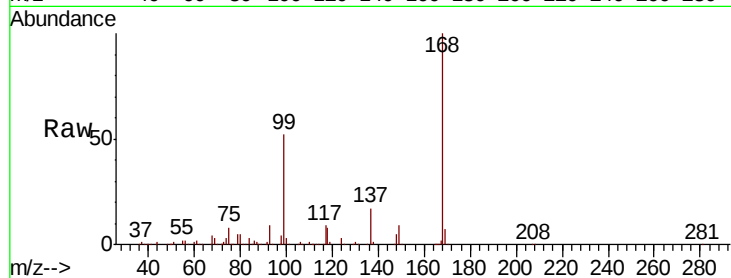
Tot Ion: 75 Resp: 22668

Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.1#

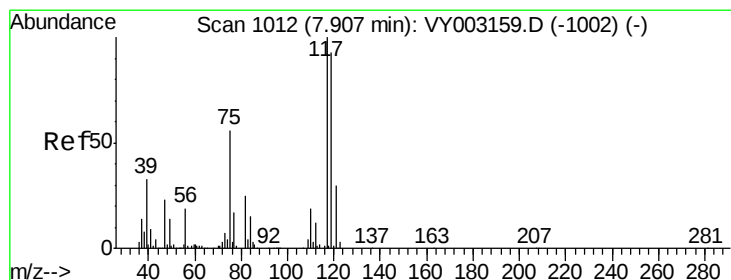
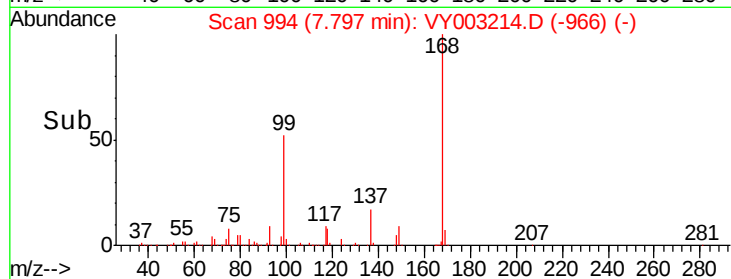
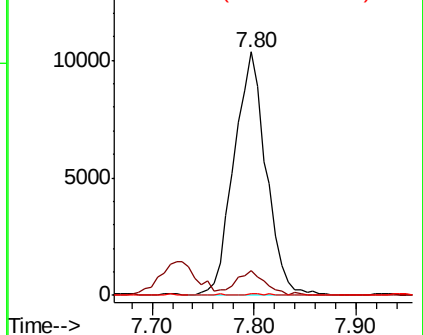
77 0.4 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0



