

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\  
 Data File : VN051248.D  
 Acq On : 16 Sep 2018 2:33  
 Operator : MD\SY  
 Sample : J4929-12  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 17 04:25:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 02:27:09 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 409660   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 642439   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 532836   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 166708   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 224538   | 49.25 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.50% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 238493   | 49.40 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.80% |      |
| 50) Toluene-d8            | 10.09  | 98  | 829597   | 45.29 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.58% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 222924   | 36.79 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 73.58% |      |

## Target Compounds

|                                |       |     |         |           |        | Qvalue |
|--------------------------------|-------|-----|---------|-----------|--------|--------|
| 3) Chloromethane               | 2.06  | 50  | 1850    | Below Cal |        | 94     |
| 5) Bromomethane                | 2.58  | 94  | 2296    | Below Cal |        | 93     |
| 10) Methyl Iodide              | 3.95  | 142 | 314     | 5.70      | ug/l # | 44     |
| 11) Tert butyl alcohol         | 4.78  | 59  | 128     | 0.37      | ug/l # | 73     |
| 14) Allyl chloride             | 4.55  | 41  | 69767   | 10.48     | ug/l # | 27     |
| 16) Acetone                    | 3.83  | 43  | 9157    | 2.34      | ug/l   | 98     |
| 18) Methyl Acetate             | 4.33  | 43  | 11289   | 3.09      | ug/l   | 96     |
| 20) Methylene Chloride         | 4.55  | 84  | 1991994 | 395.56    | ug/l   | 99     |
| 25) 2-Butanone                 | 6.84  | 43  | 1145    | 0.64      | ug/l # | 69     |
| 28) Bromochloromethane         | 7.21  | 49  | 1250    | 0.33      | ug/l # | 91     |
| 30) Chloroform                 | 7.37  | 83  | 14983   | 1.80      | ug/l   | 95     |
| 31) Cyclohexane                | 7.66  | 56  | 6436    | 0.64      | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75  | 26500   | 3.76      | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.67  | 117 | 34205   | 4.93      | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.17  | 43  | 213210  | 29.58     | ug/l # | 80     |
| 47) Bromodichloromethane       | 9.40  | 83  | 3195    | 0.47      | ug/l # | 96     |
| 48) Methyl methacrylate        | 9.17  | 41  | 4657    | 1.33      | ug/l # | 18     |
| 51) 4-Methyl-2-Pentanone       | 10.00 | 43  | 1295    | 0.32      | ug/l # | 81     |
| 56) Ethyl methacrylate         | 10.27 | 69  | 209     | 2.49      | ug/l # | 46     |
| 59) 2-Hexanone                 | 10.76 | 43  | 12355   | 4.57      | ug/l # | 57     |
| 64) Tetrachloroethene          | 10.63 | 164 | 4219    | 0.87      | ug/l   | 97     |
| 67) Ethyl Benzene              | 11.51 | 91  | 6755    | 0.31      | ug/l   | 97     |
| 68) m/p-Xylenes                | 11.62 | 106 | 7524    | 0.90      | ug/l   | 97     |
| 69) o-Xylene                   | 11.95 | 106 | 2032    | 0.25      | ug/l   | 87     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 102146  | 39.20     | ug/l # | 100    |
| 78) n-propylbenzene            | 12.60 | 91  | 4321    | 0.28      | ug/l   | 91     |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105 | 6692    | 0.59      | ug/l   | 97     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 102146  | 116.37    | ug/l # | 15     |
| 83) tert-Butylbenzene          | 13.04 | 119 | 2766    | 0.28      | ug/l # | 67     |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105 | 18910   | 1.70      | ug/l   | 97     |
| 85) sec-Butylbenzene           | 13.04 | 105 | 18910   | 1.48      | ug/l # | 55     |
| 90) Hexachloroethane           | 13.89 | 117 | 430     | Below Cal | #      | 2      |
| 95) Naphthalene                | 15.13 | 128 | 12301   | 7.09      | ug/l   | 98     |
| 96) 1,2,3-Trichlorobenzene     | 15.32 | 180 | 63      | 2.97      | ug/l # | 12     |

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MSVOA\_N  
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Quant Time: Sep 17 04:25:43 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091018W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 11 02:27:09 2018  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

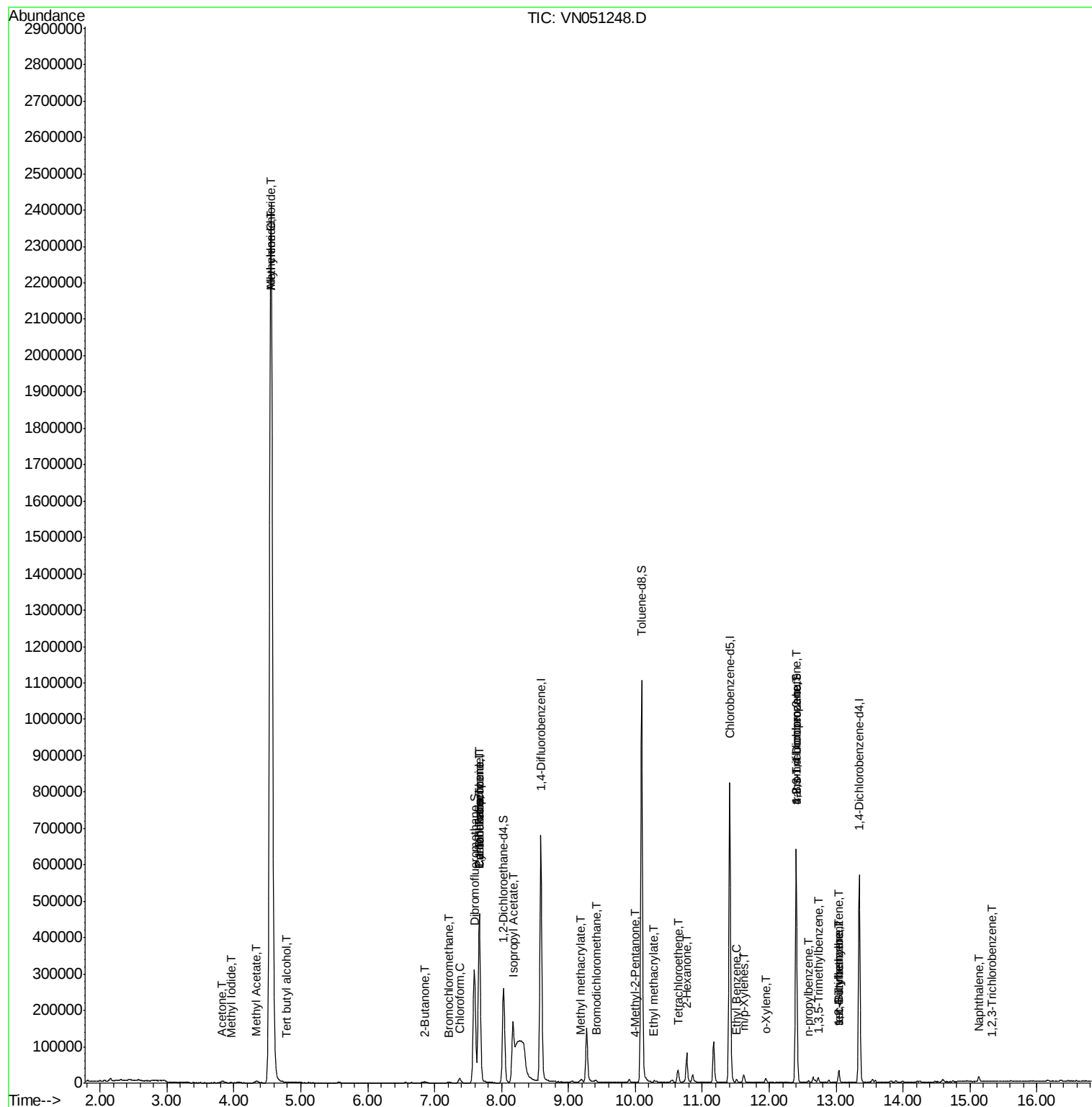
|       |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|
| ----- |  |  |  |  |  |  |
| ----- |  |  |  |  |  |  |

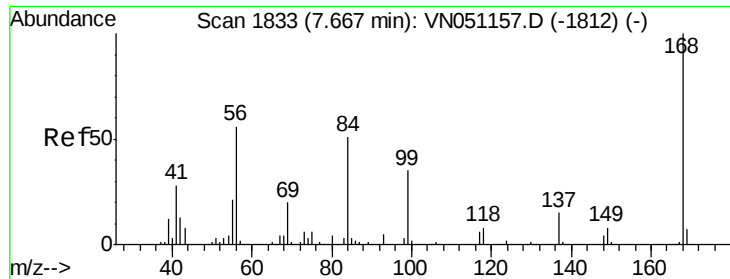
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091518\  
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Quant Title : SW846 8260  
QLast Update : Tue Sep 11 02:27:09 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

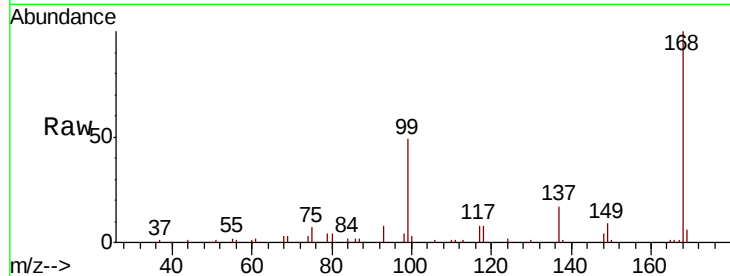
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:168 Resp: 409660

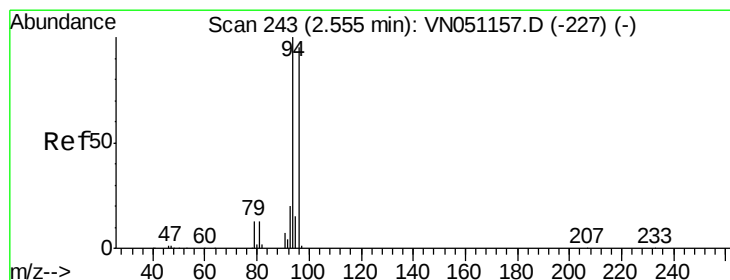
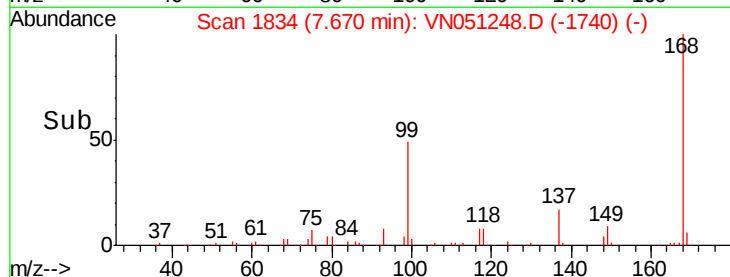
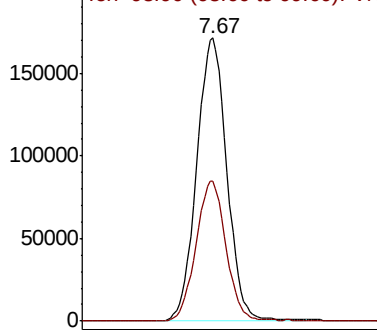
Ion Ratio Lower Upper

168 100

99 49.3 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V  
Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN051248.D

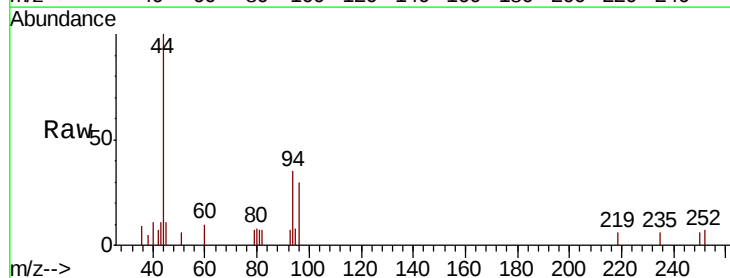
Acq: 16 Sep 2018 2:33

Tgt Ion: 94 Resp: 2296

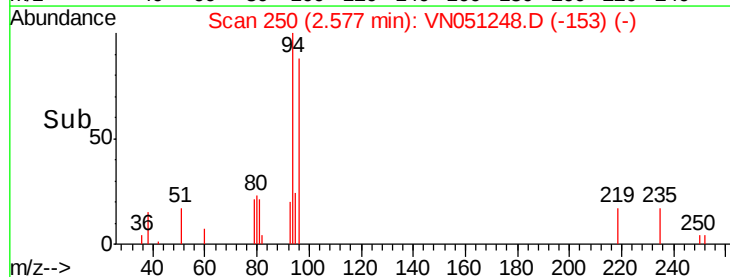
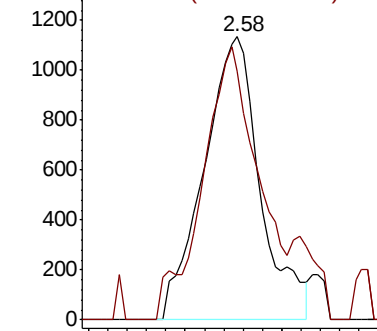
Ion Ratio Lower Upper

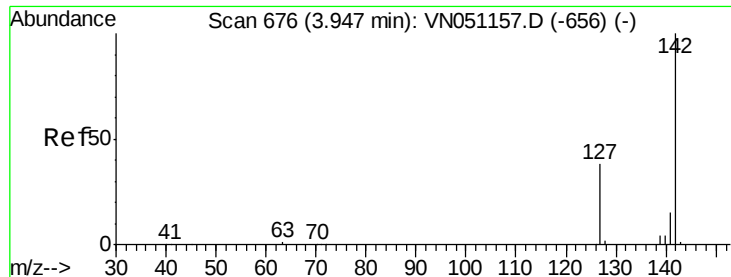
94 100

96 87.8 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VNO  
Ion 95.90 (95.60 to 96.60): VNO

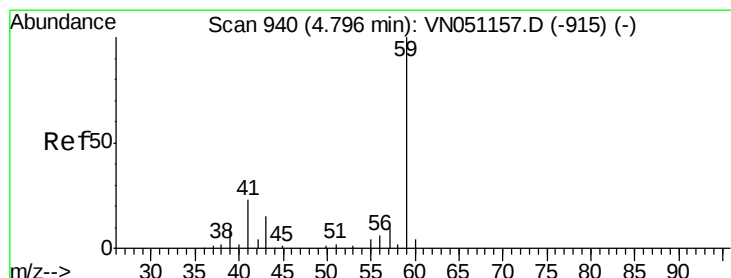
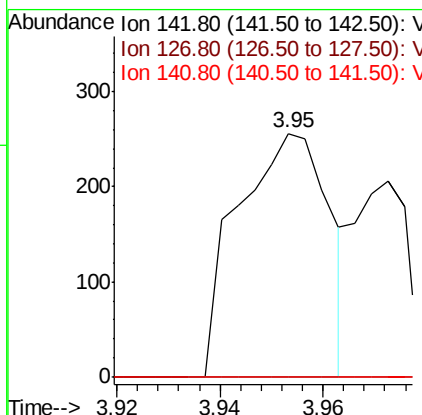
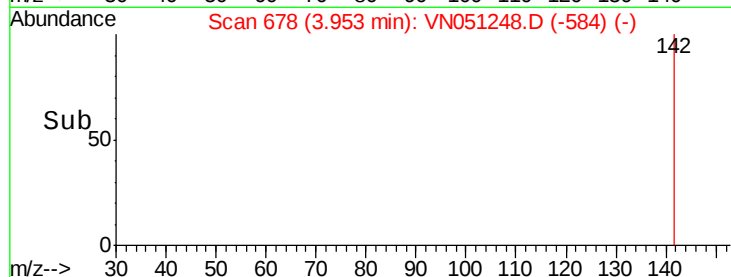
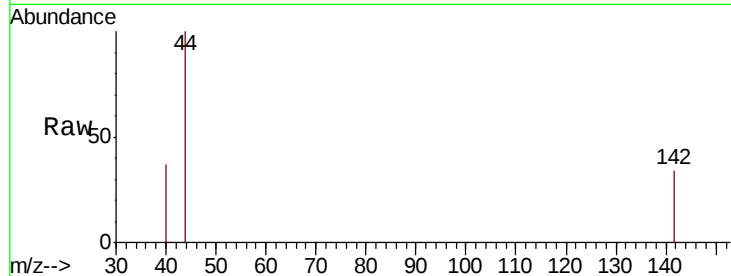




