

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052019\  
 Data File : VN055680.D  
 Acq On : 20 May 2019 17:41  
 Operator : JC/SP  
 Sample : K2894-04  
 Misc : 5.09g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 23 Sample Multiplier: 1

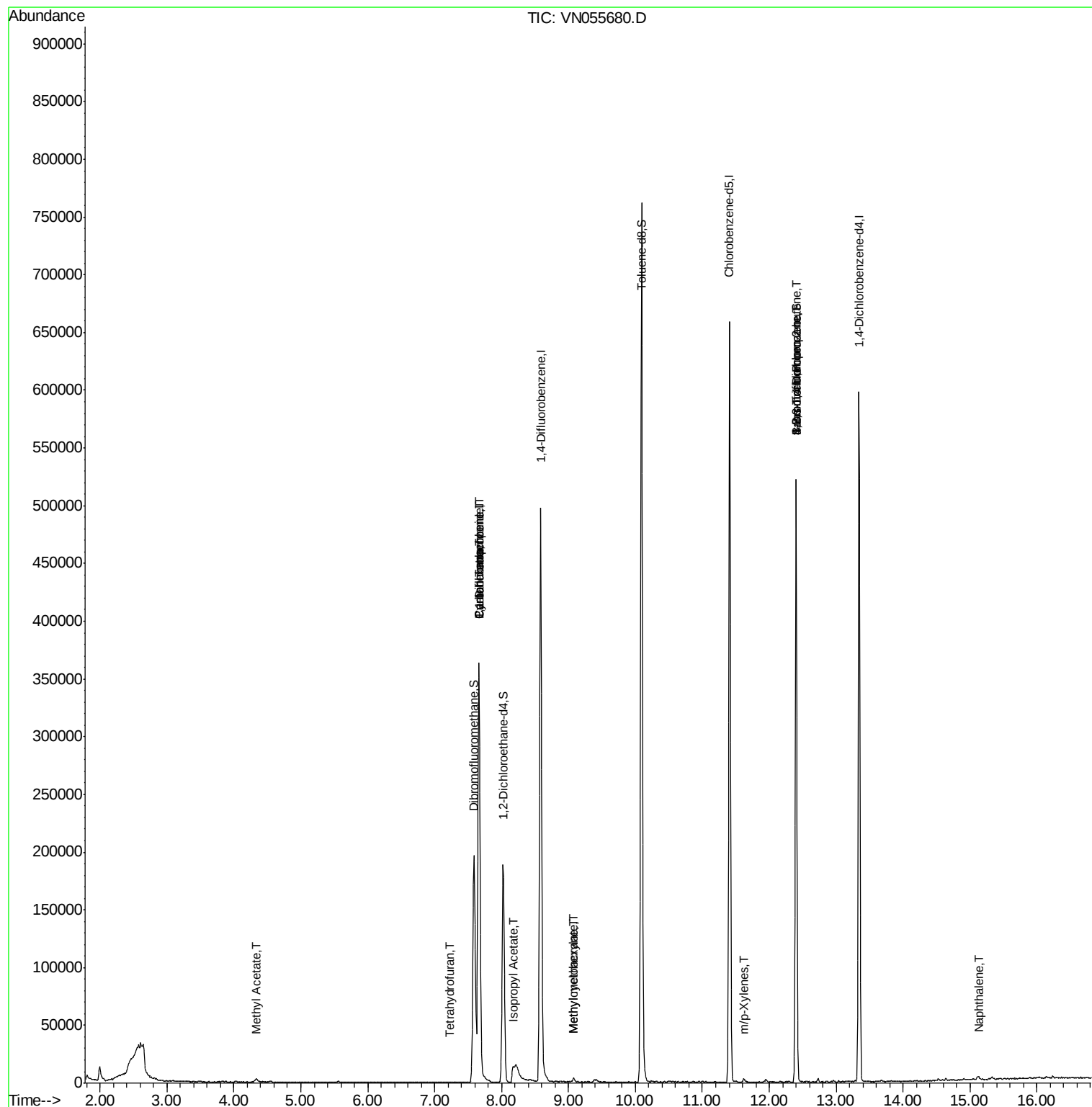
Quant Time: May 20 18:00:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051719W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 23:54:12 2019  
 Response via : Initial Calibration

