

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071018\  
 Data File : VF059494.D  
 Acq On : 10 Jul 2018 19:48  
 Operator : VA/AP  
 Sample : J3880-02RE  
 Misc : 5.47g/5mL/MSVOA F/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SURCHARGE-SP-11RE

Manual Integrations  
 APPROVED

apatel  
 7/11/2018 12:07:25 PM

Quant Time: Jul 11 01:41:32 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F070718S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 07 06:35:36 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 5.03  | 168  | 198158   | 50.00 | ug/l   | 0.03     |
| 34) 1,4-Difluorobenzene     | 5.75  | 114  | 298152   | 50.00 | ug/l   | 0.02     |
| 63) Chlorobenzene-d5        | 9.90  | 117  | 258406   | 50.00 | ug/l   | 0.02     |
| 72) 1,4-Dichlorobenzene-d4  | 12.62 | 152  | 122124   | 50.00 | ug/l   | 0.01     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.01  | 65   | 125009   | 36.27 | ug/l   | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 72.54% |          |
| 35) Dibromofluoromethane    | 4.29  | 113  | 109304   | 38.21 | ug/l   | 0.03     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 76.42% |          |
| 50) Toluene-d8              | 7.70  | 98   | 207405   | 30.82 | ug/l   | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 61.64% |          |
| 62) 4-Bromofluorobenzene    | 11.50 | 95   | 98867    | 26.34 | ug/l   | 0.02     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 52.68% |          |
| Target Compounds            |       |      |          |       |        |          |
| 20) Methylene Chloride      | 2.31  | 84   | 10778m   | 3.36  | ug/l   | Qvalue   |

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

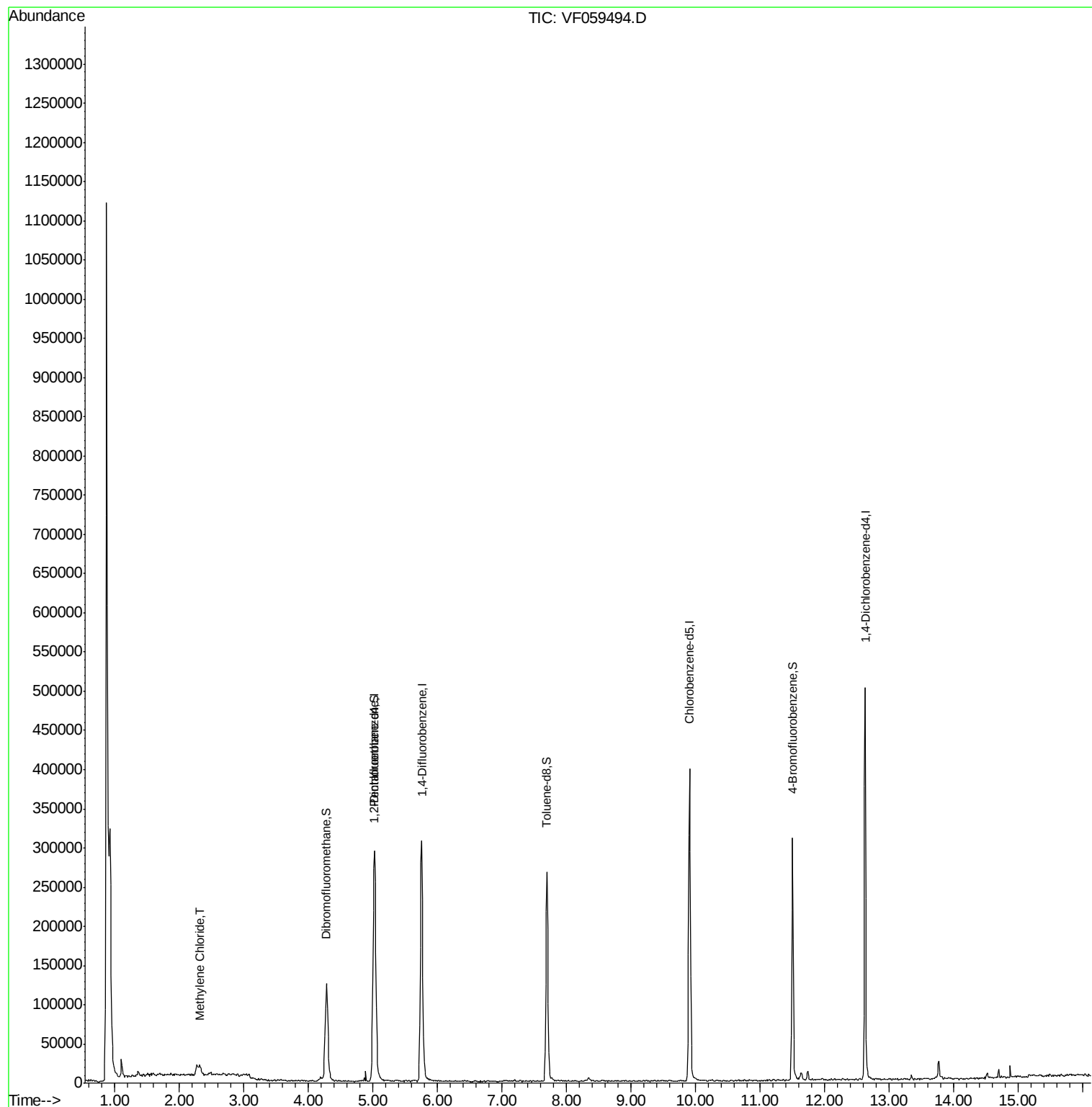
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF071018\  
Data File : VF059494.D  
Acq On : 10 Jul 2018 19:48  
Operator : VA/AP  
Sample : J3880-02RE  
Misc : 5.47g/5mL/MSVOA F/SOIL  
ALS Vial : 17 Sample Multiplier: 1