#10  
Methvl Iodide  
Concen: 5.70 ug/l  
RT: 3.95 min Scan# 678  
Delta R.T. 0.00 min  
Lab File: VN051248.D  
Acq: 16 Sep 2018 2:33

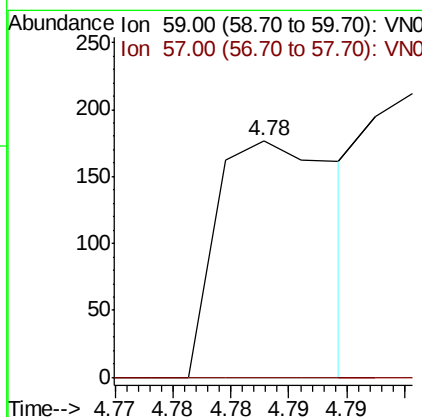
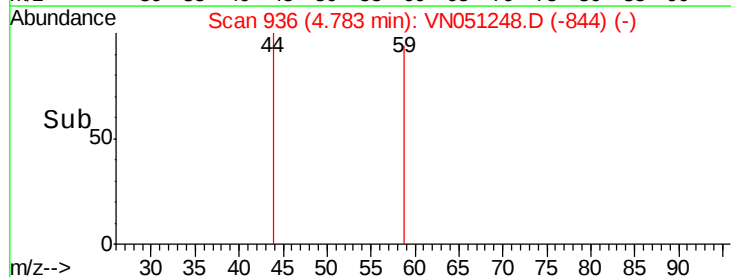
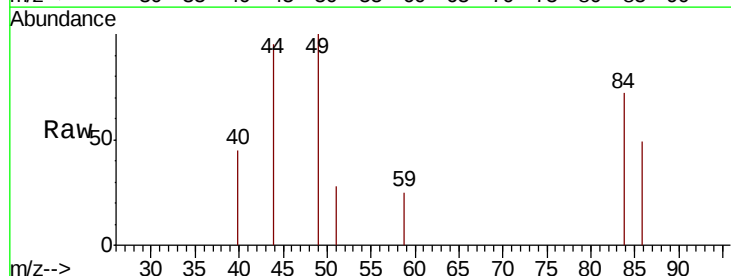
Instrument :  
MSVOA\_N  
ClientSampled :

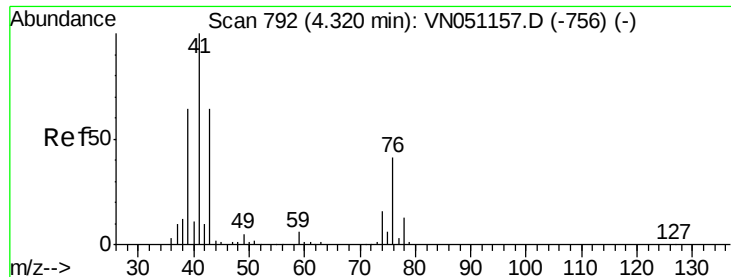
Tot Ion:142 Resp: 314  
Ion Ratio Lower Upper  
142 100  
127 0.0 31.0 46.4#  
141 0.0 11.3 16.9#



#11  
Tert butyl alcohol  
Concen: 0.37 ug/l  
RT: 4.78 min Scan# 936  
Delta R.T. -0.00 min  
Lab File: VN051248.D  
Acq: 16 Sep 2018 2:33

Tgt Ion: 59 Resp: 128  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.1 12.1#

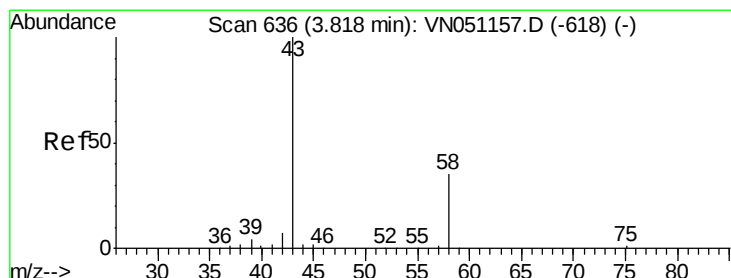
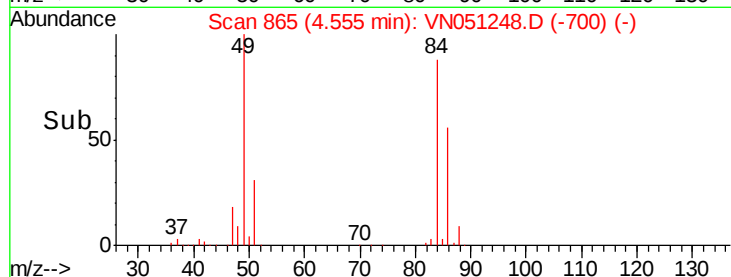
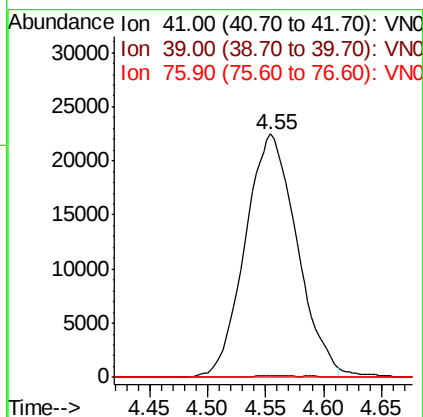
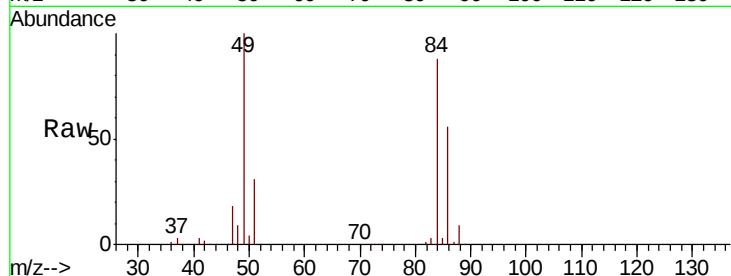




#14  
Allvl chloride  
Concen: 10.48 ug/l  
RT: 4.55 min Scan# 865  
Delta R.T. 0.23 min  
Lab File: VN051248.D  
Acq: 16 Sep 2018 2:33

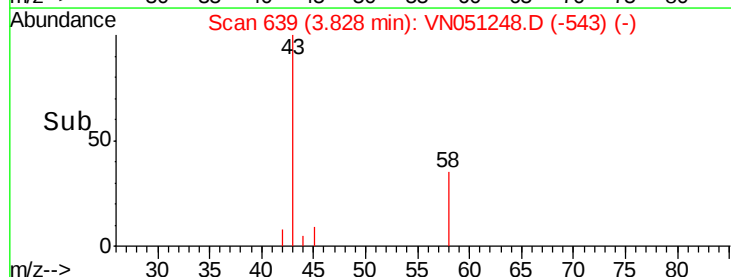
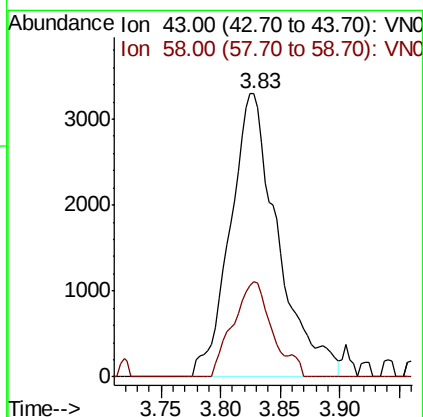
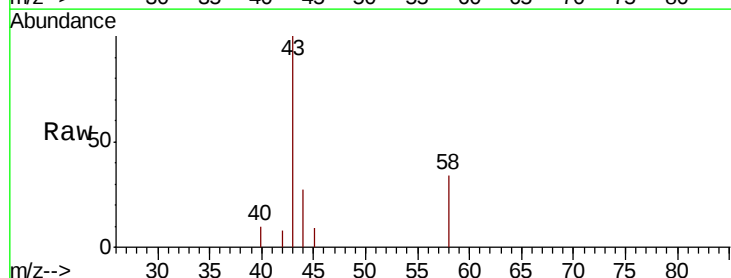
Instrument :  
MSVOA\_N  
ClientSampled :

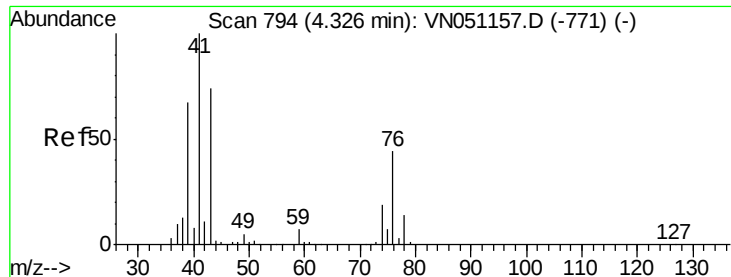
Tot Ion: 41 Resp: 69767  
Ion Ratio Lower Upper  
41 100  
39 0.3 48.8 73.2#  
76 0.0 30.6 45.8#



#16  
Acetone  
Concen: 2.34 ug/l  
RT: 3.83 min Scan# 639  
Delta R.T. 0.01 min  
Lab File: VN051248.D  
Acq: 16 Sep 2018 2:33

Tgt Ion: 43 Resp: 9157  
Ion Ratio Lower Upper  
43 100  
58 33.7 27.8 41.6

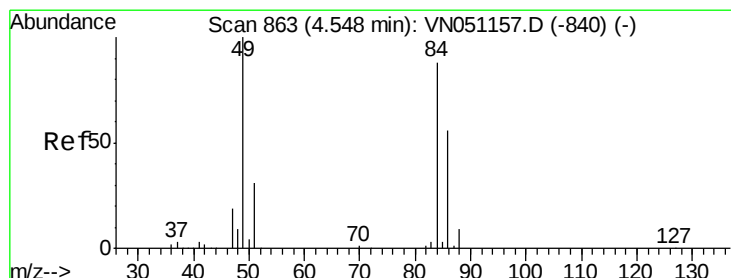
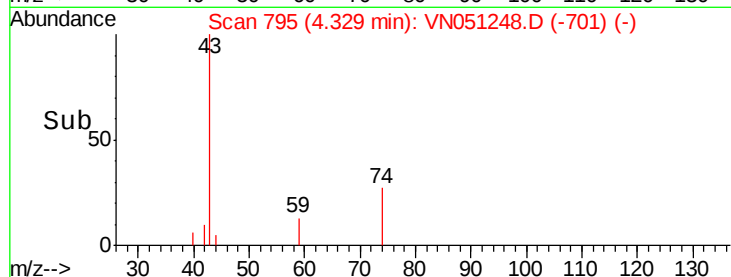
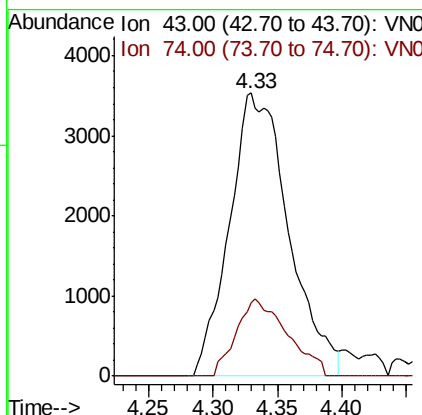
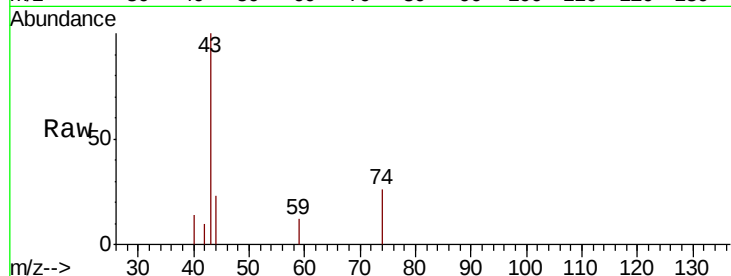




#18  
Methyl Acetate  
Concen: 3.09 ug/l  
RT: 4.33 min Scan# 795  
Delta R.T. 0.00 min  
Lab File: VN051248.D  
Acq: 16 Sep 2018 2:33

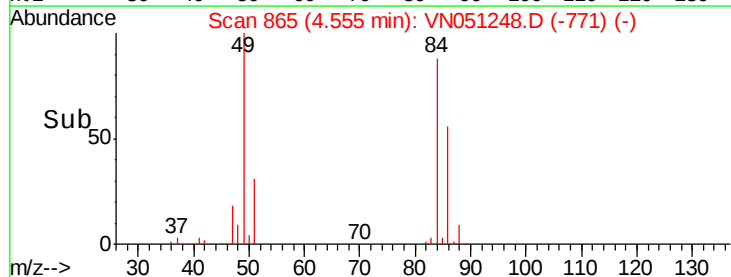
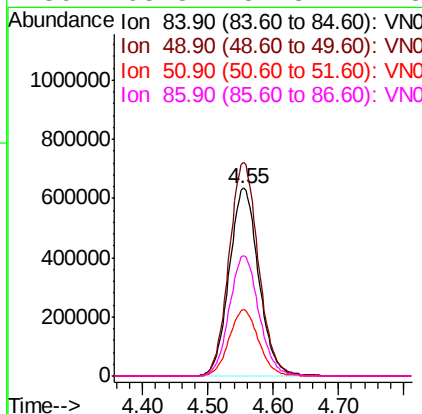
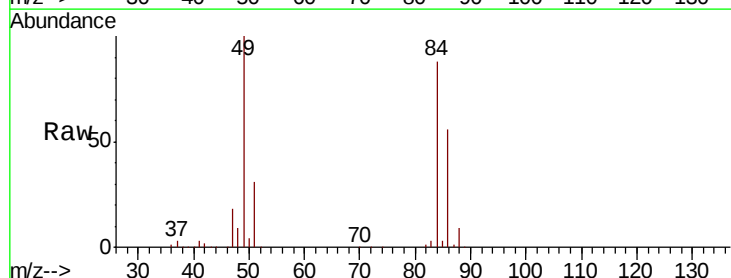
Instrument :  
MSVOA\_N  
ClientSampleId :

