

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121020\  
 Data File : VN065066.D  
 Acq On : 11 Dec 2020 3:48  
 Operator : JC/MD  
 Sample : PB133501ZHE#14  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB133501ZHE#14

Quant Time: Dec 11 04:59:25 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121020W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 10 16:04:22 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 160577   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 304834   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 330496   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 129569   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |                |     |            |         |      |      |
|---------------------------|----------------|-----|------------|---------|------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99           | 65  | 108114     | 56.55   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 61 - 141 |     | Recovery = | 113.10% |      |      |
| 35) Dibromofluoromethane  | 7.55           | 113 | 98558      | 48.87   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 69 - 133 |     | Recovery = | 97.74%  |      |      |
| 50) Toluene-d8            | 10.06          | 98  | 394907     | 51.04   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 65 - 126 |     | Recovery = | 102.08% |      |      |
| 62) 4-Bromofluorobenzene  | 12.37          | 95  | 144286     | 54.41   | ug/l | 0.00 |
| Spiked Amount 50.000      | Range 58 - 135 |     | Recovery = | 108.82% |      |      |

## Target Compounds

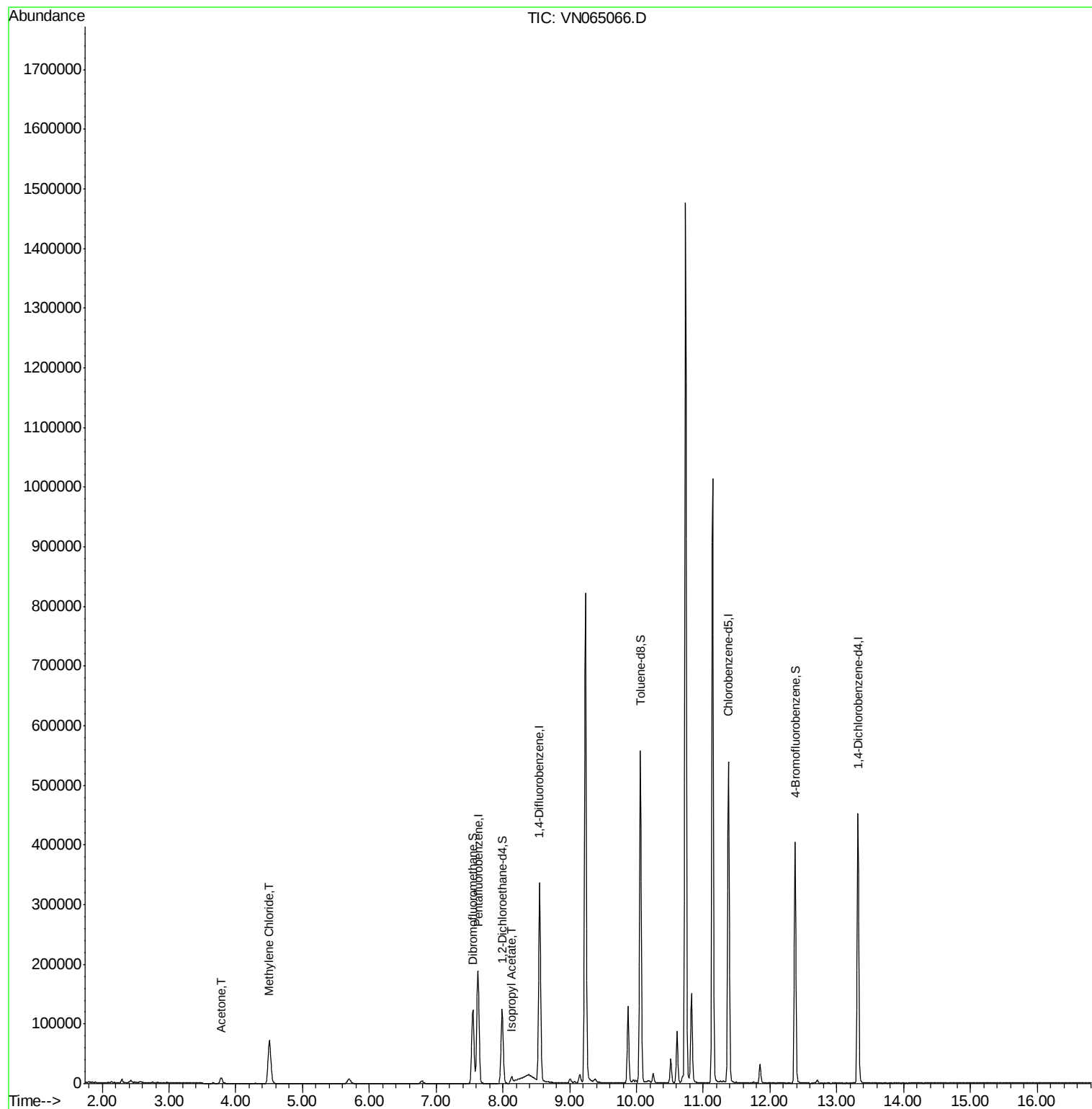
|                        |      |    |       |        | Qvalue  |
|------------------------|------|----|-------|--------|---------|
| 16) Acetone            | 3.78 | 43 | 17117 | 25.243 | ug/l 91 |
| 20) Methylene Chloride | 4.50 | 84 | 56762 | 32.859 | ug/l 99 |
| 43) Isopropyl Acetate  | 8.13 | 43 | 14381 | 3.660  | ug/l 95 |