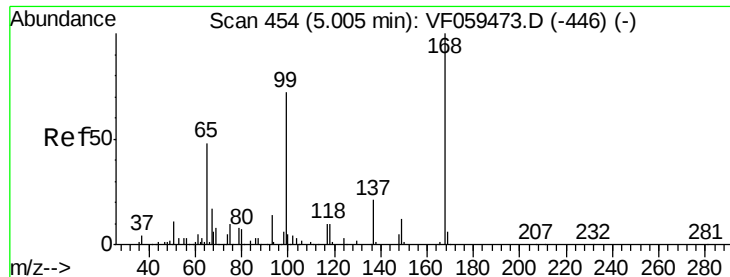
Instrument :  
MSVOA\_F  
ClientSampleId :  
SURCHARGE-SP-11RE

Manual Integrations  
APPROVED

apatel  
7/11/2018 12:07:25 PM

Quant Time: Jul 11 01:41:32 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F070718S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jul 07 06:35:36 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.03 min

Lab File: VF059494.D

Acq: 10 Jul 2018 19:48

Instrument :

MSVOA\_F

ClientSampleId :

SURCHARGE-SP-11RE

Tot Ion:168 Resp: 198158

Ion Ratio Lower Upper

168 100

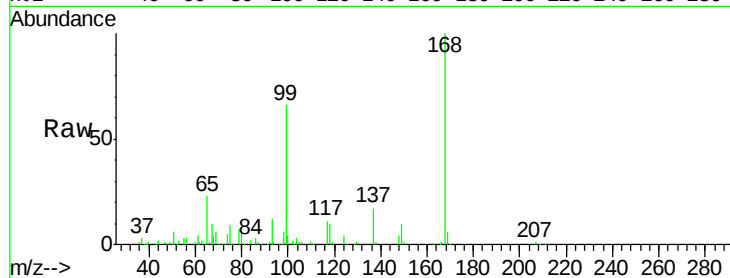
99 66.0 57.7 86.5

Manual Integrations

APPROVED

apatel

7/11/2018 12:07:25 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

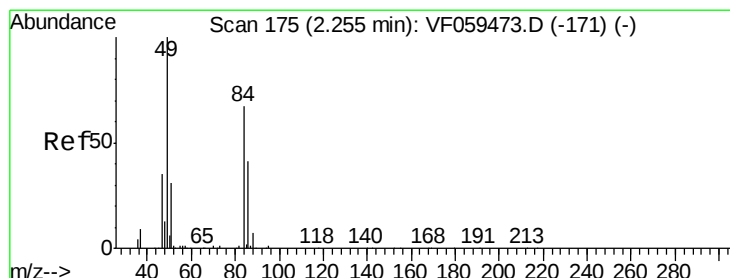
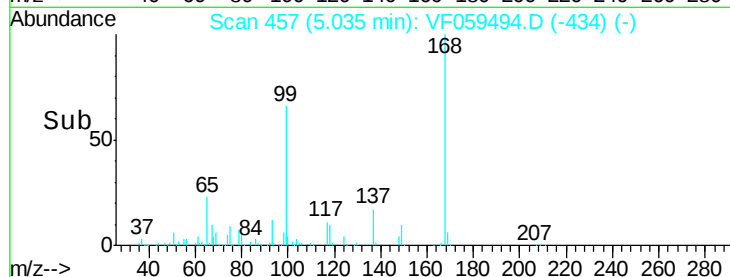
60000

40000

20000

0

Time-->



#20

Methylene Chloride

Concen: 3.36 ug/l m

RT: 2.31 min Scan# 181

Delta R.T. 0.06 min

Lab File: VF059494.D

Acq: 10 Jul 2018 19:48

Tgt Ion: 84 Resp: 10778

Ion Ratio Lower Upper

84 100

49 138.6 120.4 180.6

51 43.8 38.1 57.1

86 55.5 49.0 73.4

Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

6000

5000

4000

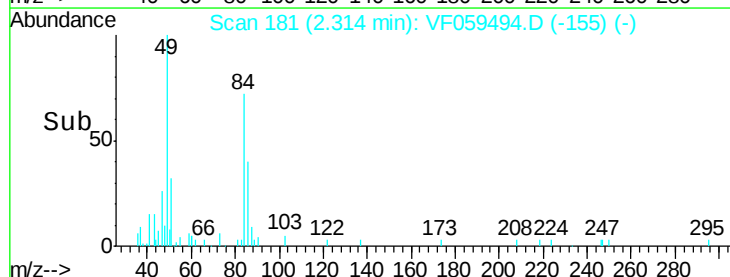
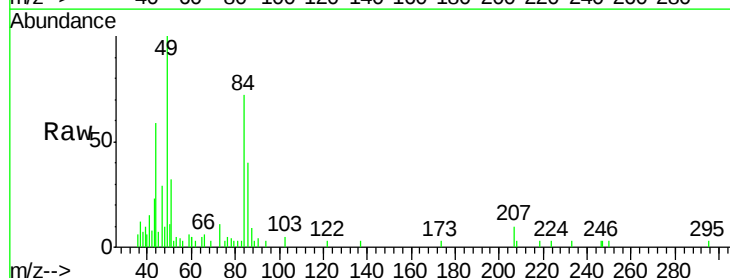
3000