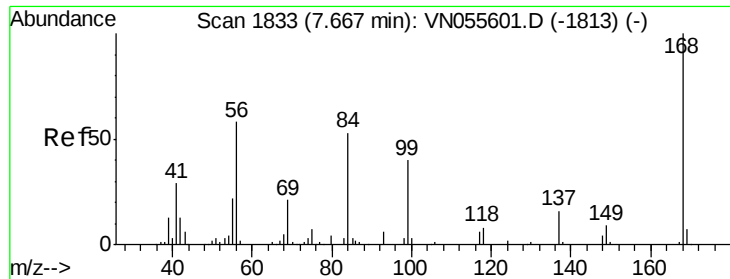
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene          | 7.66   | 168  | 359073   | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.58   | 114  | 508205   | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5           | 11.41  | 117  | 419498   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.34  | 152  | 176247   | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds    |        |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4      | 8.02   | 65   | 162016   | 41.16     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 82.32% |          |
| 35) Dibromofluoromethane       | 7.59   | 113  | 151553   | 46.94     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 93.88% |          |
| 50) Toluene-d8                 | 10.09  | 98   | 577622   | 47.32     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 94.64% |          |
| 62) 4-Bromofluorobenzene       | 12.40  | 95   | 181377   | 43.03     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 86.06% |          |
| Target Compounds               |        |      |          |           |        |          |
|                                |        |      |          |           | Qvalue |          |
| 18) Methyl Acetate             | 4.34   | 43   | 6089     | 1.768     | ug/l   | 91       |
| 29) Tetrahydrofuran            | 7.23   | 42   | 412      | 0.277     | ug/l # | 31       |
| 31) Cyclohexane                | 7.66   | 56   | 5632     | 0.965     | ug/l # | 1        |
| 36) 1,1-Dichloropropene        | 7.66   | 75   | 20642    | 4.556     | ug/l # | 48       |
| 38) Carbon Tetrachloride       | 7.66   | 117  | 29243    | 6.040     | ug/l # | 15       |
| 39) Methylcyclohexane          | 9.08   | 83   | 1473     | 0.270     | ug/l # | 84       |
| 43) Isopropyl Acetate          | 8.17   | 43   | 9824     | 1.381     | ug/l # | 53       |
| 48) Methyl methacrylate        | 9.08   | 41   | 1069     | 0.336     | ug/l # | 45       |
| 68) m/p-Xylenes                | 11.62  | 106  | 1236     | 0.217     | ug/l   | 99       |
| 71) Bromoform                  | 12.40  | 173  | 1202     | 0.416     | ug/l # | 1        |
| 73) Isopropylbenzene           | 12.25  | 105  | 257      | Below Cal | #      | 48       |
| 76) 1,2,3-Trichloropropane     | 12.40  | 75   | 81905    | 22.774    | ug/l # | 100      |
| 79) 2-Chlorotoluene            | 12.68  | 91   | 136      | Below Cal | #      | 39       |
| 80) 1,3,5-Trimethylbenzene     | 12.73  | 105  | 466      | Below Cal | #      | 46       |
| 81) trans-1,4-Dichloro-2-buten | 12.40  | 75   | 81905    | 58.544    | ug/l # | 17       |
| 83) tert-Butylbenzene          | 12.99  | 119  | 62       | Below Cal | #      | 28       |
| 84) 1,2,4-Trimethylbenzene     | 13.04  | 105  | 651      | Below Cal |        | 67       |
| 85) sec-Butylbenzene           | 13.17  | 105  | 379      | Below Cal | #      | 56       |
| 86) p-Isopropyltoluene         | 13.29  | 119  | 462      | Below Cal | #      | 51       |
| 95) Naphthalene                | 15.14  | 128  | 2040     | 1.979     | ug/l # | 94       |

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

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Quant Time: May 20 18:00:57 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051719W.M  
Quant Title : SW846 8260  
QLast Update : Fri May 17 23:54:12 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN055680.D

