

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120718\  
 Data File : VN052724.D  
 Acq On : 7 Dec 2018 14:06  
 Operator : MD\SY  
 Sample : J6019-05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 10 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-5

Quant Time: Dec 07 22:19:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112718W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 03 03:24:02 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 1133953  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1764965  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1514350  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 557808   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 603019   | 48.84 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.68%  |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 544768   | 50.07 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.14% |      |
| 50) Toluene-d8            | 10.09  | 98  | 2138612  | 50.49 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.98% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 654049   | 45.95 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.90%  |      |

## Target Compounds

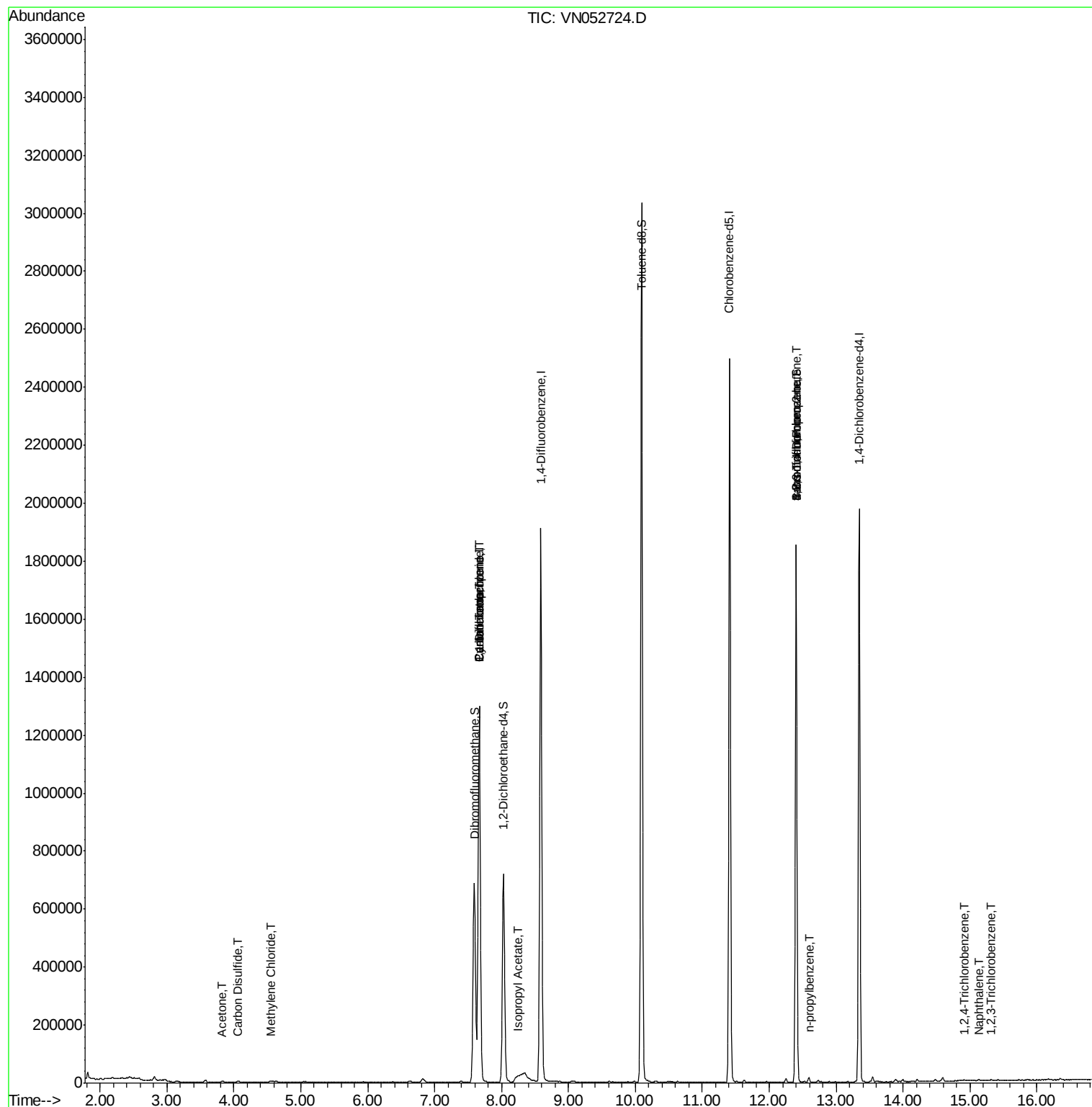
|                                |       |     |        |         | Qvalue |     |
|--------------------------------|-------|-----|--------|---------|--------|-----|
| 16) Acetone                    | 3.83  | 43  | 6302   | 1.935   | ug/l   | 98  |
| 17) Carbon Disulfide           | 4.06  | 76  | 6915   | 0.207   | ug/l   | 96  |
| 20) Methylene Chloride         | 4.56  | 84  | 2935   | 0.230   | ug/l   | 88  |
| 31) Cyclohexane                | 7.67  | 56  | 22508  | 0.699   | ug/l # | 1   |
| 36) 1,1-Dichloropropene        | 7.66  | 75  | 76803  | 4.608   | ug/l # | 49  |
| 38) Carbon Tetrachloride       | 7.67  | 117 | 101143 | 6.703   | ug/l # | 16  |
| 43) Isopropyl Acetate          | 8.23  | 43  | 17191  | 0.999   | ug/l # | 51  |
| 71) Bromoform                  | 12.41 | 173 | 3745   | 0.521   | ug/l # | 1   |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75  | 314714 | 36.587  | ug/l # | 100 |
| 78) n-propylbenzene            | 12.59 | 91  | 13367  | 0.269   | ug/l   | 95  |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75  | 314714 | 122.185 | ug/l # | 11  |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180 | 1072   | 2.932   | ug/l   | 90  |
| 95) Naphthalene                | 15.13 | 128 | 3283   | 3.574   | ug/l # | 93  |
| 96) 1,2,3-Trichlorobenzene     | 15.31 | 180 | 1184   | 2.850   | ug/l   | 92  |

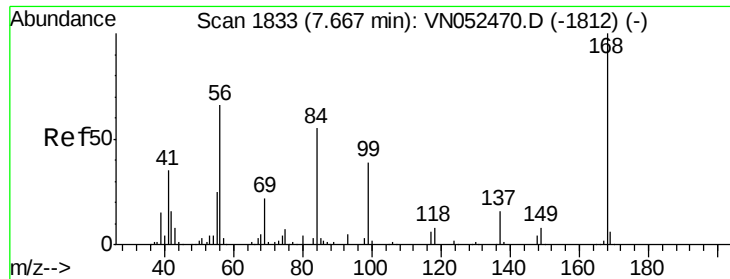
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120718\  
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Sample : J6019-05  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 10 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-5

Quant Time: Dec 07 22:19:13 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N112718W.M  
Quant Title : SW846 8260  
QLast Update : Mon Dec 03 03:24:02 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052724.D

Acq: 7 Dec 2018 14:06

Instrument :

MSVOA\_N

ClientSampled :

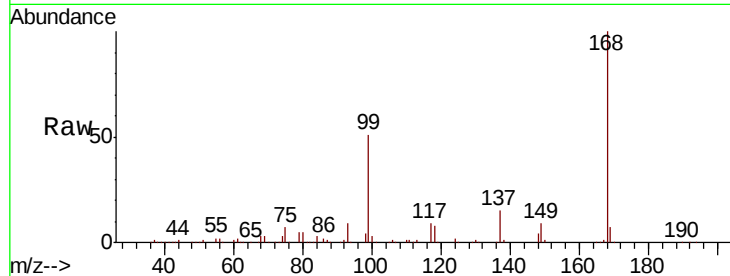
MW-5

Tot Ion:168 Resp: 1133953

Ion Ratio Lower Upper

168 100

99 50.6 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): VN052724.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052724.D (-1740) (-)