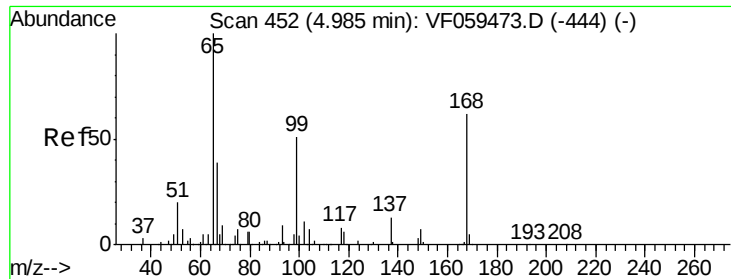
2000

1000

0

Time-->





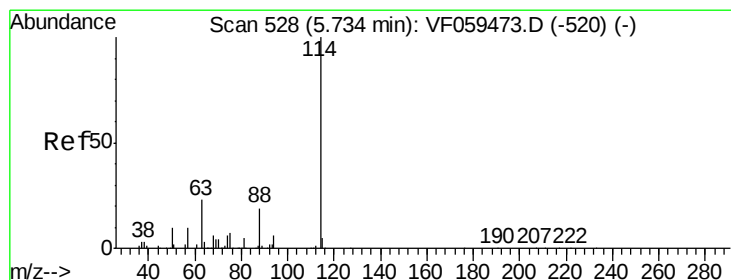
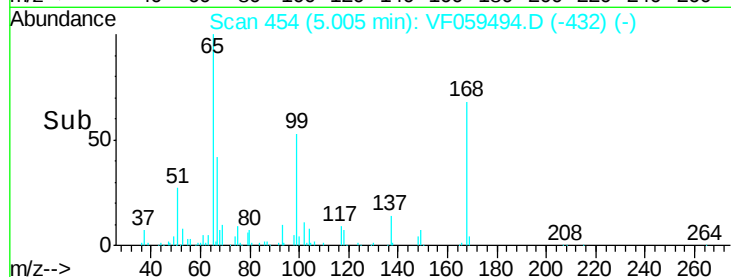
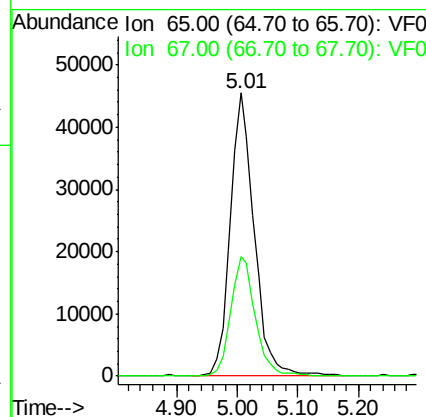
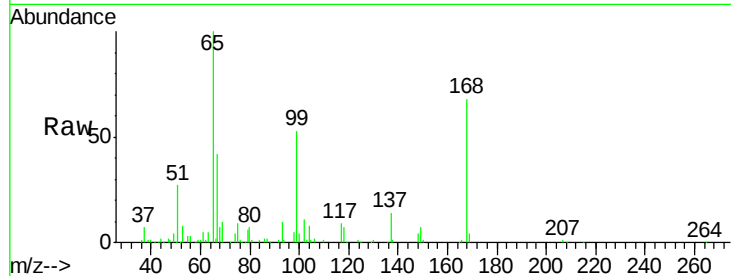
#33  
 1,2-Dichloroethane-d4  
 Concen: 36.27 ug/l  
 RT: 5.01 min Scan# 454  
 Delta R.T. 0.02 min  
 Lab File: VF059494.D  
 Acq: 10 Jul 2018 19:48

