

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN111918\  
 Data File : VN052388.D  
 Acq On : 19 Nov 2018 16:40  
 Operator : MD\SY  
 Sample : PB114846ZHE#04  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB114846ZHE#04

Quant Time: Nov 20 07:43:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N111418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 15 03:02:37 2018  
 Response via : Initial Calibration

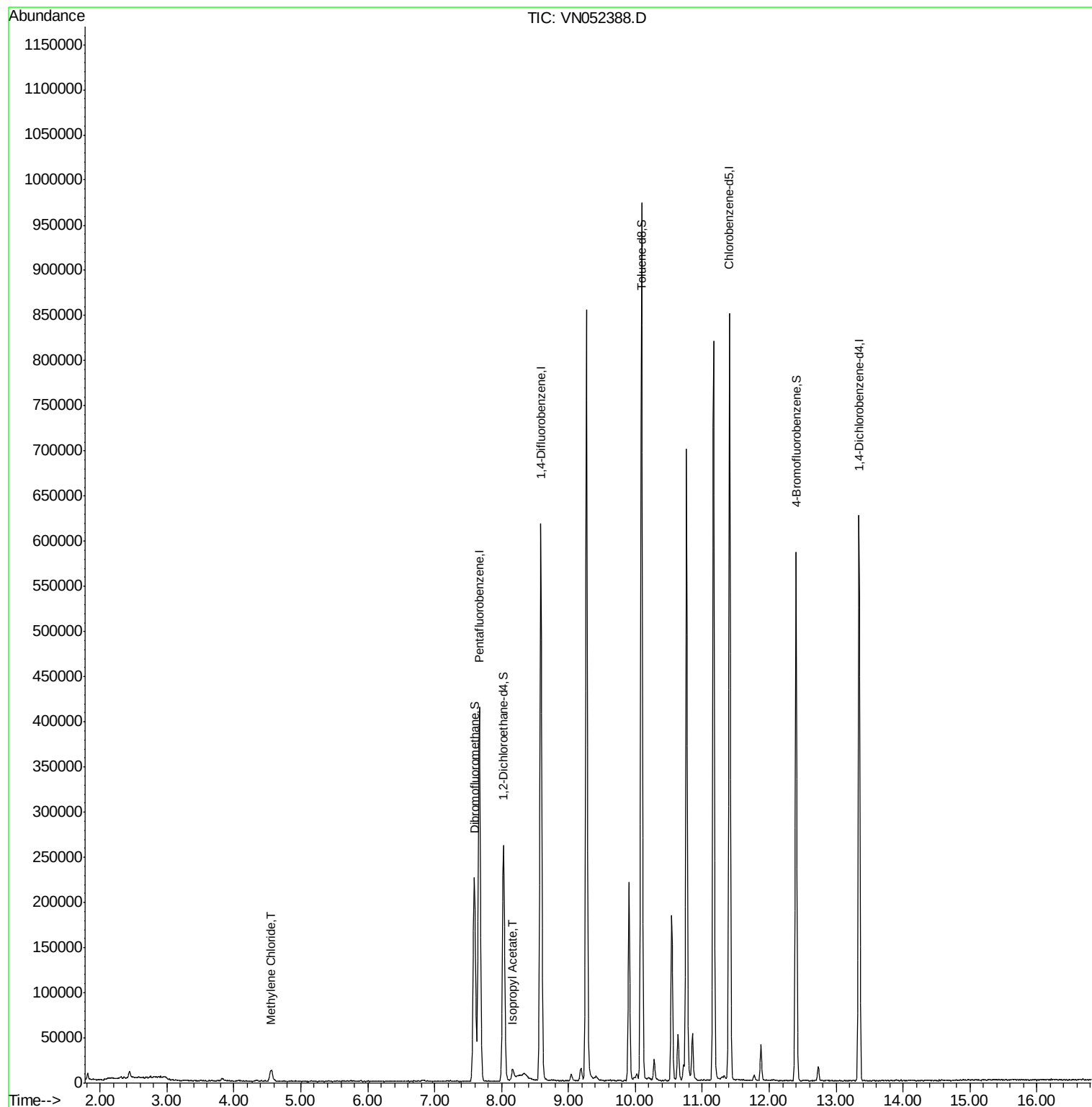
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|---------|-----------|
| 1) Pentafluorobenzene       | 7.67  | 168  | 298202   | 50.00 | ug/l    | 0.00      |
| 34) 1,4-Difluorobenzene     | 8.59  | 114  | 497978   | 50.00 | ug/l    | 0.00      |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 437458   | 50.00 | ug/l    | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 13.34 | 152  | 149915   | 50.00 | ug/l    | 0.00      |
| System Monitoring Compounds |       |      |          |       |         |           |
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 220104   | 52.26 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.52% |           |
| 35) Dibromofluoromethane    | 7.59  | 113  | 165300   | 51.46 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 102.92% |           |
| 50) Toluene-d8              | 10.09 | 98   | 638046   | 50.50 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.00% |           |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 188178   | 45.27 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 90.54%  |           |
| Target Compounds            |       |      |          |       |         |           |
| 20) Methylene Chloride      | 4.57  | 84   | 7701     | 1.50  | ug/l    | Qvalue 86 |
| 43) Isopropyl Acetate       | 8.17  | 43   | 17469    | 2.50  | ug/l    | # 94      |