7.67

500000

400000

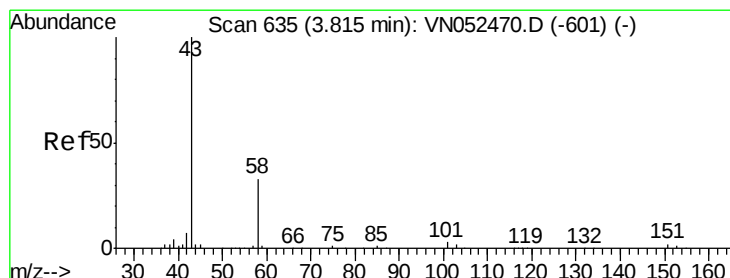
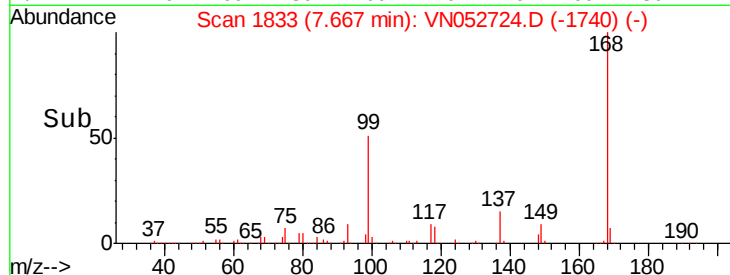
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 1.935 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052724.D

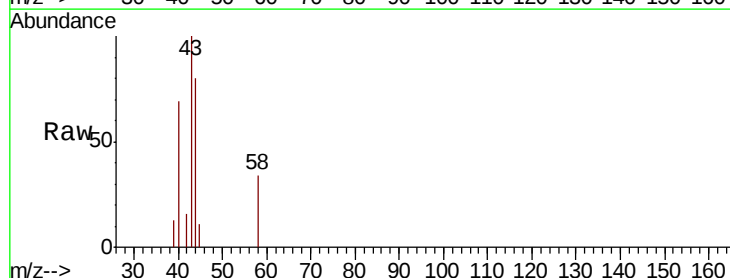
Acq: 7 Dec 2018 14:06

Tgt Ion: 43 Resp: 6302

Ion Ratio Lower Upper

43 100

58 33.6 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN052724.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN052724.D (-542) (-)

3.83

2000

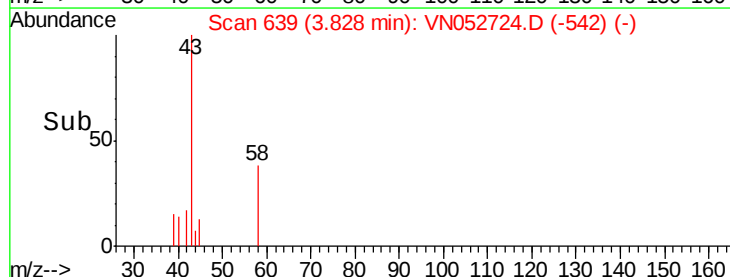
1500

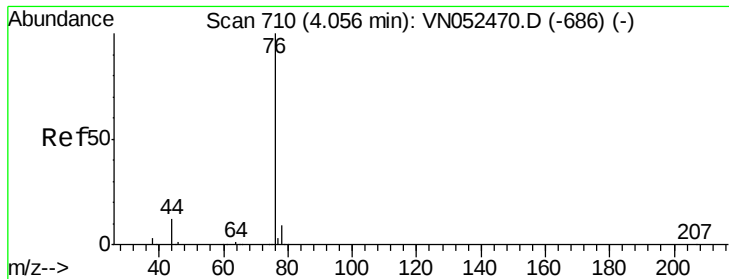
1000

500

0

Time-->





#17

Carbon Disulfide

Concen: 0.207 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052724.D

Acq: 7 Dec 2018 14:06

Instrument :

MSVOA\_N

ClientSampled :

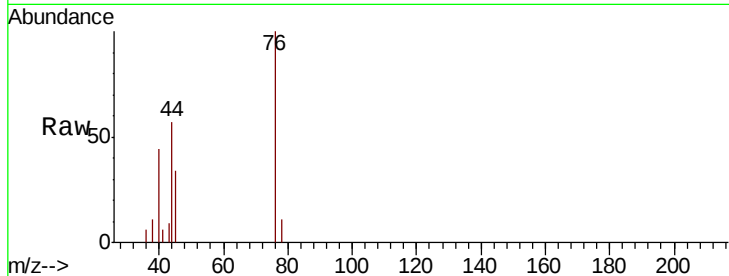
MW-5

Tot Ion: 76 Resp: 6915

Ion Ratio Lower Upper

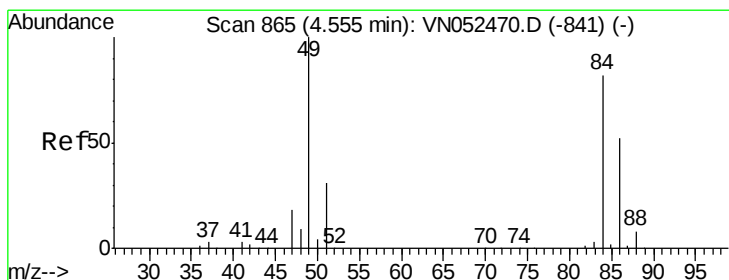
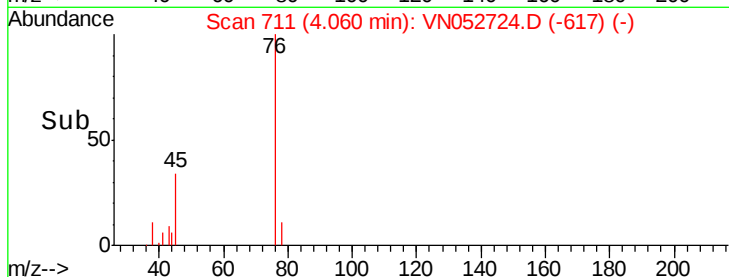
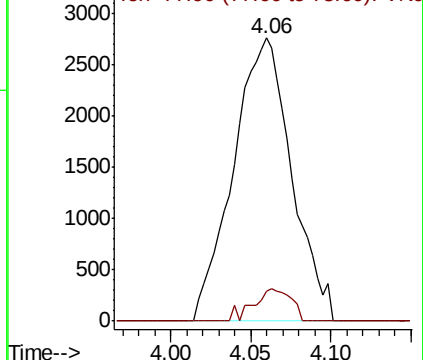
76 100

78 10.6 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#20

Methylene Chloride

Concen: 0.230 ug/l

RT: 4.56 min Scan# 867

Delta R.T. 0.01 min

Lab File: VN052724.D

Acq: 7 Dec 2018 14:06

Tgt Ion: 84 Resp: 2935

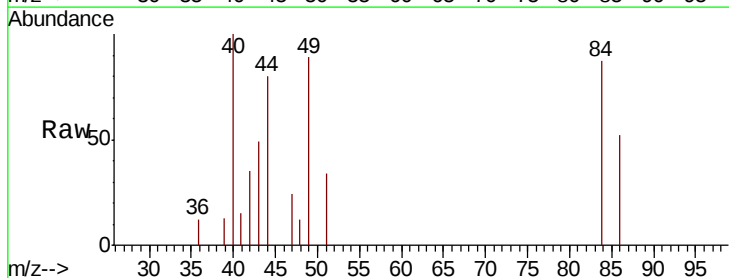
Ion Ratio Lower Upper

84 100

49 101.7 98.0 147.0

51 38.8 30.1 45.1

86 59.3 50.7 76.1

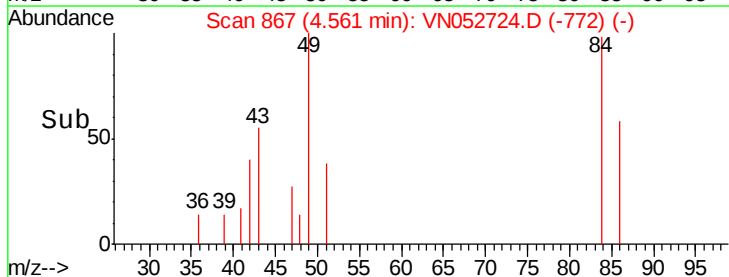
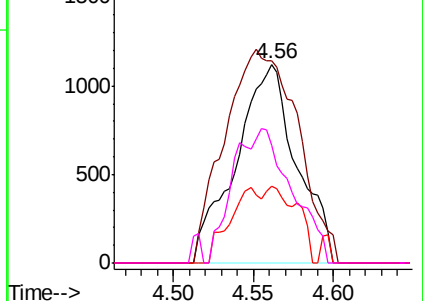