Instrument :  
 MSVOA\_F  
 ClientSampleID :  
 SURCHARGE-SP-11RE

Tot Ion: 65 Resp: 125009  
 Ion Ratio Lower Upper  
 65 100  
 67 42.2 0.0 88.6

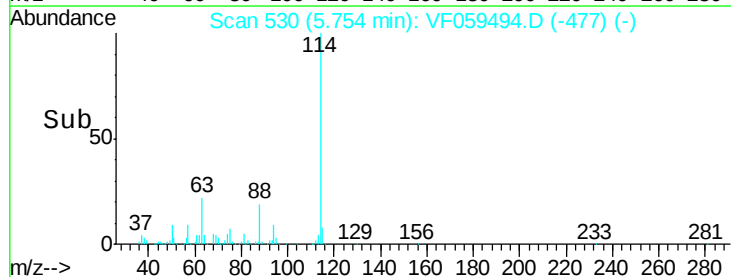
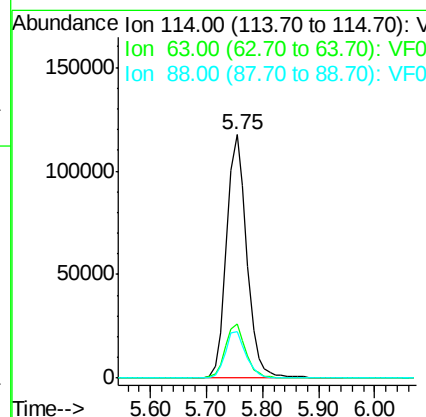
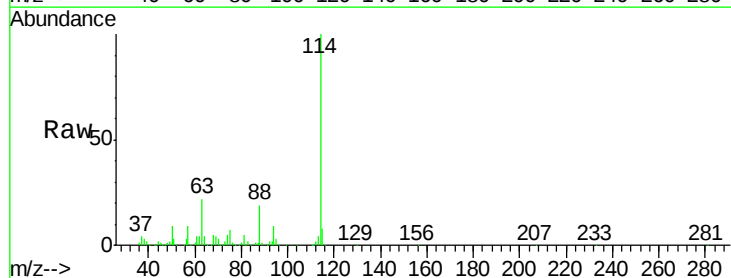
Manual Integrations  
 APPROVED

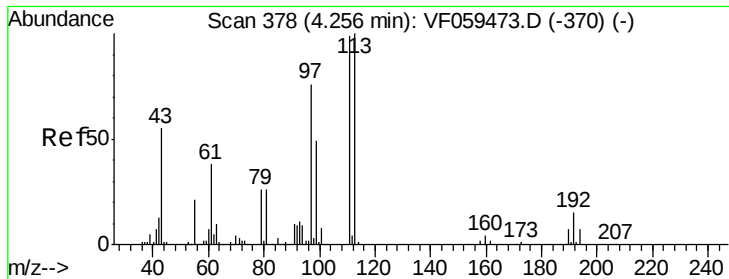
apatel  
 7/11/2018 12:07:25 PM



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 5.75 min Scan# 530  
 Delta R.T. 0.02 min  
 Lab File: VF059494.D  