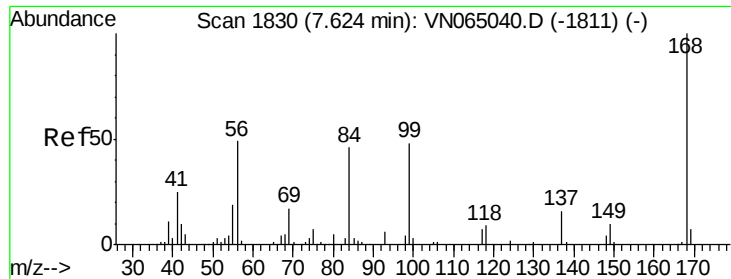
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Dec 10 16:04:22 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN065066.D

Acq: 11 Dec 2020 3:48

Instrument :

MSVOA\_N

ClientSampleId :

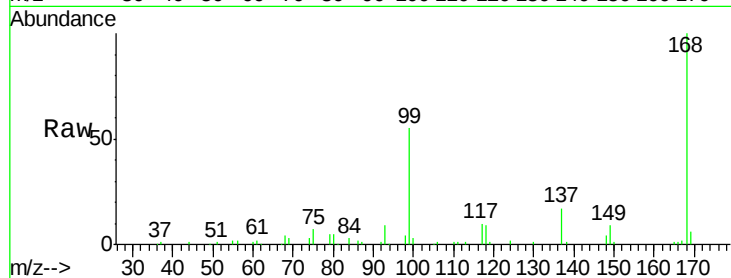
PB133501ZHE#14

Tot Ion:168 Resp: 160577

Ion Ratio Lower Upper

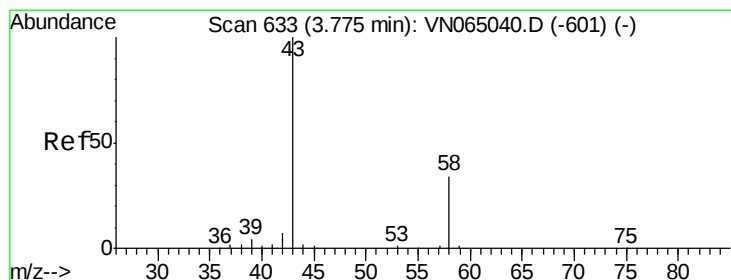
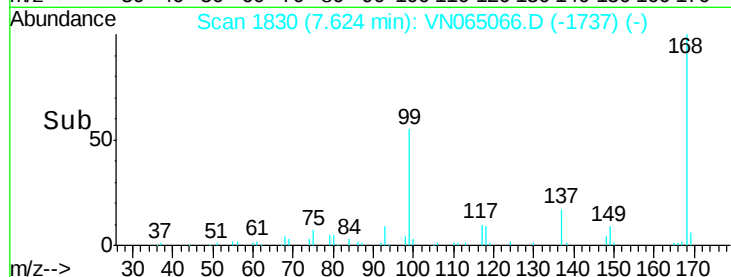
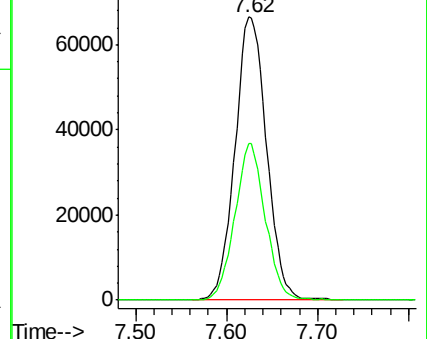
168 100

99 55.3 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 25.243 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN065066.D