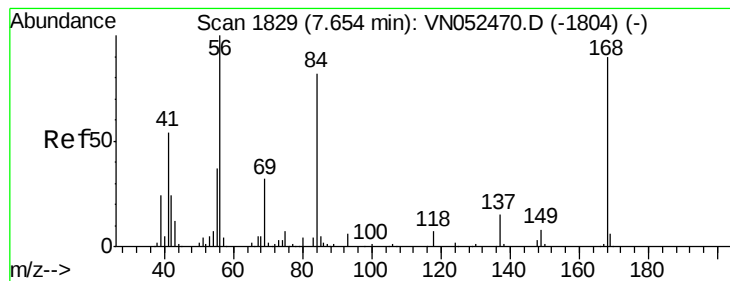
Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC





#31

Cyclohexane

Concen: 0.699 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052724.D

Acq: 7 Dec 2018 14:06

Instrument :

MSVOA\_N

ClientSampleId :

MW-5

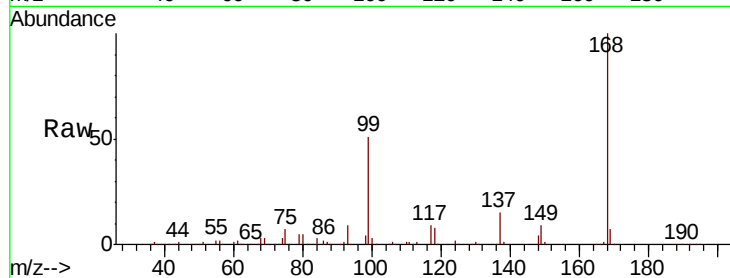
Tot Ion: 56 Resp: 22508

Ion Ratio Lower Upper

56 100

69 181.8 25.8 38.6#

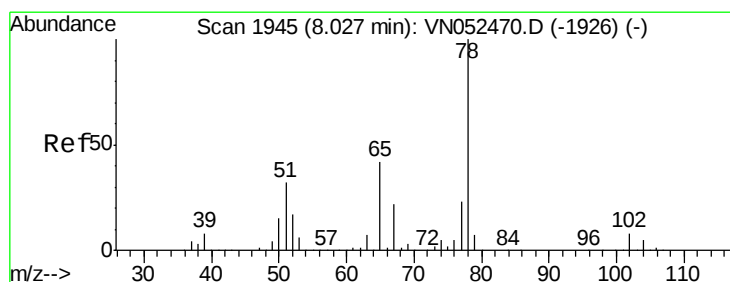
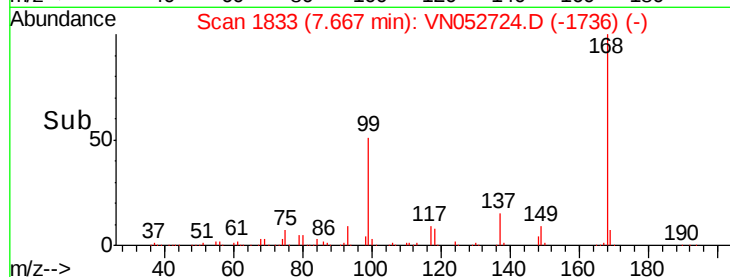
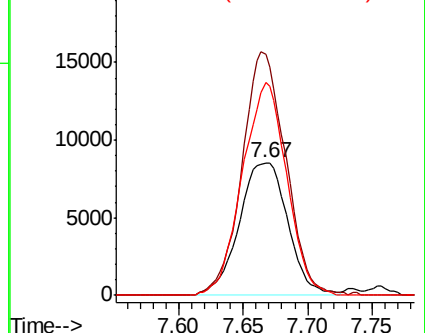
84 160.0 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN052724.D (-1804) (-)

Ion 69.00 (68.70 to 69.70): VN052724.D (-1804) (-)

Ion 84.00 (83.70 to 84.70): VN052724.D (-1804) (-)



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052724.D

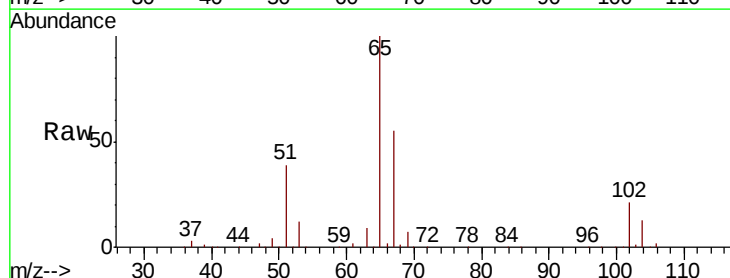
Acq: 7 Dec 2018 14:06

Tgt Ion: 65 Resp: 603019

Ion Ratio Lower Upper

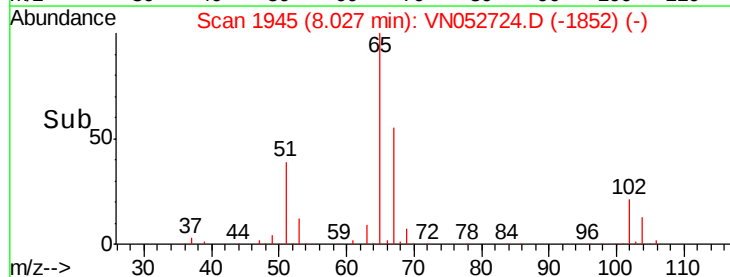
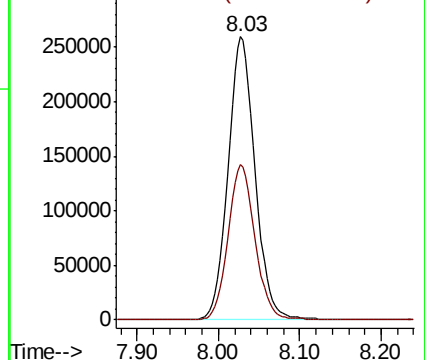
65 100

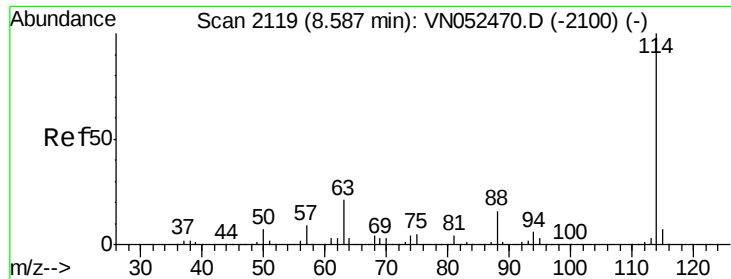
67 54.8 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN052724.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN052724.D (-1852) (-)



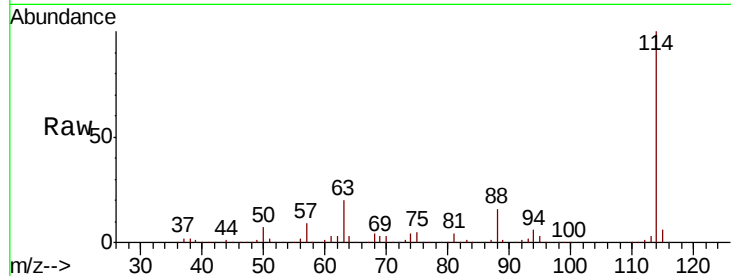


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN052724.D  
 Acq: 7 Dec 2018 14:06