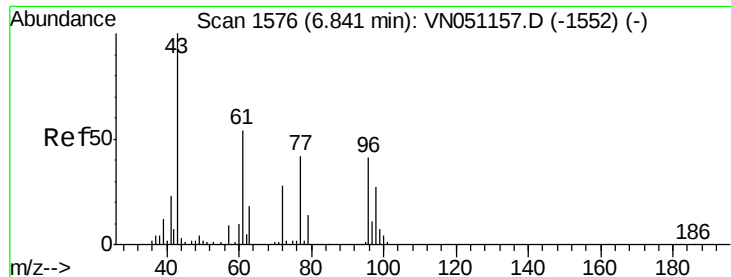
Tot Ion: 43 Resp: 11289  
Ion Ratio Lower Upper  
43 100  
74 23.6 20.7 31.1



#20  
Methylene Chloride  
Concen: 395.56 ug/l  
RT: 4.55 min Scan# 865  
Delta R.T. 0.00 min  
Lab File: VN051248.D  
Acq: 16 Sep 2018 2:33

Tgt Ion: 84 Resp: 1991994  
Ion Ratio Lower Upper  
84 100  
49 113.6 90.2 135.2  
51 35.3 28.4 42.6  
86 63.8 51.8 77.8





#25

2-Butanone

Concen: 0.64 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

Instrument :

MSVOA\_N

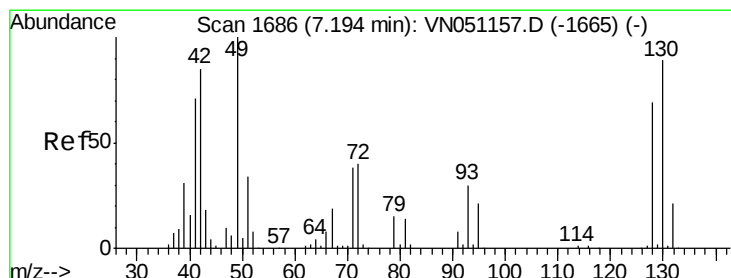
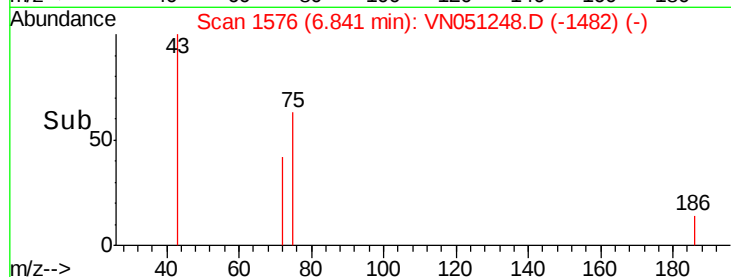
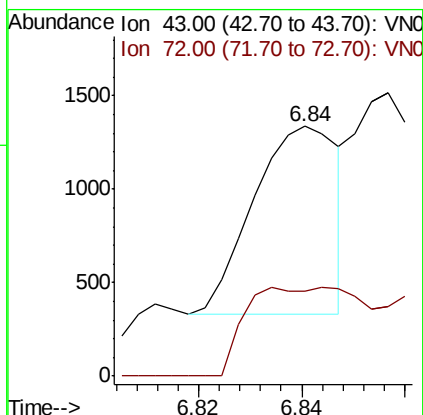
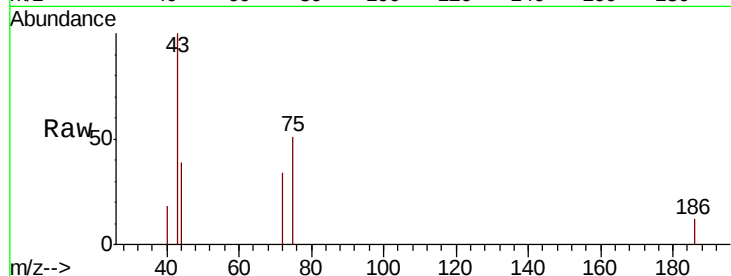
ClientSampleId :

Tot Ion: 43 Resp: 1145

Ion Ratio Lower Upper

43 100

72 45.2 23.0 34.6#



#28

Bromochloromethane

Concen: 0.33 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

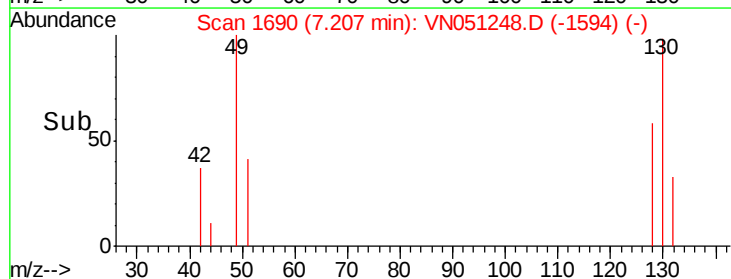
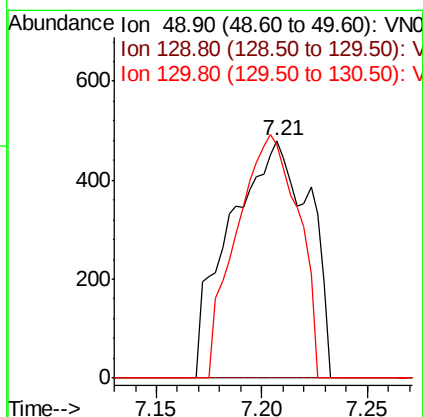
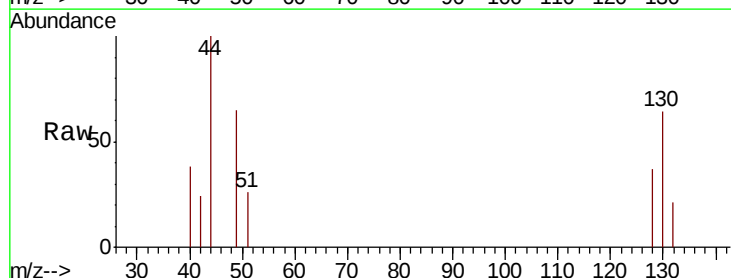
Tgt Ion: 49 Resp: 1250

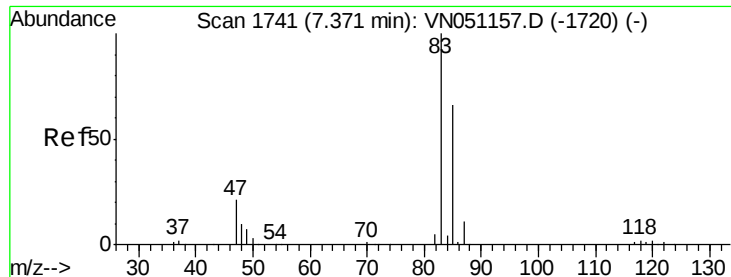
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.4

130 79.6 70.7 106.1

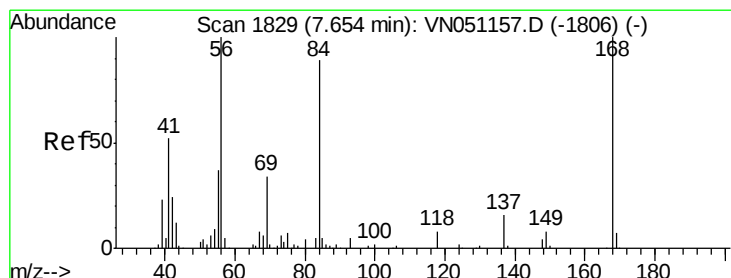
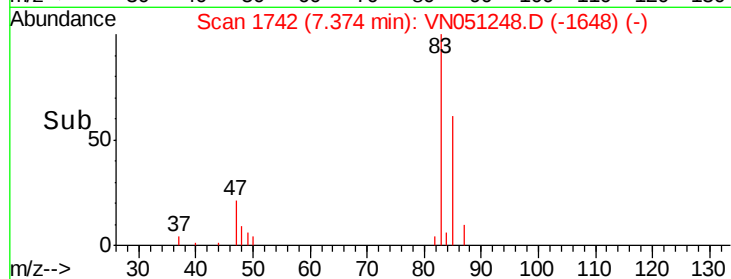
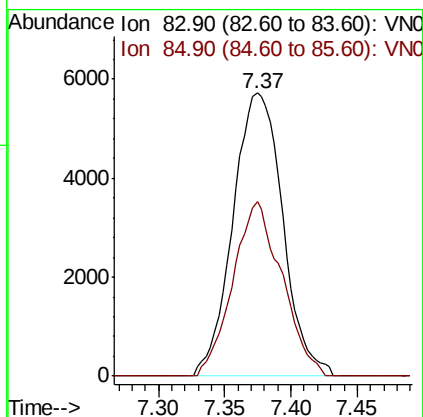
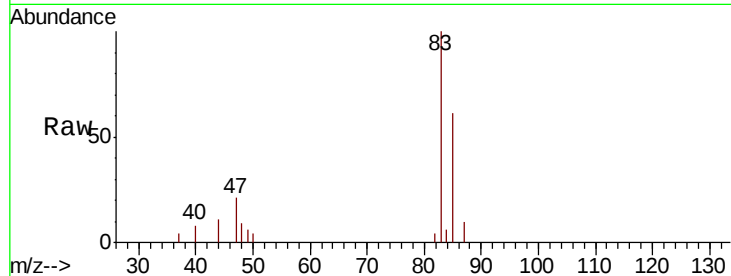




#30  
Chloroform  
Concen: 1.80 ug/l  
RT: 7.37 min Scan# 1742  
Delta R.T. 0.00 min  
Lab File: VN051248.D  
Acq: 16 Sep 2018 2:33

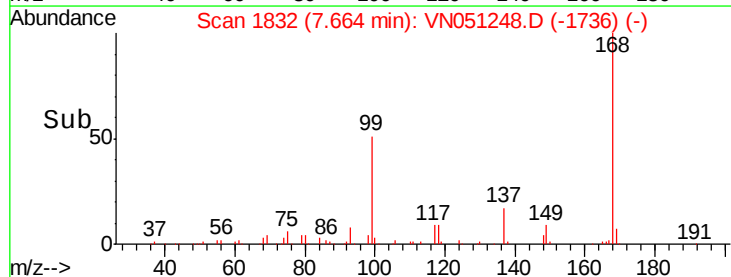
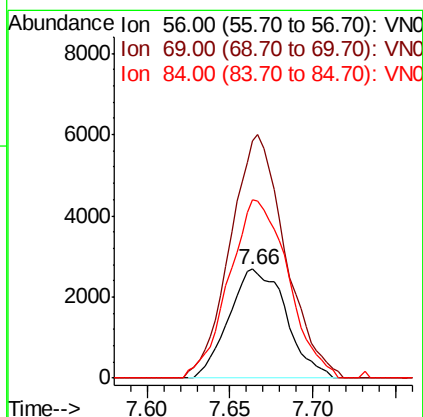
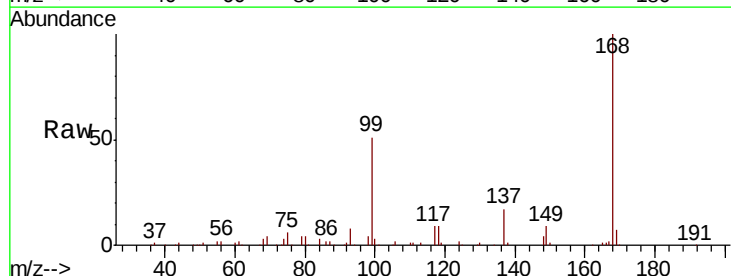
Instrument :  
MSVOA\_N  
ClientSampleId :

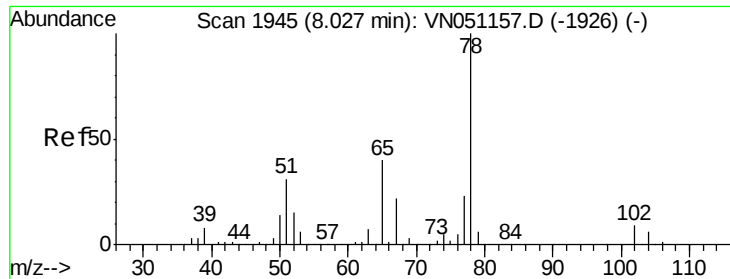
Tot Ion: 83 Resp: 14983  
Ion Ratio Lower Upper  
83 100  
85 61.5 52.6 79.0



#31  
Cyclohexane  
Concen: 0.64 ug/l  
RT: 7.66 min Scan# 1832  
Delta R.T. 0.01 min  
Lab File: VN051248.D  
Acq: 16 Sep 2018 2:33

Tgt Ion: 56 Resp: 6436  
Ion Ratio Lower Upper  
56 100  
69 211.4 26.3 39.5#  
84 164.3 69.4 104.0#

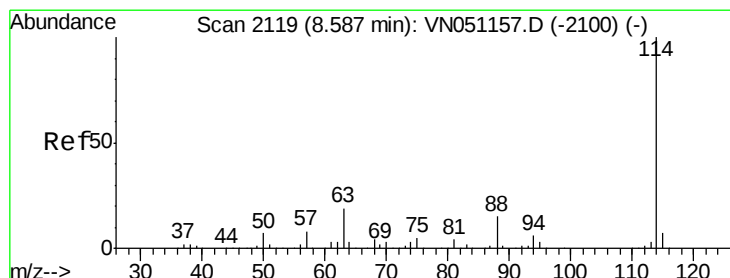
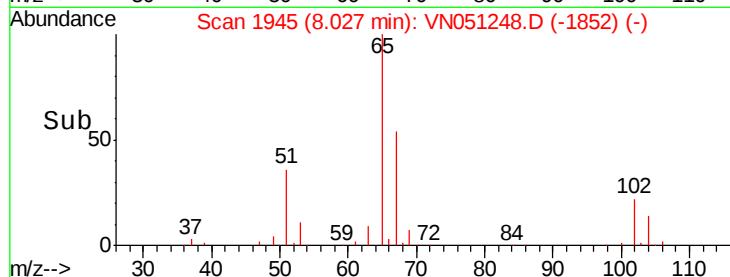
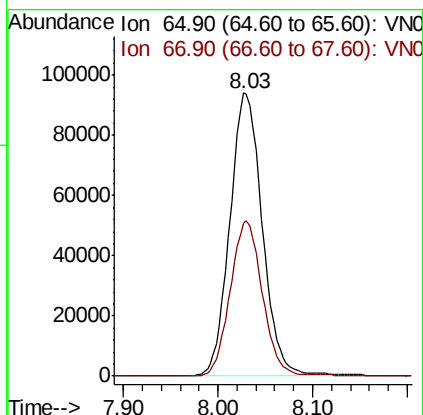
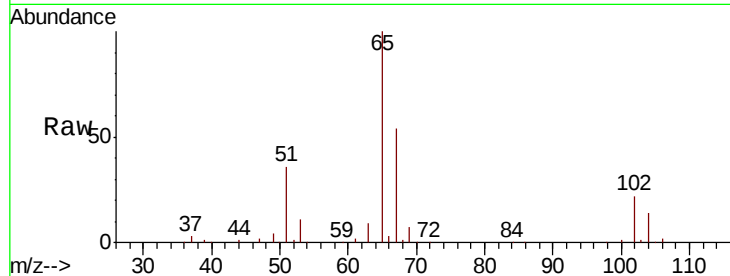




