

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\  
 Data File : VN063561.D  
 Acq On : 23 Sep 2020 3:39  
 Operator : JC/MD  
 Sample : L3872-11  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BU-02-092120

Quant Time: Sep 23 07:14:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 13:05:20 2020  
 Response via : Initial Calibration

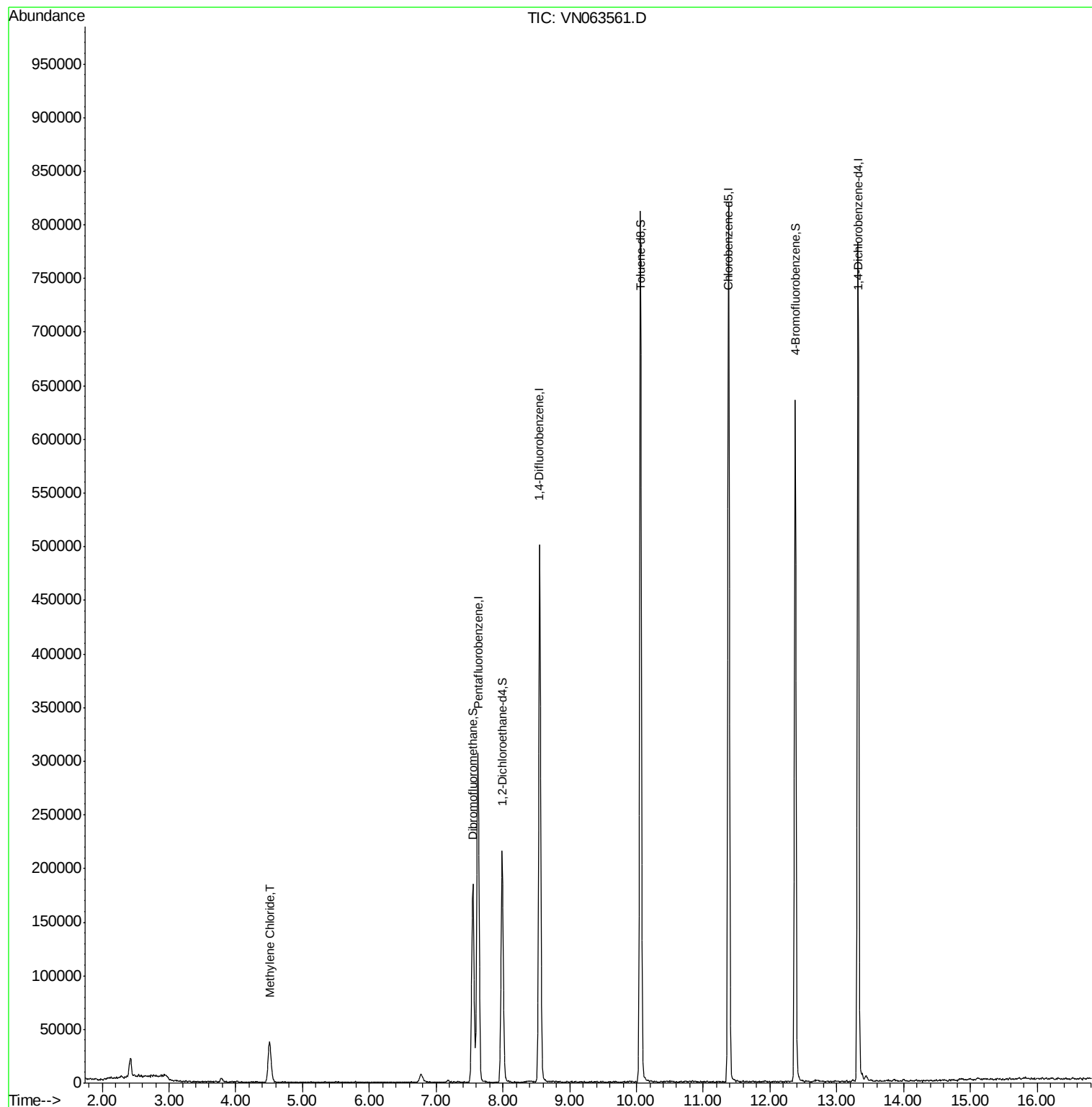
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|---------|-----------|
| 1) Pentafluorobenzene       | 7.63  | 168  | 223306   | 50.00 | ug/l    | 0.00      |
| 34) 1,4-Difluorobenzene     | 8.55  | 114  | 419010   | 50.00 | ug/l    | 0.00      |
| 63) Chlorobenzene-d5        | 11.38 | 117  | 423178   | 50.00 | ug/l    | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 13.32 | 152  | 185775   | 50.00 | ug/l    | 0.00      |
| System Monitoring Compounds |       |      |          |       |         |           |
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 191147   | 50.29 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.58% |           |
| 35) Dibromofluoromethane    | 7.55  | 113  | 135343   | 46.66 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 93.32%  |           |
| 50) Toluene-d8              | 10.06 | 98   | 537285   | 49.26 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.52%  |           |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 214356   | 53.61 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 107.22% |           |
| Target Compounds            |       |      |          |       |         |           |
| 20) Methylene Chloride      | 4.50  | 84   | 27895    | 9.012 | ug/l    | Qvalue 91 |

