

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070218\  
 Data File : VN049667.D  
 Acq On : 2 Jul 2018 14:18  
 Operator : MD\SY  
 Sample : J3811-06  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-1

Quant Time: Jul 03 04:20:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N062918W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 30 00:55:30 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1413827  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 2221218  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1875527  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 792731   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 935790   | 50.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.24% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 814346   | 49.04 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.08%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 3012531  | 46.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.70%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 881010   | 39.70 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 79.40%  |          |

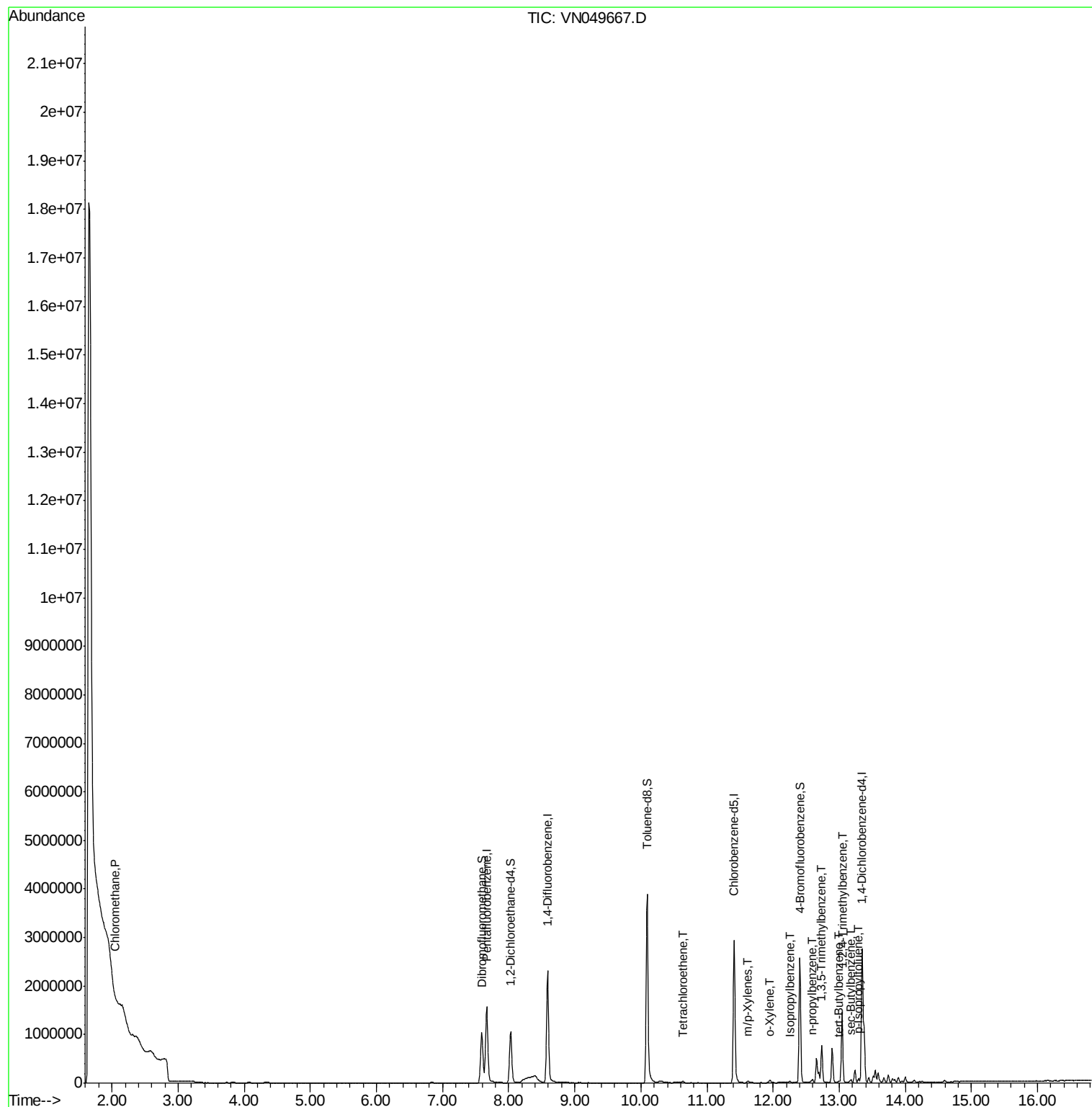
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 3) Chloromethane           | 2.06  | 50   | 8842     | 0.44  | ug/l  | 93     |
| 64) Tetrachloroethene      | 10.63 | 164  | 7162     | 0.28  | ug/l  | 90     |
| 68) m/p-Xylenes            | 11.62 | 106  | 13453    | 0.43  | ug/l  | 93     |
| 69) o-Xylene               | 11.95 | 106  | 13025    | 0.44  | ug/l  | 92     |
| 73) Isopropylbenzene       | 12.25 | 105  | 18054    | 0.29  | ug/l  | 98     |
| 78) n-propylbenzene        | 12.59 | 91   | 52990    | 0.73  | ug/l  | 98     |
| 80) 1,3,5-Trimethylbenzene | 12.73 | 105  | 419783   | 8.00  | ug/l  | 99     |
| 83) tert-Butylbenzene      | 12.99 | 119  | 10776    | 0.24  | ug/l  | 84     |
| 84) 1,2,4-Trimethylbenzene | 13.04 | 105  | 837731   | 15.54 | ug/l  | 99     |
| 85) sec-Butylbenzene       | 13.17 | 105  | 38890    | 0.65  | ug/l  | 79     |
| 86) p-Isopropyltoluene     | 13.29 | 119  | 46007    | 0.89  | ug/l  | 98     |

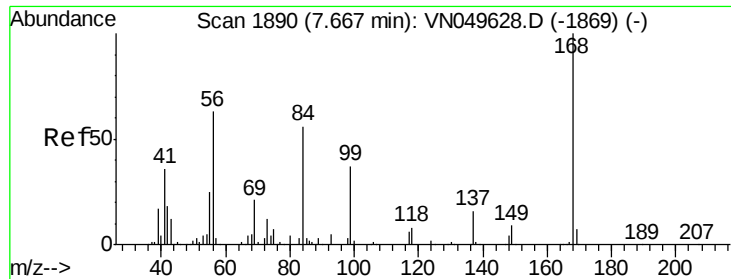
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1

Quant Time: Jul 03 04:20:16 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N062918W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 30 00:55:30 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049667.D

Acq: 2 Jul 2018 14:18

Instrument :

MSVOA\_N

ClientSampled :