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.25 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. -0.00 min  
 Lab File: VN051248.D  
 Acq: 16 Sep 2018 2:33

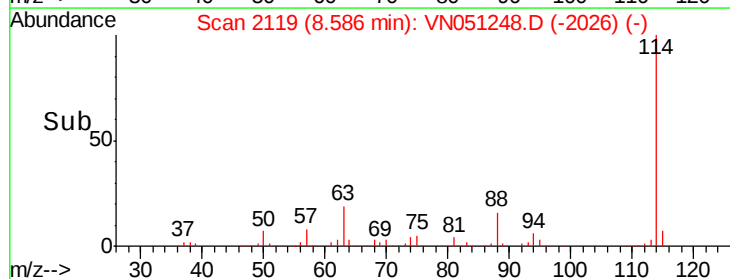
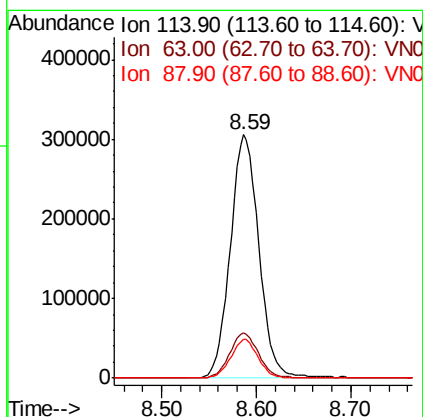
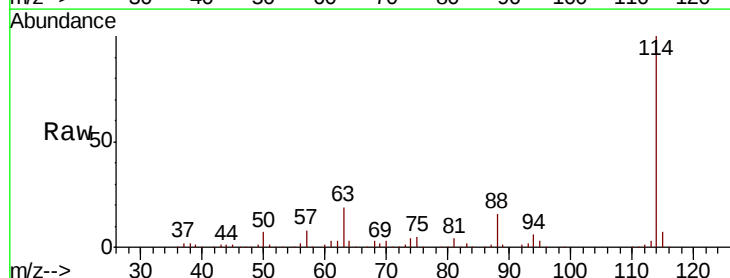
Instrument :  
 MSVOA\_N  
 ClientSampleId :

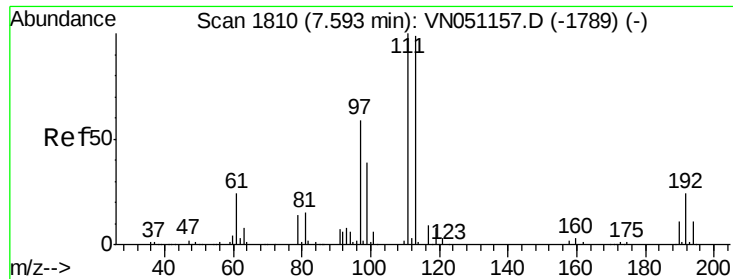
Tot Ion: 65 Resp: 224538  
 Ion Ratio Lower Upper  
 65 100  
 67 54.1 0.0 112.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN051248.D  
 Acq: 16 Sep 2018 2:33

Tgt Ion: 114 Resp: 642439  
 Ion Ratio Lower Upper  
 114 100  
 63 18.6 0.0 37.8  
 88 16.1 0.0 30.8

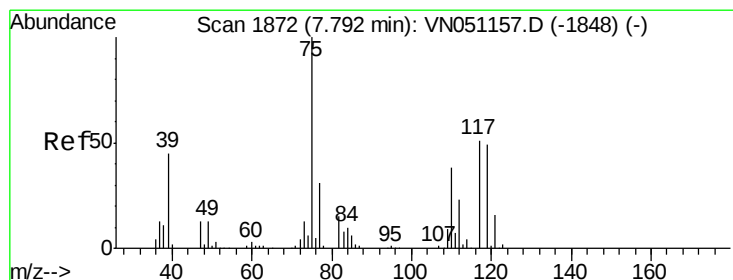
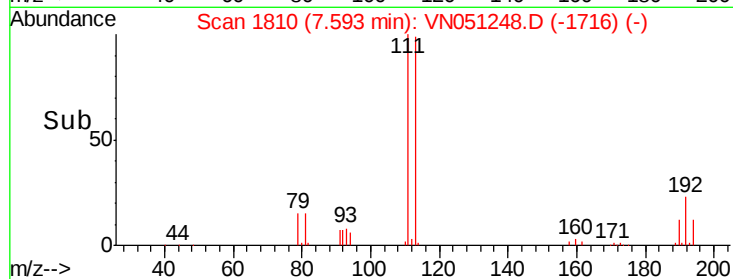
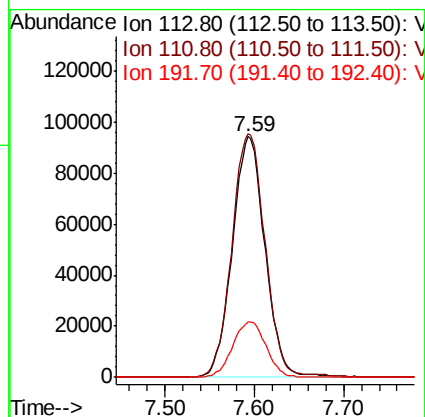
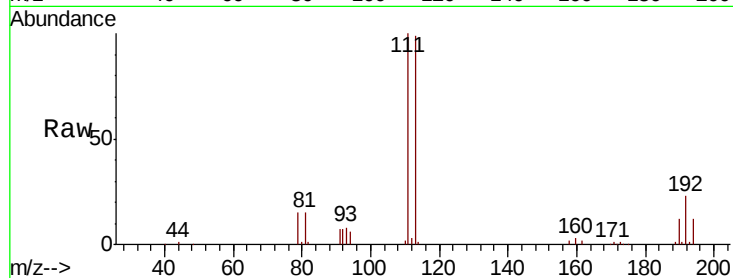




#35  
 Dibromofluoromethane  
 Concen: 49.40 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN051248.D  
 Acq: 16 Sep 2018 2:33

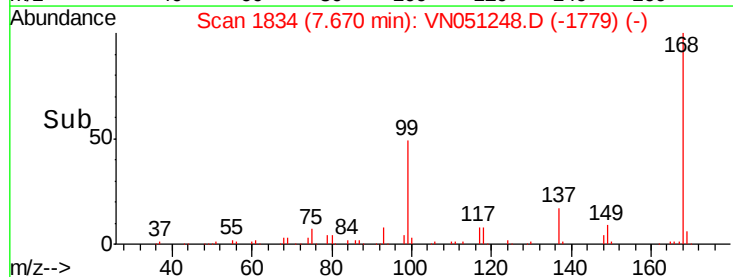
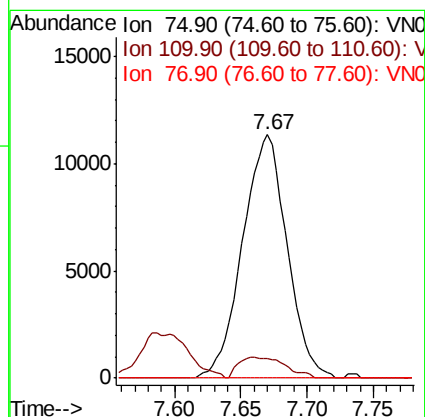
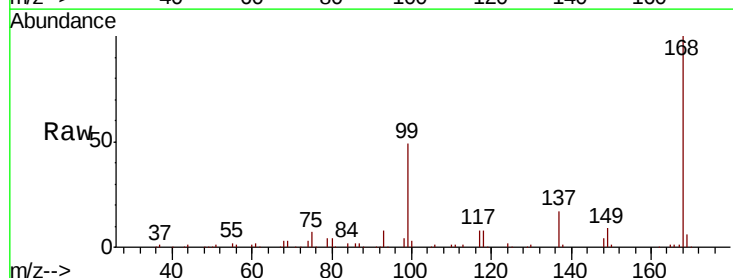
Instrument :  
 MSVOA\_N  
 ClientSampleId :

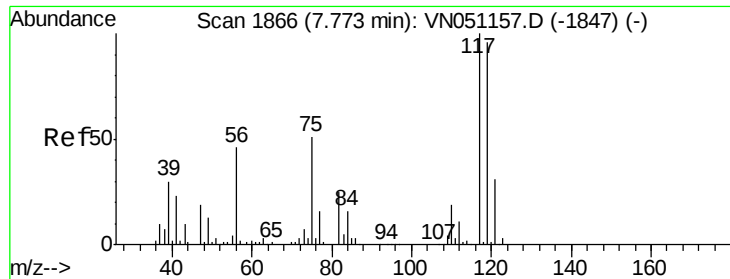
Tot Ion:113 Resp: 238493  
 Ion Ratio Lower Upper  
 113 100  
 111 102.8 83.0 124.6  
 192 23.5 18.7 28.1



#36  
 1,1-Dichloropropene  
 Concen: 3.76 ug/l  
 RT: 7.67 min Scan# 1834  
 Delta R.T. -0.12 min  
 Lab File: VN051248.D  
 Acq: 16 Sep 2018 2:33

Tgt Ion: 75 Resp: 26500  
 Ion Ratio Lower Upper  
 75 100  
 110 9.1 18.6 55.8#  
 77 0.0 25.2 37.8#





#38

Carbon Tetrachloride

Concen: 4.93 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

Instrument :

MSVOA\_N

ClientSampleId :

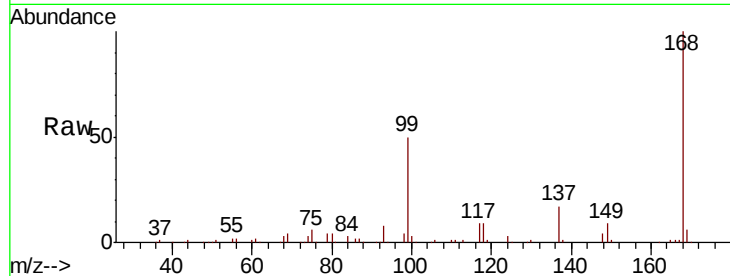
Tot Ion:117 Resp: 34205

Ion Ratio Lower Upper

117 100

119 6.2 76.8 115.2#

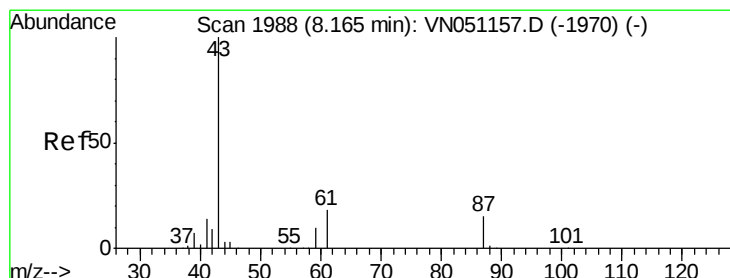
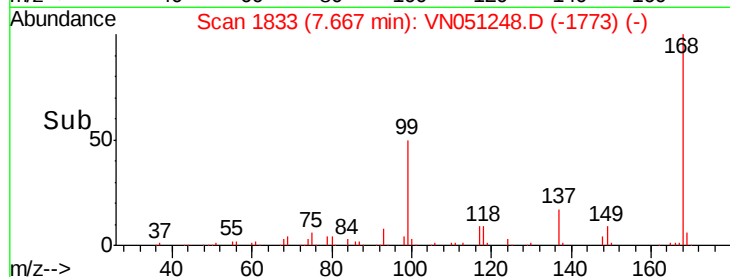
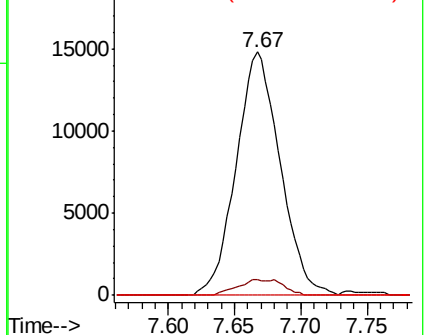
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 29.58 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

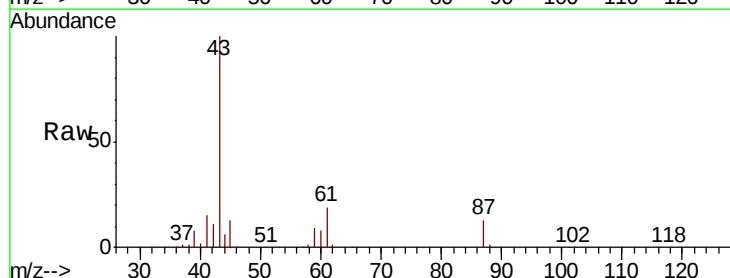
Tgt Ion: 43 Resp: 213210

Ion Ratio Lower Upper

43 100

61 17.0 25.0 37.6#

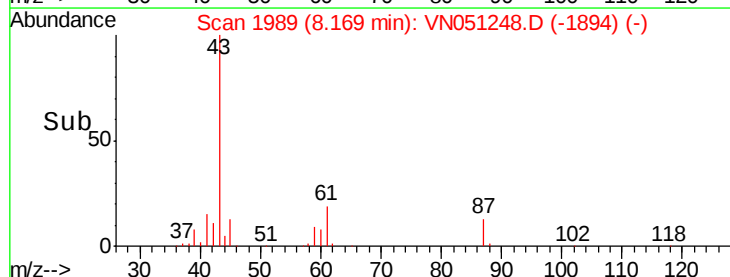
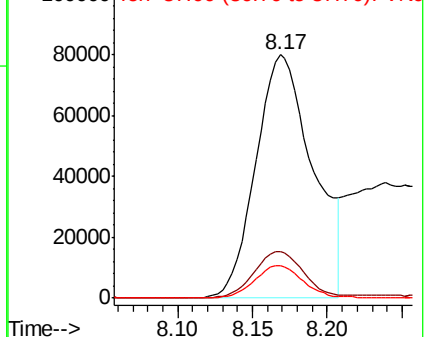
87 11.3 11.8 17.8#

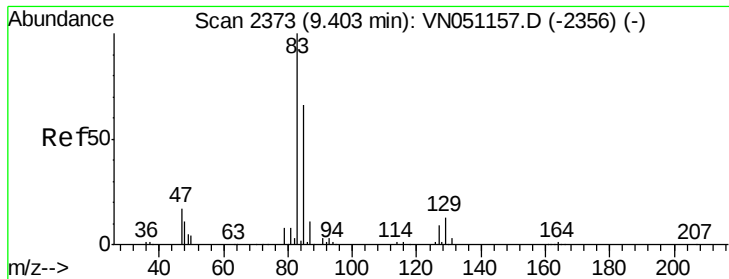


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#47

Bromodichloromethane

Concen: 0.47 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

Instrument :  
MSVOA\_N  
ClientSampleId :