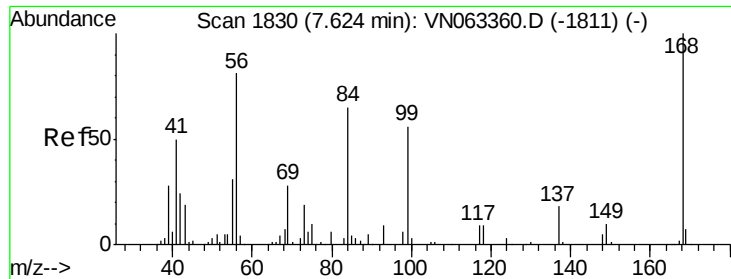
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Sep 16 13:05:20 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063561.D

Acq: 23 Sep 2020 3:39

Instrument :

MSVOA\_N

ClientSampleId :

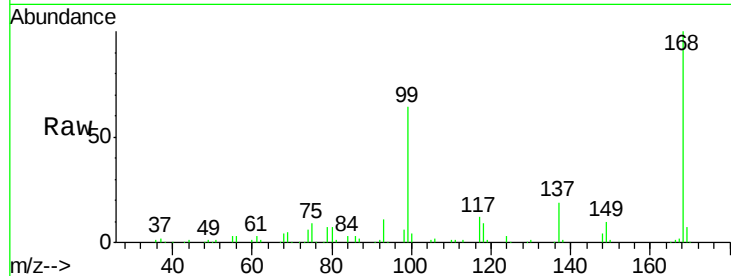
BU-02-092120

Tot Ion:168 Resp: 223306

Ion Ratio Lower Upper

168 100

99 64.0 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

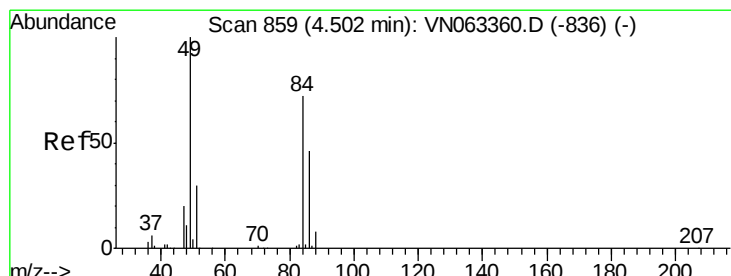
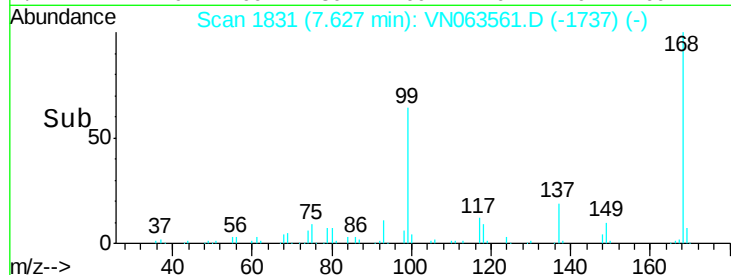
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#20