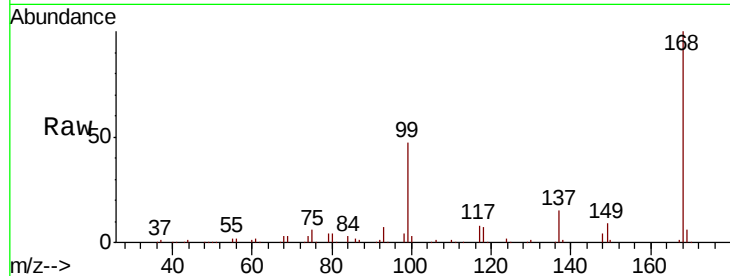
Acq: 20 May 2019 17:41

Tgt Ion: 168 Resp: 359073

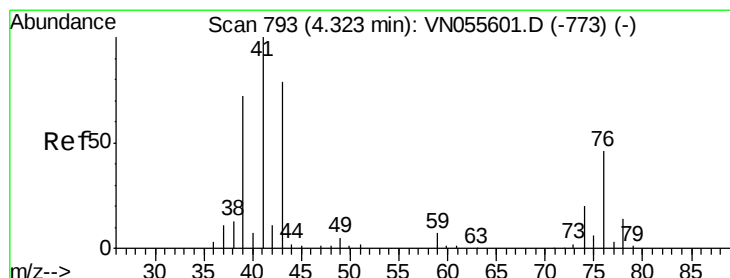
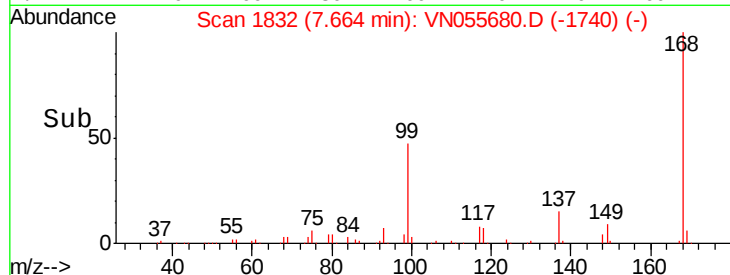
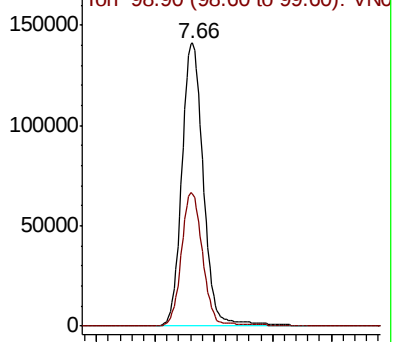
Ion Ratio Lower Upper

168 100

99 46.9 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN055680.D (-1740) (-)



#18

Methyl Acetate

Concen: 1.768 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055680.D

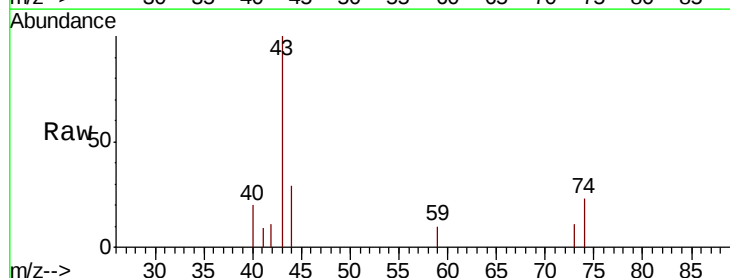
Acq: 20 May 2019 17:41

Tgt Ion: 43 Resp: 6089

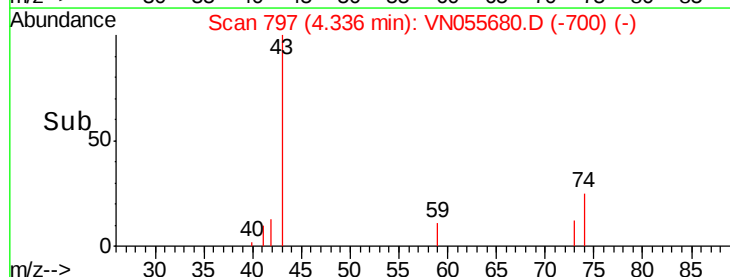
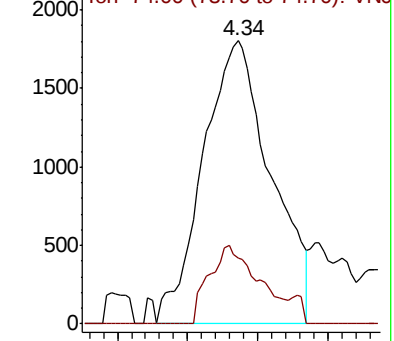
Ion Ratio Lower Upper

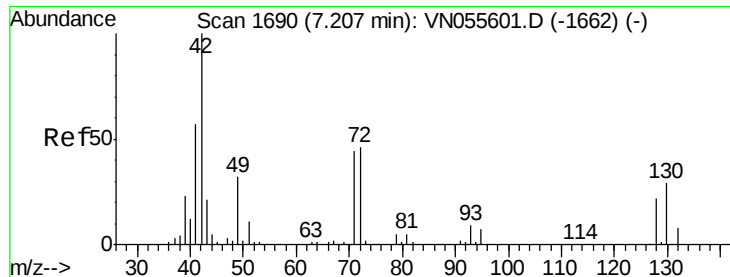
43 100

74 20.3 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VN055680.D (-700) (-)





