

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073119\  
 Data File : VN057009.D  
 Acq On : 31 Jul 2019 13:08  
 Operator : JC/SP  
 Sample : PB121844ZHE#05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB121844ZHE#05

Quant Time: Aug 01 01:53:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072719W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 01:33:29 2019  
 Response via : Initial Calibration

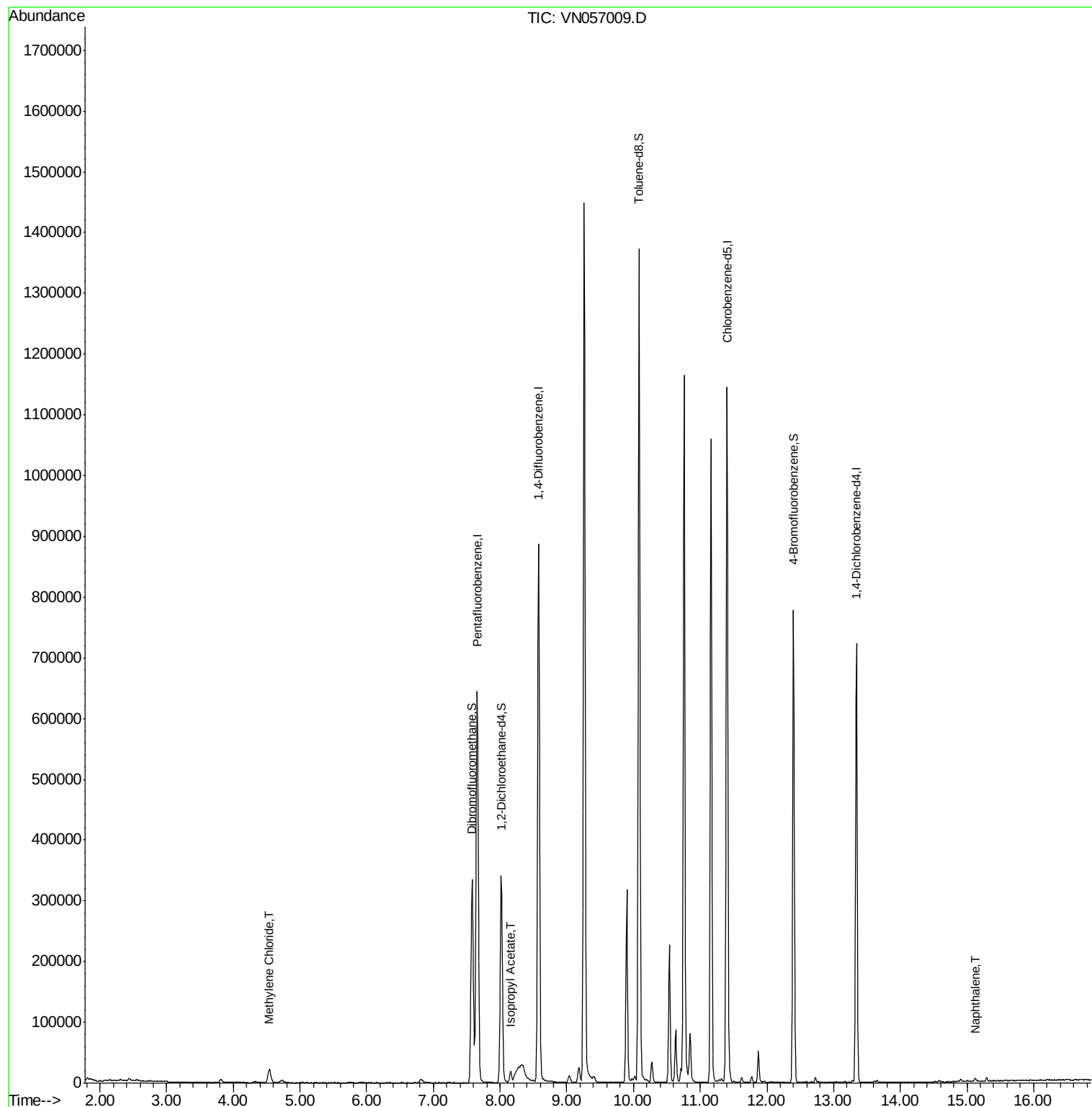
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 7.66  | 168  | 575034   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.58  | 114  | 844469   | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.40 | 117  | 724494   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.34 | 152  | 217960   | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.02  | 65   | 286338   | 48.64 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.28% |          |
| 35) Dibromofluoromethane    | 7.58  | 113  | 258285   | 47.78 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.56% |          |
| 50) Toluene-d8              | 10.08 | 98   | 1014227  | 49.20 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.40% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 277132   | 41.29 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 82.58% |          |
| Target Compounds            |       |      |          |       |        |          |
| 20) Methylene Chloride      | 4.54  | 84   | 18347    | 2.987 | ug/l   | 95       |
| 43) Isopropyl Acetate       | 8.16  | 43   | 20195    | 2.053 | ug/l   | 92       |
| 95) Naphthalene             | 15.13 | 128  | 5250     | 4.114 | ug/l # | 90       |