 Acq: 10 Jul 2018 19:48

Tgt Ion: 114 Resp: 298152  
 Ion Ratio Lower Upper  
 114 100  
 63 22.4 0.0 47.2  
 88 18.9 0.0 38.0





#35

Dibromofluoromethane

Concen: 38.21 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.03 min

Lab File: VF059494.D

Acq: 10 Jul 2018 19:48

Instrument :

MSVOA\_F

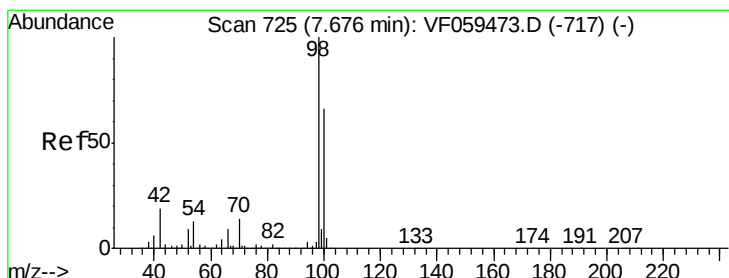
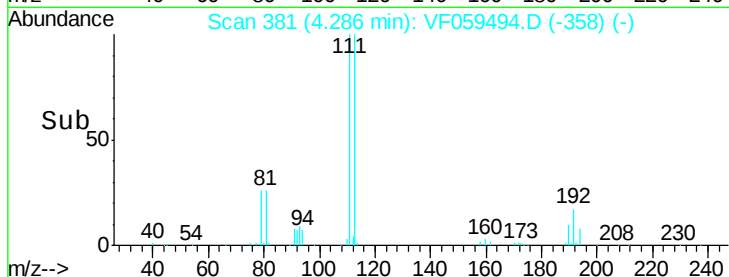
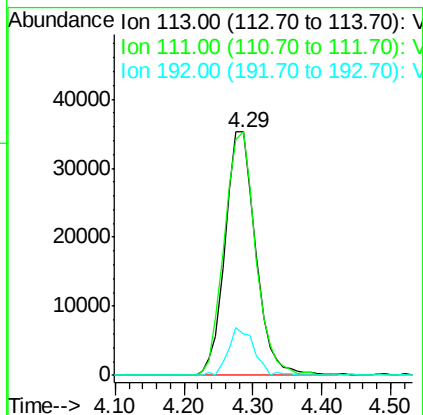
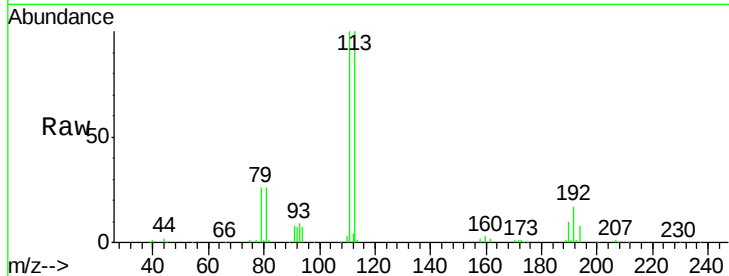
ClientSampleId :