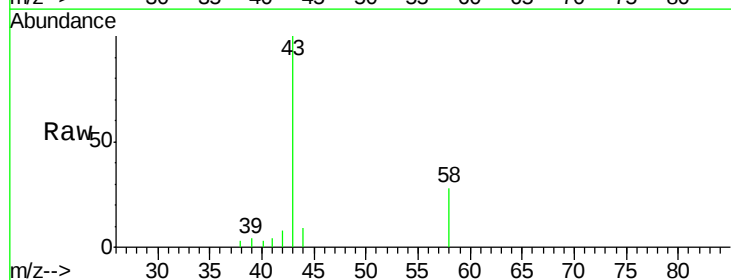
Acq: 11 Dec 2020 3:48

Tgt Ion: 43 Resp: 17117

Ion Ratio Lower Upper

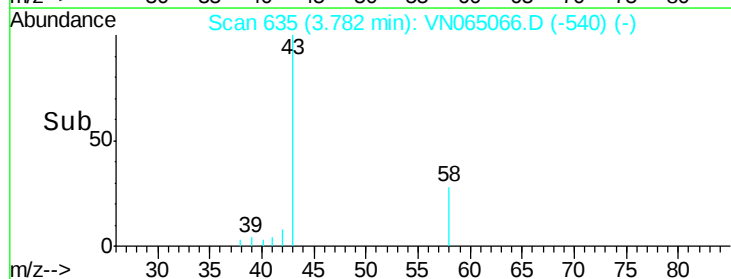
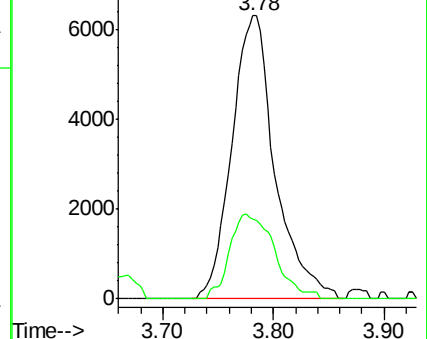
43 100

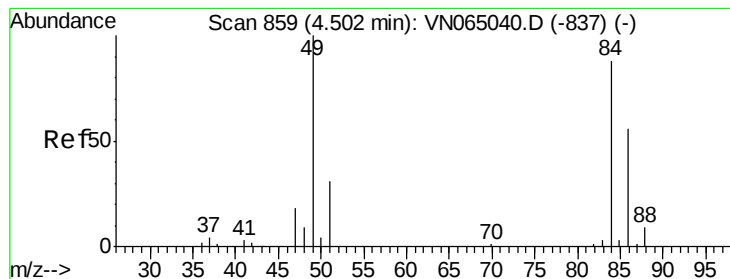
58 28.1 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#20

Methylene Chloride

Concen: 32.859 ug/l

RT: 4.50 min Scan# 859

Delta R.T. 0.00 min

Lab File: VN065066.D

Acq: 11 Dec 2020 3:48

Instrument :

MSVOA\_N

ClientSampleId :