Methylene Chloride

Concen: 9.012 ug/l

RT: 4.50 min Scan# 859

Delta R.T. -0.00 min

Lab File: VN063561.D

Acq: 23 Sep 2020 3:39

Tgt Ion: 84 Resp: 27895

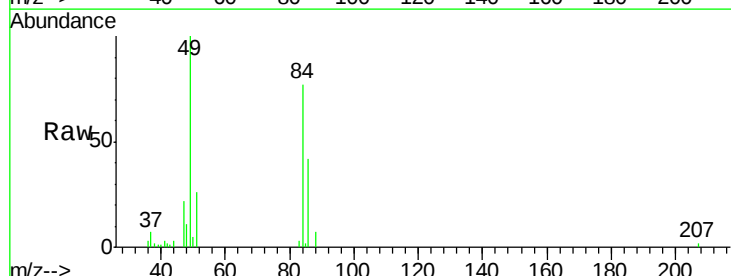
Ion Ratio Lower Upper

84 100

49 130.7 110.7 166.1

51 34.5 32.9 49.3

86 54.6 51.1 76.7



Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO

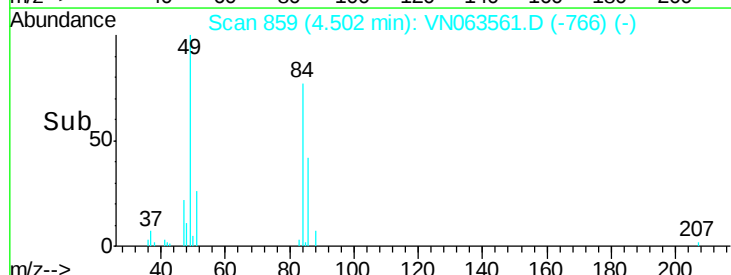
15000

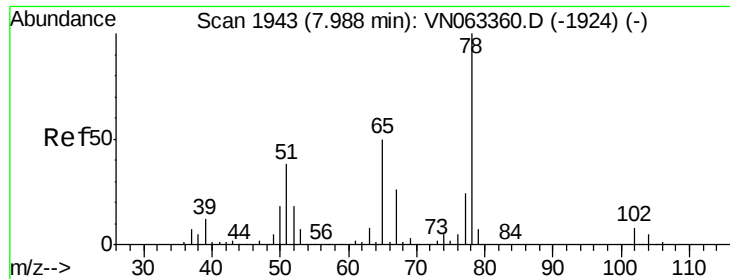
10000

5000

0

Time--> 4.40 4.50 4.60





#33

1,2-Dichloroethane-d4

Concen: 50.285 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063561.D

Acq: 23 Sep 2020 3:39

Instrument :

MSVOA\_N

ClientSampleId :