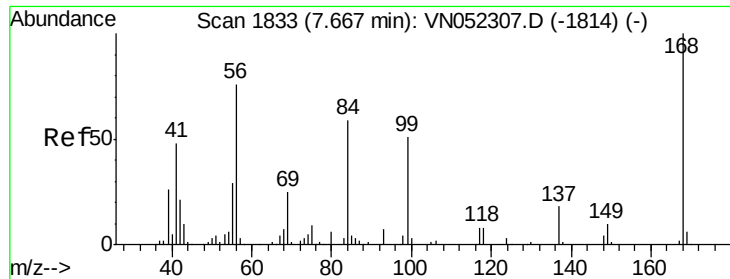
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Nov 15 03:02:37 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

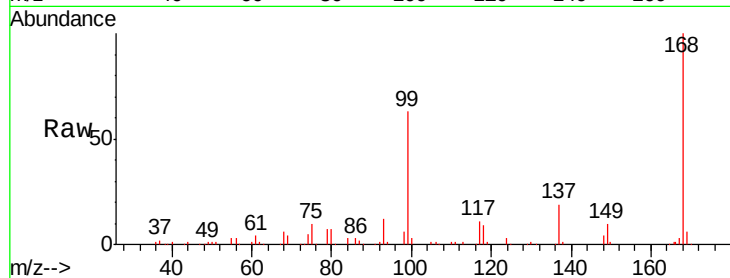
PB114846ZHE#04

Tgt Ion:168 Resp: 298202

Ion Ratio Lower Upper

168 100

99 62.6 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

150000

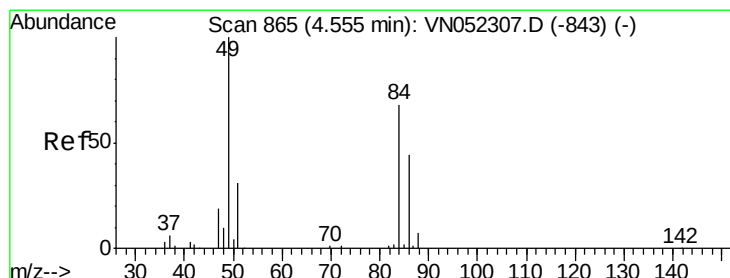
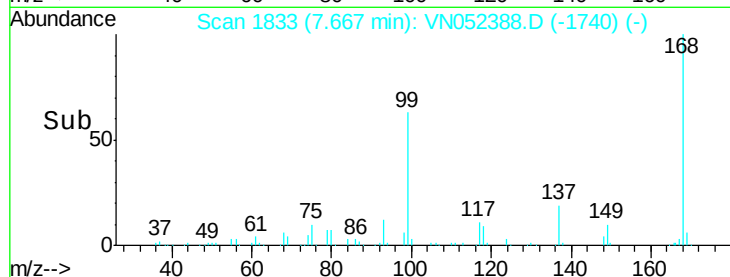
100000

50000

0

Time-->

7.60 7.70 7.80



#20

Methylene Chloride

Concen: 1.50 ug/l

RT: 4.57 min Scan# 869

Delta R.T. 0.01 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Tgt Ion: 84 Resp: 7701