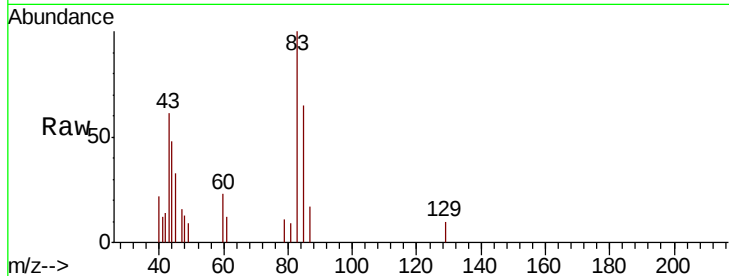
Tot Ion: 83 Resp: 3195

Ion Ratio Lower Upper

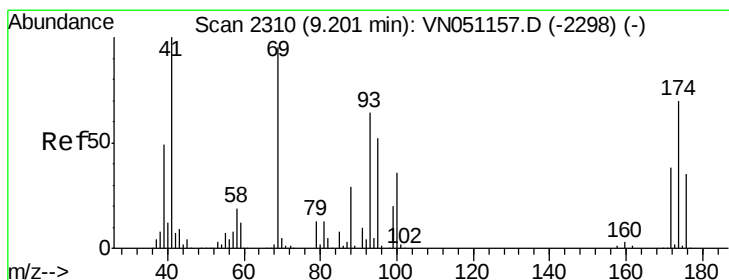
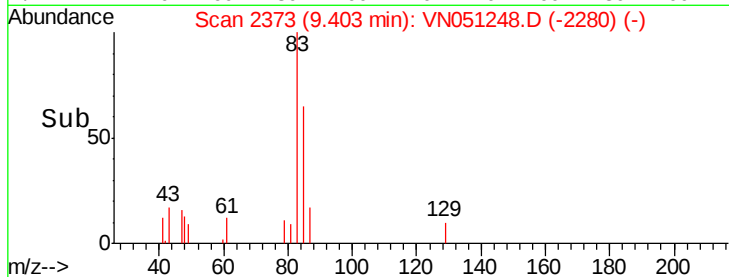
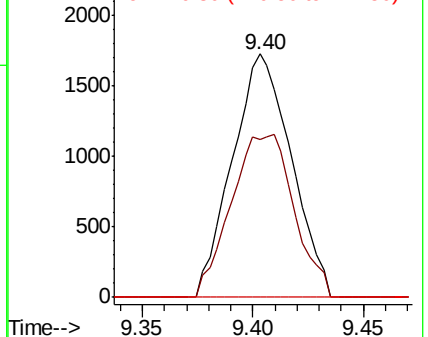
83 100

85 64.9 52.3 78.5

127 0.0 7.5 11.3#



Abundance Ion 82.90 (82.60 to 83.60): VNO  
Ion 84.90 (84.60 to 85.60): VNO  
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 1.33 ug/l

RT: 9.17 min Scan# 2302

Delta R.T. -0.03 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

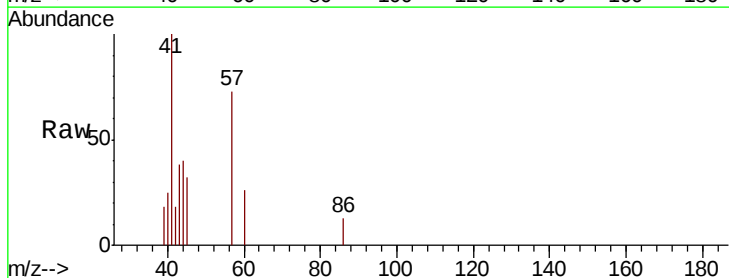
Tgt Ion: 41 Resp: 4657

Ion Ratio Lower Upper

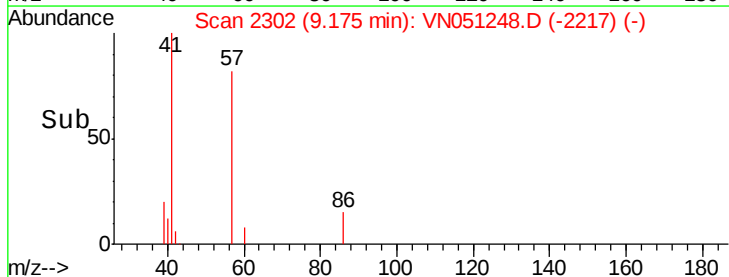
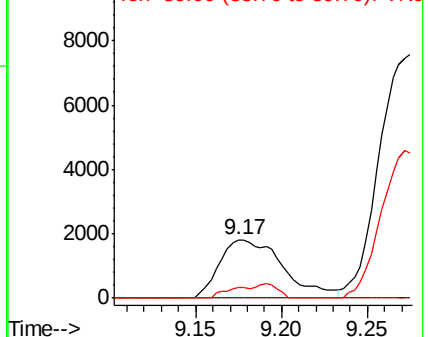
41 100

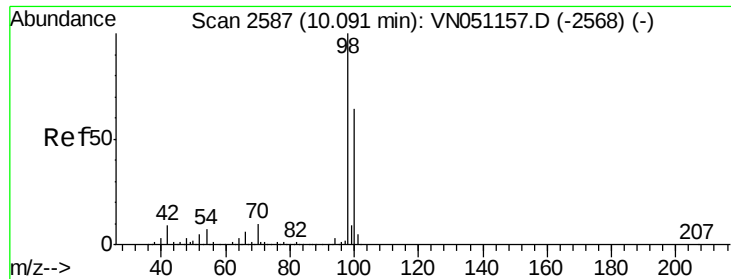
69 0.0 77.7 116.5#

39 16.2 41.6 62.4#



Abundance Ion 41.00 (40.70 to 41.70): VNO  
Ion 69.00 (68.70 to 69.70): VNO  
Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 45.29 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

Instrument :

MSVOA\_N

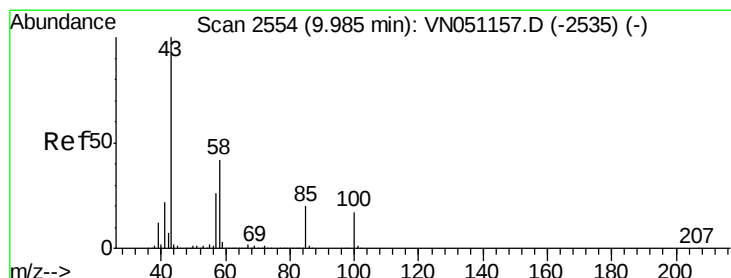
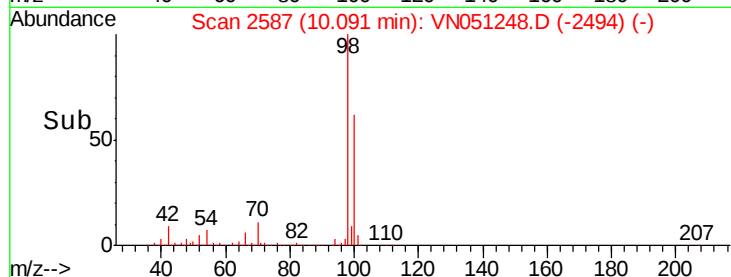
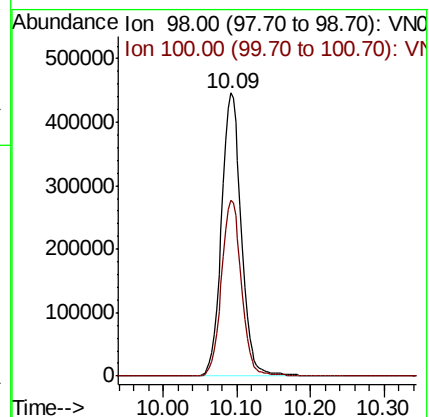
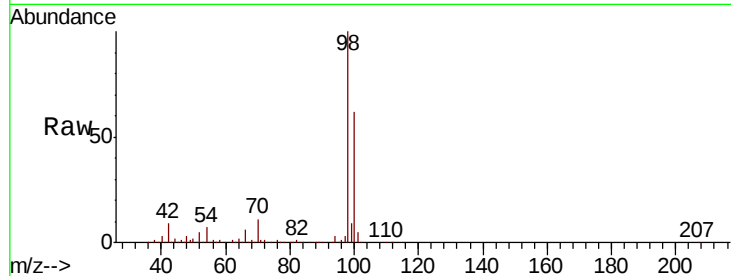
ClientSampled :

Tot Ion: 98 Resp: 829597

Ion Ratio Lower Upper

98 100

100 62.9 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.32 ug/l

RT: 10.00 min Scan# 2558

Delta R.T. 0.01 min

Lab File: VN051248.D

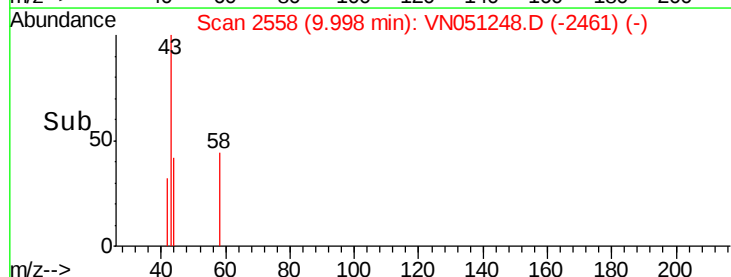
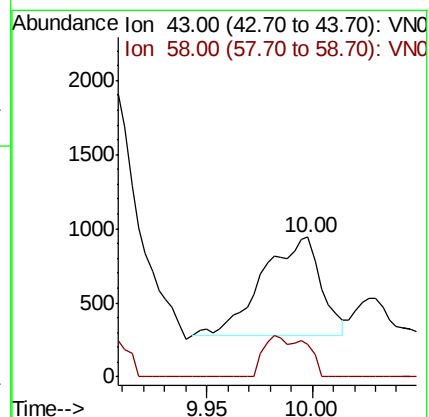
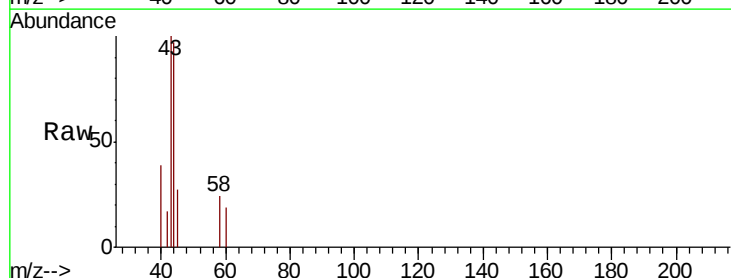
Acq: 16 Sep 2018 2:33

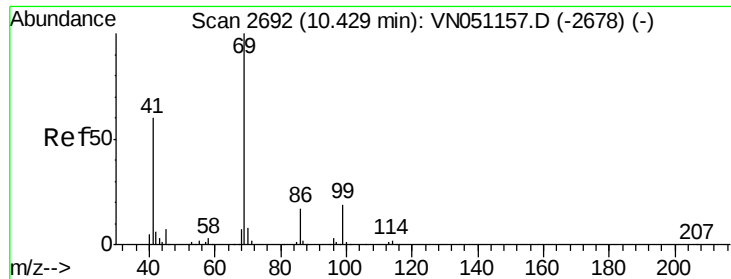
Tgt Ion: 43 Resp: 1295

Ion Ratio Lower Upper

43 100

58 29.8 33.5 50.3#





#56

Ethyl methacrylate

Concen: 2.49 ug/l

RT: 10.27 min Scan# 2642

Delta R.T. -0.16 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

Instrument :

MSVOA\_N

ClientSampled :

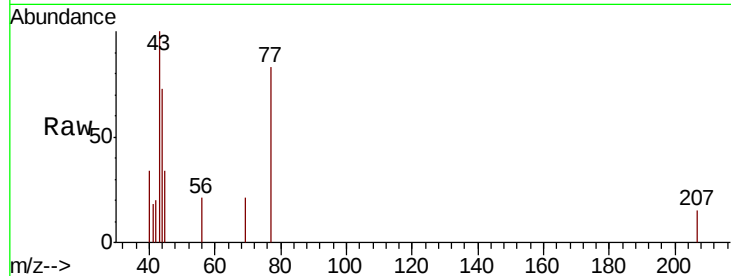
Tot Ion: 69 Resp: 209

Ion Ratio Lower Upper

69 100

41 0.0 47.8 71.8#

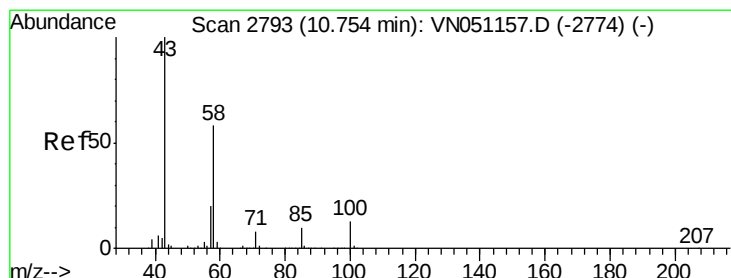
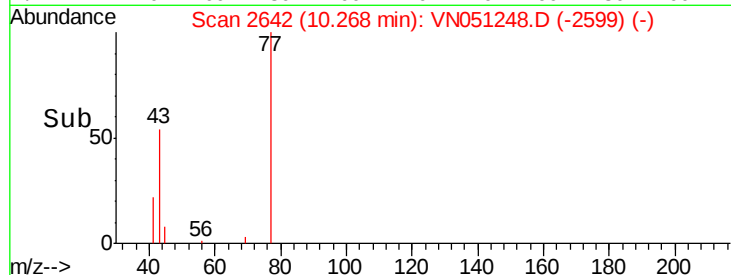
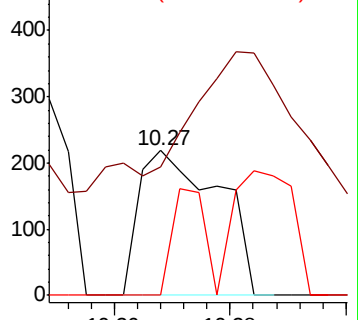
39 29.2 23.0 34.4



Abundance Ion 69.00 (68.70 to 69.70): VN051157.D (-2678) (-)

Ion 41.00 (40.70 to 41.70): VN051157.D (-2678) (-)

Ion 39.00 (38.70 to 39.70): VN051157.D (-2678) (-)



#59

2-Hexanone

Concen: 4.57 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051248.D

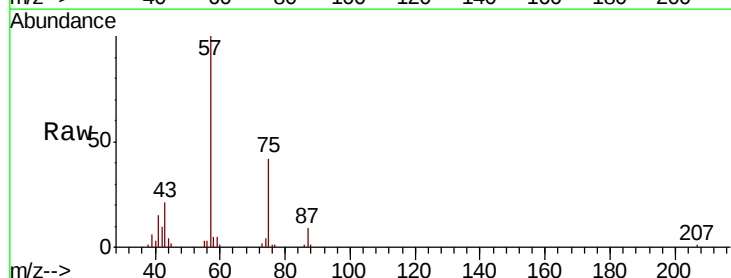
Acq: 16 Sep 2018 2:33

Tgt Ion: 43 Resp: 12355

Ion Ratio Lower Upper

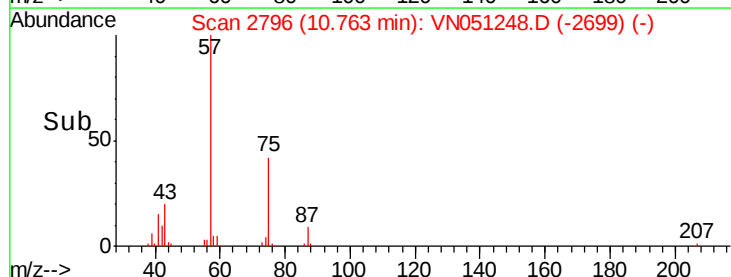
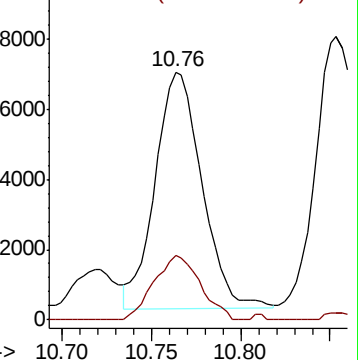
43 100