PB133501ZHE#14

Tot Ion: 84 Resp: 56762

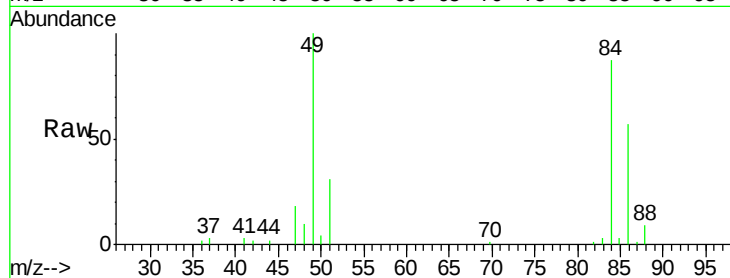
Ion Ratio Lower Upper

84 100

49 114.3 90.8 136.2

51 35.3 28.1 42.1

86 64.9 51.3 76.9

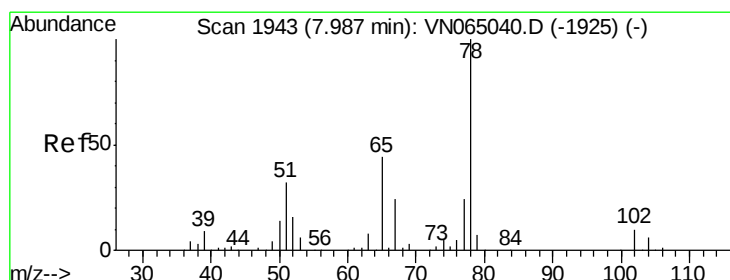
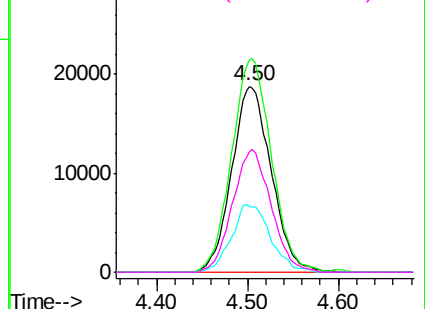
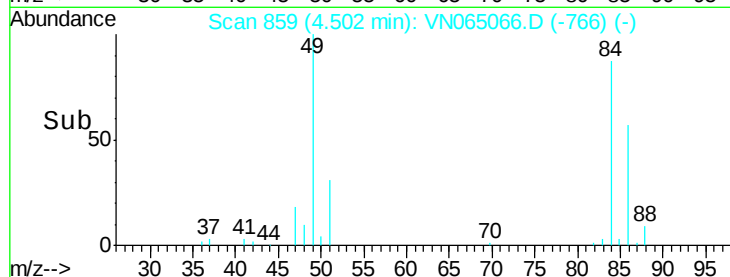


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 56.551 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN065066.D

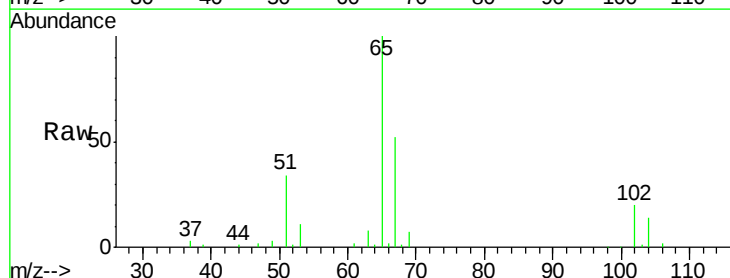
Acq: 11 Dec 2020 3:48

Tgt Ion: 65 Resp: 108114

Ion Ratio Lower Upper

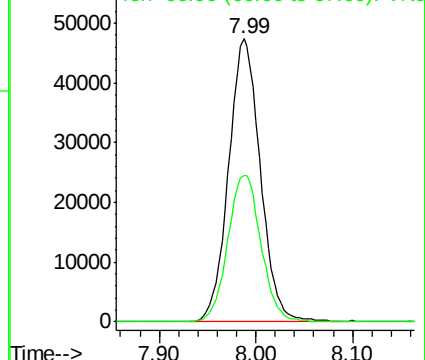
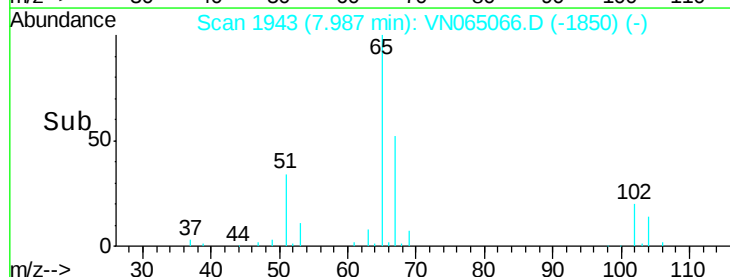
65 100

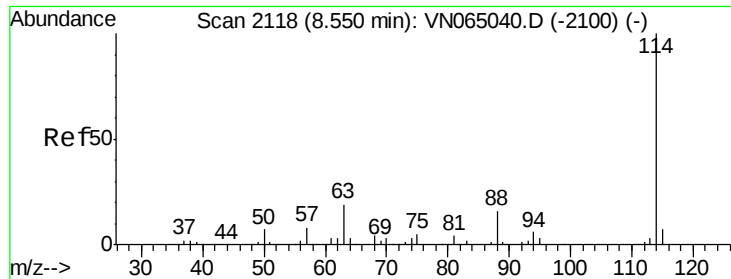
67 54.0 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