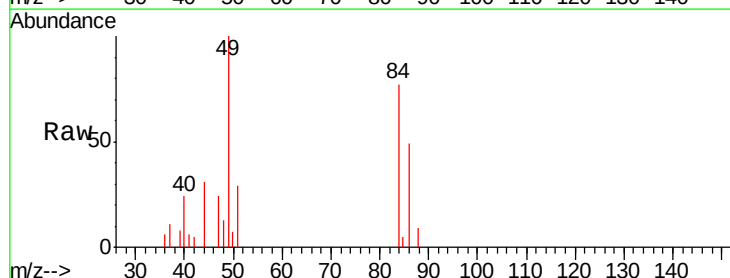
Ion Ratio Lower Upper

84 100

49 121.9 118.2 177.2

51 37.3 36.1 54.1

86 63.0 51.6 77.4



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

4.57

5000

4000

3000

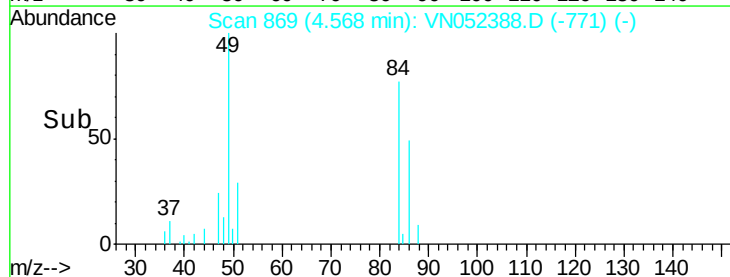
2000

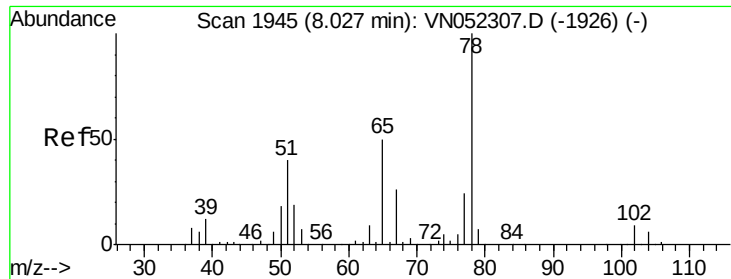
1000

0

Time-->

4.50 4.55 4.60 4.65

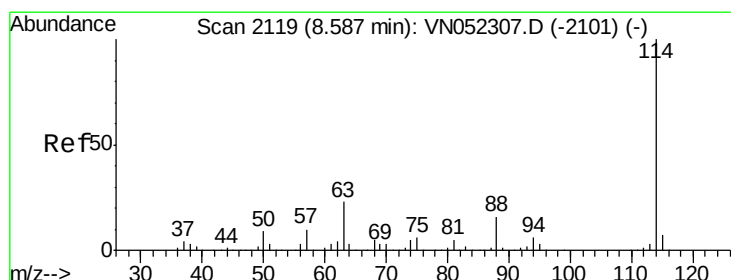
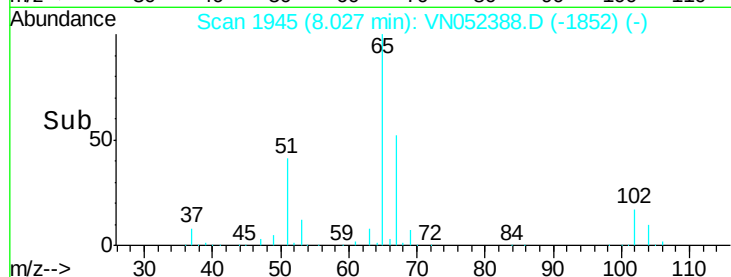
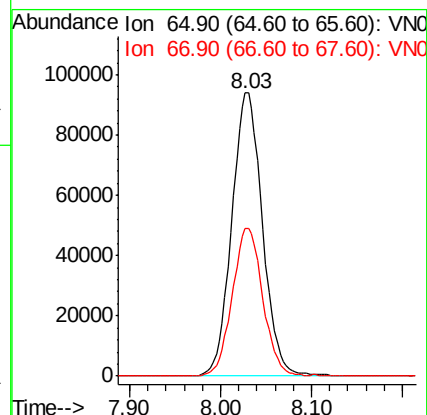
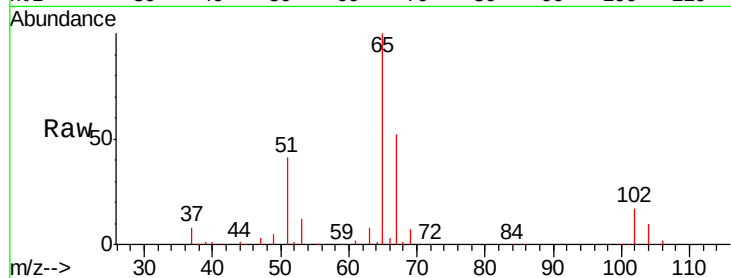