#29

Tetrahydrofuran

Concen: 0.277 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.02 min

Lab File: VN055680.D

Acq: 20 May 2019 17:41

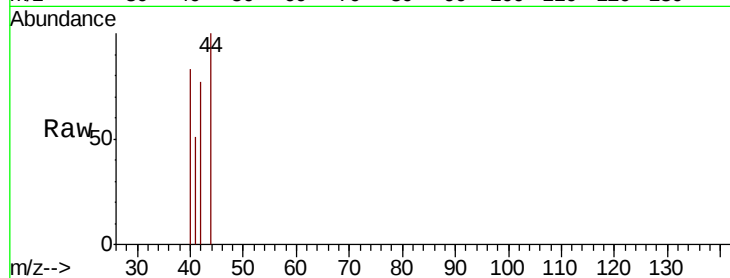
Tgt Ion: 42 Resp: 412

Ion Ratio Lower Upper

42 100

72 0.0 36.5 54.7#

71 0.0 34.9 52.3#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

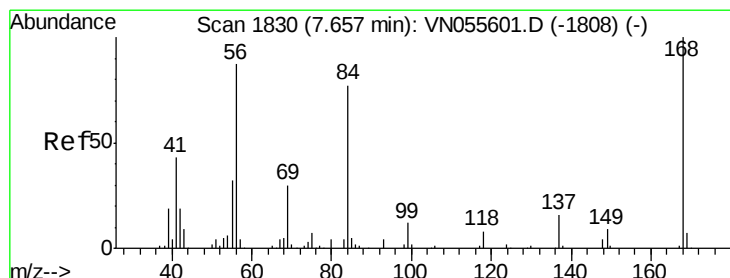
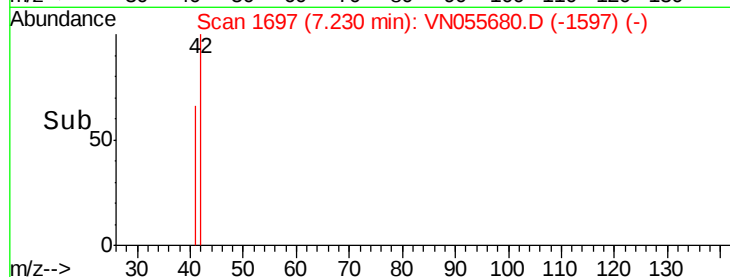
7.23