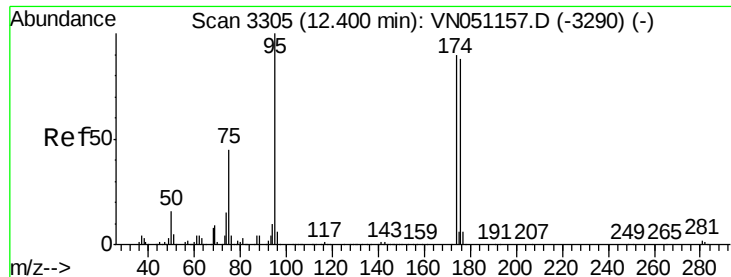
58 26.9 29.3 88.0#



Abundance Ion 43.00 (42.70 to 43.70): VN051157.D (-2774) (-)

Ion 58.00 (57.70 to 58.70): VN051157.D (-2774) (-)





#62

4-Bromofluorobenzene

Concen: 36.79 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

Instrument :

MSVOA\_N

ClientSampleId :

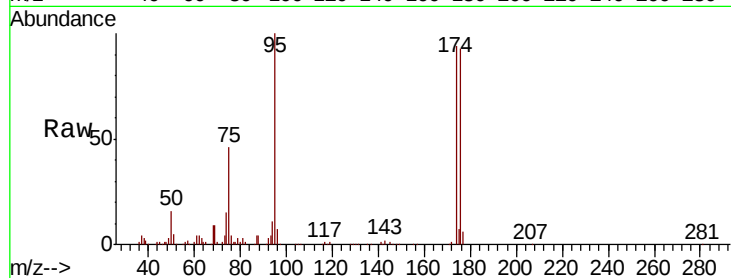
Tot Ion: 95 Resp: 222924

Ion Ratio Lower Upper

95 100

174 94.1 0.0 184.8

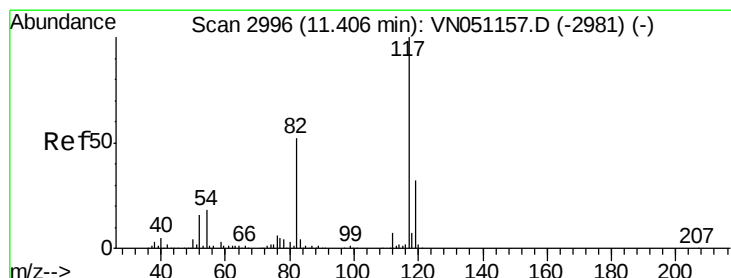
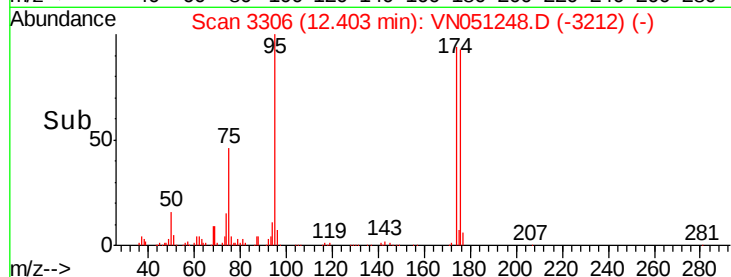
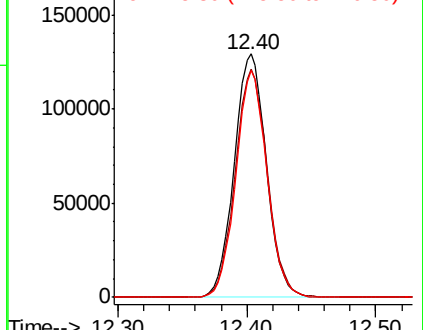
176 90.3 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VN051157.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051157.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051157.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

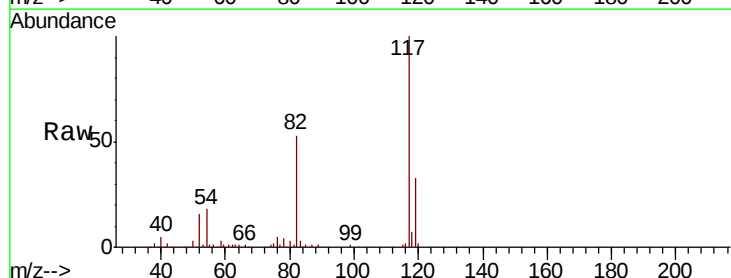
Tgt Ion: 117 Resp: 532836

Ion Ratio Lower Upper

117 100

82 52.9 41.8 62.6

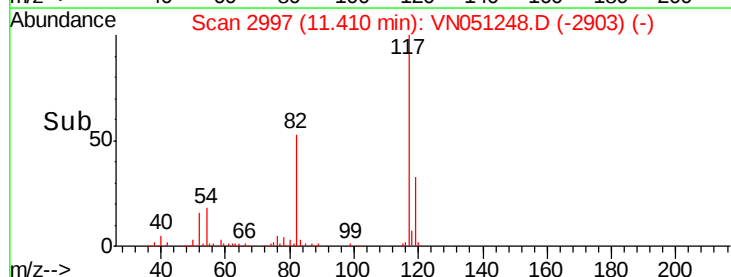
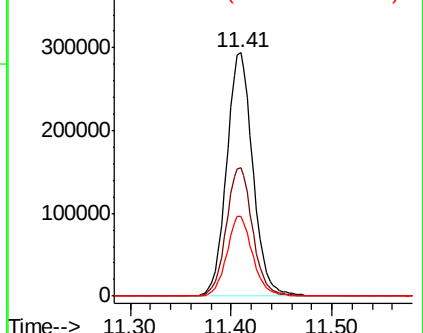
119 32.7 26.2 39.2

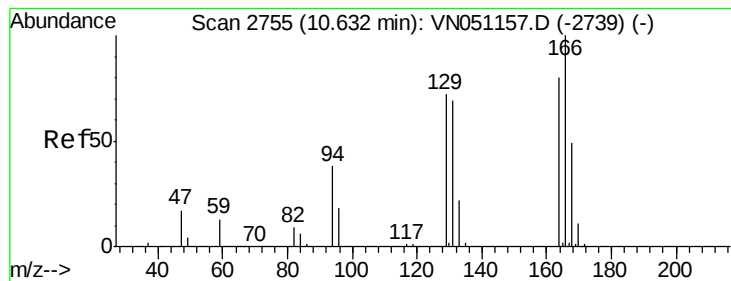


Abundance Ion 116.90 (116.60 to 117.60): VN051157.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051157.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051157.D (-2981) (-)





#64

Tetrachloroethene

Concen: 0.87 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

Instrument :

MSVOA\_N

ClientSampled :

Tot Ion:164 Resp: 4219

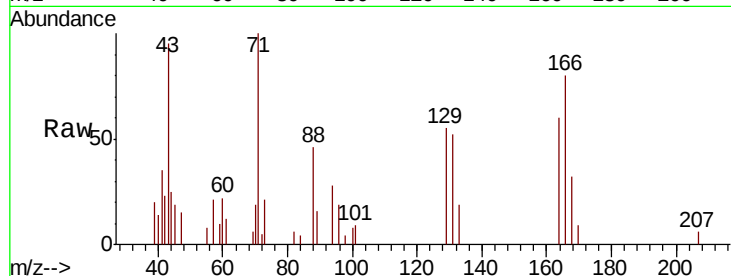
Ion Ratio Lower Upper

164 100

166 133.3 101.3 151.9

129 92.2 72.2 108.2

131 86.3 70.2 105.2



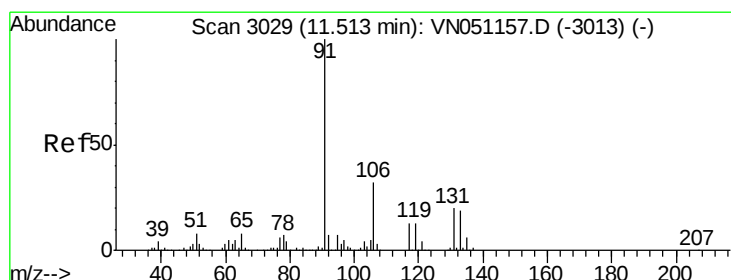
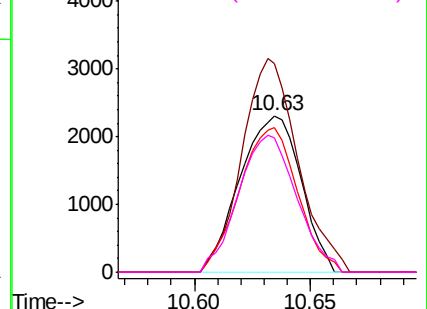
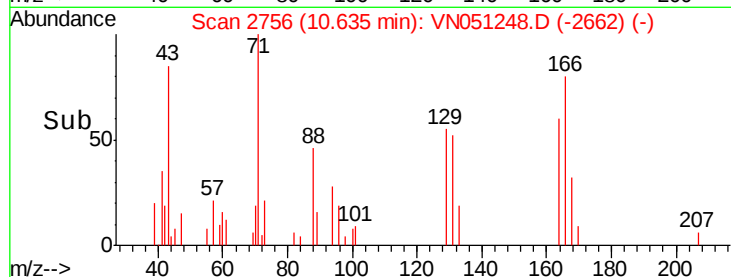
Abundance

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



#67

Ethyl Benzene

Concen: 0.31 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051248.D

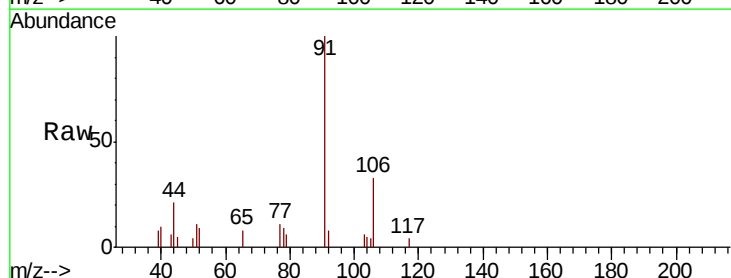
Acq: 16 Sep 2018 2:33

Tgt Ion: 91 Resp: 6755

Ion Ratio Lower Upper

91 100

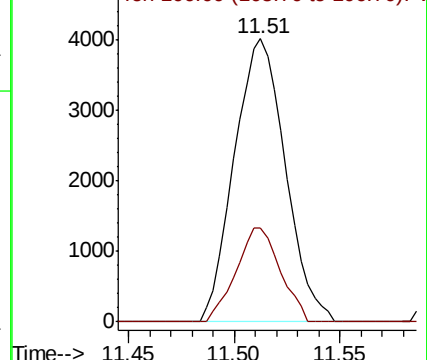
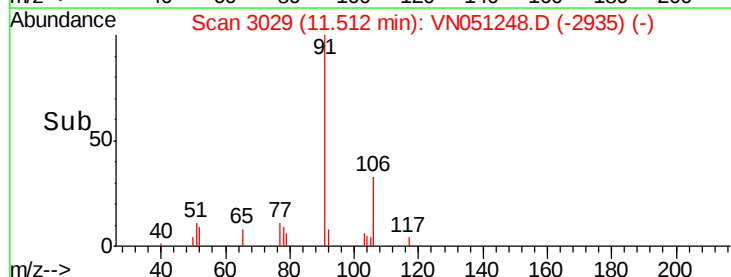
106 33.4 25.4 38.2

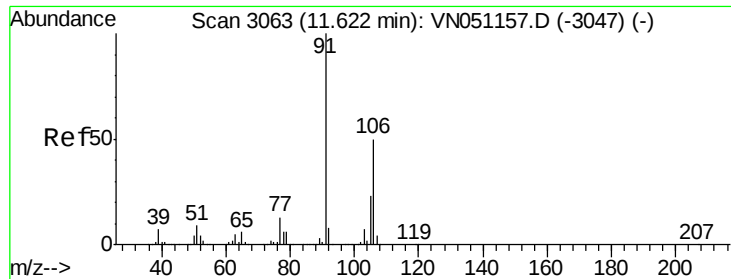


Abundance

Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V

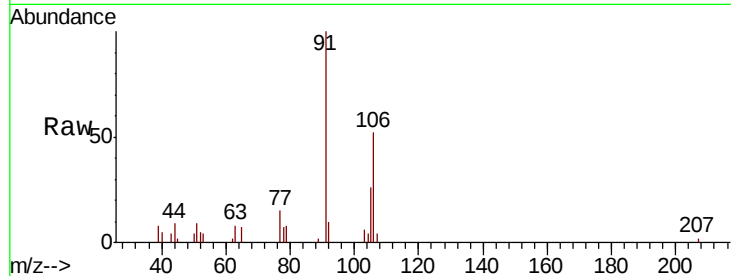




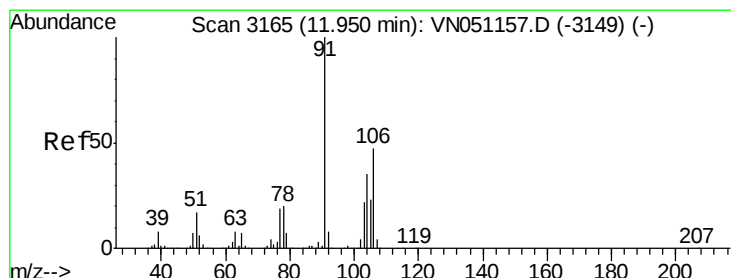
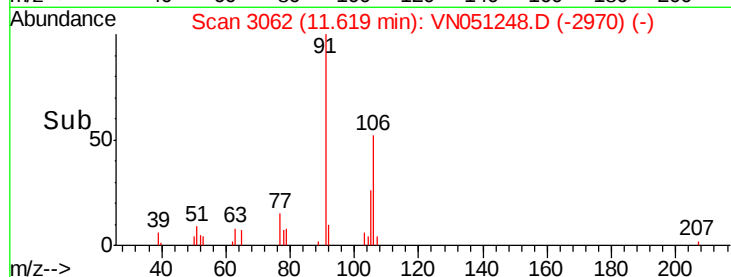
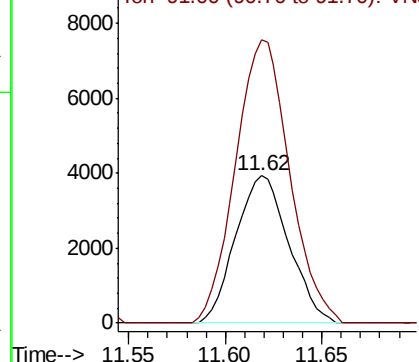
#68  
m/p-Xylenes  
Concen: 0.90 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN051248.D  
Acq: 16 Sep 2018 2:33

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:106 Resp: 7524  
Ion Ratio Lower Upper  
106 100  
91 195.4 159.8 239.6