#33  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN052388.D  
 Acq: 19 Nov 2018 16:40

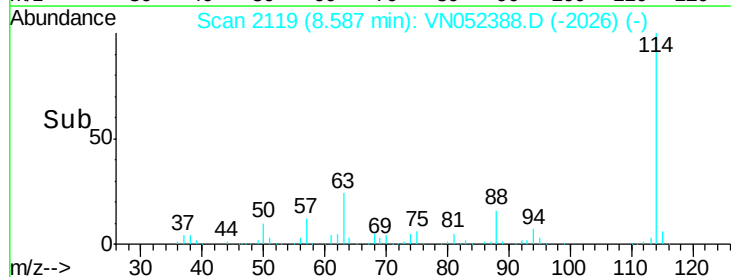
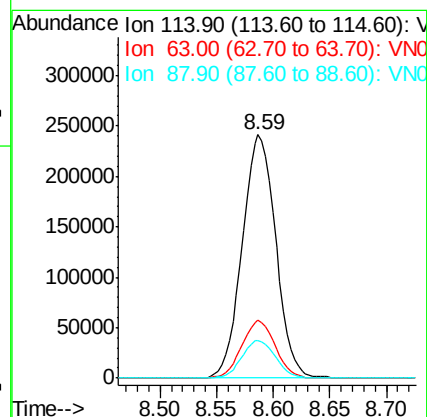
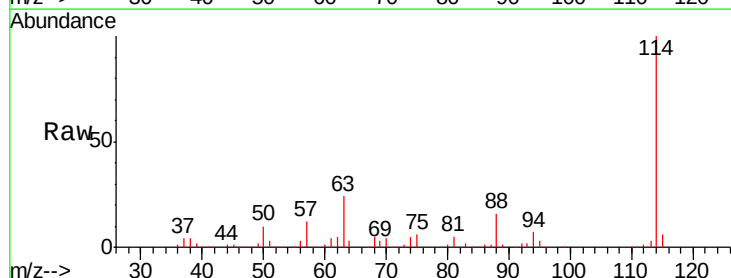
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB114846ZHE#04

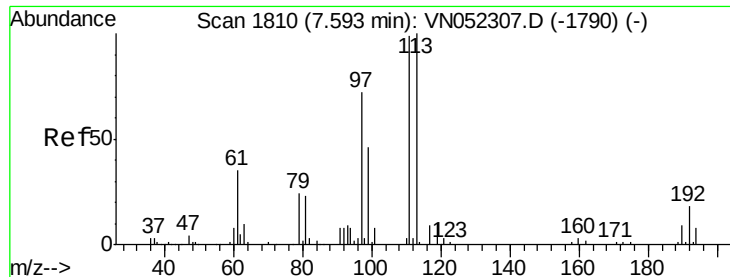
Tgt Ion: 65 Resp: 220104  
 Ion Ratio Lower Upper  
 65 100  
 67 51.8 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN052388.D  
 Acq: 19 Nov 2018 16:40

Tgt Ion: 114 Resp: 497978  
 Ion Ratio Lower Upper  
 114 100  
 63 23.6 0.0 45.4  
 88 15.5 0.0 31.2