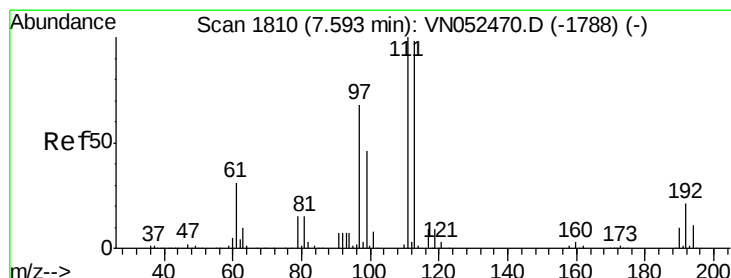
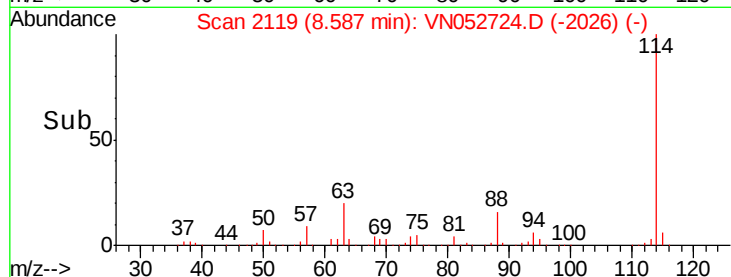
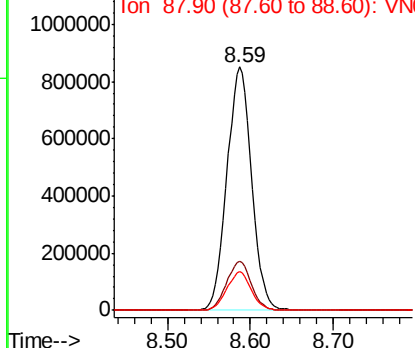
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 MW-5

Tot Ion:114 Resp: 1764965  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 20.1  | 0.0   | 41.8  |
| 88  | 15.9  | 0.0   | 31.6  |



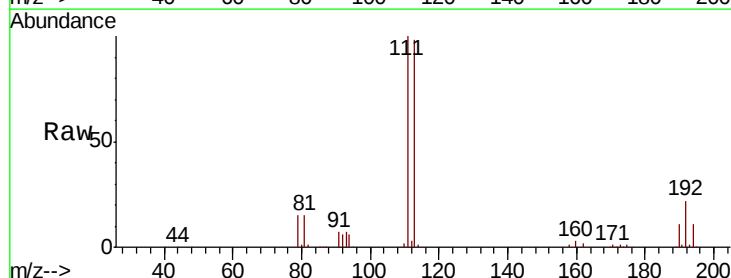
Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN



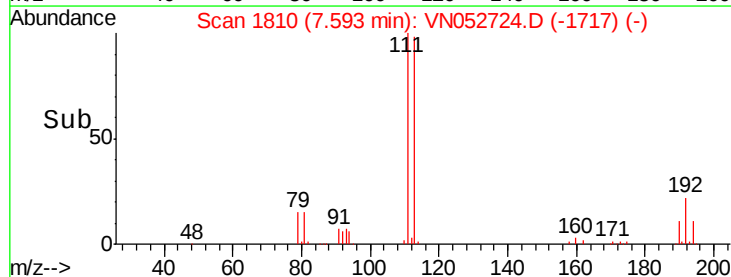
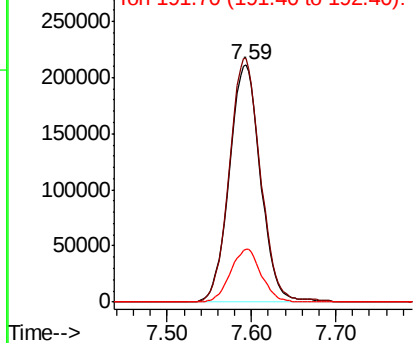
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN052724.D  
 Acq: 7 Dec 2018 14:06

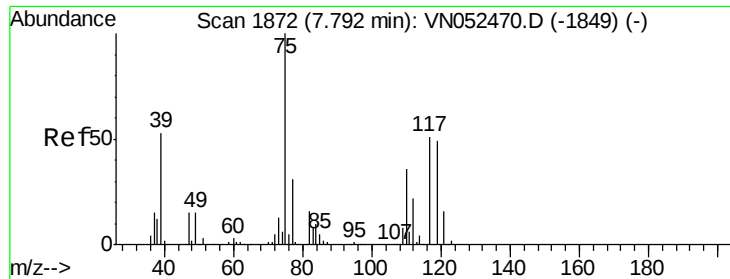
Tgt Ion:113 Resp: 544768  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 102.7 | 82.0  | 123.0 |
| 192 | 22.2  | 17.0  | 25.6  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

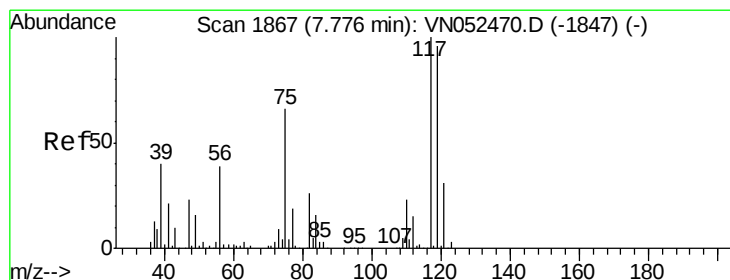
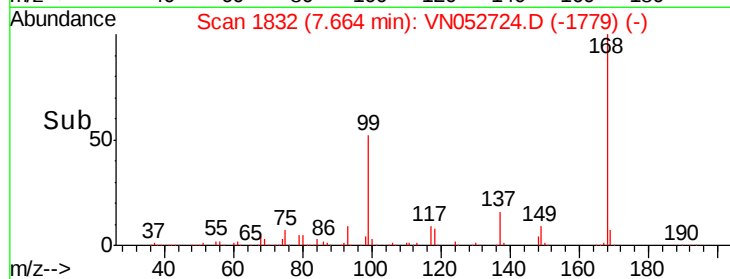
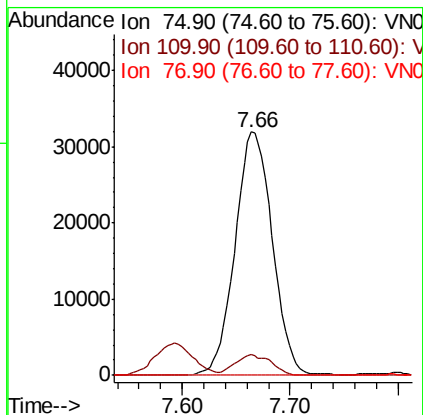
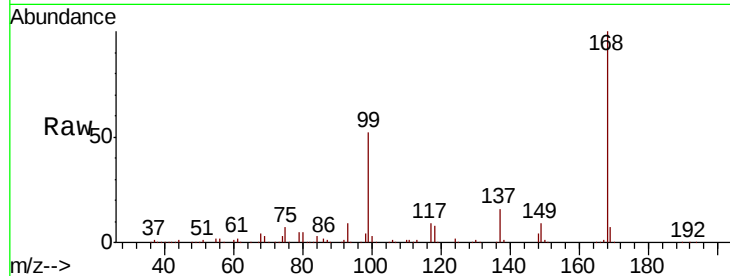




#36  
 1,1-Dichloropropene  
 Concen: 4.608 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.13 min  
 Lab File: VN052724.D  
 Acq: 7 Dec 2018 14:06

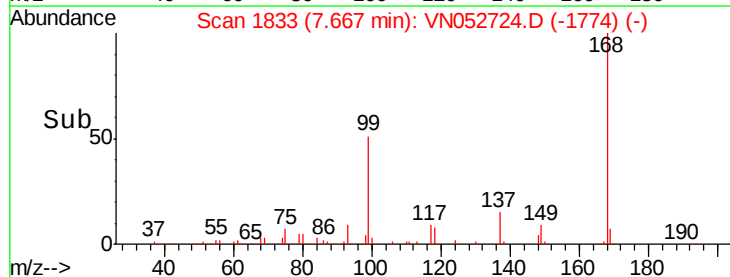
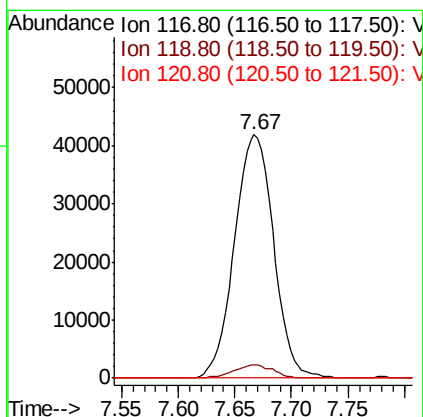
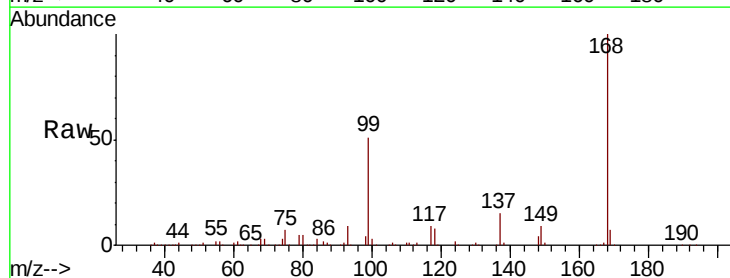
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 MW-5