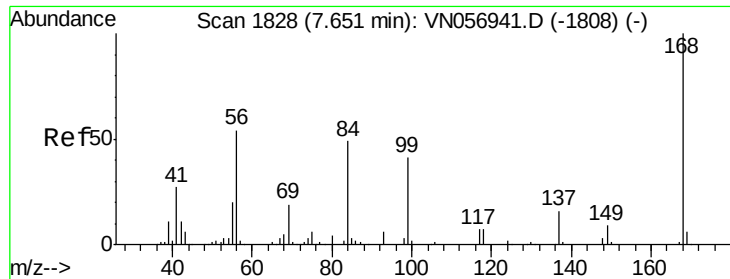
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Jul 27 01:33:29 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN057009.D

Acq: 31 Jul 2019 13:08

Instrument :

MSVOA\_N

ClientSampleId :

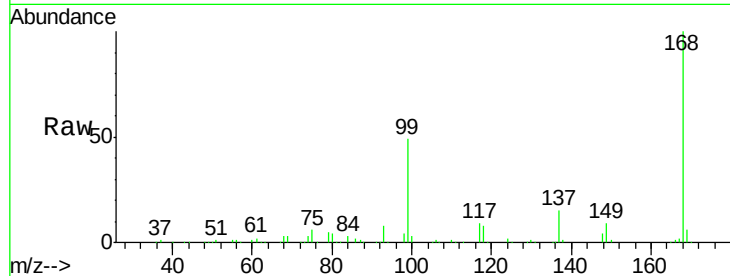
PB121844ZHE#05

Tot Ion:168 Resp: 575034

Ion Ratio Lower Upper

168 100

99 48.6 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

250000

200000

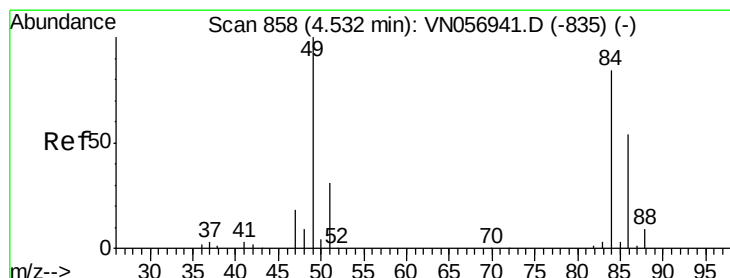
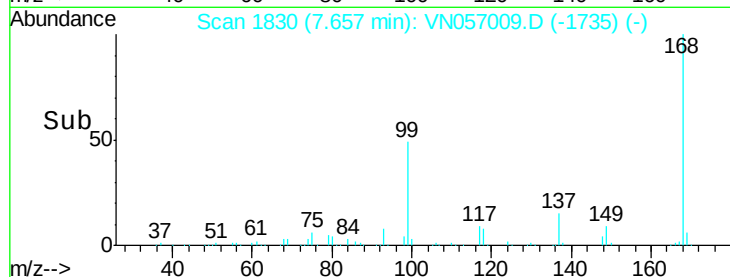
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#20