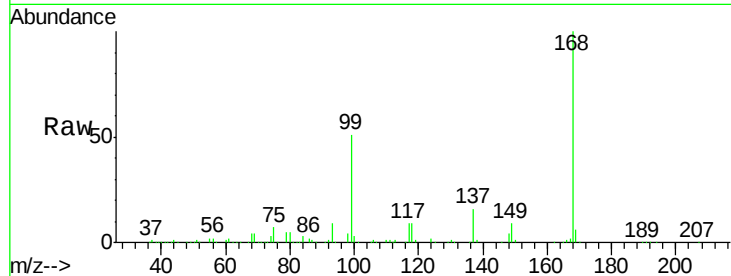
MW-1

Tot Ion:168 Resp: 1413827

Ion Ratio Lower Upper

168 100

99 51.0 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

600000

500000

400000

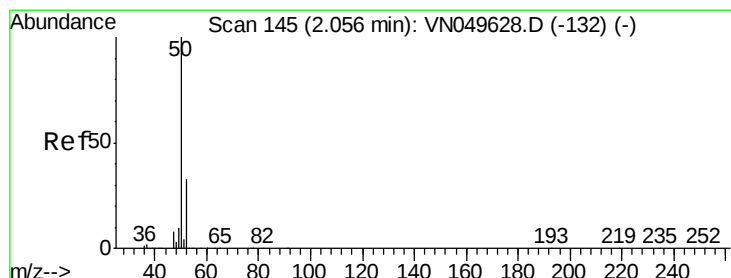
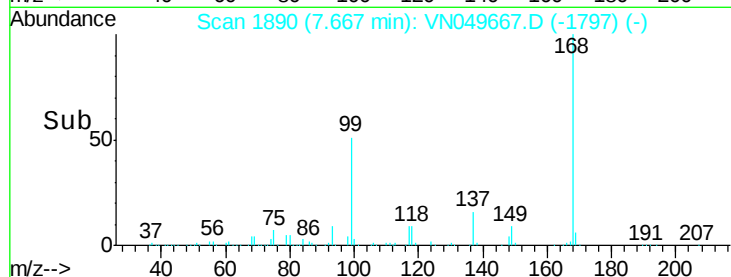
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#3

Chloromethane

Concen: 0.44 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN049667.D

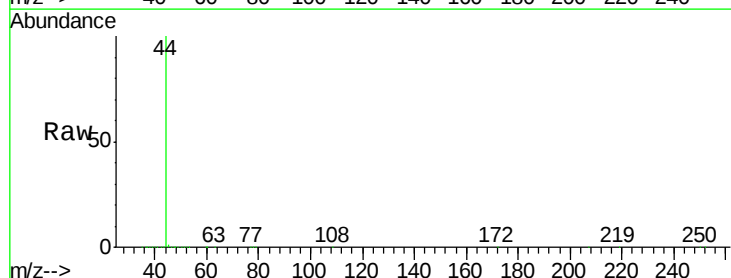
Acq: 2 Jul 2018 14:18

Tgt Ion: 50 Resp: 8842

Ion Ratio Lower Upper

50 100

52 28.5 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

8000

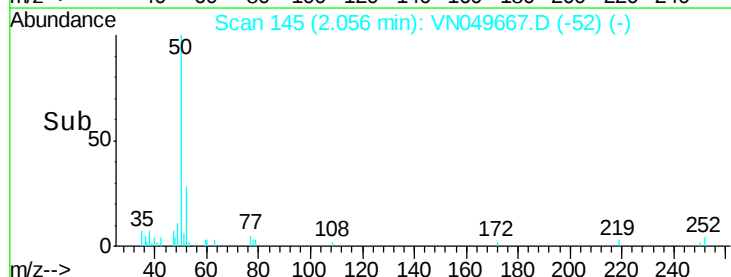
6000

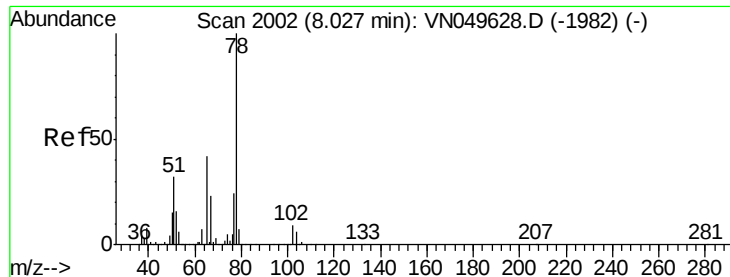
4000

2000

0

Time--> 2.00 2.05 2.10





#33

1,2-Dichloroethane-d4

Concen: 50.12 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049667.D

Acq: 2 Jul 2018 14:18

Instrument :

MSVOA\_N

ClientSampleId :

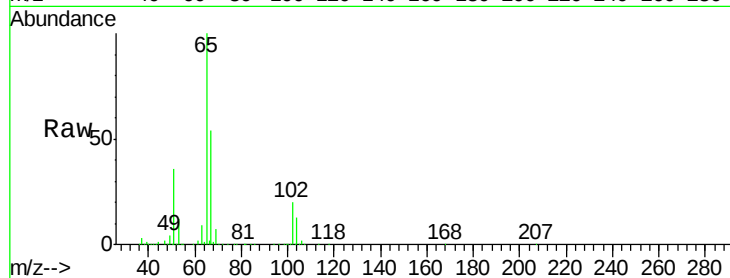
MW-1

Tot Ion: 65 Resp: 935790

Ion Ratio Lower Upper

65 100

67 53.9 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049667.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049667.D (-1909) (-)

8.03

400000

300000

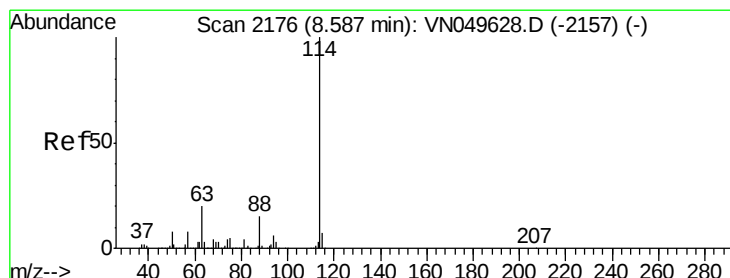
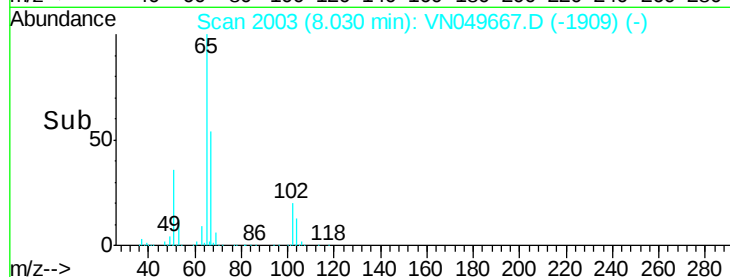
200000