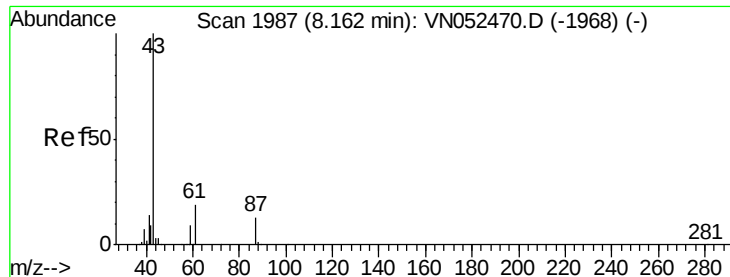
Tot Ion: 75 Resp: 76803  
 Ion Ratio Lower Upper  
 75 100  
 110 8.2 17.5 52.6#  
 77 0.0 24.5 36.7#



#38  
 Carbon Tetrachloride  
 Concen: 6.703 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.11 min  
 Lab File: VN052724.D  
 Acq: 7 Dec 2018 14:06

Tgt Ion: 117 Resp: 101143  
 Ion Ratio Lower Upper  
 117 100  
 119 5.7 76.8 115.2#  
 121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 0.999 ug/l

RT: 8.23 min Scan# 2008

Delta R.T. 0.07 min

Lab File: VN052724.D

Acq: 7 Dec 2018 14:06

Instrument :

MSVOA\_N

ClientSampleId :

MW-5

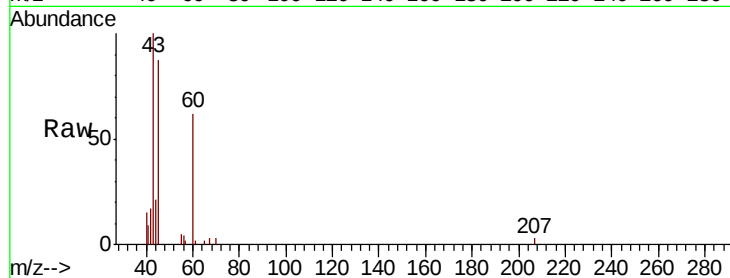
Tot Ion: 43 Resp: 17191

Ion Ratio Lower Upper

43 100

61 0.0 24.1 36.1#

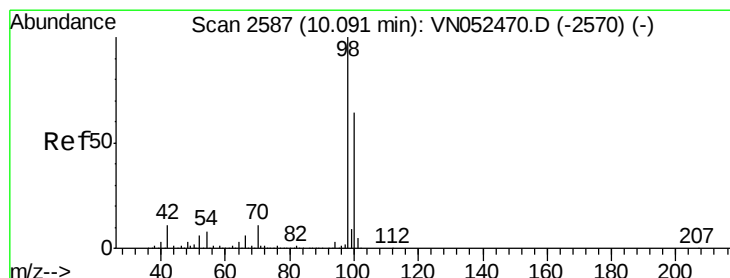
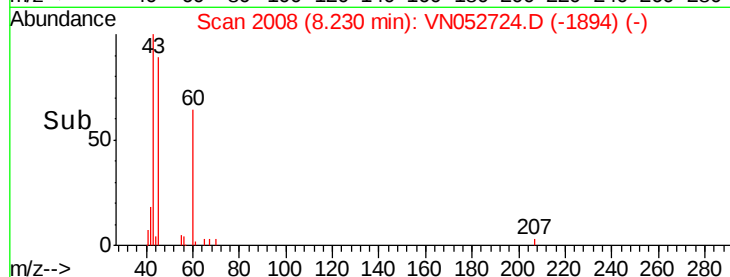
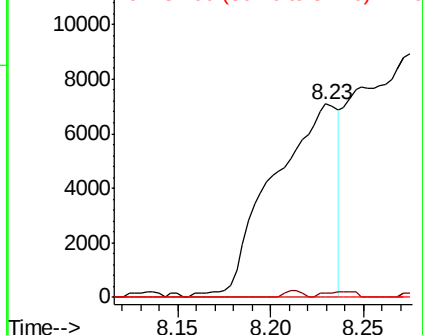
87 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052724.D

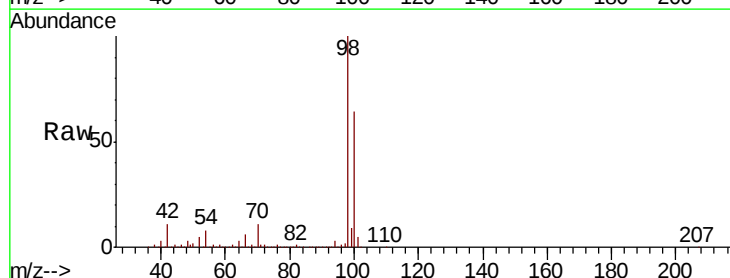
Acq: 7 Dec 2018 14:06

Tgt Ion: 98 Resp: 2138612

Ion Ratio Lower Upper

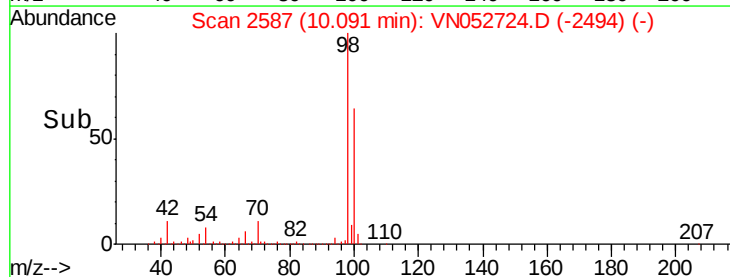
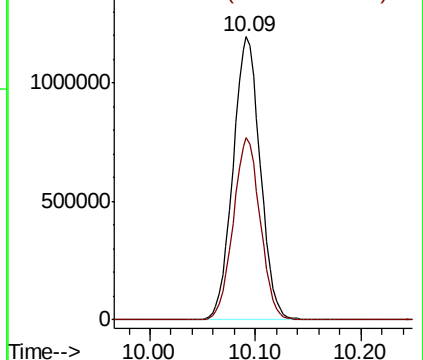
98 100

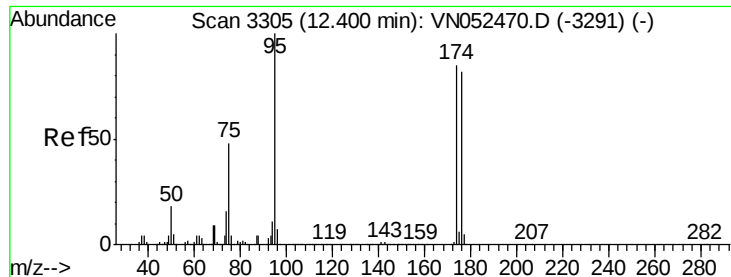
100 63.7 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052724.D

Acq: 7 Dec 2018 14:06

Instrument :

MSVOA\_N

ClientSampled :