SURCHARGE-SP-11RE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 113   | Resp: | 109304 |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 111       | 99.8  | 79.3  | 118.9  |
| 192       | 16.9  | 12.0  | 18.0   |

Manual Integrations  
APPROVED

apatel  
7/11/2018 12:07:25 PM



#50

Toluene-d8

Concen: 30.82 ug/l

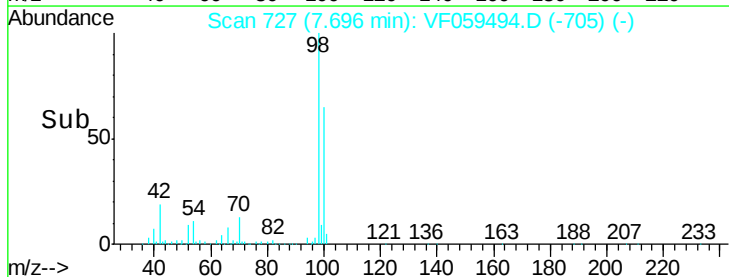
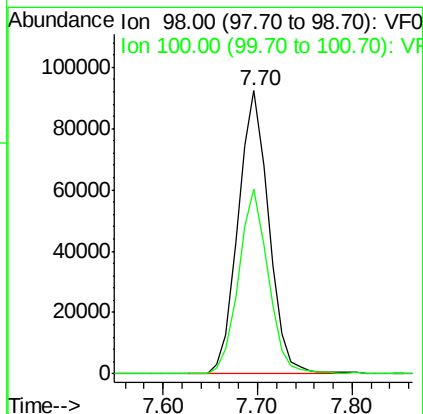
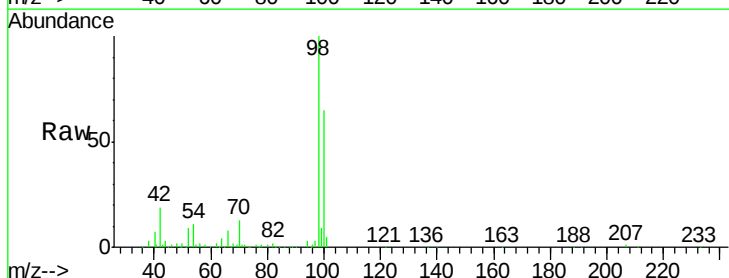
RT: 7.70 min Scan# 727