100000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049667.D

Acq: 2 Jul 2018 14:18

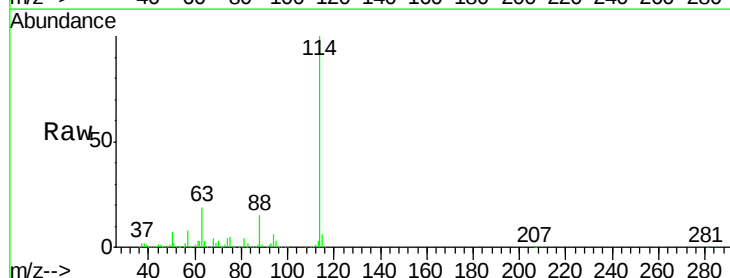
Tgt Ion: 114 Resp: 2221218

Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.8

88 15.3 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): VN049667.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049667.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049667.D (-2083) (-)

8.59

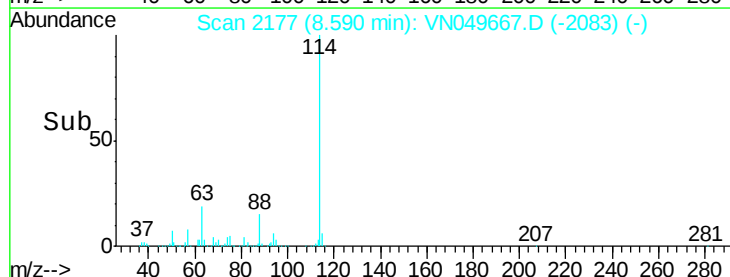
1000000

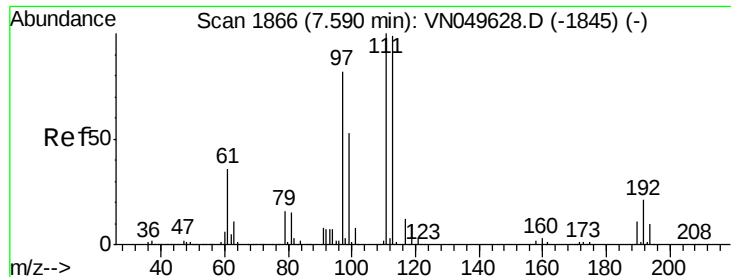
500000

0

8.50 8.60 8.70

Time-->

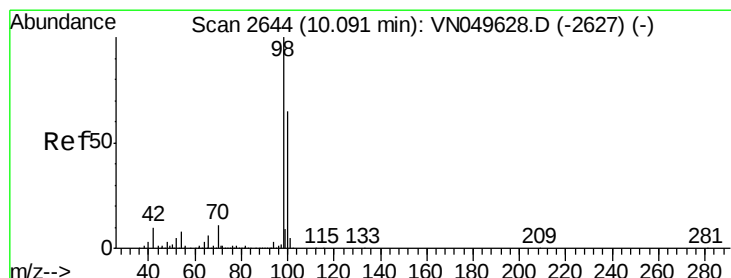
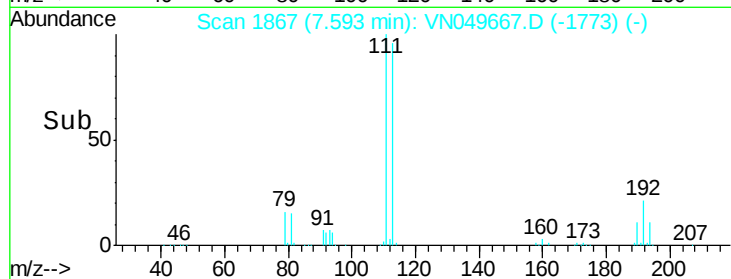
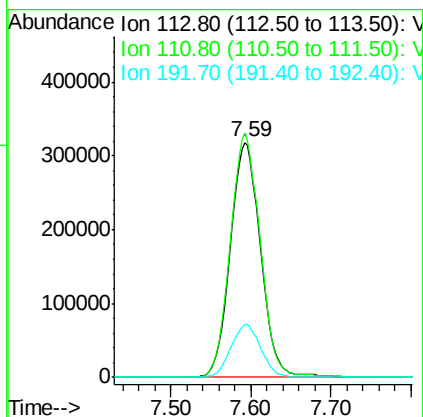
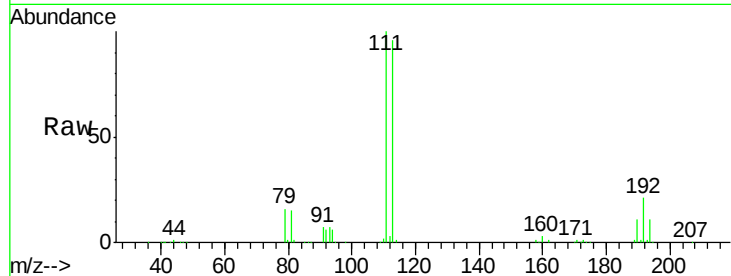




#35  
Dibromofluoromethane  
Concen: 49.04 ug/l  
RT: 7.59 min Scan# 1867  
Delta R.T. 0.00 min  
Lab File: VN049667.D  
Acq: 2 Jul 2018 14:18

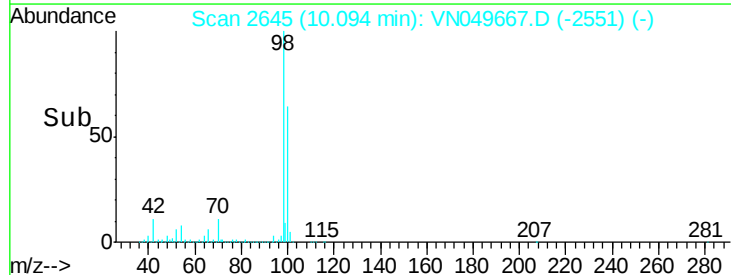
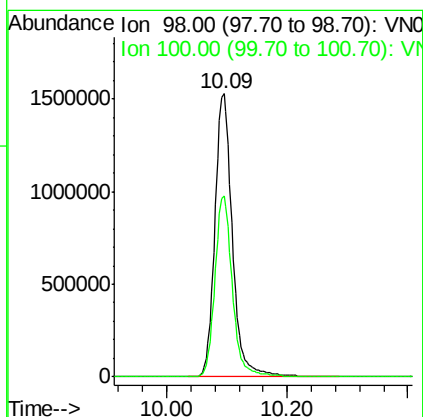
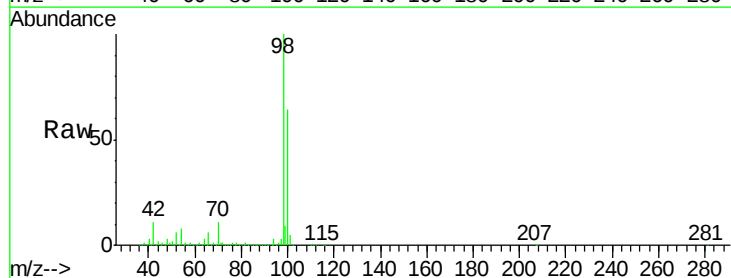
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1