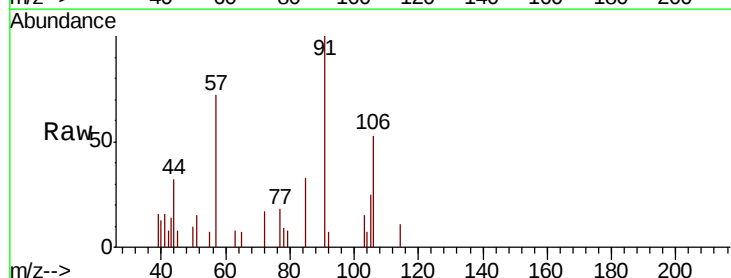


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN

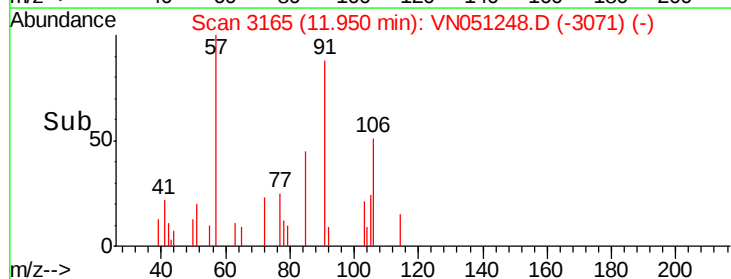
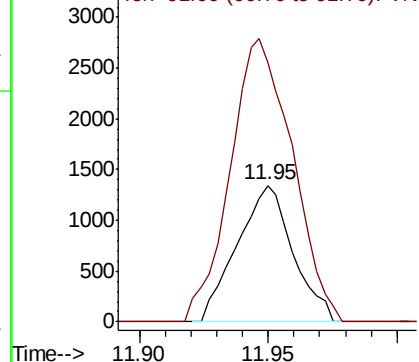


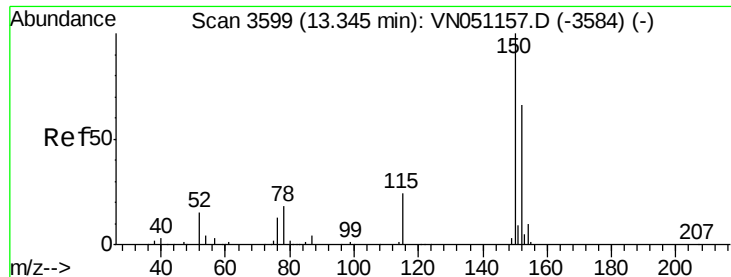
#69  
o-Xylene  
Concen: 0.25 ug/l  
RT: 11.95 min Scan# 3165  
Delta R.T. 0.00 min  
Lab File: VN051248.D  
Acq: 16 Sep 2018 2:33

Tgt Ion:106 Resp: 2032  
Ion Ratio Lower Upper  
106 100  
91 230.6 105.1 315.1



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

Instrument :

MSVOA\_N

ClientSampleId :

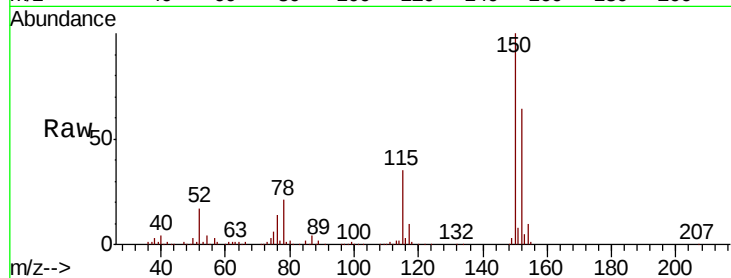
Tot Ion:152 Resp: 166708

Ion Ratio Lower Upper

152 100

115 55.3 28.2 84.7

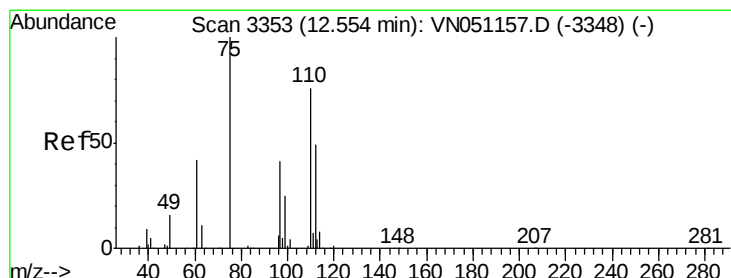
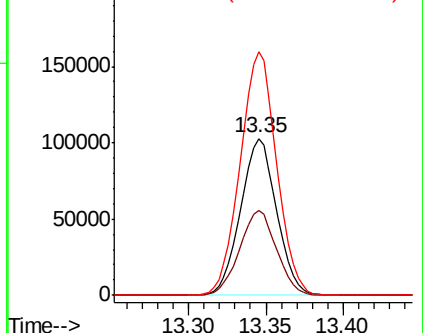
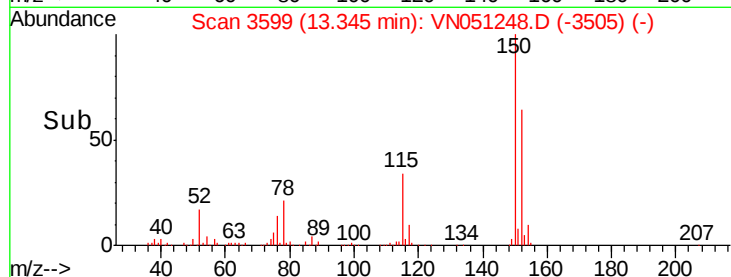
150 157.0 0.0 349.0



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



#76

1,2,3-Trichloropropane

Concen: 39.20 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051248.D

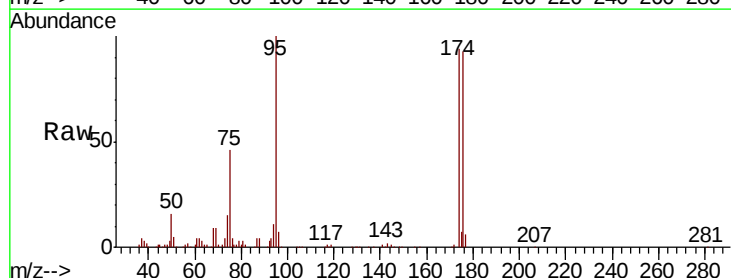
Acq: 16 Sep 2018 2:33

Tgt Ion: 75 Resp: 102146

Ion Ratio Lower Upper

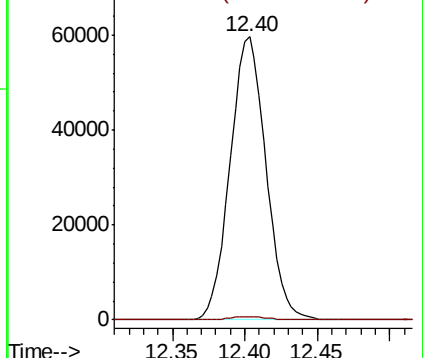
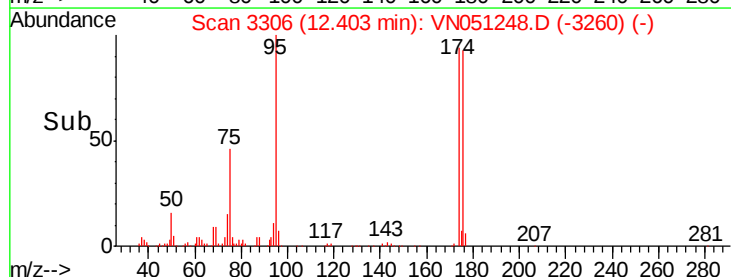
75 100

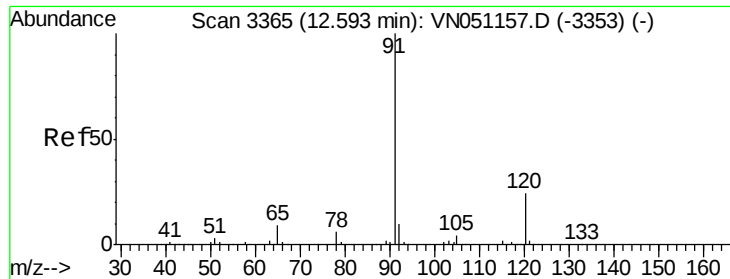
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#78

n-propylbenzene

Concen: 0.28 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. 0.01 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

Instrument :

MSVOA\_N

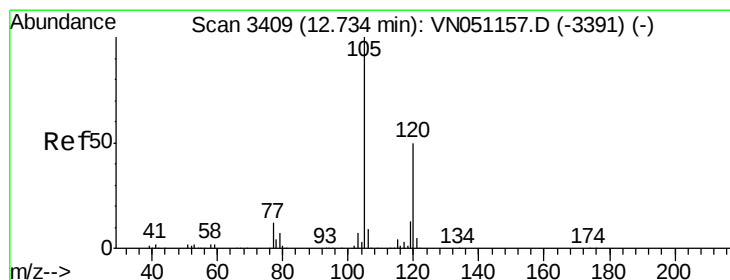
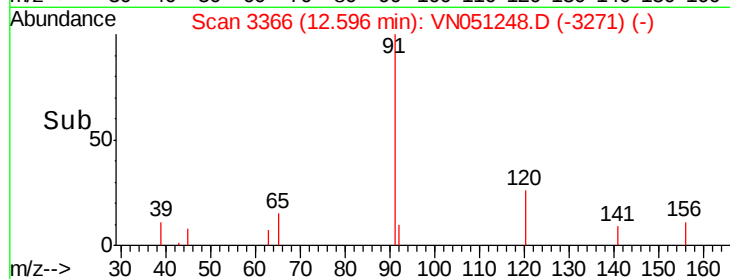
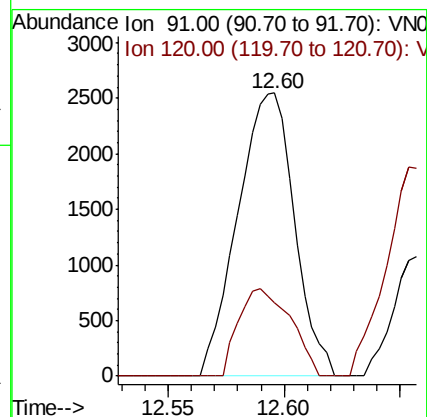
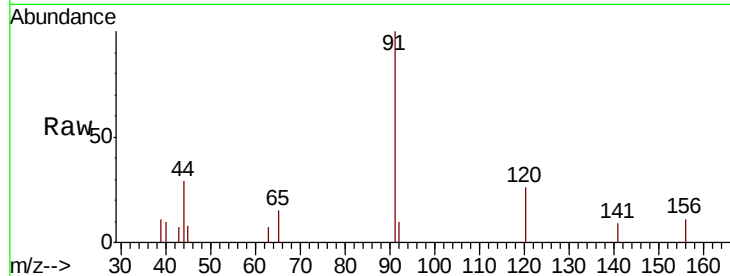
ClientSampleId :

Tot Ion: 91 Resp: 4321

Ion Ratio Lower Upper

91 100

120 28.3 12.0 36.0



#80

1,3,5-Trimethylbenzene

Concen: 0.59 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051248.D

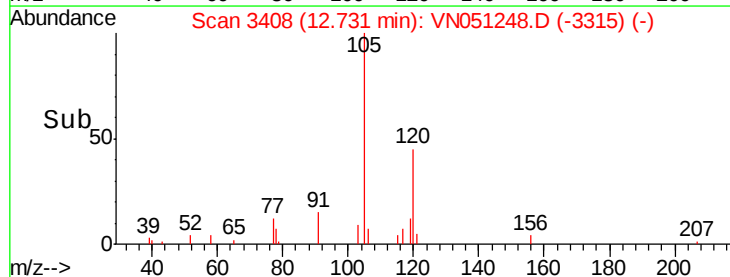
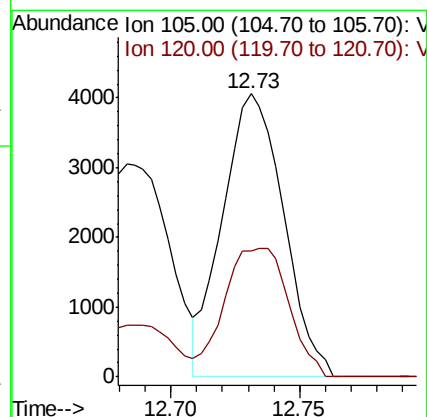
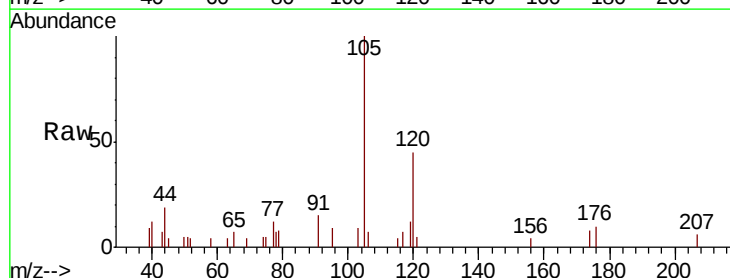
Acq: 16 Sep 2018 2:33

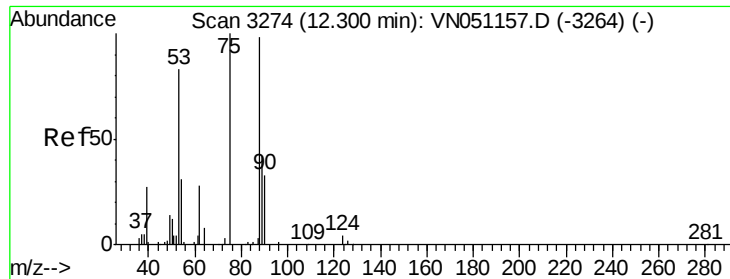
Tgt Ion:105 Resp: 6692

Ion Ratio Lower Upper

105 100

120 47.9 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 116.37 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

Instrument :

MSVOA\_N

ClientSampled :