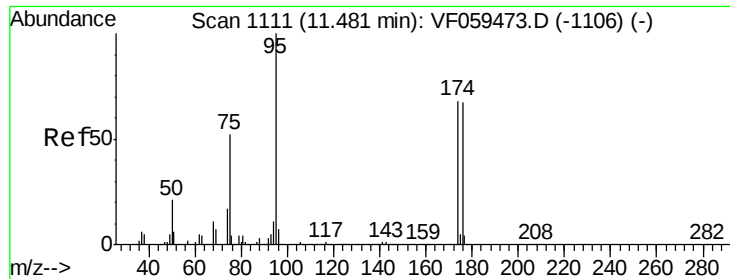
Delta R.T. 0.02 min

Lab File: VF059494.D

Acq: 10 Jul 2018 19:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 98    | Resp: | 207405 |
| Ion Ratio | Lower | Upper |        |
| 98        | 100   |       |        |
| 100       | 65.4  | 52.6  | 78.8   |





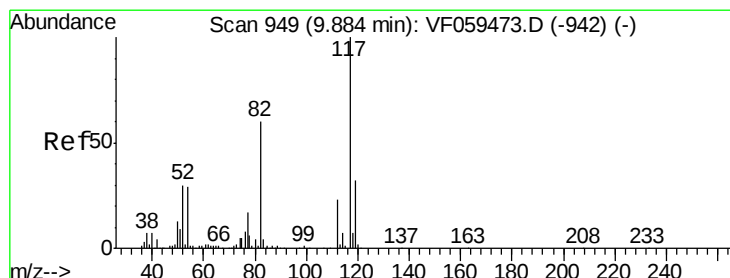
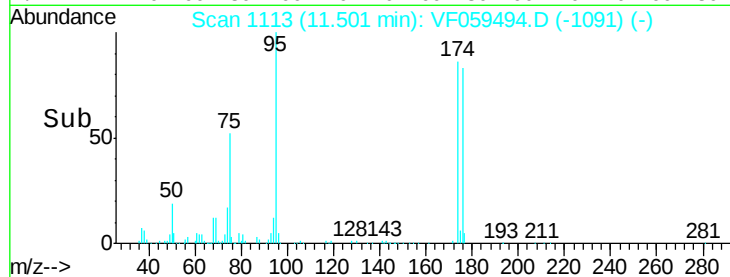
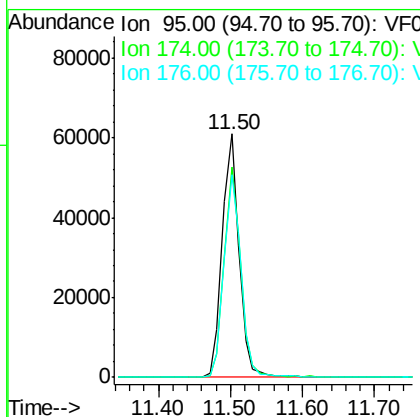
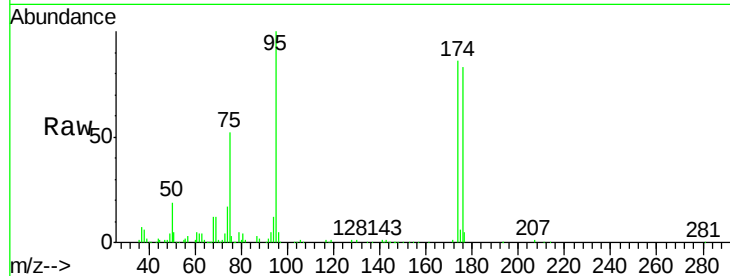
#62  
4-Bromofluorobenzene  
Concen: 26.34 ug/l  
RT: 11.50 min Scan# 1113  
Delta R.T. 0.02 min  
Lab File: VF059494.D  
Acq: 10 Jul 2018 19:48

Instrument :  
MSVOA\_F  
ClientSampleId :  
SURCHARGE-SP-11RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 86.4  | 0.0   | 137.0 |
| 176     | 83.0  | 0.0   | 133.8 |