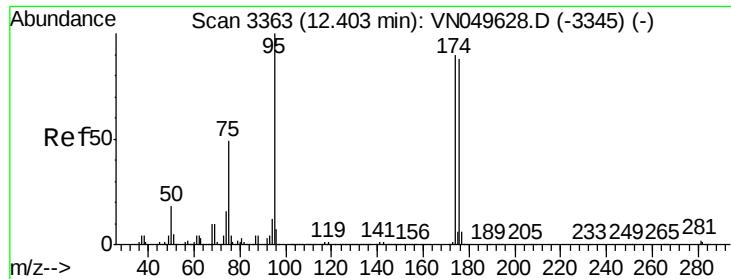
Tot Ion:113 Resp: 814346  
Ion Ratio Lower Upper  
113 100  
111 103.2 81.8 122.8  
192 22.2 17.8 26.6



#50  
Toluene-d8  
Concen: 46.35 ug/l  
RT: 10.09 min Scan# 2645  
Delta R.T. 0.00 min  
Lab File: VN049667.D  
Acq: 2 Jul 2018 14:18

Tgt Ion: 98 Resp: 3012531  
Ion Ratio Lower Upper  
98 100  
100 63.7 51.7 77.5

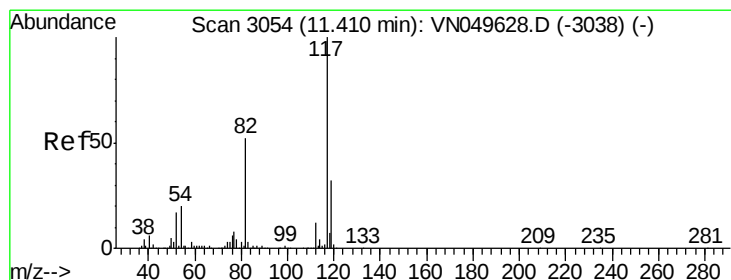
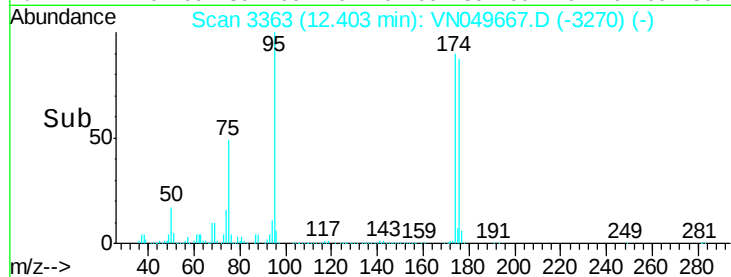
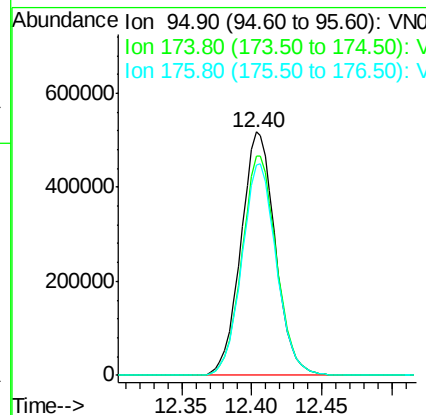
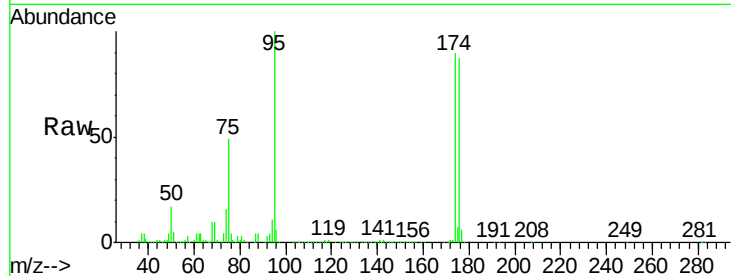




#62  
4-Bromofluorobenzene  
Concen: 39.70 ug/l  
RT: 12.40 min Scan# 3363  
Delta R.T. -0.00 min  
Lab File: VN049667.D  
Acq: 2 Jul 2018 14:18

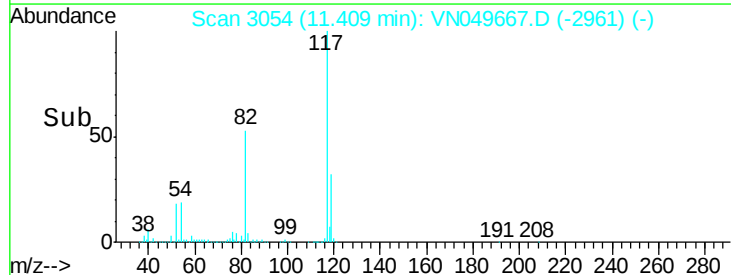
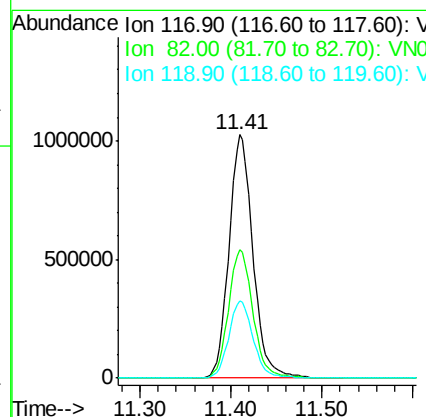
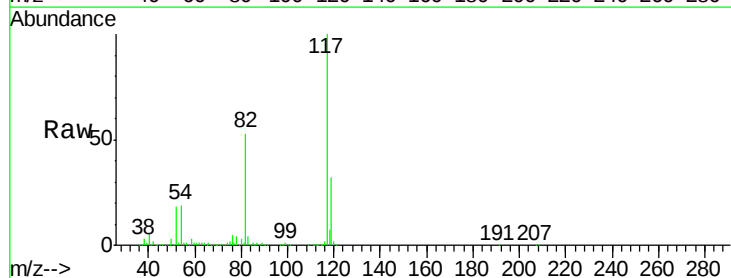
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1

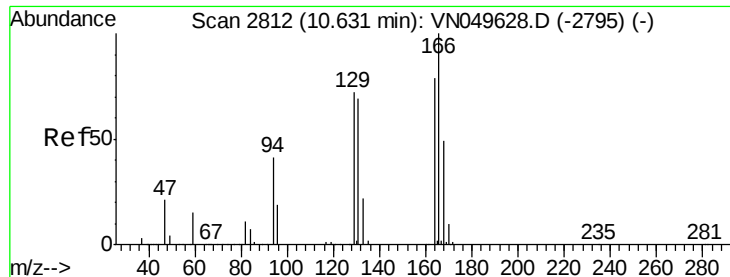
Tot Ion: 95 Resp: 881010  
Ion Ratio Lower Upper  
95 100  
174 91.0 0.0 179.6  
176 87.4 0.0 174.0