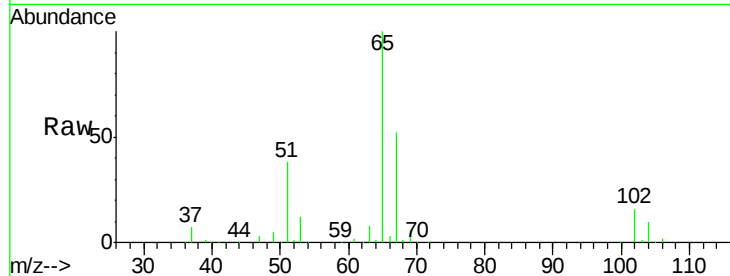
BU-02-092120

Tot Ion: 65 Resp: 191147

Ion Ratio Lower Upper

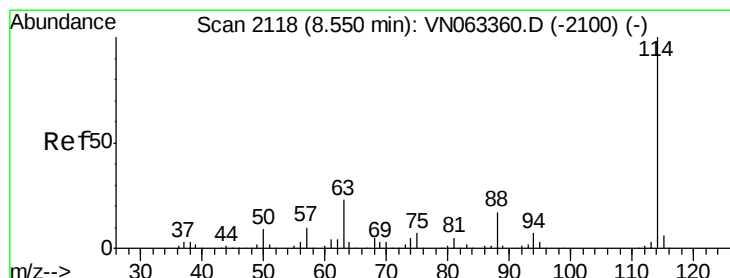
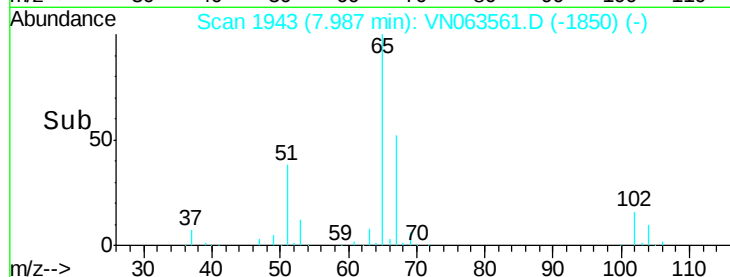
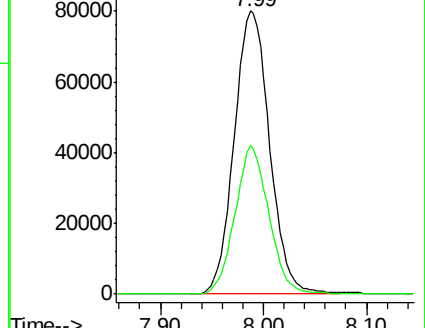
65 100

67 50.1 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN063360.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063360.D (-1924) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN063561.D

Acq: 23 Sep 2020 3:39

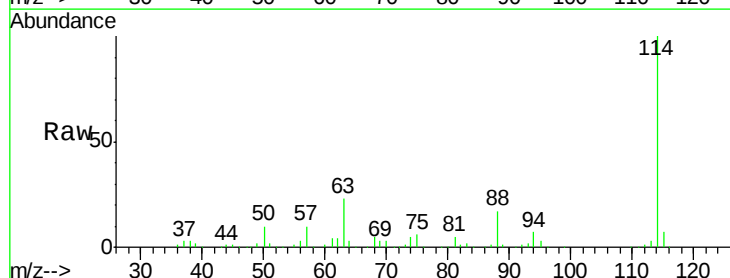
Tgt Ion: 114 Resp: 419010

Ion Ratio Lower Upper

114 100

63 23.2 0.0 46.4

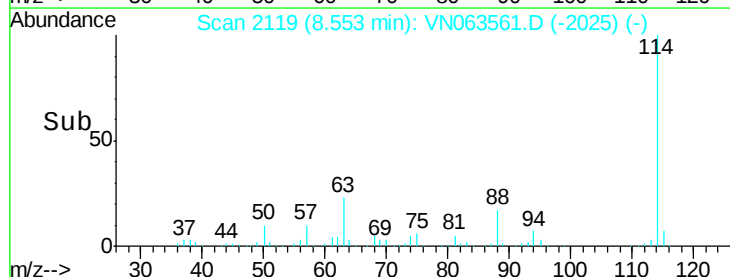
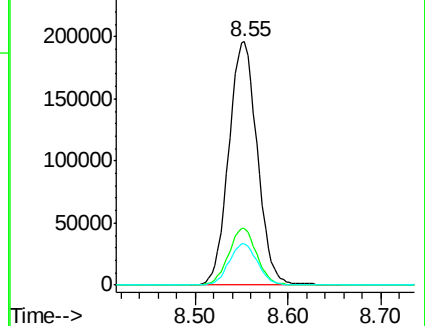
88 17.0 0.0 33.2

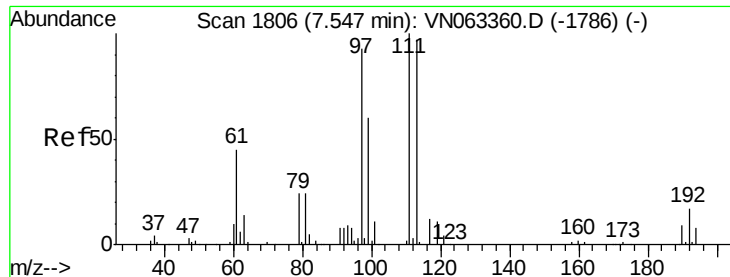


Abundance Ion 113.90 (113.60 to 114.60): VN063360.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN063360.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN063360.D (-2100) (-)