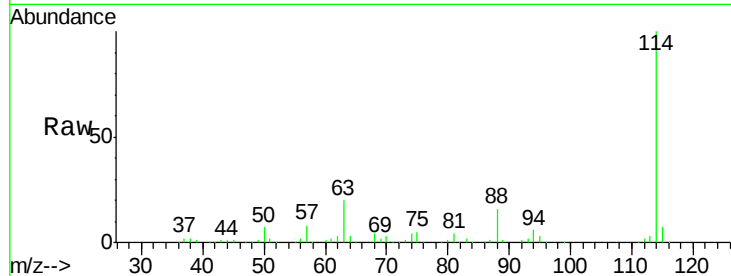




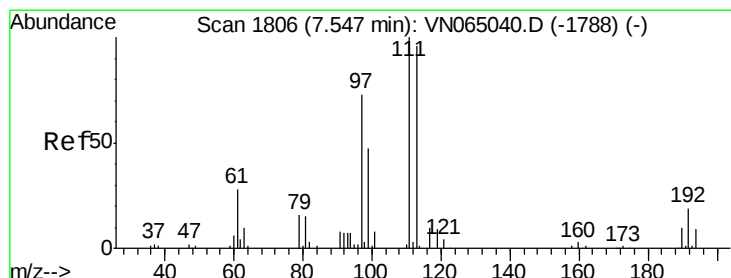
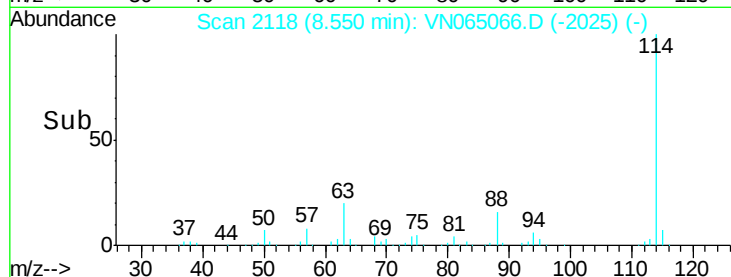
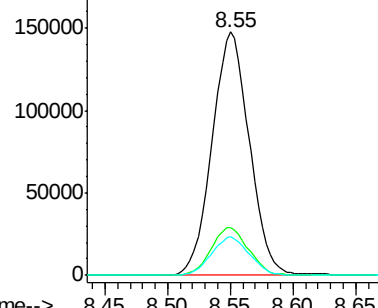
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.55 min Scan# 2118  
Delta R.T. 0.00 min  
Lab File: VN065066.D  
Acq: 11 Dec 2020 3:48

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB133501ZHE#14

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.6  | 0.0   | 38.2  |
| 88      | 15.8  | 0.0   | 31.6  |

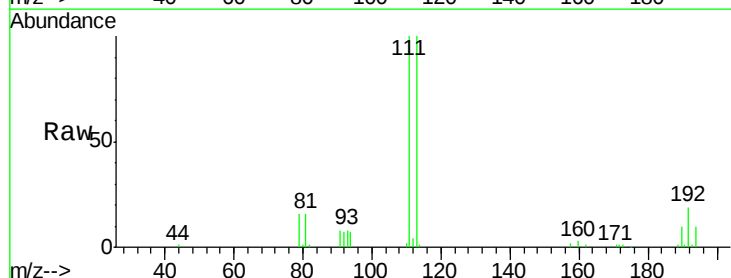


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): V  
Ion 87.90 (87.60 to 88.60): V

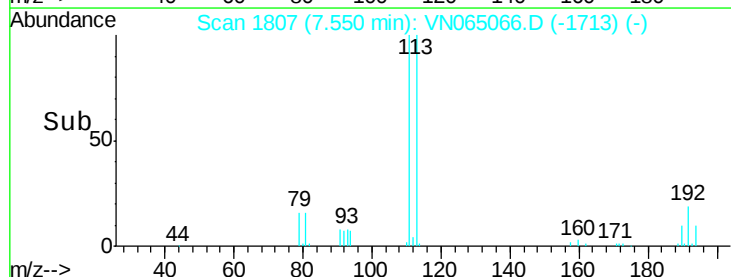
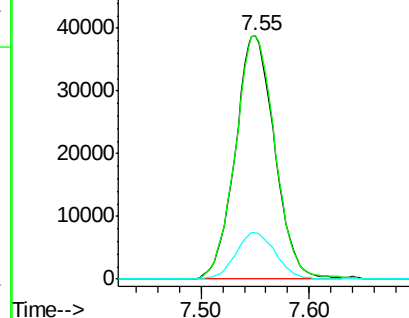


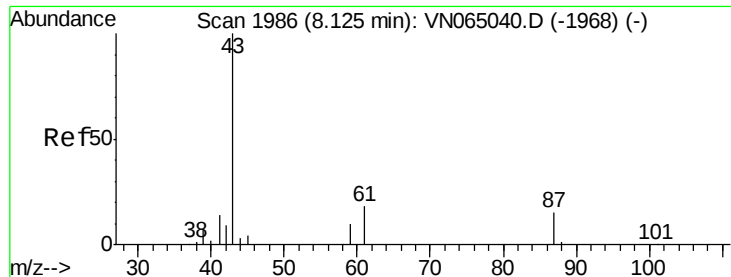
#35  
Dibromofluoromethane  
Concen: 48.871 ug/l  
RT: 7.55 min Scan# 1807  
Delta R.T. 0.00 min  
Lab File: VN065066.D  
Acq: 11 Dec 2020 3:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.7 | 83.4  | 125.0 |
| 192     | 19.2  | 16.2  | 24.2  |