#38

Carbon Tetrachloride

Concen: 6.345 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY003214.D

Acq: 16 Jul 2020 17:05

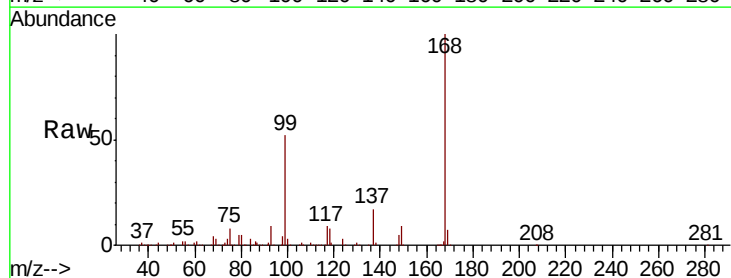
Tgt Ion: 117 Resp: 28105

Ion Ratio Lower Upper

117 100

119 5.9 74.5 111.7#

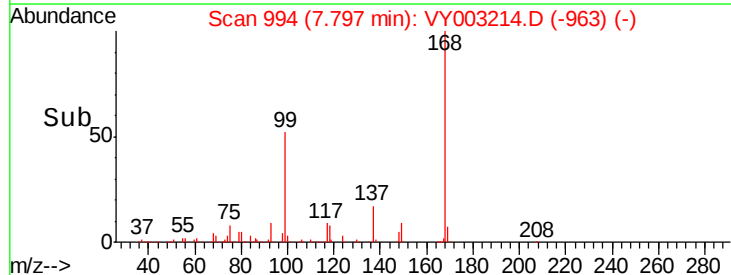
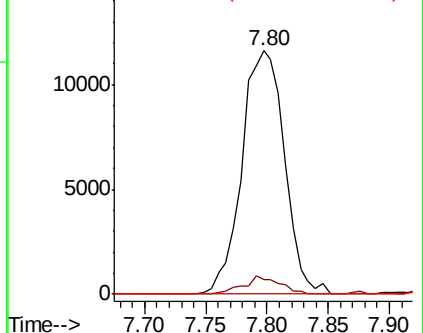
121 0.0 24.2 36.2#

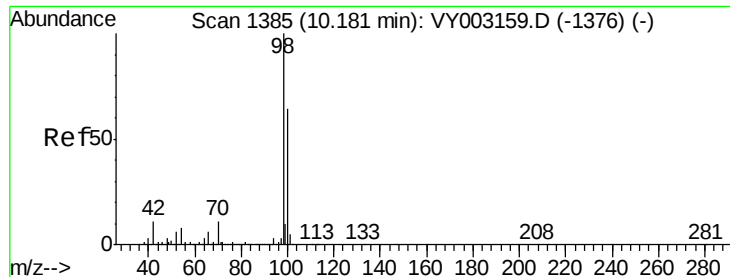


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 60.511 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003214.D

Acq: 16 Jul 2020 17:05

Instrument :

MSVOA\_Y

ClientSampleId :

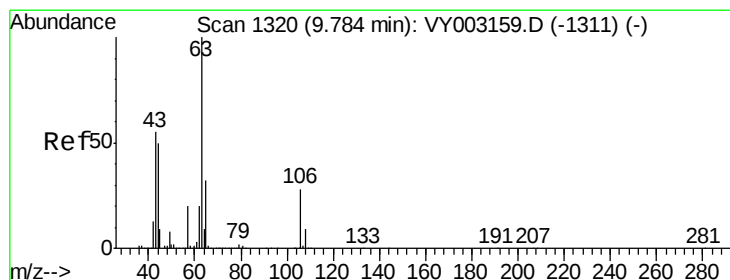
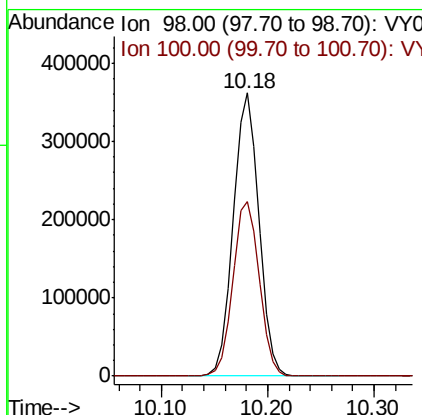
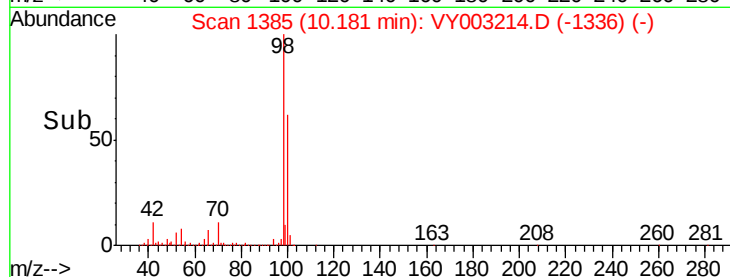
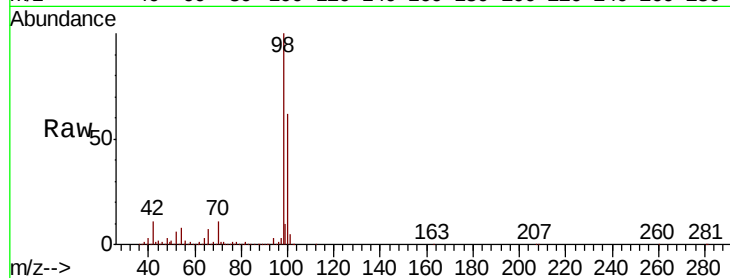
FK-GF-02-058-A