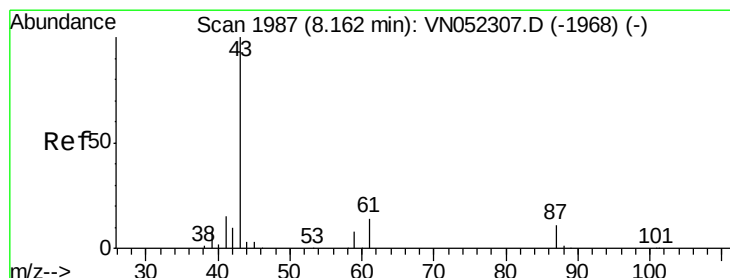
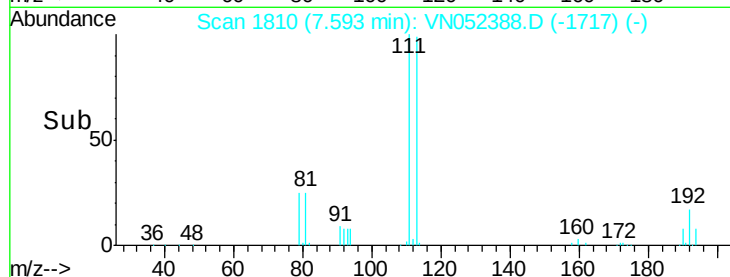
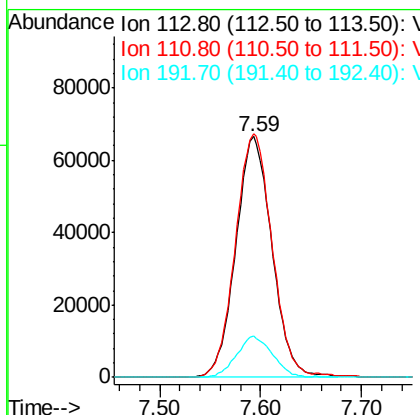
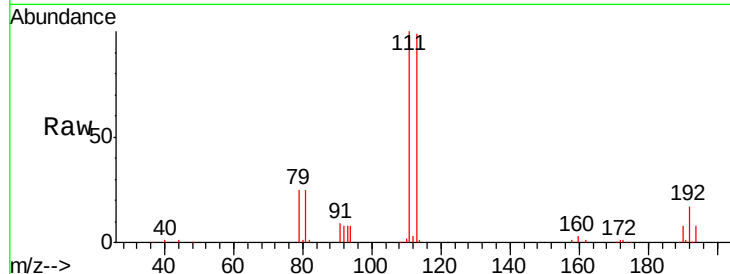




#35  
 Dibromofluoromethane  
 Concen: 50.00 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN052388.D  
 Acq: 19 Nov 2018 16:40

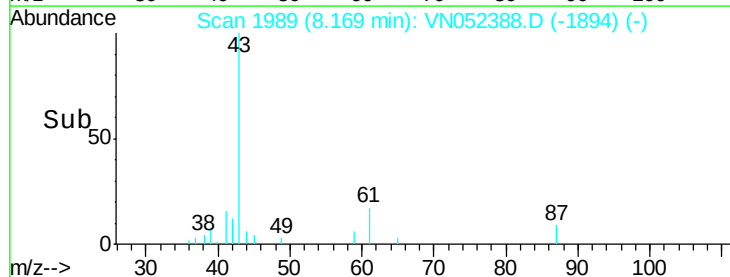
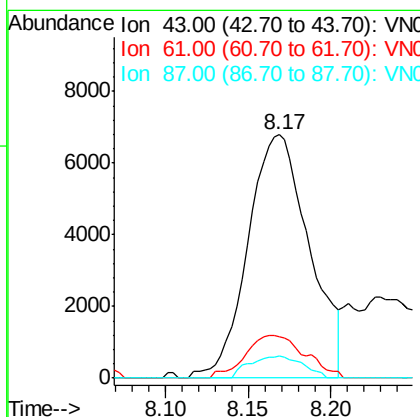
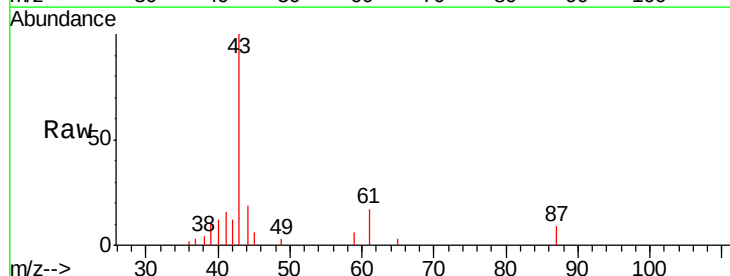
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB114846ZHE#04

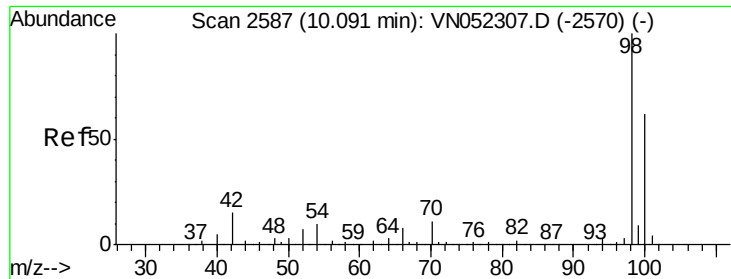
Tgt Ion: 113 Resp: 165300  
 Ion Ratio Lower Upper  
 113 100  
 111 103.0 81.0 121.6  
 192 17.1 13.8 20.6