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





#43

Isopropyl Acetate

Concen: 3.660 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN065066.D

Acq: 11 Dec 2020 3:48

Instrument :

MSVOA\_N

ClientSampleId :

PB133501ZHE#14

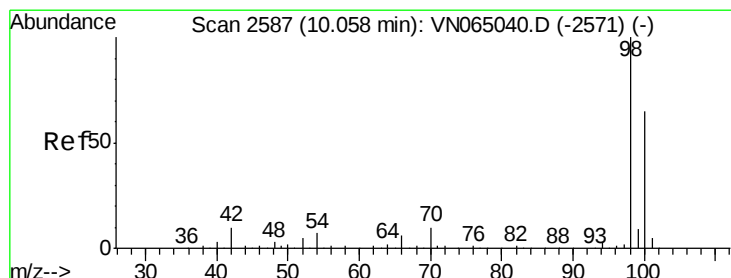
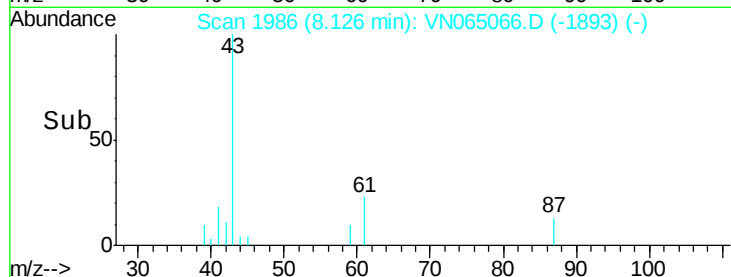
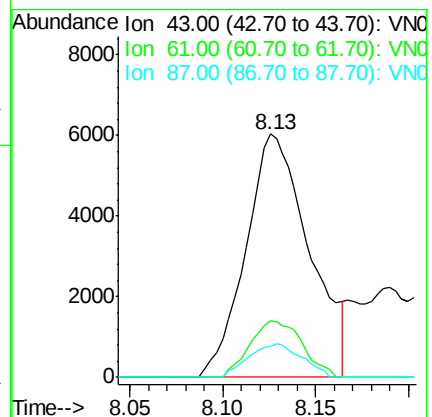
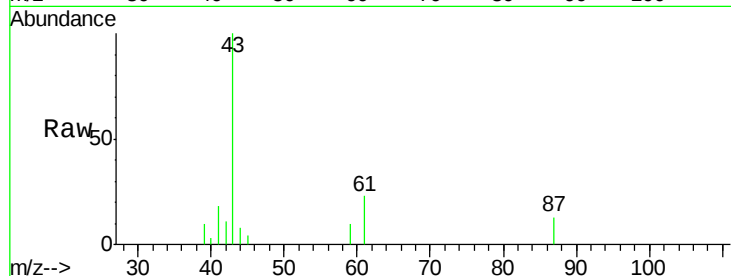
Tot Ion: 43 Resp: 14381

Ion Ratio Lower Upper

43 100

61 19.2 16.9 25.3

87 11.5 11.4 17.2



#50

Toluene-d8

Concen: 51.042 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN065066.D

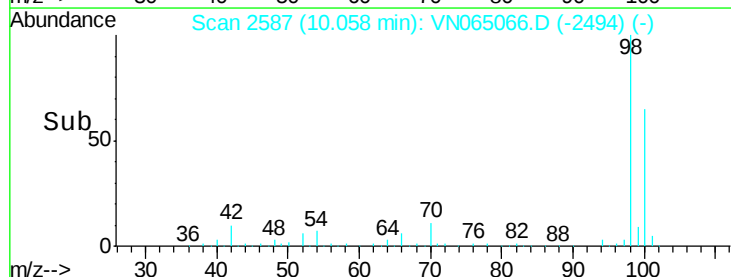
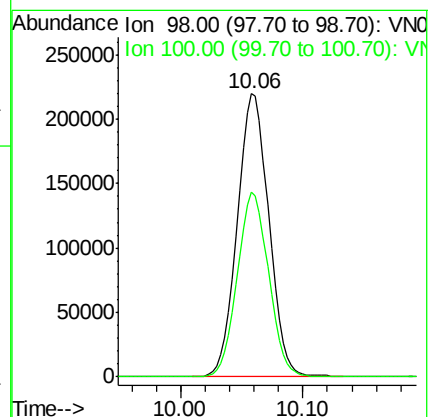
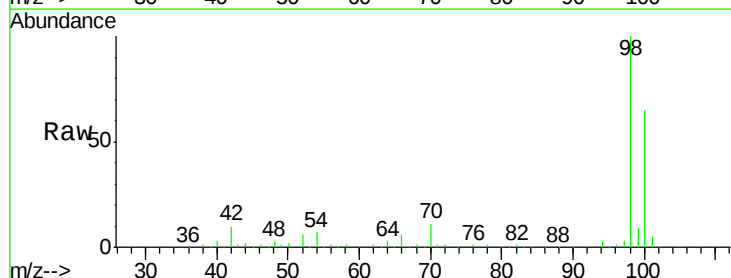
Acq: 11 Dec 2020 3:48