Tot Ion: 98 Resp: 612912

Ion Ratio Lower Upper

98 100

100 63.2 50.7 76.1



#58

2-Chloroethyl Vinyl ether

Concen: 1.321 ug/l

RT: 9.77 min Scan# 1318

Delta R.T. -0.01 min

Lab File: VY003214.D

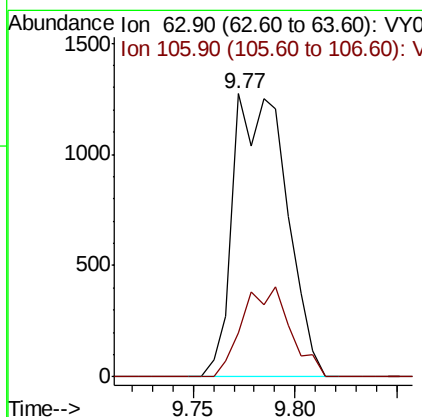
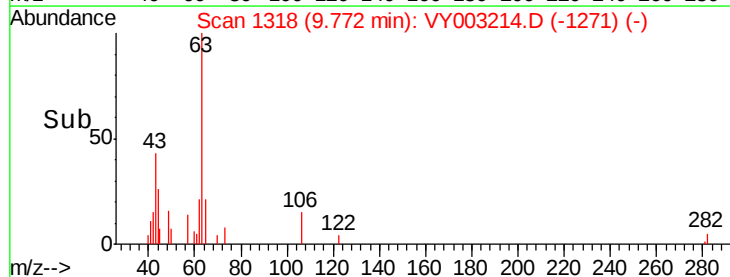
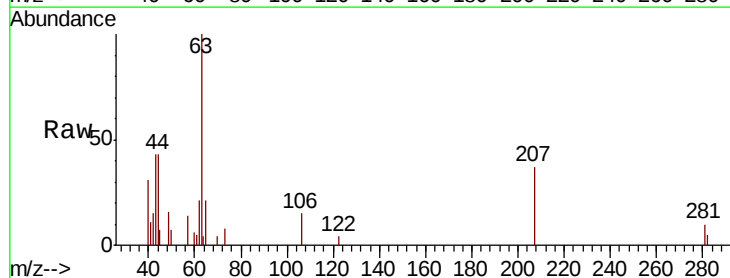
Acq: 16 Jul 2020 17:05