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. -0.00 min  
Lab File: VN049667.D  
Acq: 2 Jul 2018 14:18

Tgt Ion: 117 Resp: 1875527  
Ion Ratio Lower Upper  
117 100  
82 52.9 41.9 62.9  
119 31.8 25.4 38.2





#64

Tetrachloroethene

Concen: 0.28 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.00 min

Lab File: VN049667.D

Acq: 2 Jul 2018 14:18

Instrument :

MSVOA\_N

ClientSampled :

MW-1

Tot Ion:164 Resp: 7162

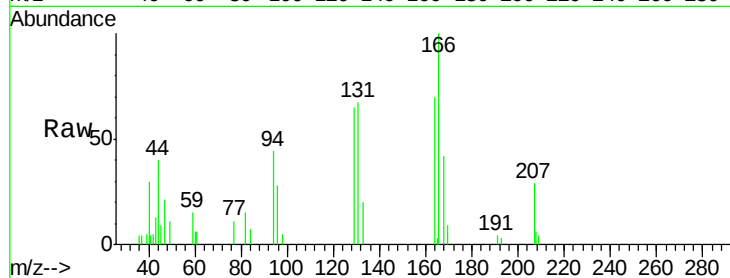
Ion Ratio Lower Upper

164 100

166 143.6 101.8 152.6

129 94.0 72.8 109.2

131 96.2 70.0 105.0

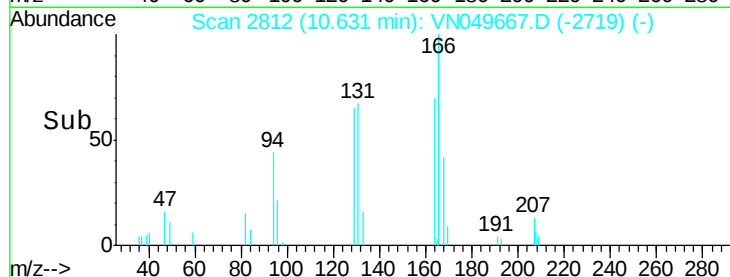


Abundance Ion 163.80 (163.50 to 164.50): V

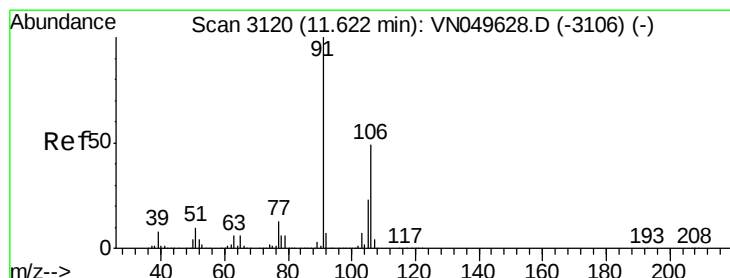
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