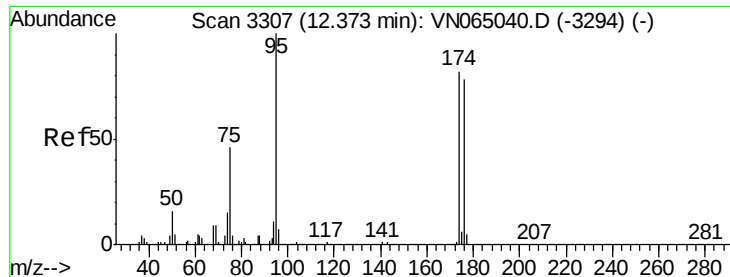
Tgt Ion: 98 Resp: 394907

Ion Ratio Lower Upper

98 100

100 64.8 51.6 77.4

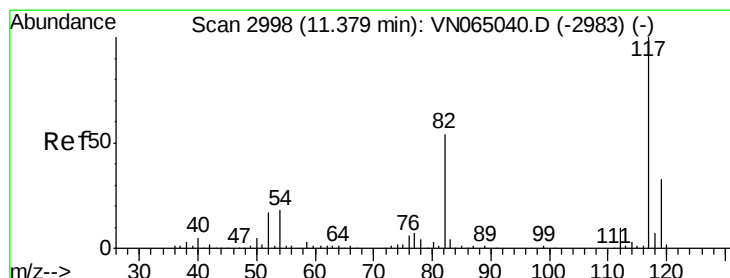
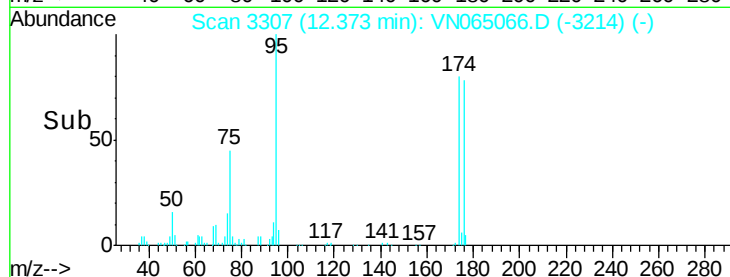
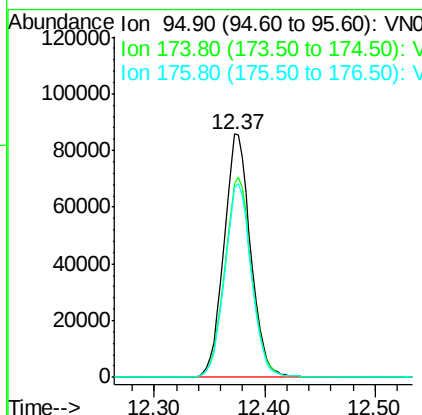
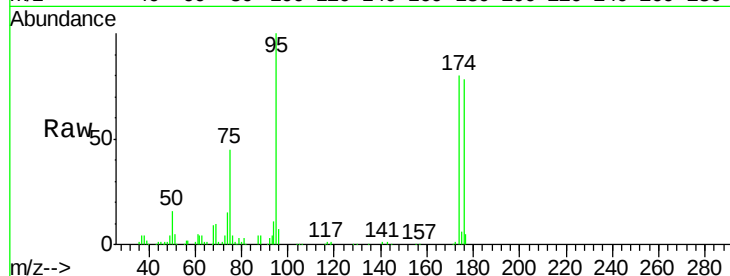




#62  
4-Bromofluorobenzene  
Concen: 54.410 ug/l  
RT: 12.37 min Scan# 3307  
Delta R.T. 0.00 min  
Lab File: VN065066.D  
Acq: 11 Dec 2020 3:48