Methylene Chloride

Concen: 2.987 ug/l

RT: 4.54 min Scan# 860

Delta R.T. 0.01 min

Lab File: VN057009.D

Acq: 31 Jul 2019 13:08

Tgt Ion: 84 Resp: 18347

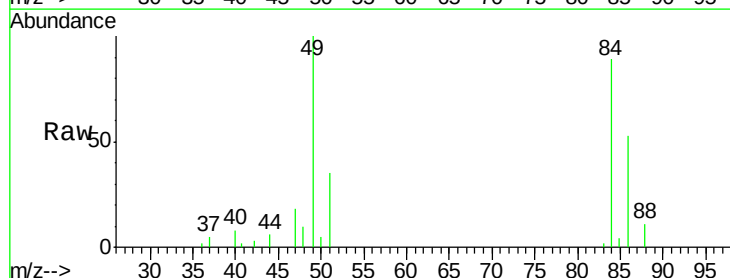
Ion Ratio Lower Upper

84 100

49 112.0 95.2 142.8

51 38.9 29.7 44.5

86 59.8 51.0 76.6



Abundance Ion 83.90 (83.60 to 84.60): VN

Ion 48.90 (48.60 to 49.60): VN

Ion 50.90 (50.60 to 51.60): VN

Ion 85.90 (85.60 to 86.60): VN

10000

8000

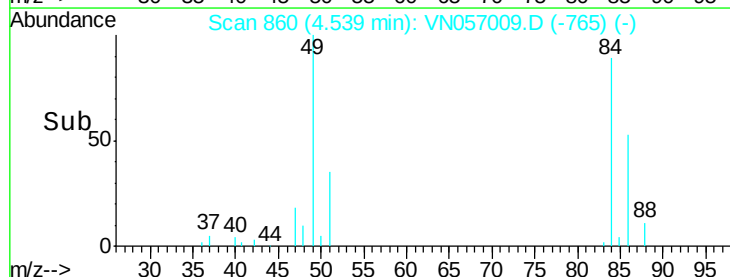
6000

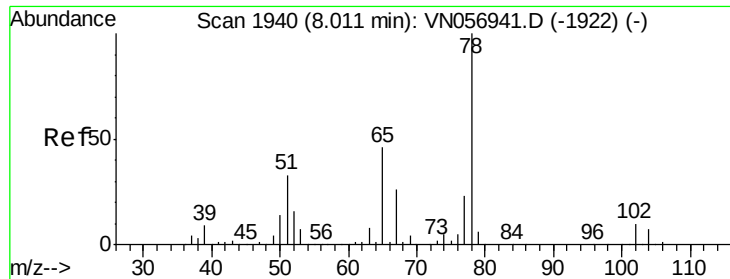
4000

2000

0

Time--> 4.45 4.50 4.55 4.60 4.65

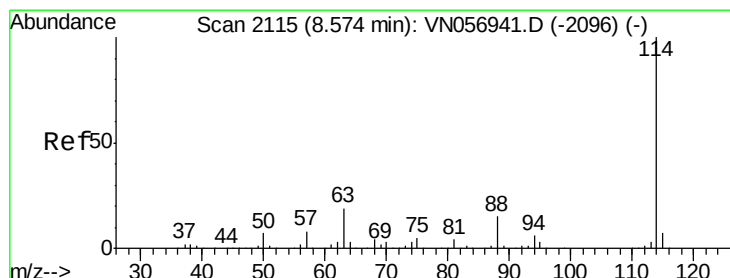
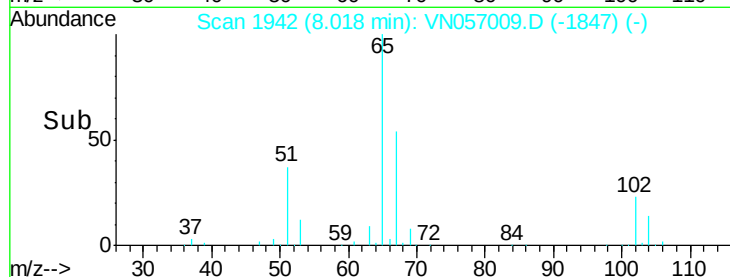
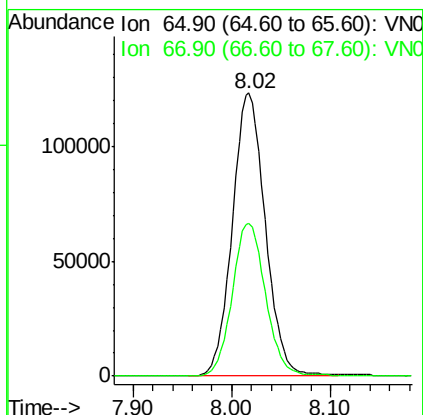
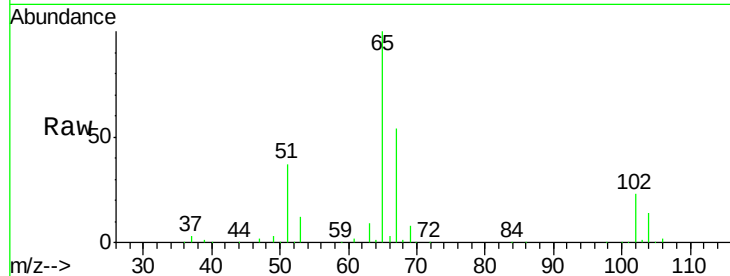