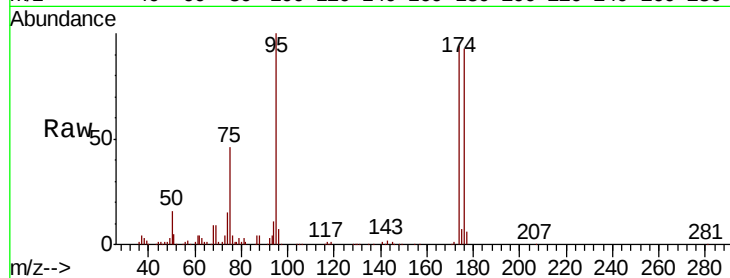
Tot Ion: 75 Resp: 102146

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

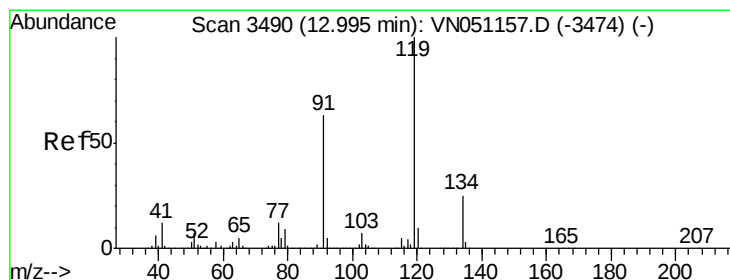
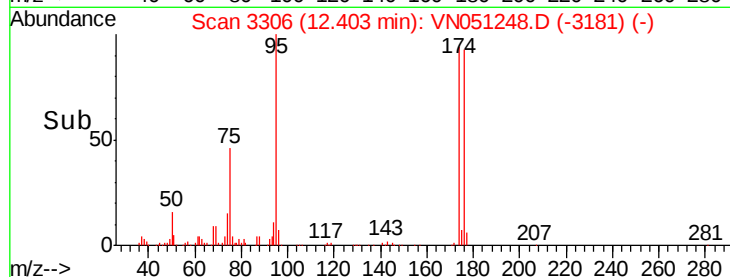
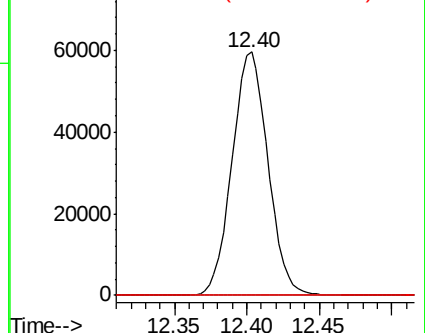
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051157.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN051157.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN051157.D (-3264) (-)



#83

tert-Butylbenzene

Concen: 0.28 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.05 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

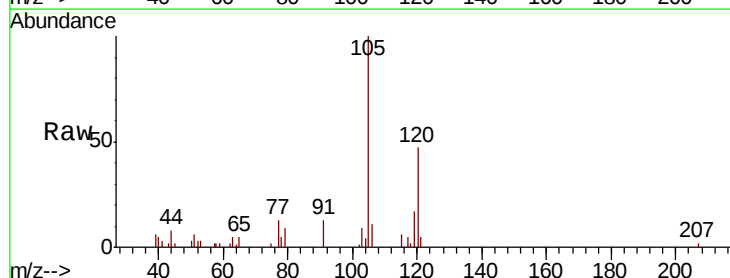
Tgt Ion: 119 Resp: 2766

Ion Ratio Lower Upper

119 100

91 80.7 30.8 92.3

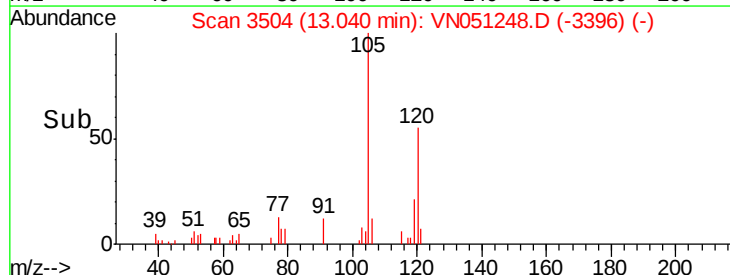
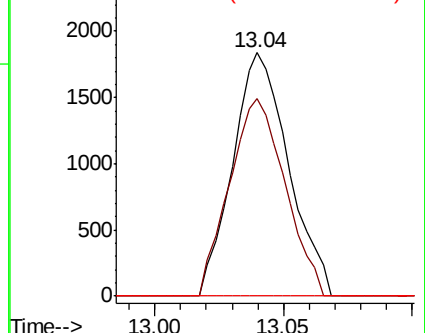
134 0.0 13.2 39.6#

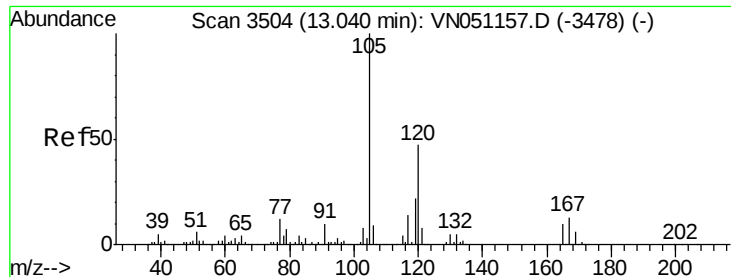


Abundance Ion 119.00 (118.70 to 119.70): VN051157.D (-3474) (-)

Ion 91.00 (90.70 to 91.70): VN051157.D (-3474) (-)

Ion 134.00 (133.70 to 134.70): VN051157.D (-3474) (-)





#84

1,2,4-Trimethylbenzene

Concen: 1.70 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

Instrument :

MSVOA\_N

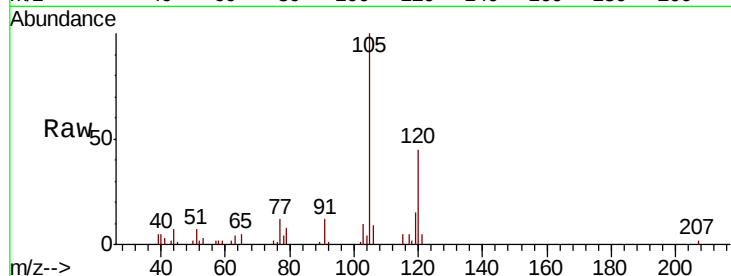
ClientSampled :

Tot Ion:105 Resp: 18910

Ion Ratio Lower Upper

105 100

120 44.8 23.3 69.8



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

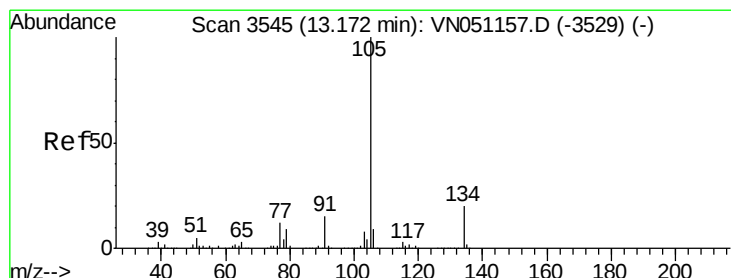
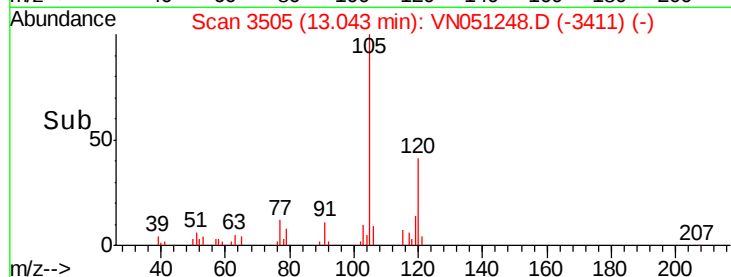
0

13.04

13.05

13.10

Time-->



#85

sec-Butylbenzene

Concen: 1.48 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. -0.13 min

Lab File: VN051248.D

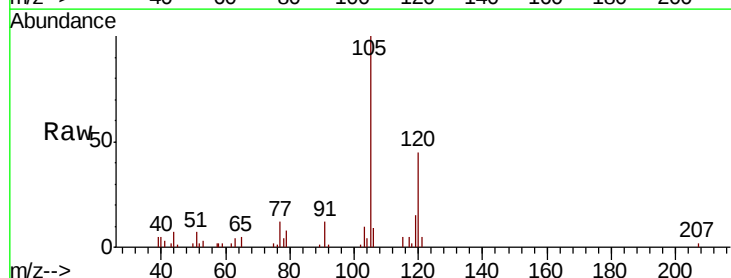
Acq: 16 Sep 2018 2:33

Tgt Ion:105 Resp: 18910

Ion Ratio Lower Upper

105 100

134 0.0 10.4 31.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12000

10000

8000

6000

4000

2000

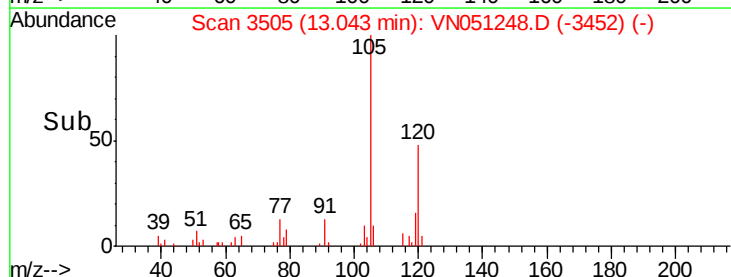
0

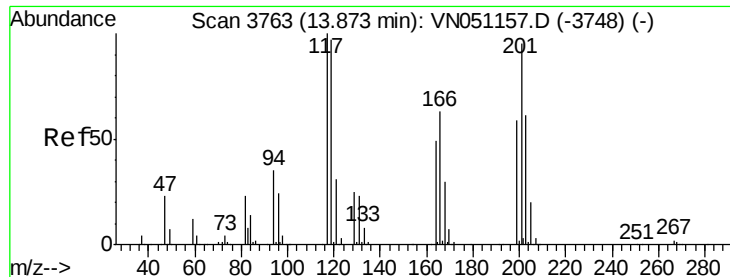
13.04

13.05

13.10

Time-->





#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3769

Delta R.T. 0.02 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

Instrument :

MSVOA\_N

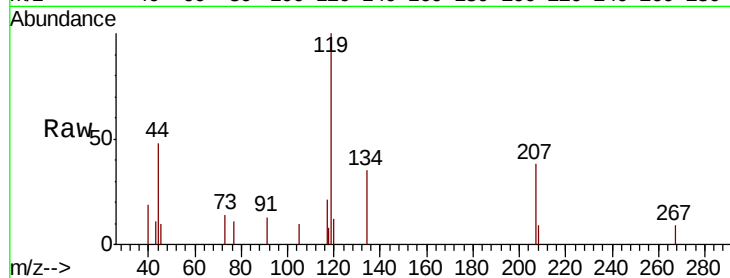
ClientSampleId :

Tot Ion:117 Resp: 430

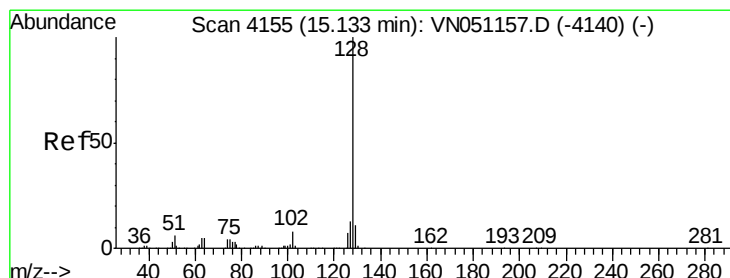
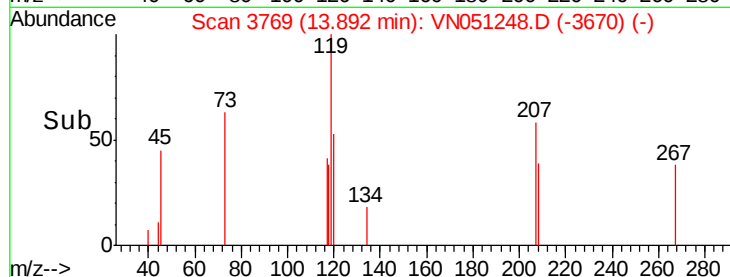
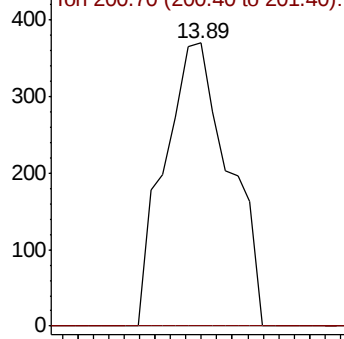
Ion Ratio Lower Upper

117 100

201 0.0 47.3 142.0#



Abundance Ion 116.80 (116.50 to 117.50): V



#95

Naphthalene

Concen: 7.09 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051248.D

Acq: 16 Sep 2018 2:33

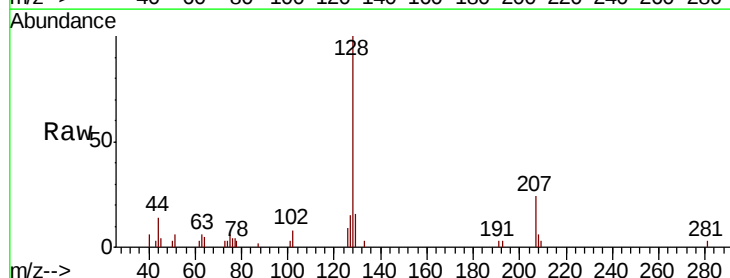
Tgt Ion:128 Resp: 12301

Ion Ratio Lower Upper

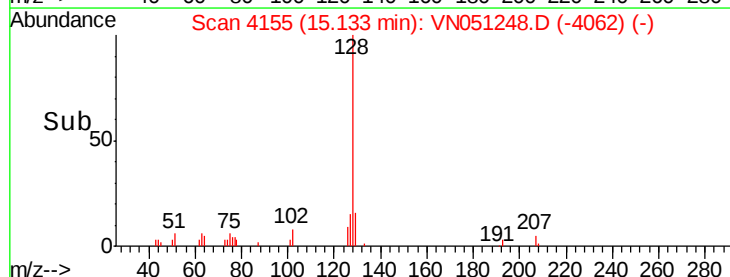
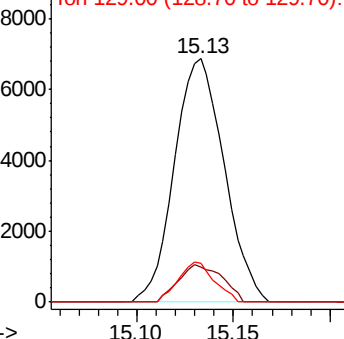
128 100

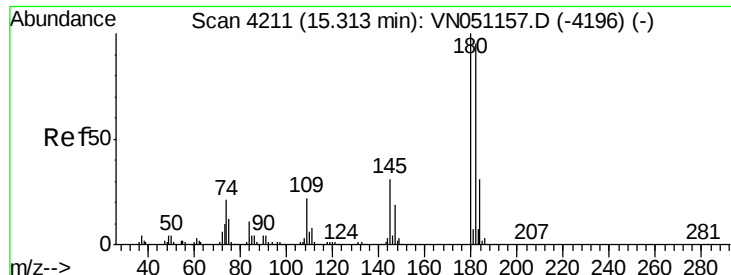
127 13.5 10.6 15.8

129 11.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

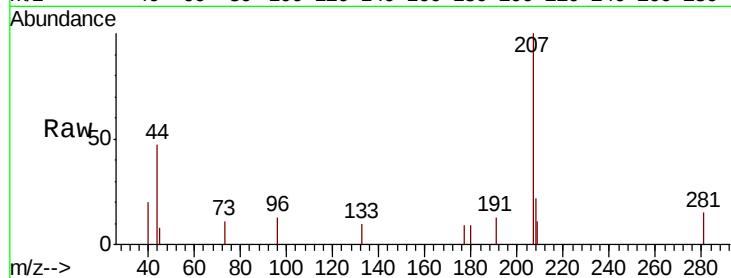




#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.97 ug/l  
 RT: 15.32 min Scan# 4214  
 Delta R.T. 0.01 min  
 Lab File: VN051248.D  
 Acq: 16 Sep 2018 2:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 0.0   | 47.8  | 143.3# |
| 145     | 0.0   | 14.6  | 43.8#  |



Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.90 (144.60 to 145.60): V