200

100

0

Time-->



#31

Cyclohexane

Concen: 0.965 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN055680.D

Acq: 20 May 2019 17:41

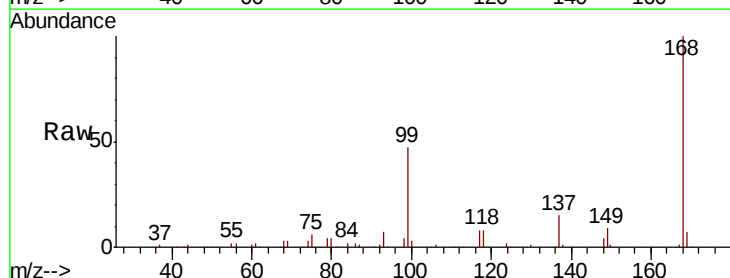
Tgt Ion: 56 Resp: 5632

Ion Ratio Lower Upper

56 100

69 161.1 27.2 40.8#

84 146.0 71.3 106.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

7.66

4000

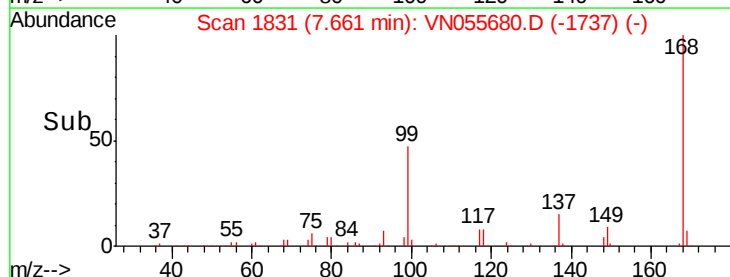
3000

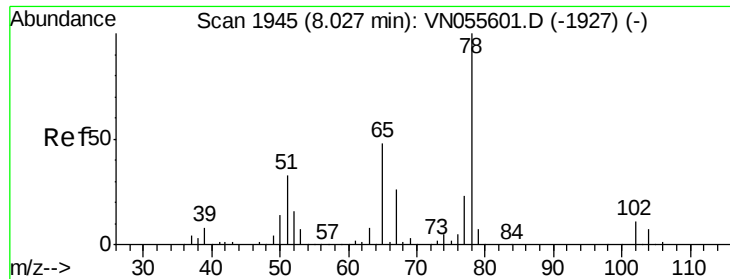
2000

1000

0

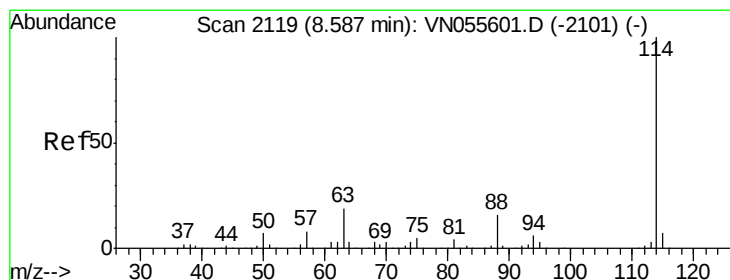
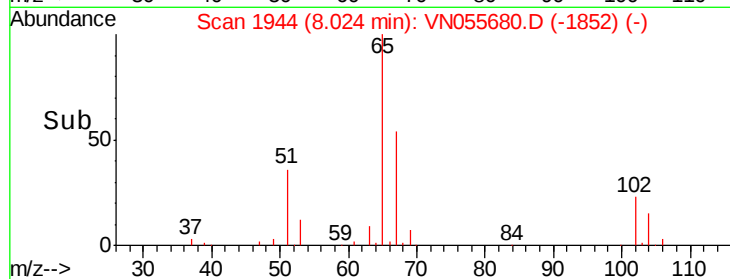
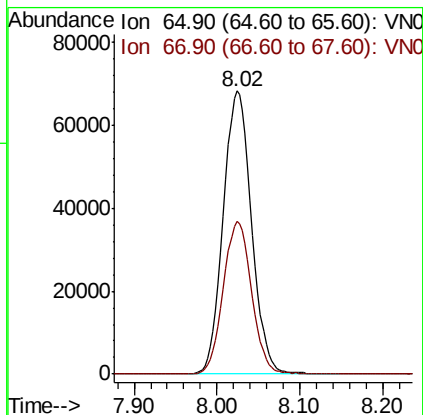
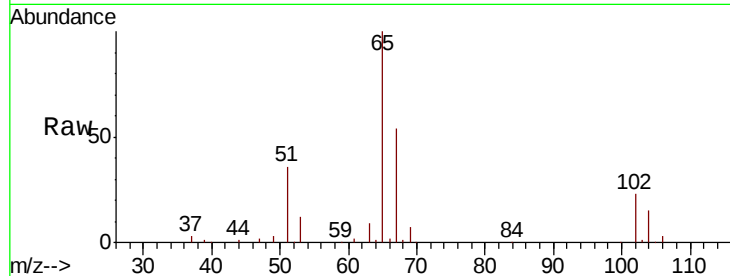
Time-->





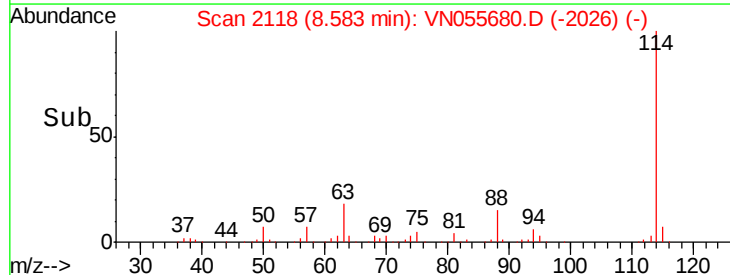
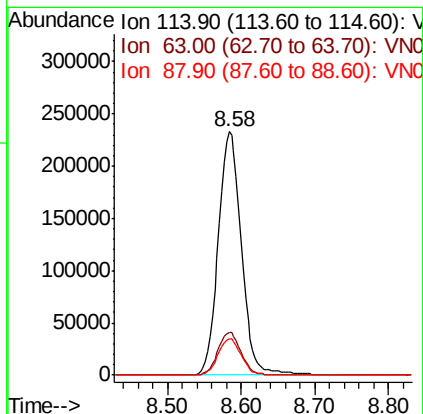
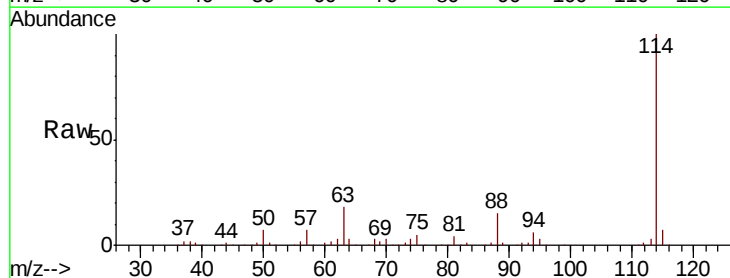
#33  
 1,2-Dichloroethane-d4  
 Concen: 41.161 ug/l  
 RT: 8.02 min Scan# 1944  
 Delta R.T. -0.00 min  
 Lab File: VN055680.D  
 Acq: 20 May 2019 17:41

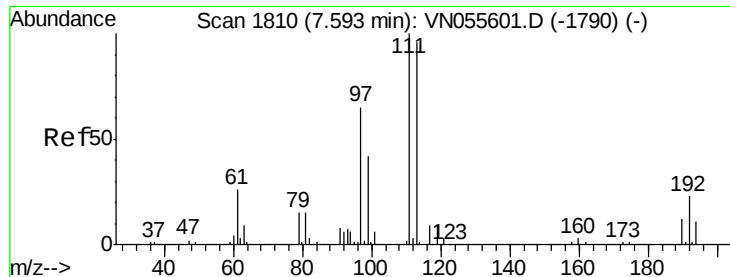
Tgt Ion: 65 Resp: 162016  
 Ion Ratio Lower Upper  
 65 100  
 67 53.9 0.0 108.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2118  
 Delta R.T. -0.00 min  
 Lab File: VN055680.D  
 Acq: 20 May 2019 17:41