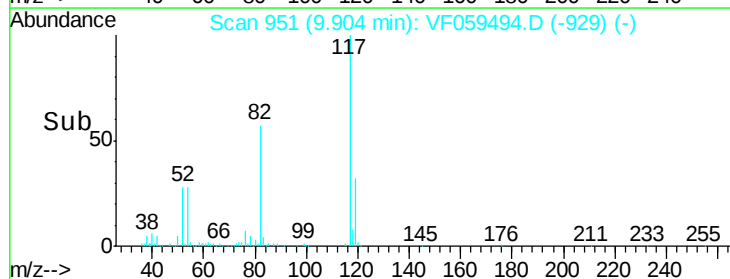
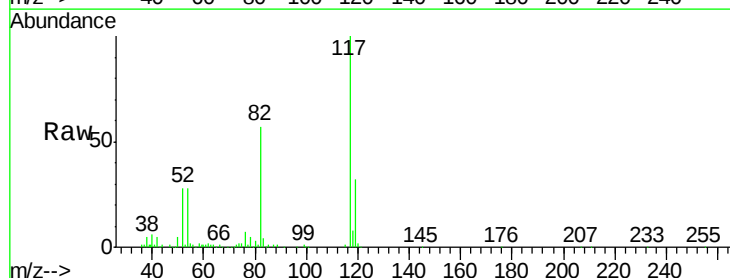
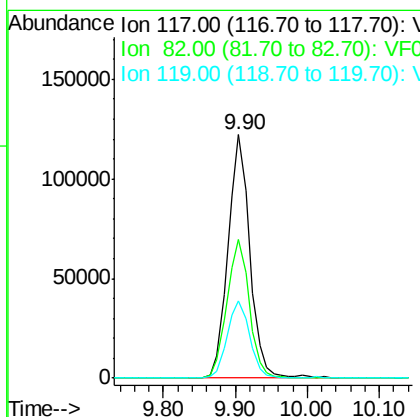
Manual Integrations  
APPROVED

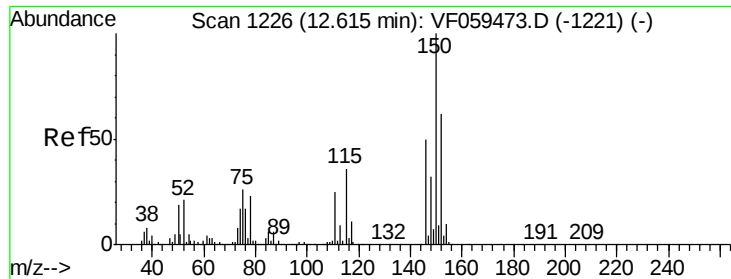
apatel  
7/11/2018 12:07:25 PM



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.90 min Scan# 951  
Delta R.T. 0.02 min  
Lab File: VF059494.D  
Acq: 10 Jul 2018 19:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.2  | 48.2  | 72.4  |
| 119     | 31.6  | 25.7  | 38.5  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. 0.01 min

Lab File: VF059494.D

Acq: 10 Jul 2018 19:48

Instrument :

MSVOA\_F

ClientSampleId :

SURCHARGE-SP-11RE

Tot Ion:152 Resp: 122124

Ion Ratio Lower Upper

152 100

115 57.6 28.7 86.3

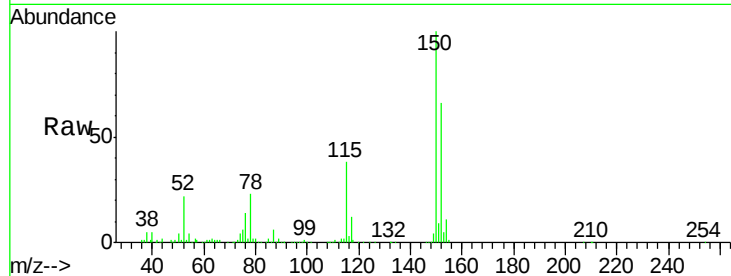
150 151.2 0.0 323.8

Manual Integrations

APPROVED

apatel

7/11/2018 12:07:25 PM



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