MW-5

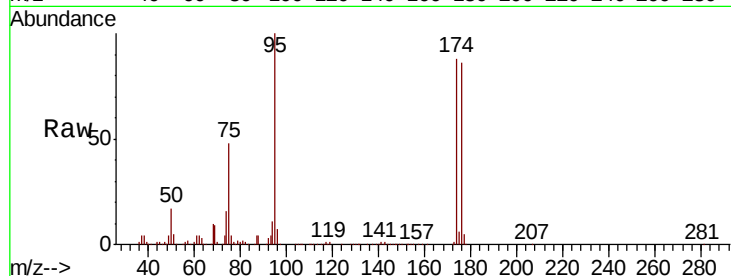
Tot Ion: 95 Resp: 654049

Ion Ratio Lower Upper

95 100

174 88.2 0.0 173.0

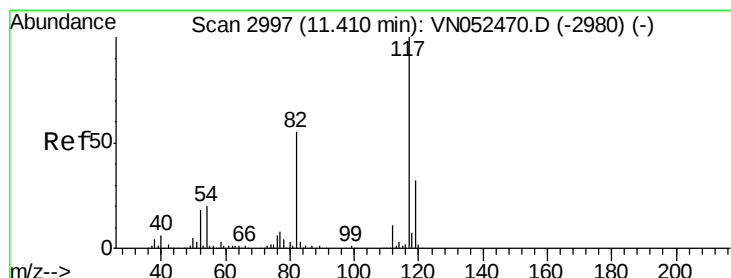
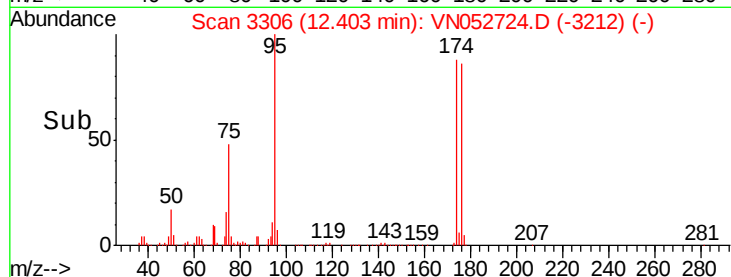
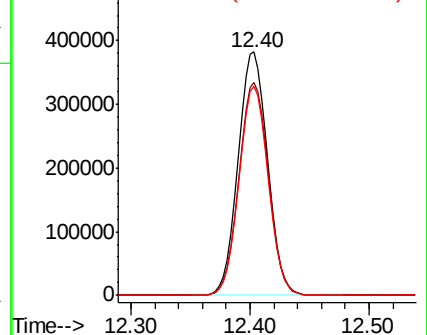
176 85.3 0.0 166.2



Abundance Ion 94.90 (94.60 to 95.60): VN052470.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052470.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052470.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN052724.D

Acq: 7 Dec 2018 14:06

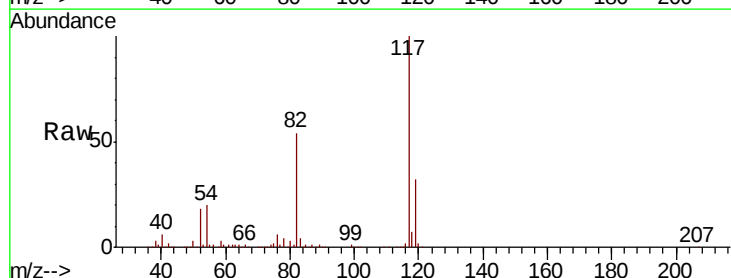
Tgt Ion: 117 Resp: 1514350

Ion Ratio Lower Upper

117 100

82 54.4 43.6 65.4

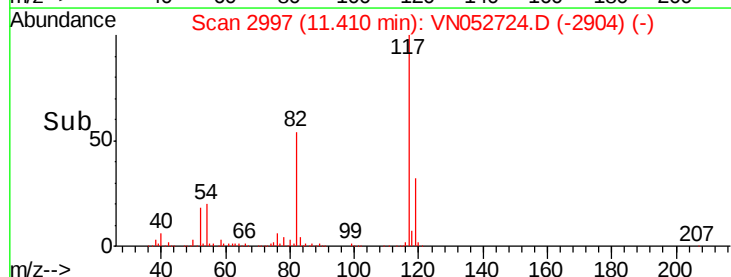
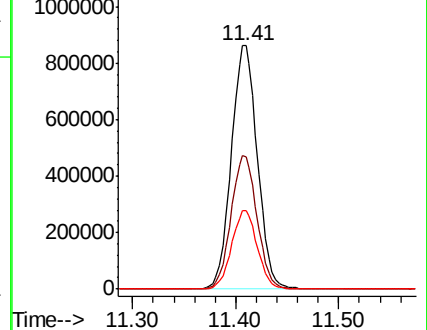
119 32.3 25.4 38.2

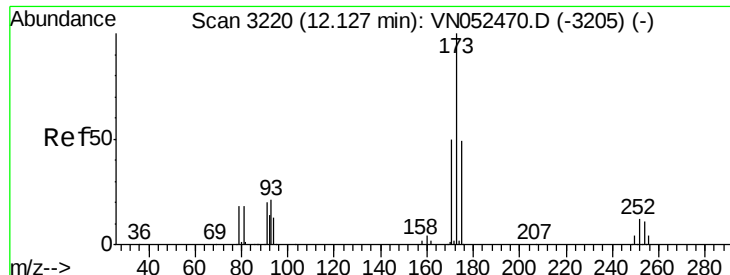


Abundance Ion 116.90 (116.60 to 117.60): VN052470.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN052470.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN052470.D (-2980) (-)





#71

Bromoform

Concen: 0.521 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN052724.D

Acq: 7 Dec 2018 14:06

Instrument :

MSVOA\_N

ClientSampleId :

MW-5

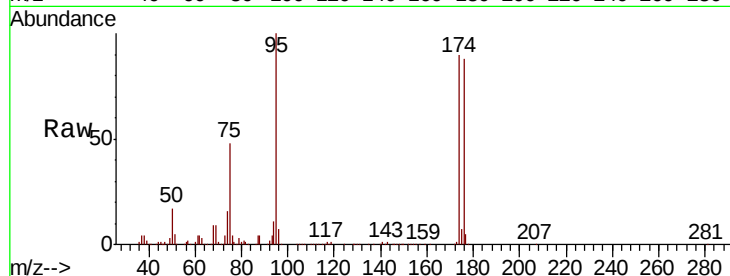
Tot Ion:173 Resp: 3745

Ion Ratio Lower Upper

173 100

175 964.7 24.4 73.2#

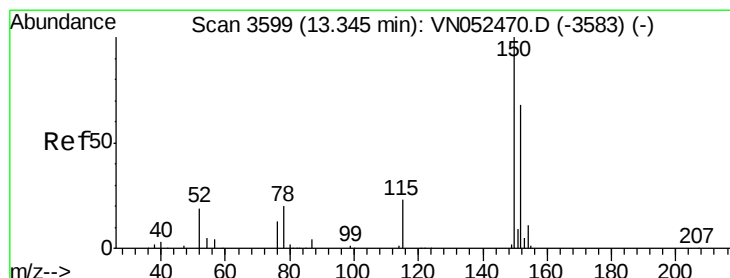
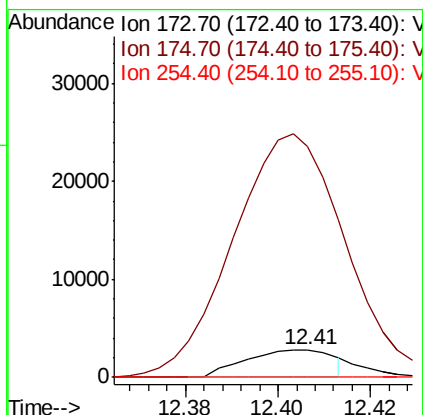
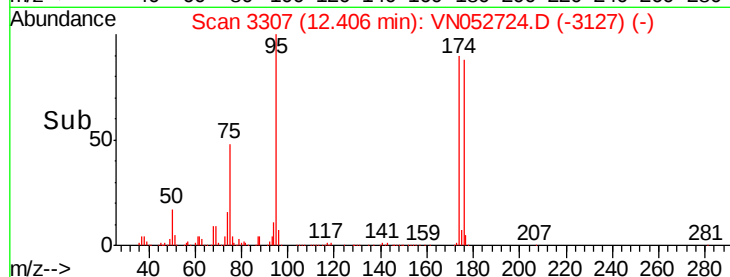
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052724.D