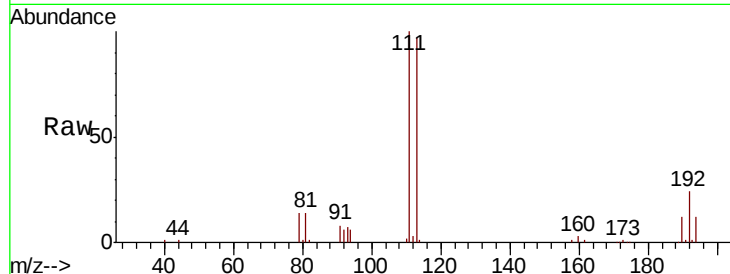
Tgt Ion: 114 Resp: 508205  
 Ion Ratio Lower Upper  
 114 100  
 63 17.6 0.0 38.2  
 88 14.9 0.0 31.0



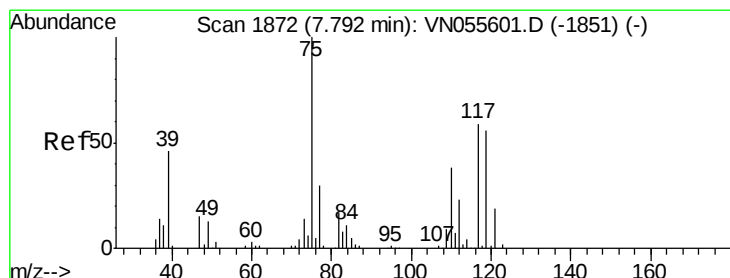
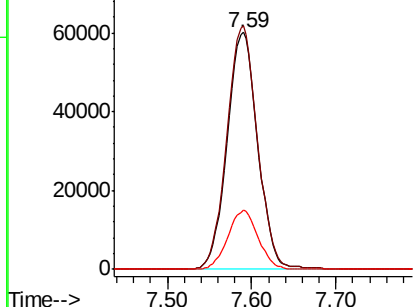
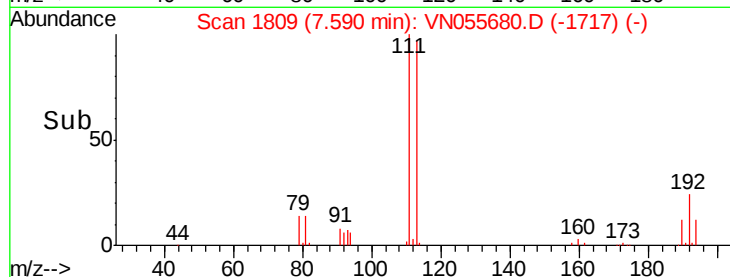


#35  
 Dibromofluoromethane  
 Concen: 46.944 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. -0.00 min  
 Lab File: VN055680.D  
 Acq: 20 May 2019 17:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.7 | 82.5  | 123.7 |
| 192     | 24.6  | 18.7  | 28.1  |

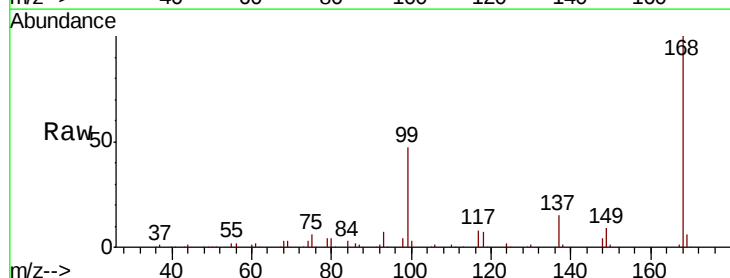


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

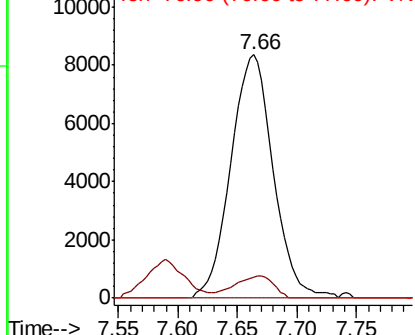
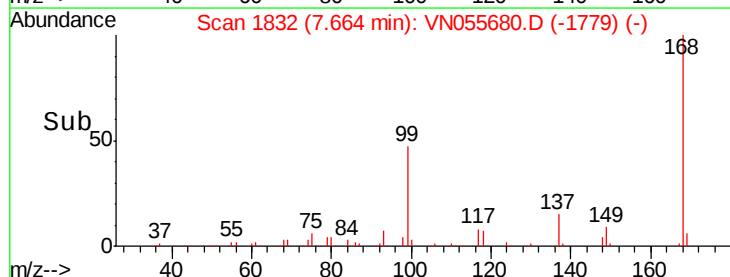