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.645 ug/l  
 RT: 8.02 min Scan# 1942  
 Delta R.T. 0.01 min  
 Lab File: VN057009.D  
 Acq: 31 Jul 2019 13:08

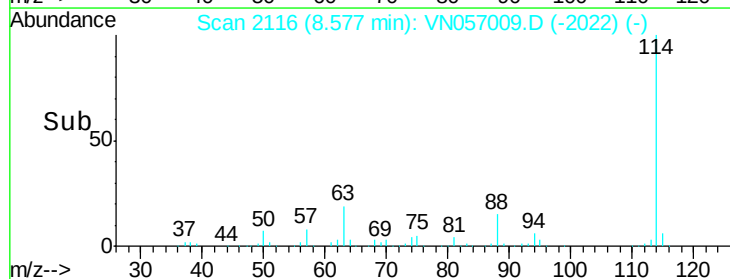
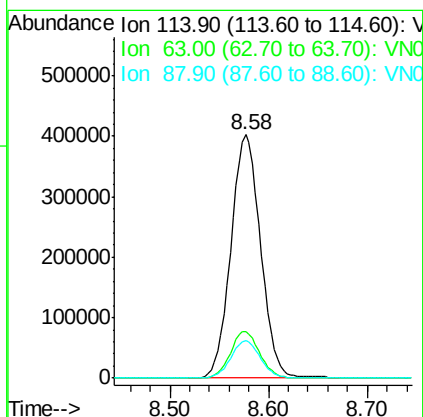
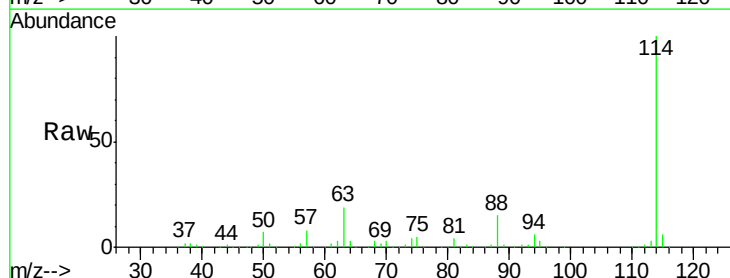
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB121844ZHE#05

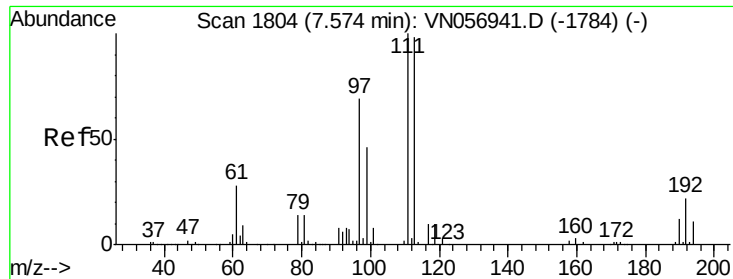
Tot Ion: 65 Resp: 286338  
 Ion Ratio Lower Upper  
 65 100  
 67 54.4 0.0 112.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2116  
 Delta R.T. 0.00 min  
 Lab File: VN057009.D  
 Acq: 31 Jul 2019 13:08

Tgt Ion: 114 Resp: 844469  
 Ion Ratio Lower Upper  
 114 100  
 63 19.3 0.0 38.0  
 88 15.4 0.0 30.0