Time-->



#68

m/p-Xylenes

Concen: 0.43 ug/l

RT: 11.62 min Scan# 3119

Delta R.T. -0.00 min

Lab File: VN049667.D

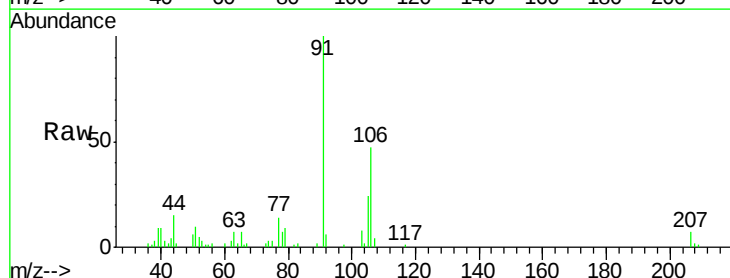
Acq: 2 Jul 2018 14:18

Tgt Ion:106 Resp: 13453

Ion Ratio Lower Upper

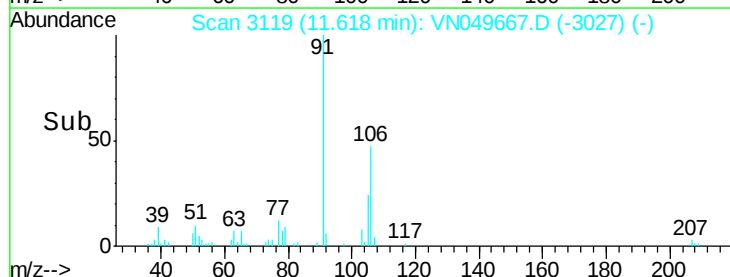
106 100

91 193.3 163.4 245.2

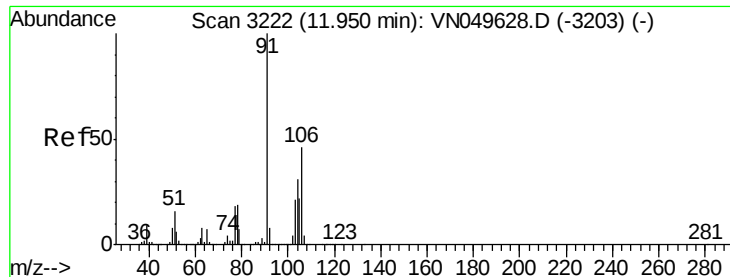


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V



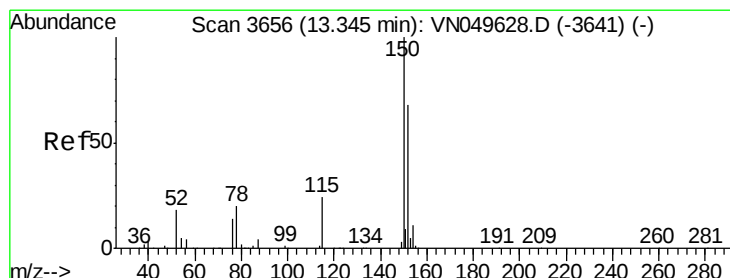
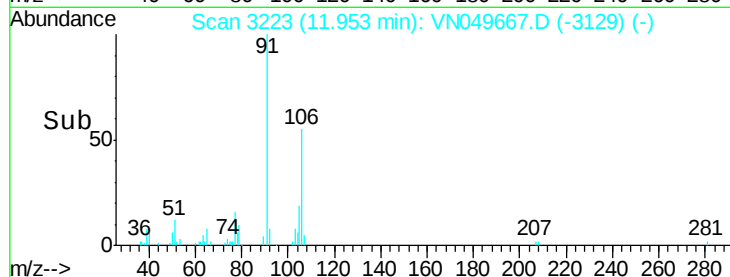
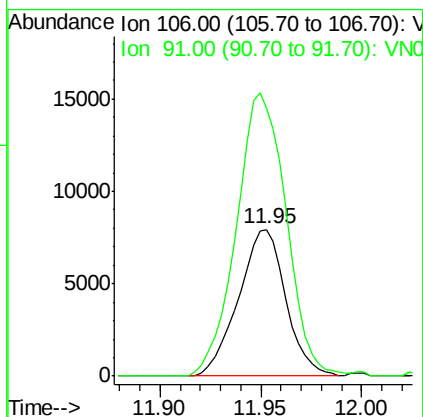
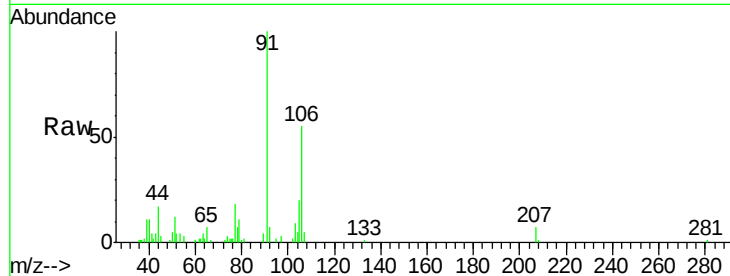
Time-->



#69  
o-Xylene  
Concen: 0.44 ug/l  
RT: 11.95 min Scan# 3223  
Delta R.T. 0.00 min  
Lab File: VN049667.D  
Acq: 2 Jul 2018 14:18

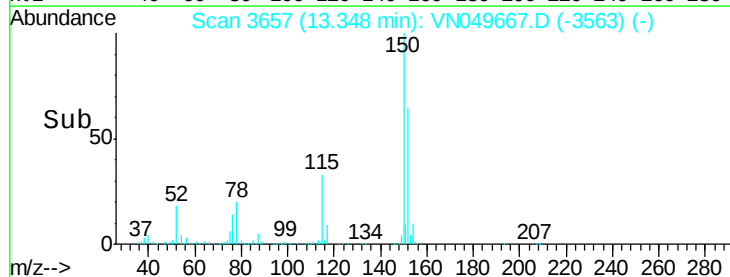
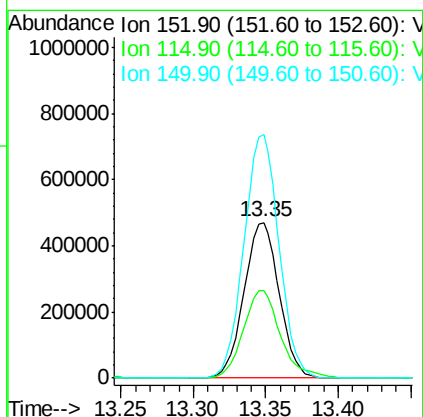
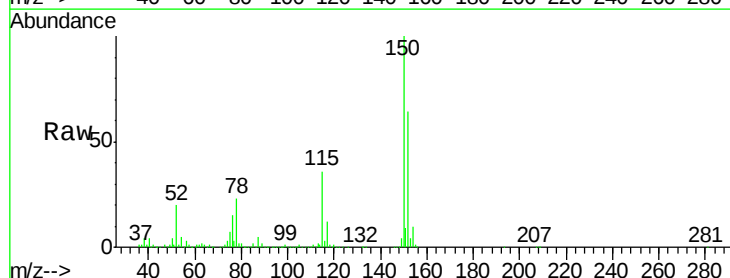
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-1

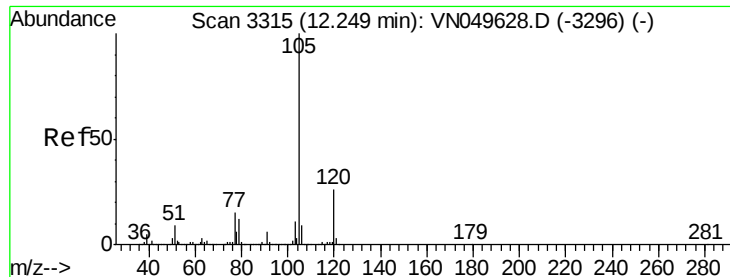
Tot Ion:106 Resp: 13025  
Ion Ratio Lower Upper  
106 100  
91 204.1 108.7 326.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.35 min Scan# 3657  
Delta R.T. 0.00 min  
Lab File: VN049667.D  
Acq: 2 Jul 2018 14:18

Tgt Ion:152 Resp: 792731  
Ion Ratio Lower Upper  
152 100  
115 59.3 28.1 84.2  
150 156.1 0.0 347.6





#73

Isopropylbenzene

Concen: 0.29 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN049667.D

Acq: 2 Jul 2018 14:18

Instrument :

MSVOA\_N

ClientSampled :

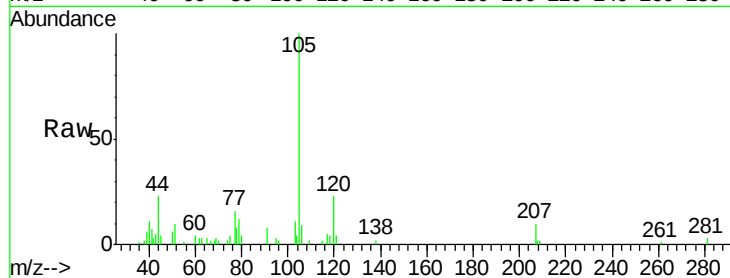
MW-1

Tot Ion:105 Resp: 18054

Ion Ratio Lower Upper

105 100

120 27.3 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12000

10000

8000

6000

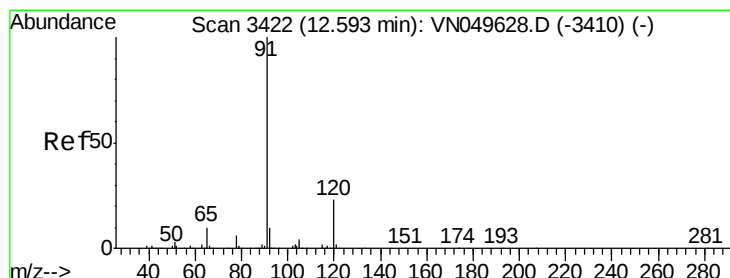
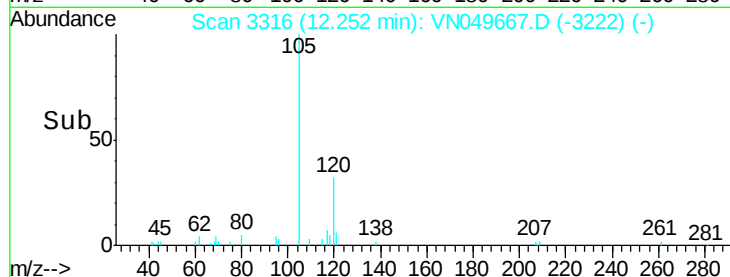
4000