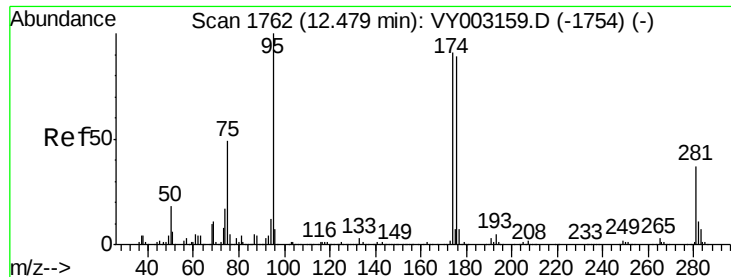
Tgt Ion: 63 Resp: 2318

Ion Ratio Lower Upper

63 100

106 28.5 22.9 34.3

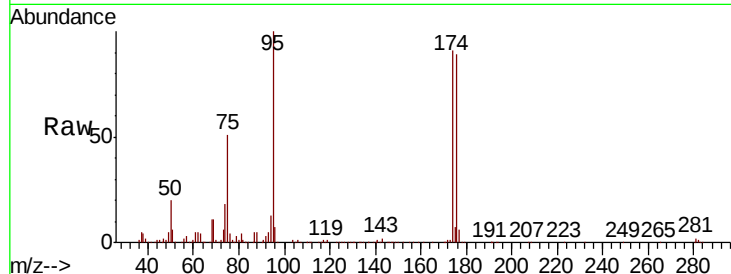




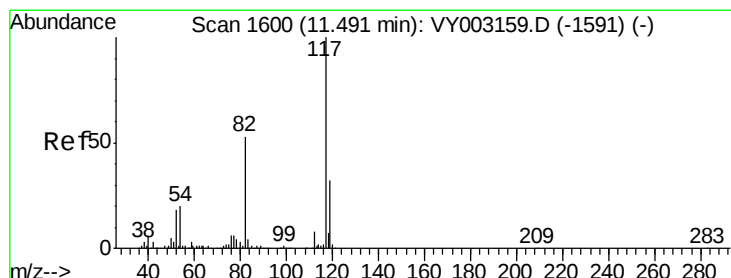
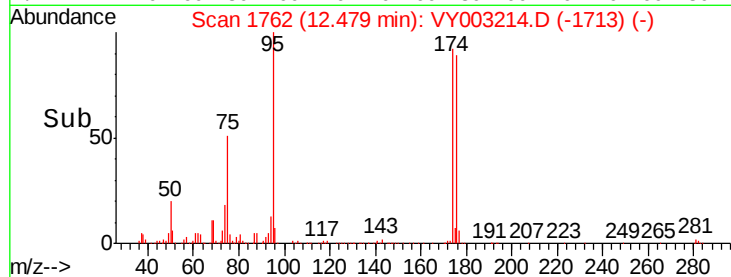
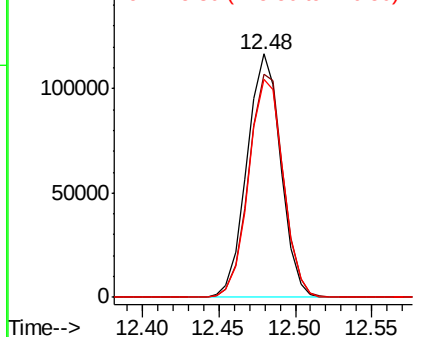
#62  
4-Bromofluorobenzene  
Concen: 48.981 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.00 min  
Lab File: VY003214.D  
Acq: 16 Jul 2020 17:05

Instrument :  
MSVOA\_Y  
ClientSampleId :  
FK-GF-02-058-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 93.9  | 0.0   | 190.6 |
| 176     | 91.7  | 0.0   | 186.4 |

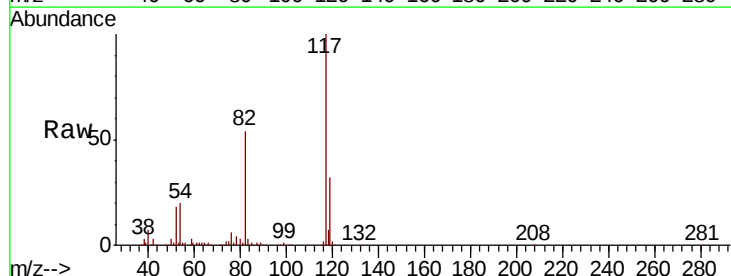


Abundance Ion 94.90 (94.60 to 95.60): VY003214.D (-1754) (-)  
Ion 173.80 (173.50 to 174.50): VY003214.D (-1754) (-)  
Ion 175.80 (175.50 to 176.50): VY003214.D (-1754) (-)

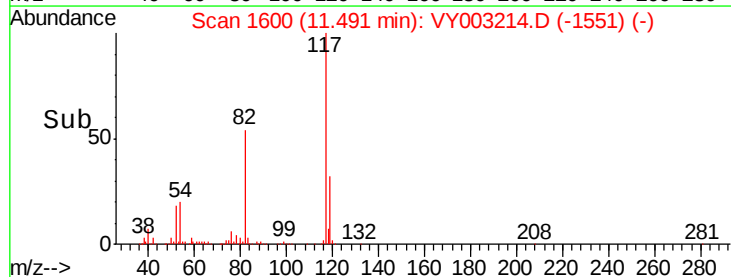
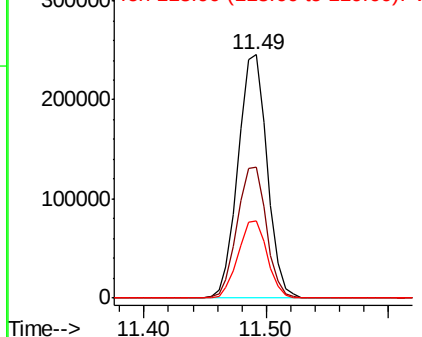