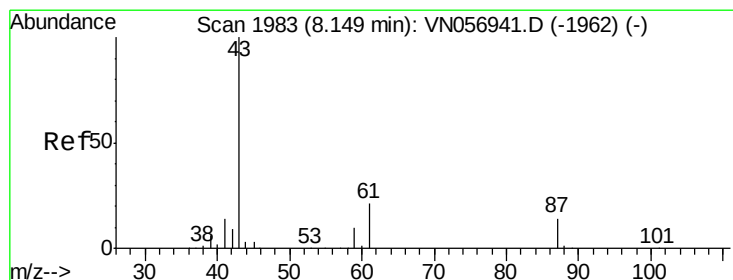
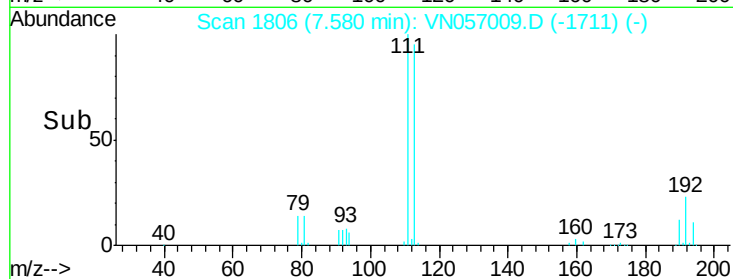
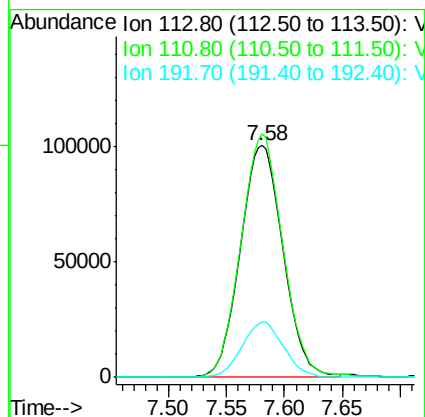
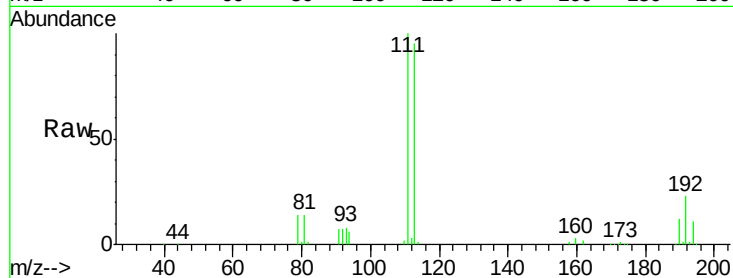




#35  
 Dibromofluoromethane  
 Concen: 47.777 ug/l  
 RT: 7.58 min Scan# 1806  
 Delta R.T. 0.01 min  
 Lab File: VN057009.D  
 Acq: 31 Jul 2019 13:08

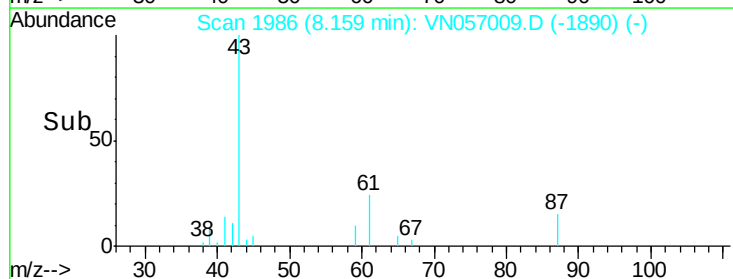
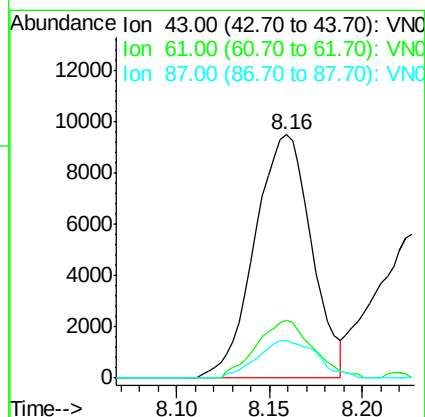
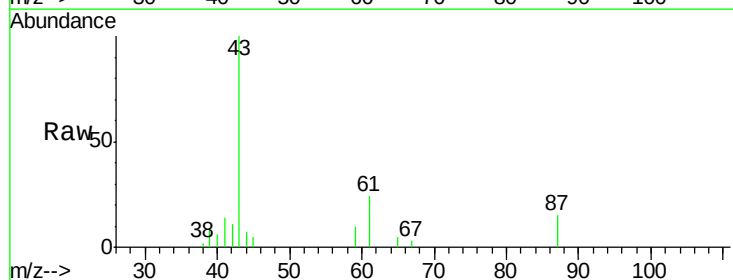
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB121844ZHE#05