2000

0

12.20 12.25 12.30

Time-->



#78

n-propylbenzene

Concen: 0.73 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN049667.D

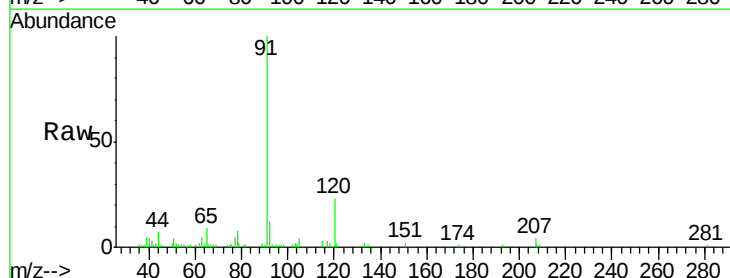
Acq: 2 Jul 2018 14:18

Tgt Ion: 91 Resp: 52990

Ion Ratio Lower Upper

91 100

120 22.0 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

60000

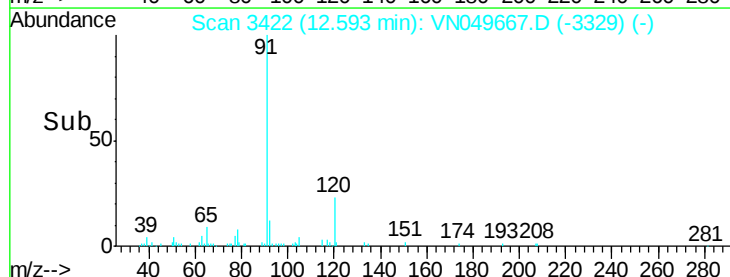
40000

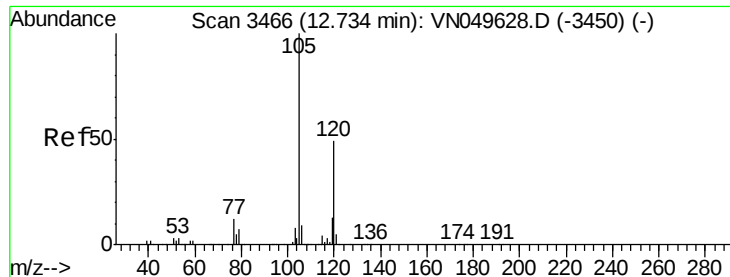
20000

0

12.55 12.60 12.65

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 8.00 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN049667.D

Acq: 2 Jul 2018 14:18

Instrument :

MSVOA\_N

ClientSampled :

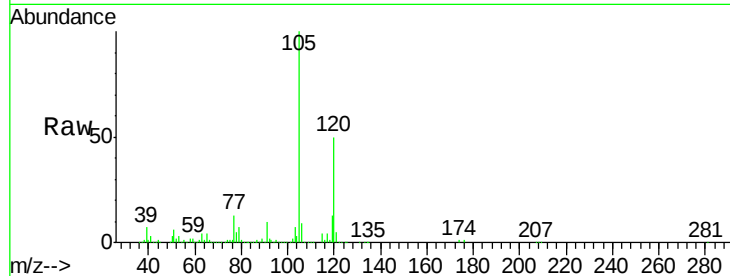
MW-1

Tot Ion:105 Resp: 419783

Ion Ratio Lower Upper

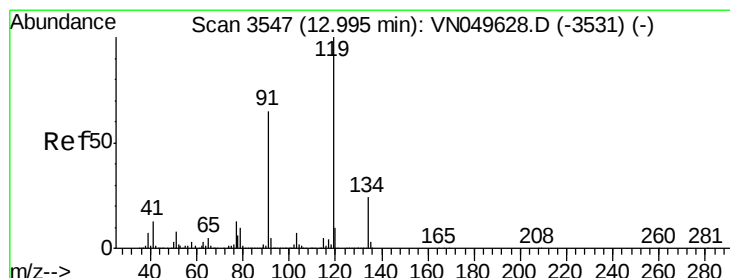
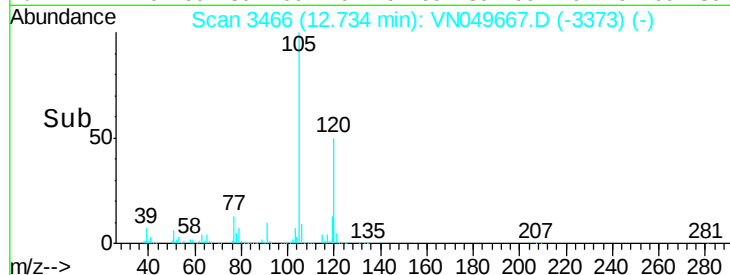
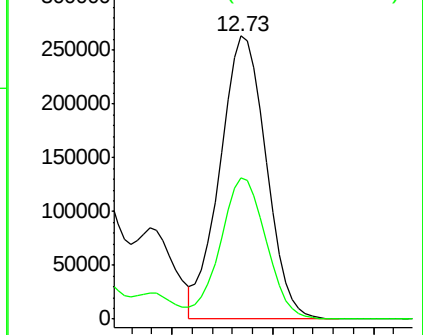
105 100

120 49.3 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#83

tert-Butylbenzene

Concen: 0.24 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN049667.D

Acq: 2 Jul 2018 14:18

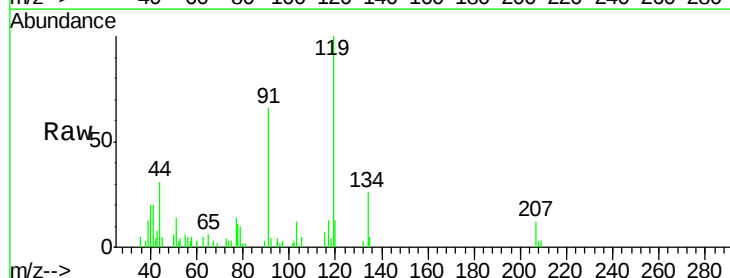
Tgt Ion:119 Resp: 10776

Ion Ratio Lower Upper

119 100

91 77.2 32.0 96.2

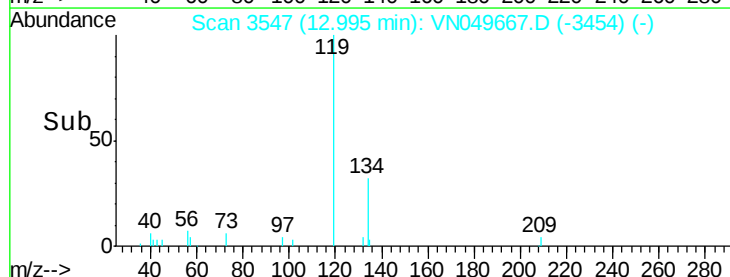
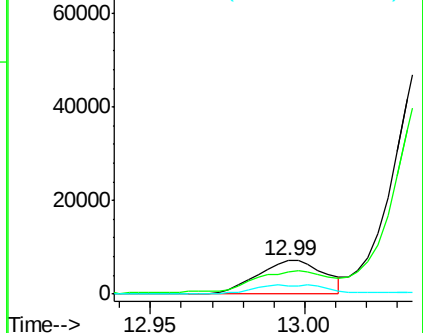
134 32.5 12.8 38.4