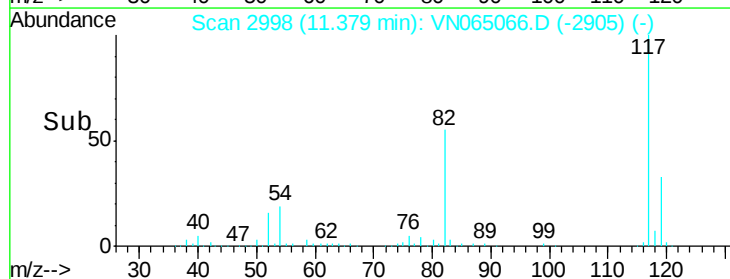
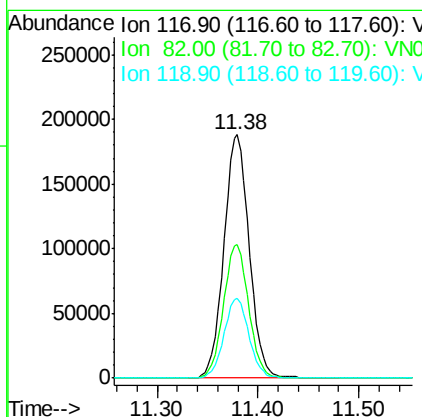
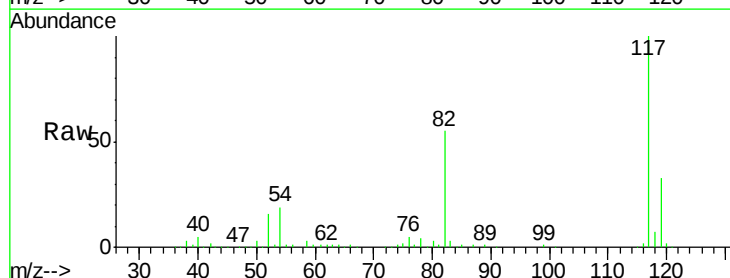
Instrument :  
MSVOA\_N  
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PB133501ZHE#14

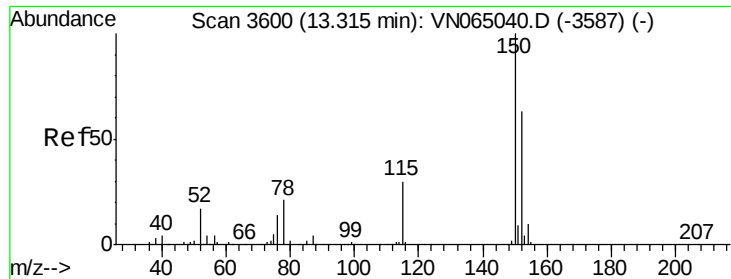
| Tot Ion   | 95   | Resp | 144286 |
|-----------|------|------|--------|
| Ion Ratio | 100  |      |        |
| Lower     |      |      |        |
| Upper     |      |      |        |
| 174       | 82.9 | 0.0  | 164.8  |
| 176       | 79.4 | 0.0  | 158.8  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. 0.00 min  
Lab File: VN065066.D  
Acq: 11 Dec 2020 3:48

| Tgt Ion                                    | 117  | Resp | 330496 |
|--------------------------------------------|------|------|--------|
| Ion Ratio <td>100</td> <td></td> <td></td> | 100  |      |        |
| Lower <td></td> <td></td> <td></td>        |      |      |        |
| Upper <td></td> <td></td> <td></td>        |      |      |        |
| 82                                         | 54.6 | 43.5 | 65.3   |
| 119                                        | 33.0 | 26.4 | 39.6   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN065066.D

Acq: 11 Dec 2020 3:48

Instrument :

MSVOA\_N

ClientSampleId :

PB133501ZHE#14

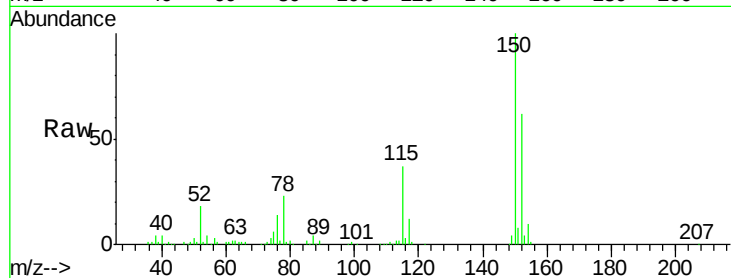
Tot Ion:152 Resp: 129569

Ion Ratio Lower Upper

152 100

115 59.8 29.3 88.0

150 161.6 0.0 345.8



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