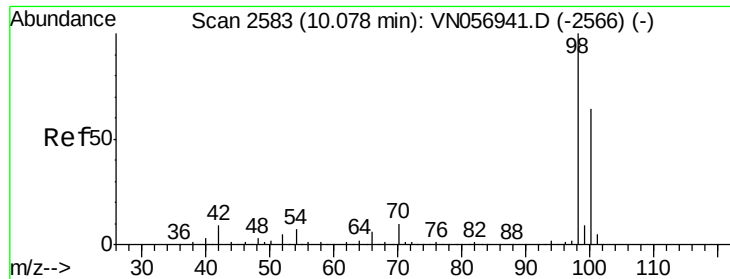
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.6 | 82.0  | 123.0 |
| 192     | 23.3  | 18.4  | 27.6  |



#43  
 Isopropyl Acetate  
 Concen: 2.053 ug/l  
 RT: 8.16 min Scan# 1986  
 Delta R.T. 0.01 min  
 Lab File: VN057009.D  
 Acq: 31 Jul 2019 13:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 23.4  | 23.0  | 34.6  |
| 87      | 16.2  | 11.7  | 17.5  |





#50

Toluene-d8

Concen: 49.197 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057009.D

Acq: 31 Jul 2019 13:08

Instrument :

MSVOA\_N

ClientSampleId :

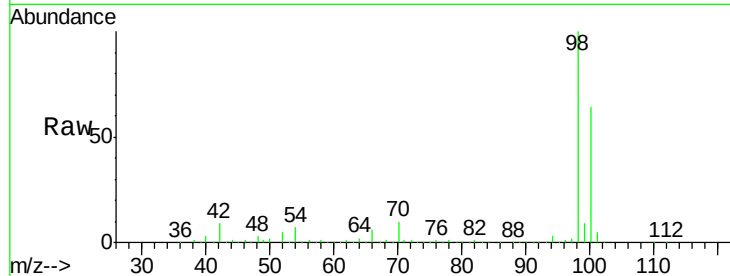
PB121844ZHE#05

Tot Ion: 98 Resp: 1014227

Ion Ratio Lower Upper

98 100

100 63.8 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

600000

500000

400000

300000

200000

100000

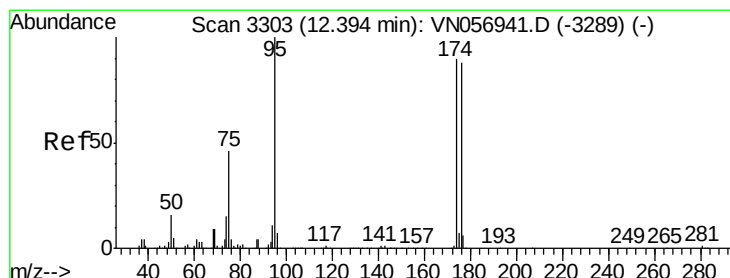
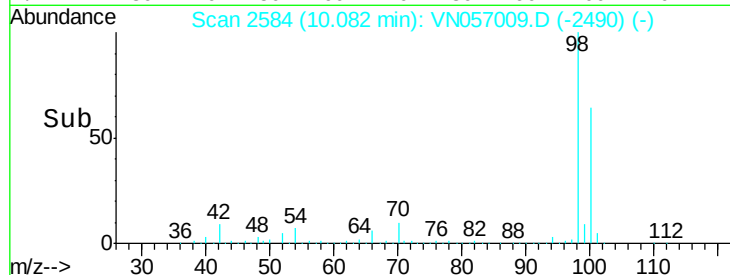
0