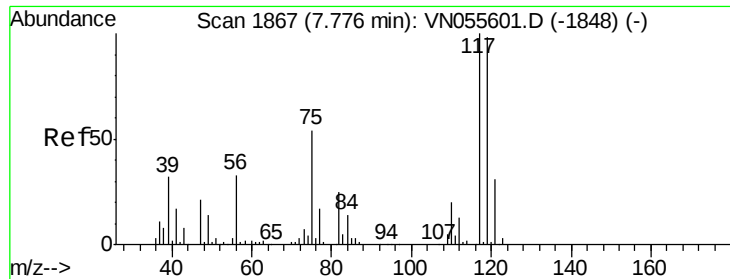
#36  
 1,1-Dichloropropene  
 Concen: 4.556 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.13 min  
 Lab File: VN055680.D  
 Acq: 20 May 2019 17:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.5   | 18.6  | 55.6# |
| 77      | 0.0   | 24.9  | 37.3# |



Abundance Ion 74.90 (74.60 to 75.60): V  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.040 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.12 min

Lab File: VN055680.D

Acq: 20 May 2019 17:41

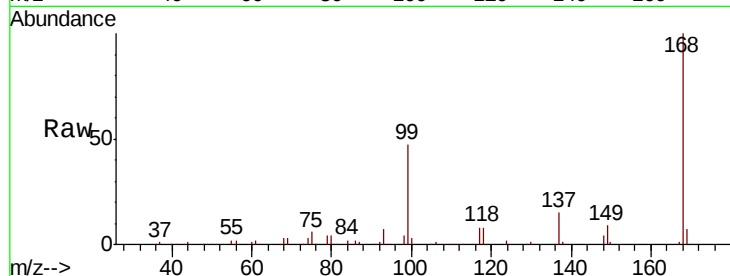
Tgt Ion: 117 Resp: 29243

Ion Ratio Lower Upper

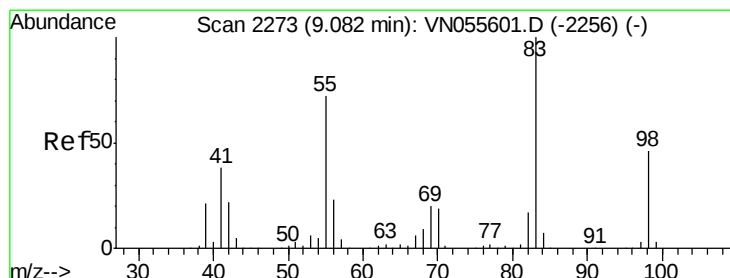
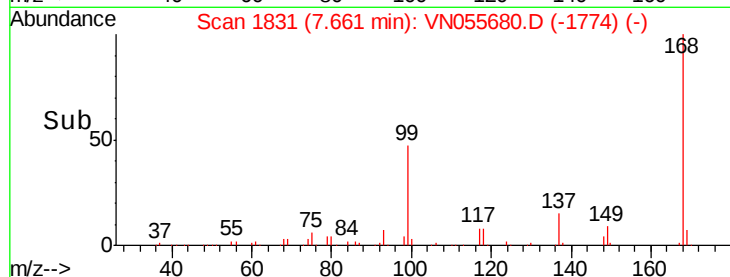
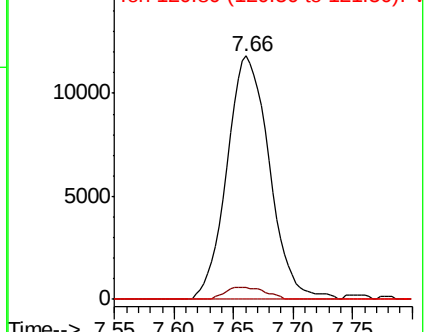
117 100