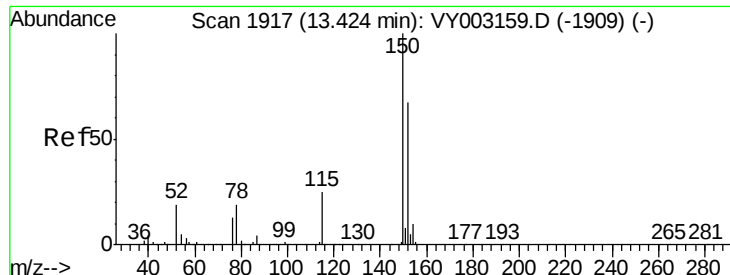
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY003214.D  
Acq: 16 Jul 2020 17:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.6  | 42.0  | 63.0  |
| 119     | 31.9  | 25.5  | 38.3  |



Abundance Ion 116.90 (116.60 to 117.60): VY003214.D (-1591) (-)  
Ion 82.00 (81.70 to 82.70): VY003214.D (-1591) (-)  
Ion 118.90 (118.60 to 119.60): VY003214.D (-1591) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. -0.00 min

Lab File: VY003214.D

Acq: 16 Jul 2020 17:05

Instrument :

MSVOA\_Y

ClientSampleId :

FK-GF-02-058-A

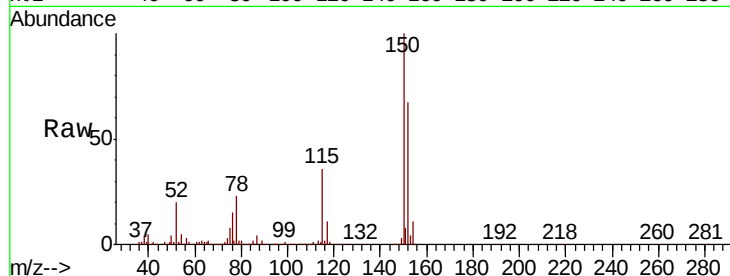
Tot Ion:152 Resp: 165048

Ion Ratio Lower Upper

152 100

115 54.3 26.9 80.7

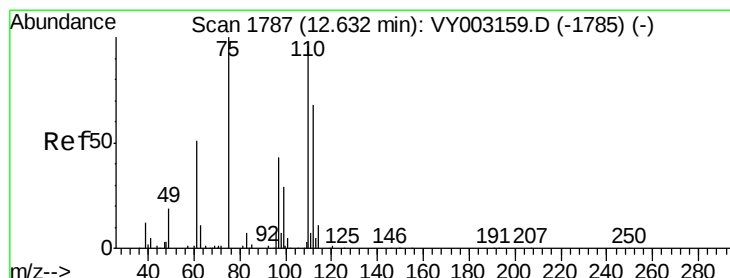
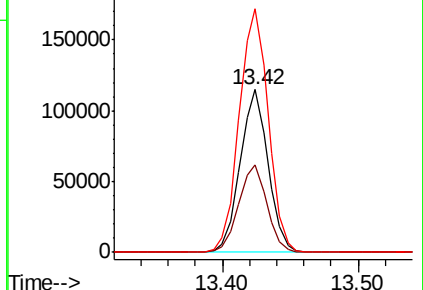
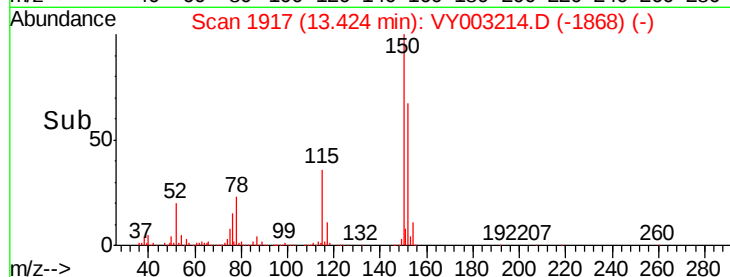
150 154.7 0.0 338.0