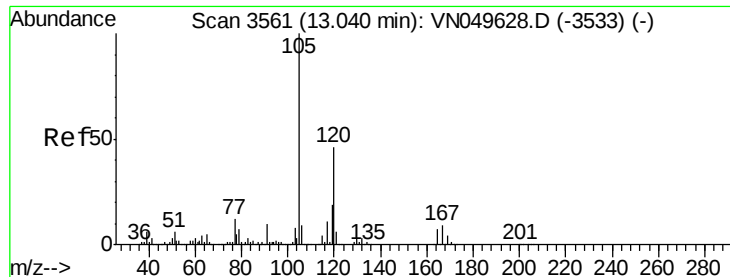


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V





#84

1,2,4-Trimethylbenzene

Concen: 15.54 ug/l

RT: 13.04 min Scan# 3562

Delta R.T. 0.00 min

Lab File: VN049667.D

Acq: 2 Jul 2018 14:18

Instrument :

MSVOA\_N

ClientSampleId :

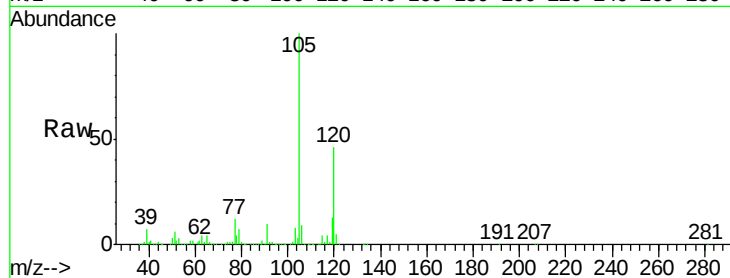
MW-1

Tot Ion:105 Resp: 837731

Ion Ratio Lower Upper

105 100

120 45.7 22.7 68.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

600000

500000

400000

300000

200000

100000

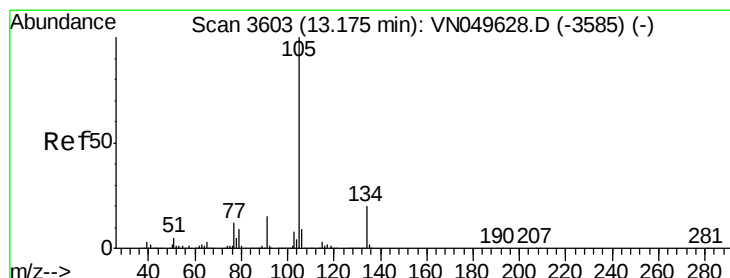
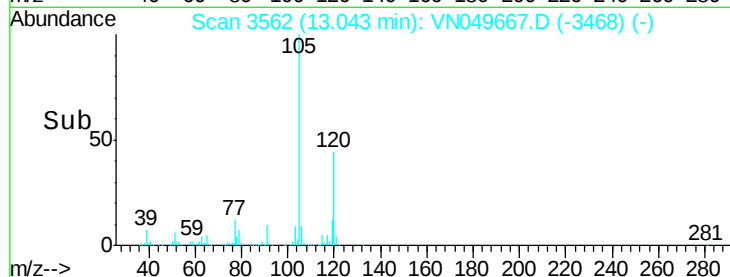
0

13.04

13.00

13.10

Time-->



#85

sec-Butylbenzene

Concen: 0.65 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. -0.00 min

Lab File: VN049667.D

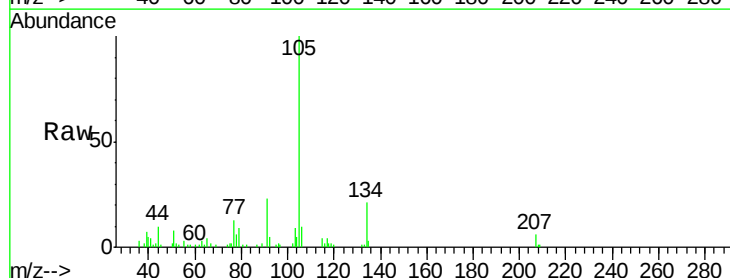
Acq: 2 Jul 2018 14:18

Tgt Ion:105 Resp: 38890

Ion Ratio Lower Upper

105 100

134 29.9 10.1 30.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

30000

25000

20000

15000

10000

5000

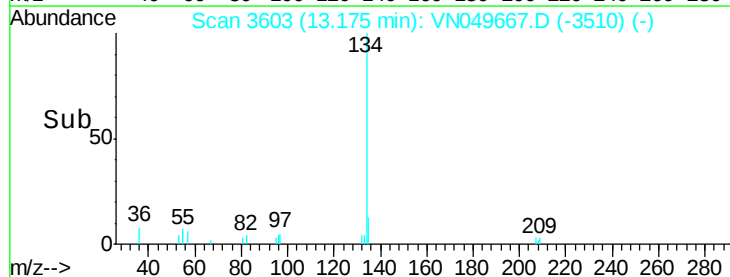
0

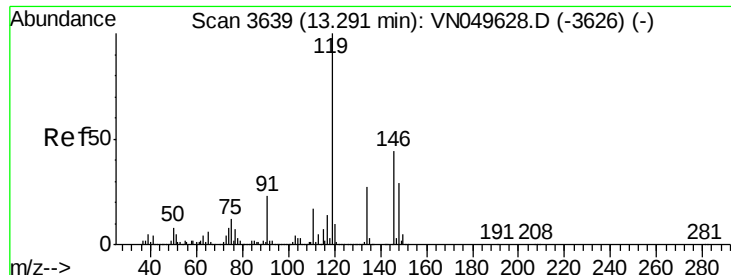
13.17

13.15

13.20

Time-->





#86  
 p-Isopropyltoluene  
 Concen: 0.89 ug/l  
 RT: 13.29 min Scan# 3639  
 Delta R.T. -0.00 min  
 Lab File: VN049667.D  
 Acq: 2 Jul 2018 14:18

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-1

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 119   | Resp: | 46007 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 28.1  | 13.3  | 39.9  |
| 91       | 22.2  | 11.4  | 34.1  |