Acq: 7 Dec 2018 14:06

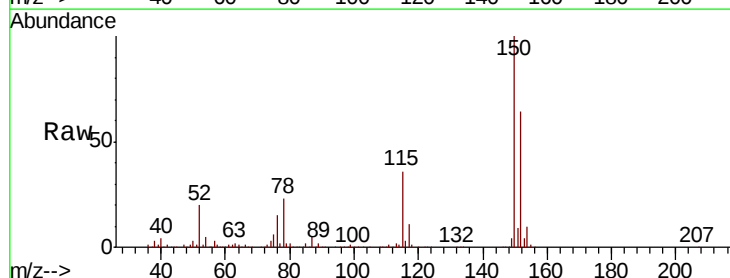
Tgt Ion:152 Resp: 557808

Ion Ratio Lower Upper

152 100

115 56.3 28.4 85.2

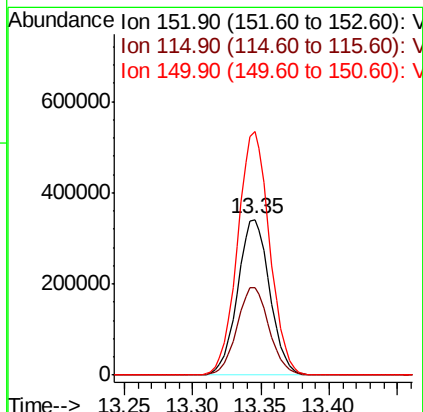
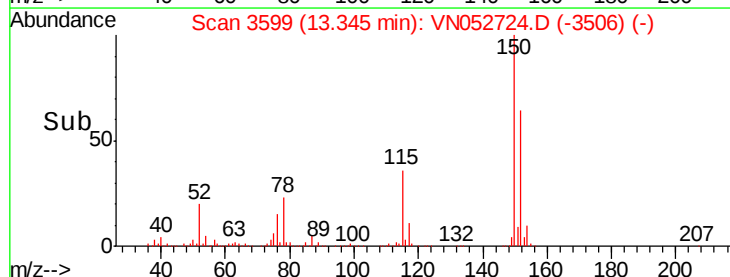
150 156.2 0.0 346.0

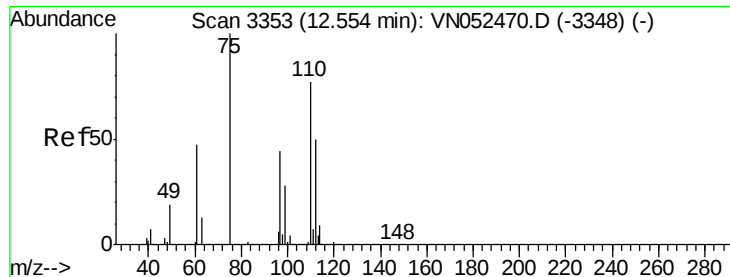


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.587 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052724.D

Acq: 7 Dec 2018 14:06

Instrument :

MSVOA\_N

ClientSampled :

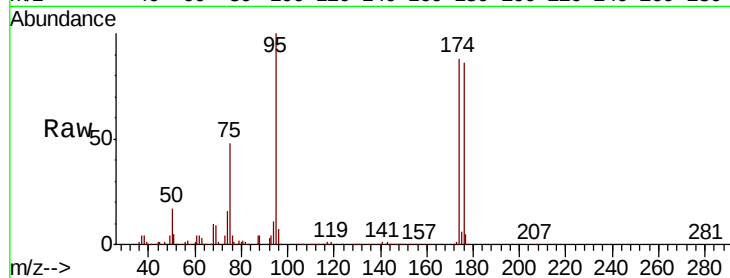
MW-5

Tot Ion: 75 Resp: 314714

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

200000

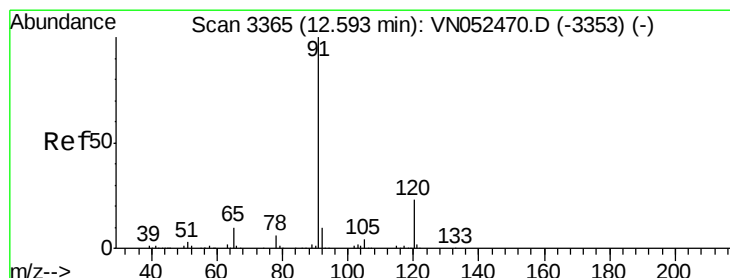
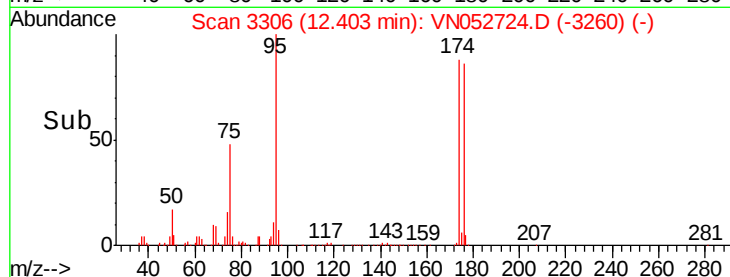
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#78

n-propylbenzene

Concen: 0.269 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN052724.D

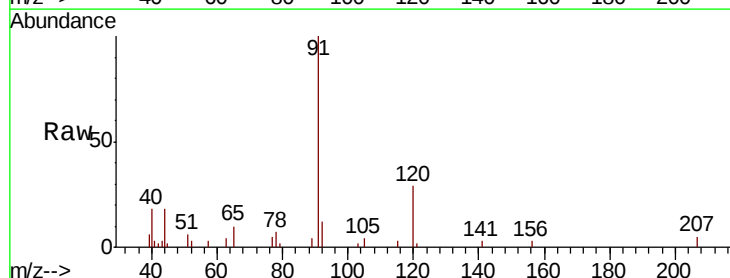
Acq: 7 Dec 2018 14:06

Tgt Ion: 91 Resp: 13367

Ion Ratio Lower Upper

91 100

120 25.0 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

12.59

8000

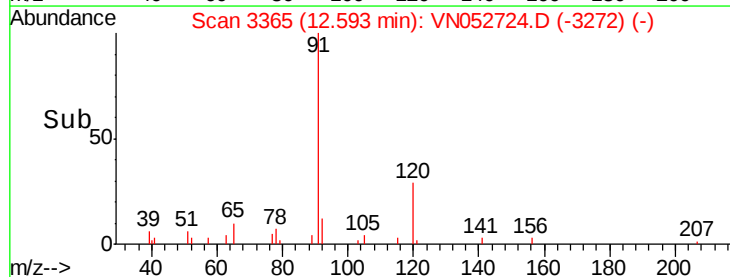
6000

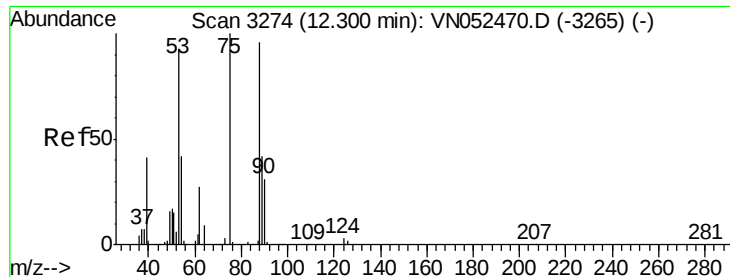
4000

2000

0

Time--> 12.55 12.60 12.65





#81

trans-1,4-Dichloro-2-butene

Concen: 122.185 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052724.D

Acq: 7 Dec 2018 14:06

Instrument :

MSVOA\_N

ClientSampled :

MW-5

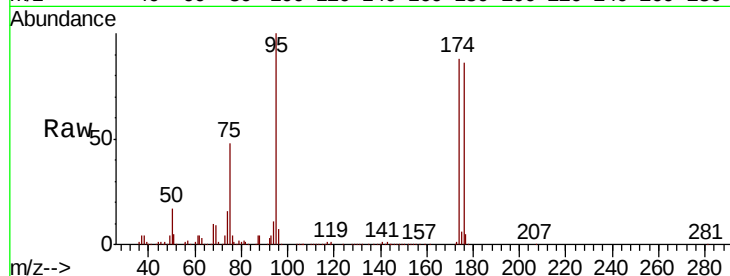
Tot Ion: 75 Resp: 314714

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

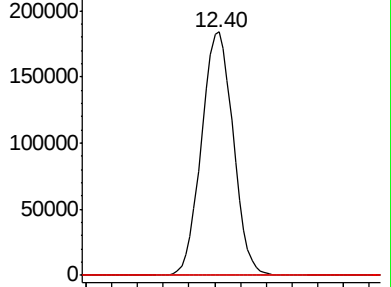
89 0.0 35.4 53.2#



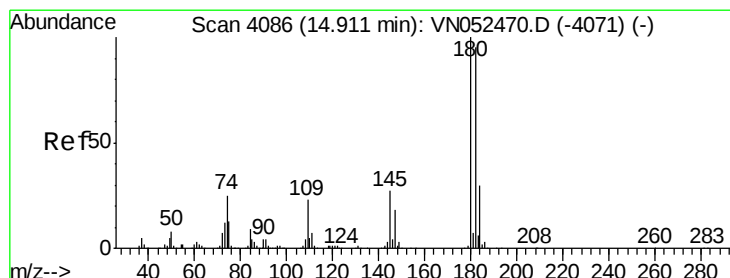
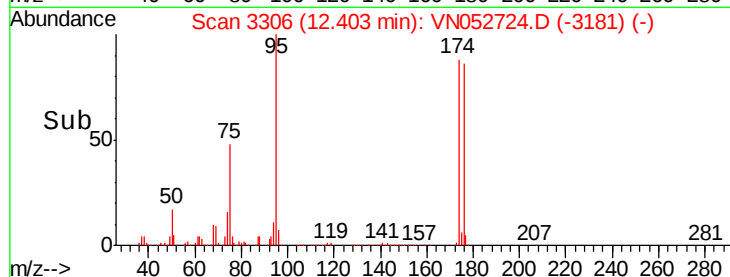
Abundance Ion 74.90 (74.60 to 75.60): VN052724.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN052724.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN052724.D (-3181) (-)