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: 63.558 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003214.D

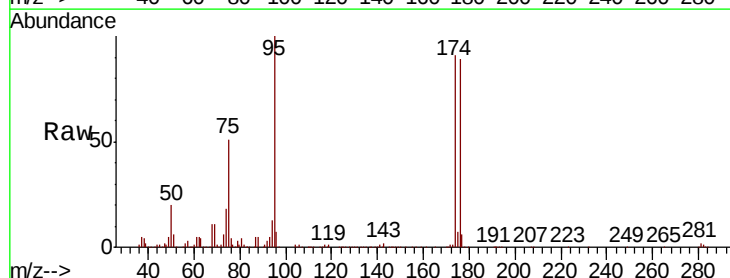
Acq: 16 Jul 2020 17:05

Tgt Ion: 75 Resp: 92856

Ion Ratio Lower Upper

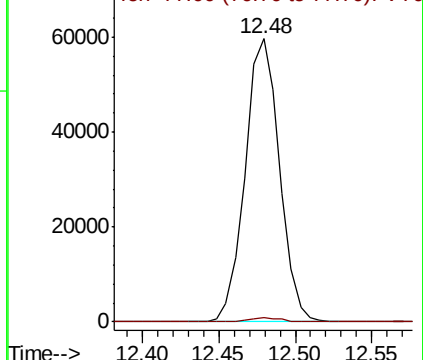
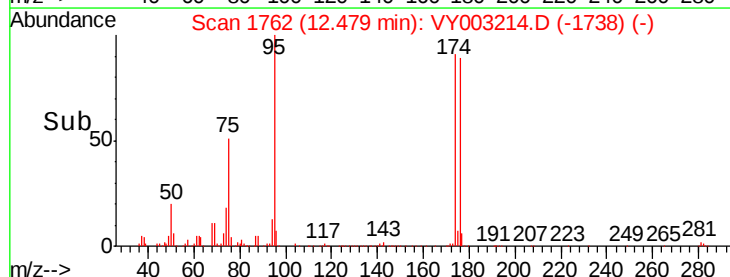
75 100

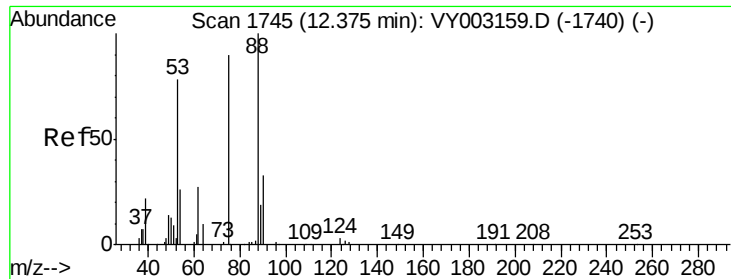
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 123.697 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003214.D

Acq: 16 Jul 2020 17:05

Instrument :

MSVOA\_Y

ClientSampleId :

FK-GF-02-058-A

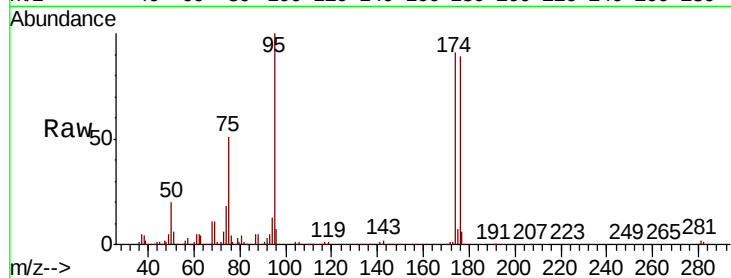
Tot Ion: 75 Resp: 92856

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 37.3 55.9#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