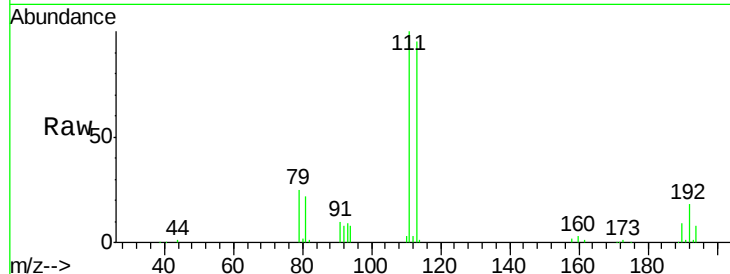




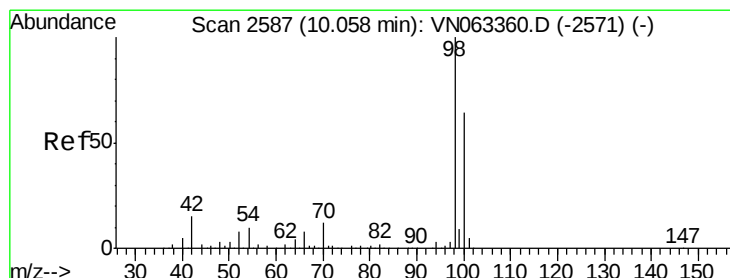
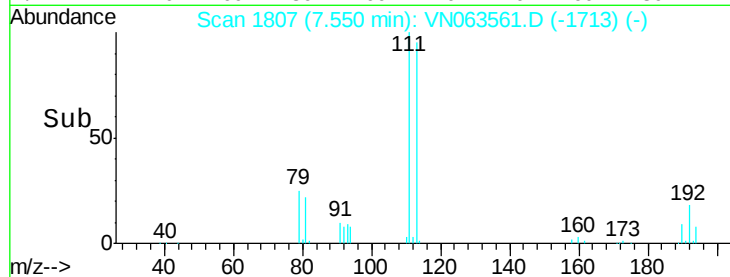
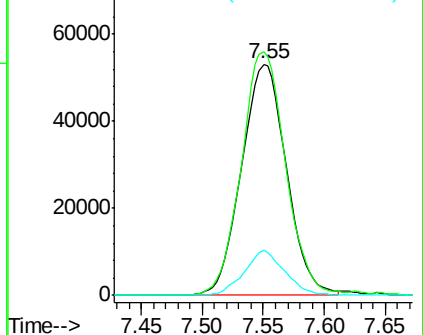
#35  
 Dibromofluoromethane  
 Concen: 46.658 ug/l  
 RT: 7.55 min Scan# 1807  
 Delta R.T. 0.00 min  
 Lab File: VN063561.D  
 Acq: 23 Sep 2020 3:39

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BU-02-092120

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.9 | 82.9  | 124.3 |
| 192     | 17.4  | 13.9  | 20.9  |

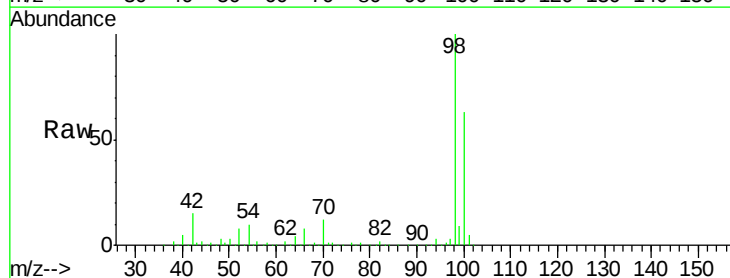


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

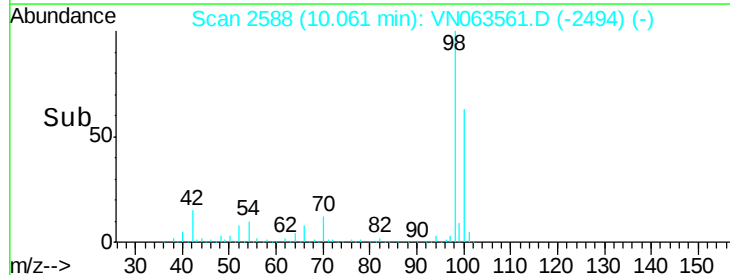
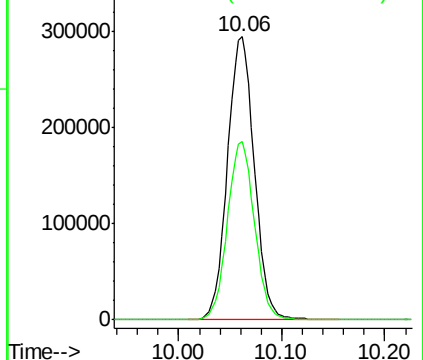