#43  
 Isopropyl Acetate  
 Concen: 2.50 ug/l  
 RT: 8.17 min Scan# 1989  
 Delta R.T. 0.01 min  
 Lab File: VN052388.D  
 Acq: 19 Nov 2018 16:40

Tgt Ion: 43 Resp: 17469  
 Ion Ratio Lower Upper  
 43 100  
 61 17.1 12.0 18.0  
 87 7.9 8.3 12.5#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

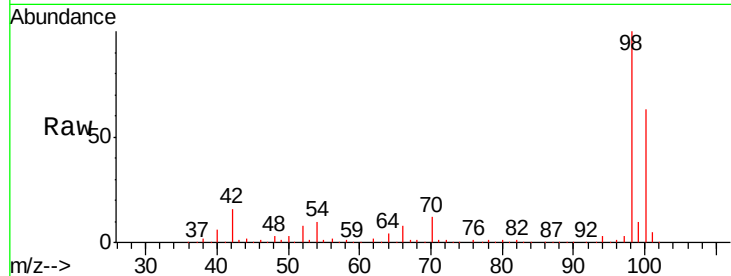
PB114846ZHE#04

Tgt Ion: 98 Resp: 638046

Ion Ratio Lower Upper

98 100

100 61.8 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN052307.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052307.D (-2570) (-)

10.09

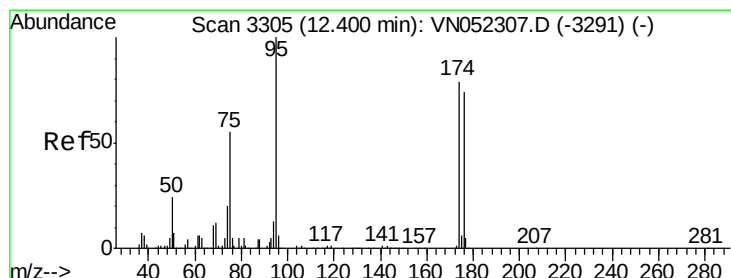
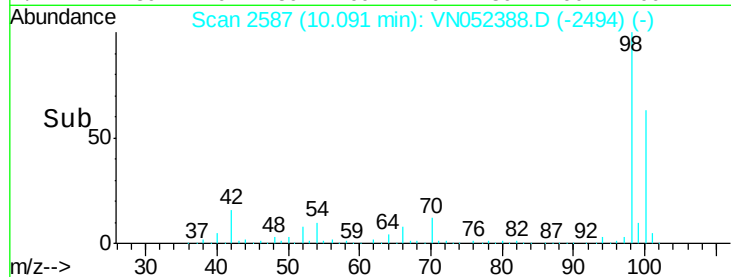
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

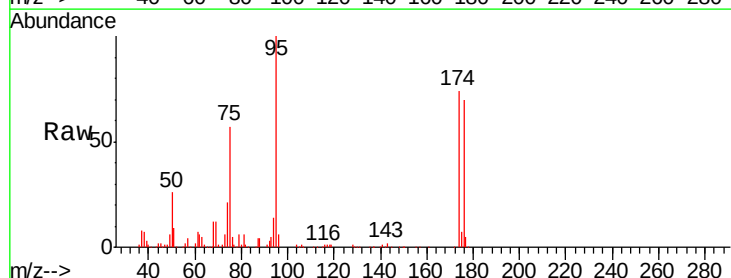
Tgt Ion: 95 Resp: 188178

Ion Ratio Lower Upper

95 100

174 74.7 0.0 156.0

176 71.1 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052307.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052307.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052307.D (-3291) (-)