10.00

10.08

10.20

Time-->



#62

4-Bromofluorobenzene

Concen: 41.293 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN057009.D

Acq: 31 Jul 2019 13:08

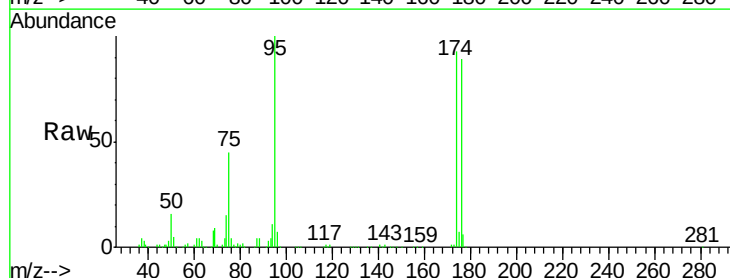
Tgt Ion: 95 Resp: 277132

Ion Ratio Lower Upper

95 100

174 94.5 0.0 182.2

176 90.7 0.0 179.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

150000

100000

50000

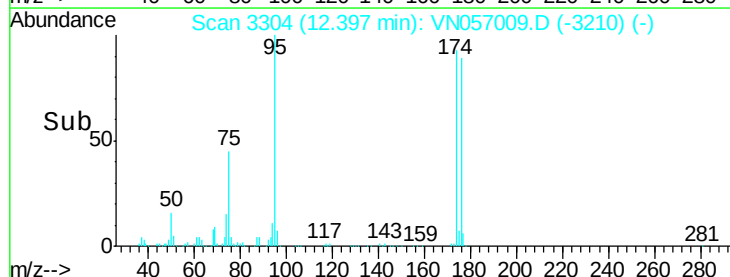
0

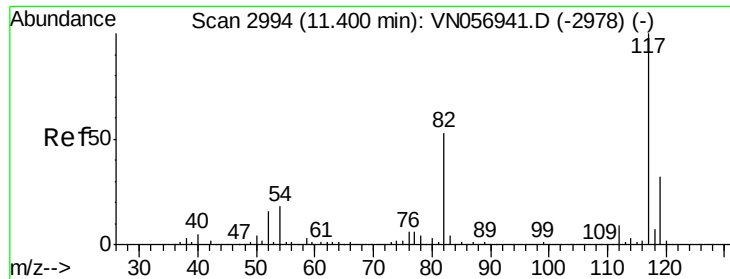
12.30

12.40

12.50

Time-->

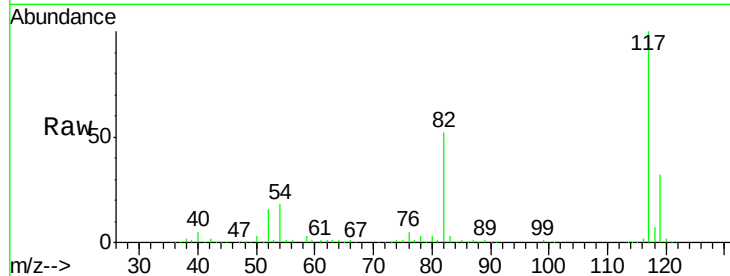




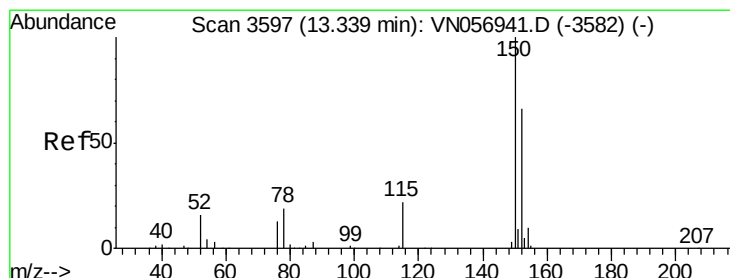
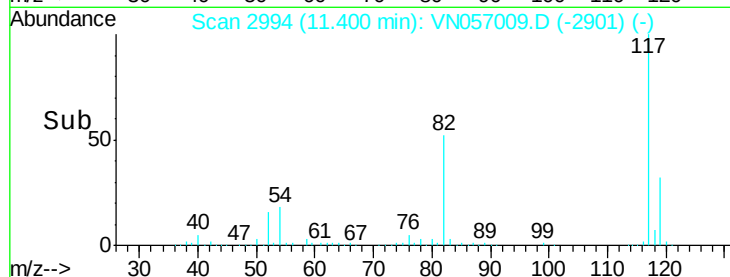
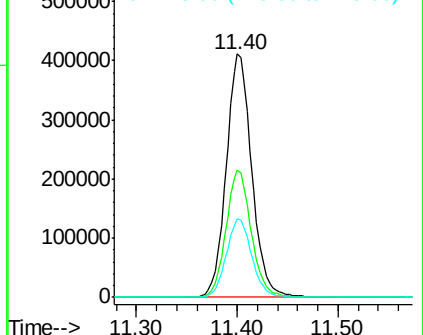
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. 0.00 min  
Lab File: VN057009.D  
Acq: 31 Jul 2019 13:08

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB121844ZHE#05

Tot Ion:117 Resp: 724494  
Ion Ratio Lower Upper  
117 100  
82 52.4 42.2 63.4  
119 32.0 25.8 38.6