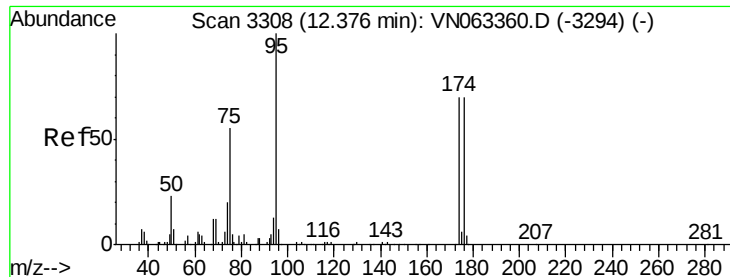
#50  
 Toluene-d8  
 Concen: 49.260 ug/l  
 RT: 10.06 min Scan# 2588  
 Delta R.T. 0.00 min  
 Lab File: VN063561.D  
 Acq: 23 Sep 2020 3:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 63.3  | 50.7  | 76.1  |



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

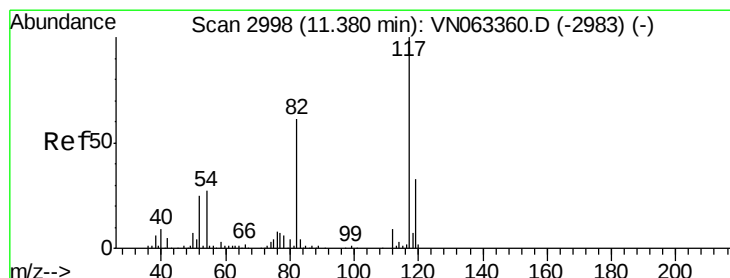
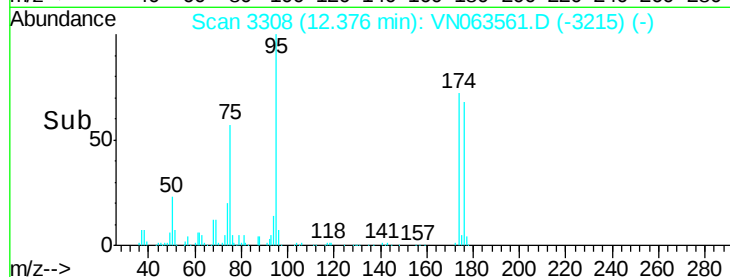
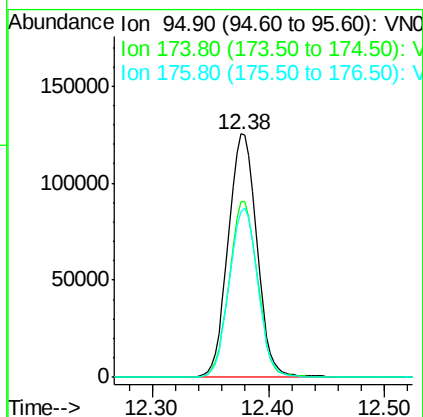
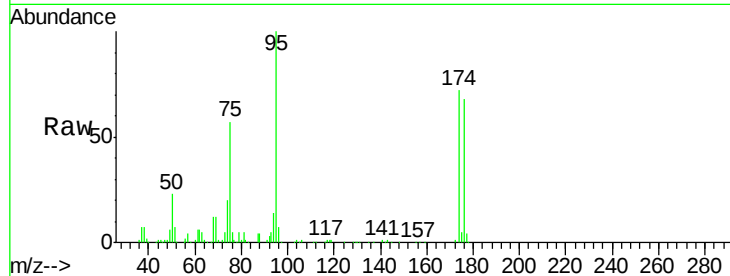




#62  
4-Bromofluorobenzene  
Concen: 53.611 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. -0.00 min  
Lab File: VN063561.D  
Acq: 23 Sep 2020 3:39