Time--> 12.30 12.40 12.50



#93

1,2,4-Trichlorobenzene

Concen: 2.932 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN052724.D

Acq: 7 Dec 2018 14:06

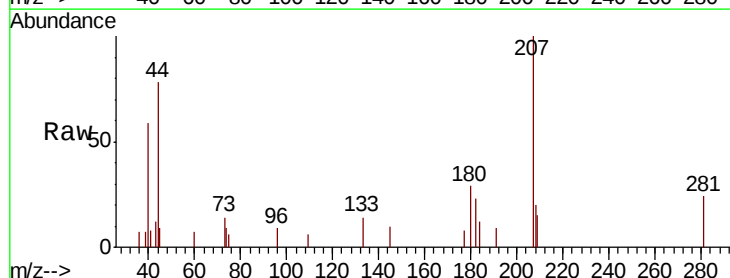
Tgt Ion:180 Resp: 1072

Ion Ratio Lower Upper

180 100

182 87.8 47.8 143.4

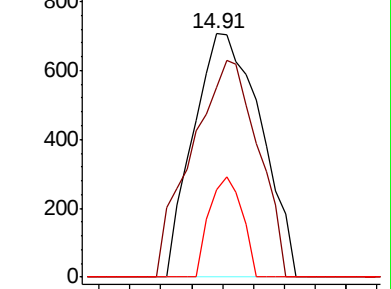
145 20.1 14.1 42.3



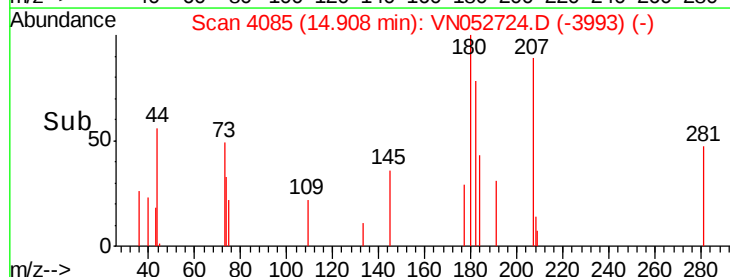
Abundance Ion 179.80 (179.50 to 180.50): VN052724.D (-3993) (-)

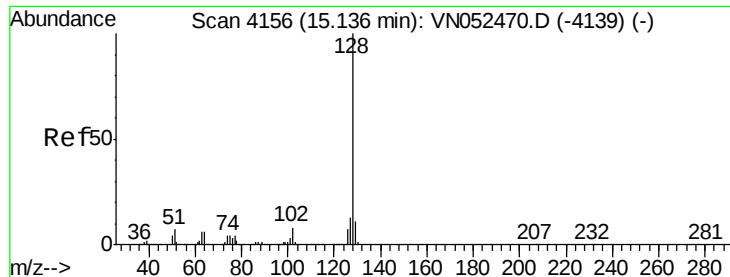
Ion 181.80 (181.50 to 182.50): VN052724.D (-3993) (-)

Ion 144.80 (144.50 to 145.50): VN052724.D (-3993) (-)



Time--> 14.90 14.95





#95

Naphthalene

Concen: 3.574 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052724.D

Acq: 7 Dec 2018 14:06

Instrument :

MSVOA\_N

ClientSampled :

MW-5

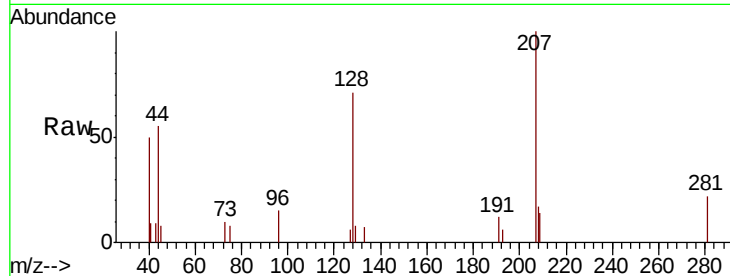
Tot Ion:128 Resp: 3283

Ion Ratio Lower Upper

128 100

127 9.5 10.2 15.2#

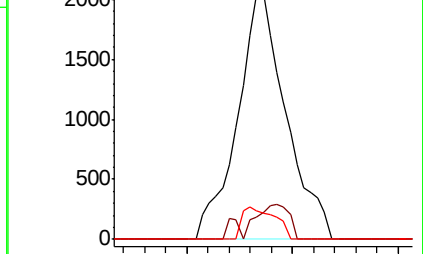
129 8.8 8.7 13.1



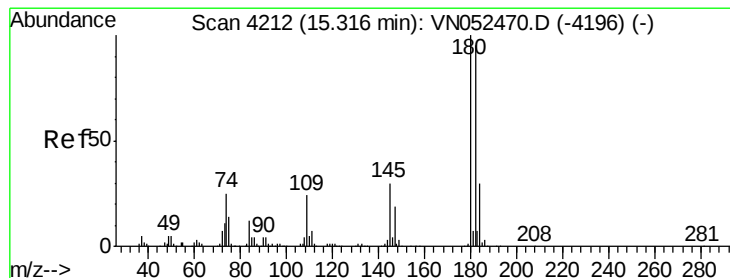
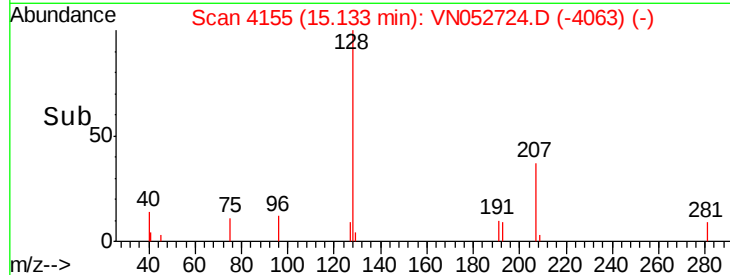
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.850 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN052724.D

Acq: 7 Dec 2018 14:06

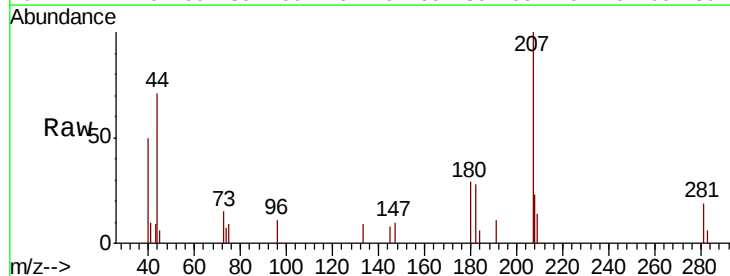
Tgt Ion:180 Resp: 1184

Ion Ratio Lower Upper

180 100

182 90.9 47.8 143.3

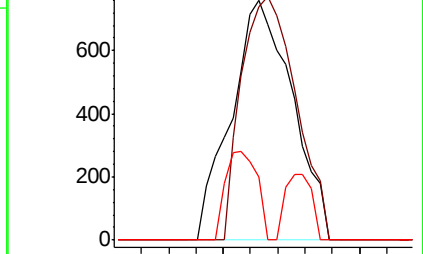
145 19.3 15.2 45.5



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



Time-->