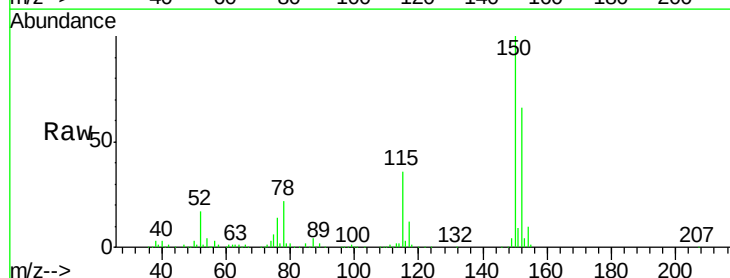


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

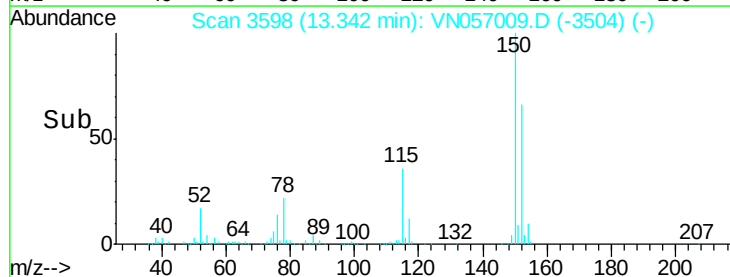
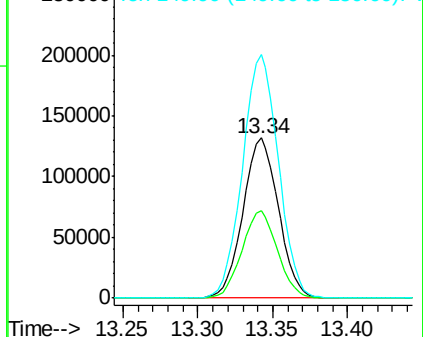


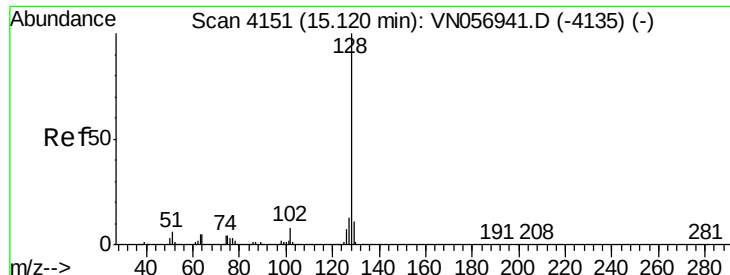
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. 0.00 min  
Lab File: VN057009.D  
Acq: 31 Jul 2019 13:08

Tgt Ion:152 Resp: 217960  
Ion Ratio Lower Upper  
152 100  
115 54.4 28.2 84.6  
150 153.7 0.0 349.4



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





#95

Naphthalene

Concen: 4.114 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.01 min

Lab File: VN057009.D

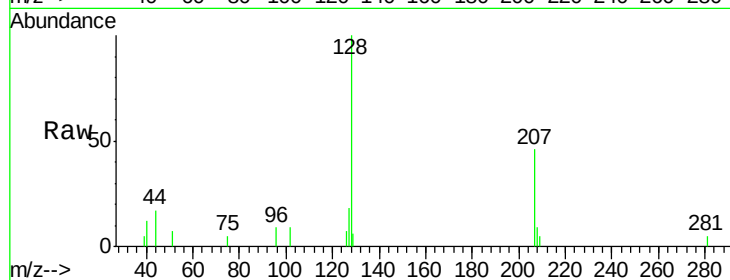
Acq: 31 Jul 2019 13:08

Instrument :

MSVOA\_N

ClientSampleId :

PB121844ZHE#05



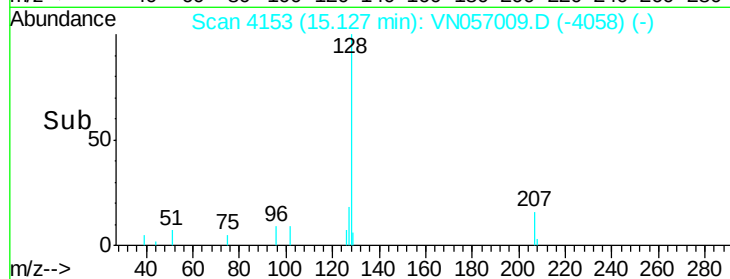
Tot Ion:128 Resp: 5250

Ion Ratio Lower Upper

128 100

127 13.9 10.0 15.0

129 4.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