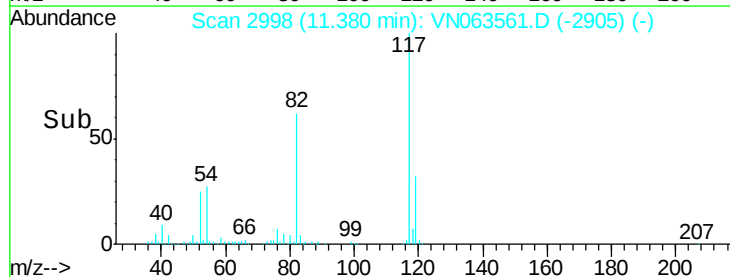
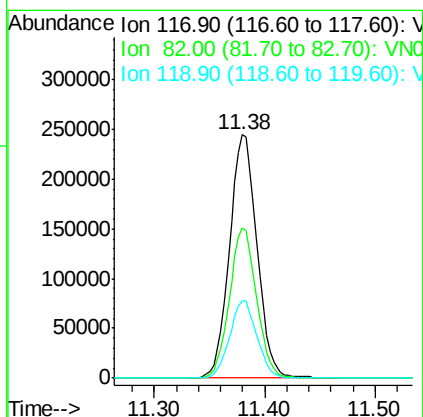
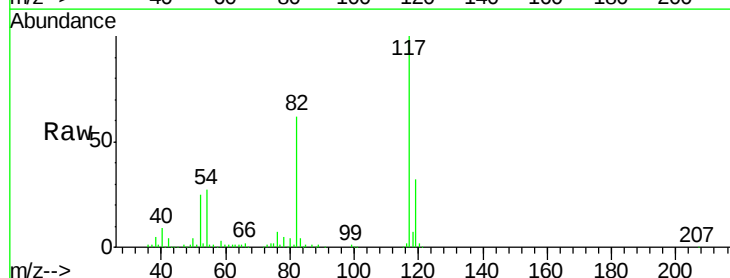
Instrument :  
MSVOA\_N  
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BU-02-092120

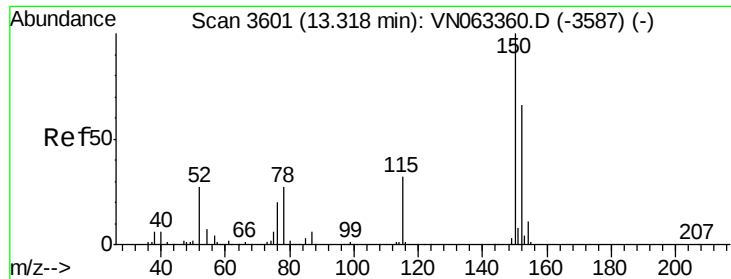
Tot Ion: 95 Resp: 214356  
Ion Ratio Lower Upper  
95 100  
174 71.6 0.0 140.8  
176 69.0 0.0 137.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. -0.00 min  
Lab File: VN063561.D  
Acq: 23 Sep 2020 3:39

Tgt Ion: 117 Resp: 423178  
Ion Ratio Lower Upper  
117 100  
82 61.7 49.2 73.8  
119 32.0 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063561.D

Acq: 23 Sep 2020 3:39

Instrument :

MSVOA\_N

ClientSampleId :

BU-02-092120

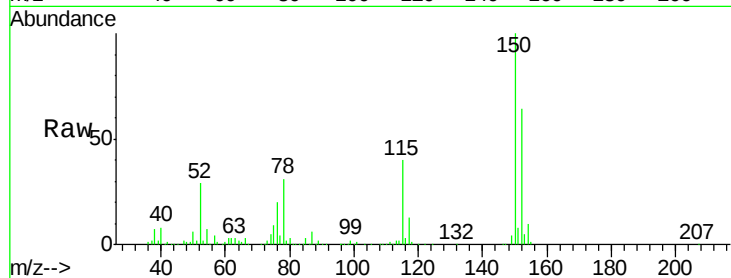
Tot Ion:152 Resp: 185775

Ion Ratio Lower Upper

152 100

115 63.3 32.2 96.6

150 155.9 0.0 343.4



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