12.40

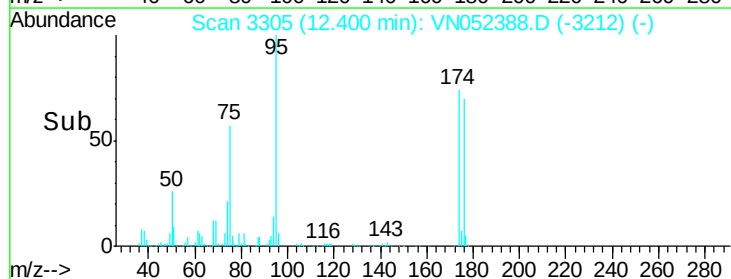
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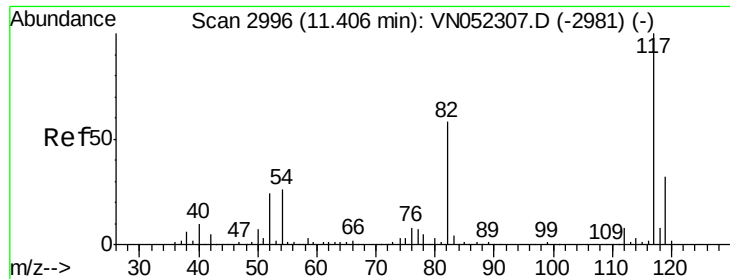
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Instrument :

MSVOA\_N

ClientSampleId :

PB114846ZHE#04

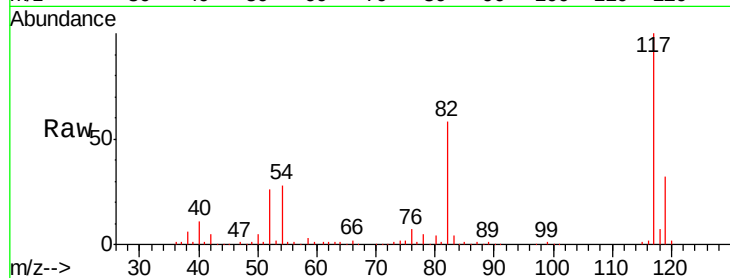
Tgt Ion:117 Resp: 437458

Ion Ratio Lower Upper

117 100

82 57.9 46.5 69.7

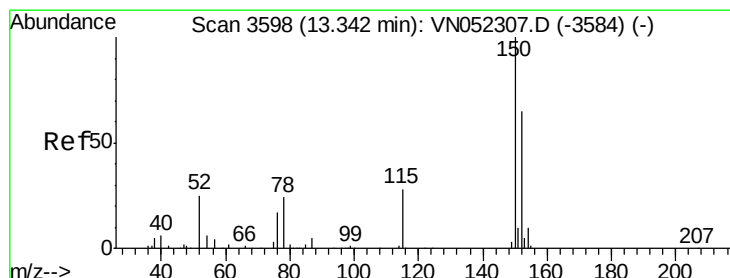
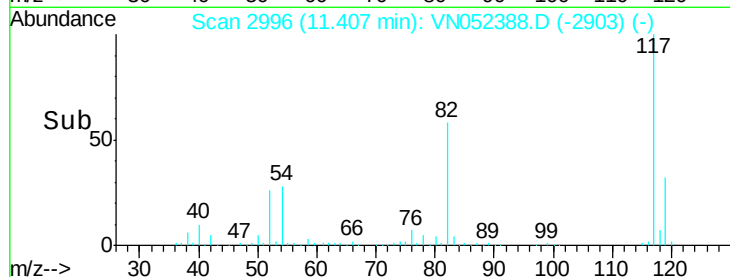
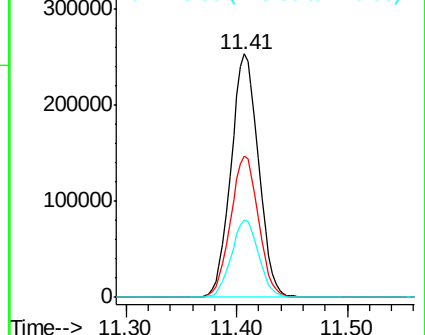
119 31.6 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

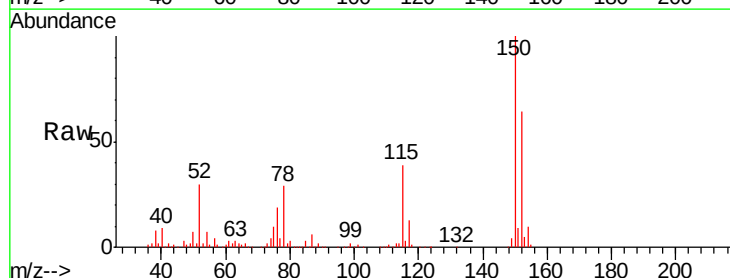
Tgt Ion:152 Resp: 149915

Ion Ratio Lower Upper

152 100

115 61.0 30.3 91.0

150 156.6 0.0 348.2



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