119 4.8 77.8 116.8#

121 0.0 24.6 37.0#



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



#39

Methylcyclohexane

Concen: 0.270 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VN055680.D

Acq: 20 May 2019 17:41

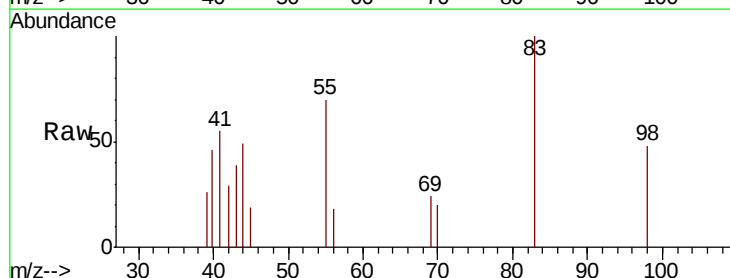
Tgt Ion: 83 Resp: 1473

Ion Ratio Lower Upper

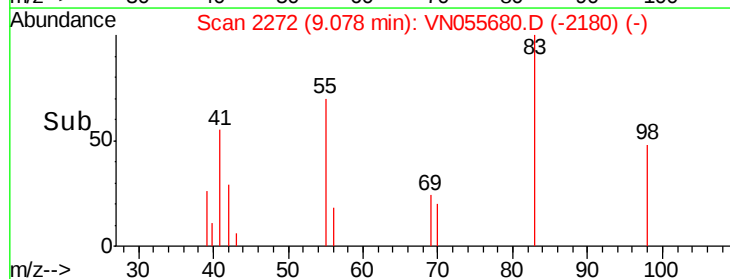
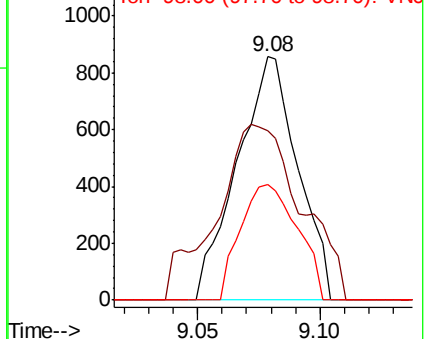
83 100

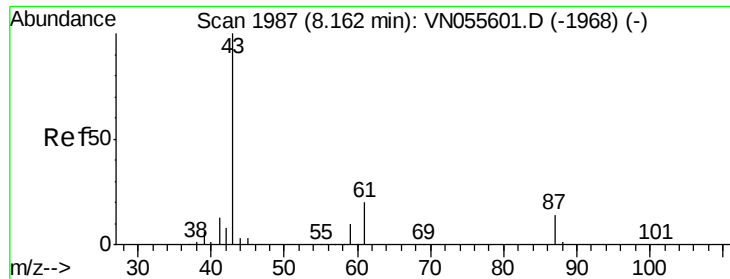
55 51.9 57.8 86.6#

98 47.6 36.7 55.1



Abundance Ion 83.00 (82.70 to 83.70): V  
Ion 55.00 (54.70 to 55.70): V  
Ion 98.00 (97.70 to 98.70): V





#43

Isopropyl Acetate

Concen: 1.381 ug/l

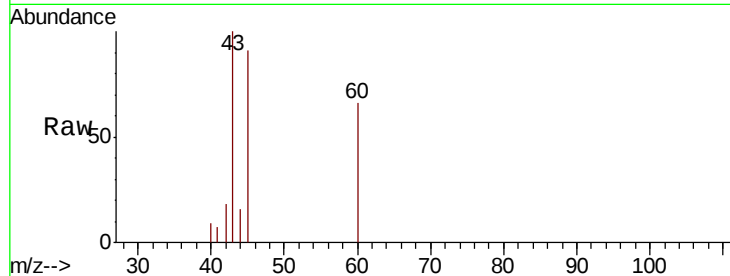
RT: 8.17 min Scan# 1991

Delta R.T. 0.01 min

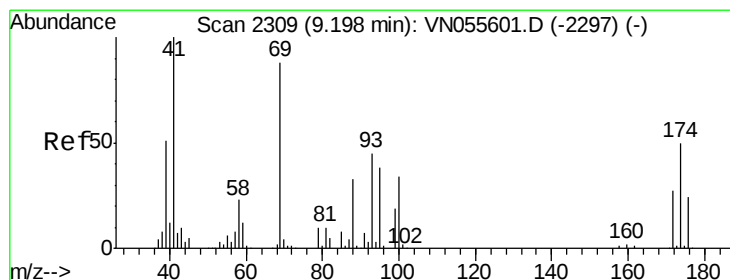
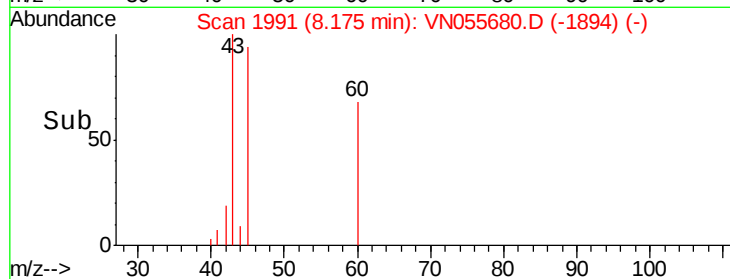
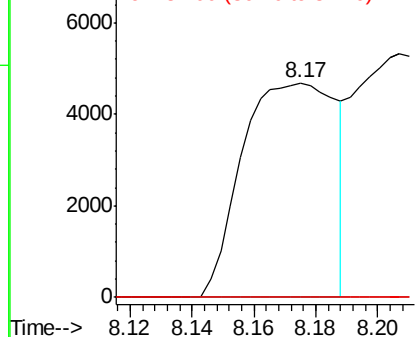
Lab File: VN055680.D

Acq: 20 May 2019 17:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 9824  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 22.1  | 33.1# |
| 87       | 0.0   | 11.8  | 17.6# |



Abundance Ion 43.00 (42.70 to 43.70): VNO  
Ion 61.00 (60.70 to 61.70): VNO  
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 0.336 ug/l

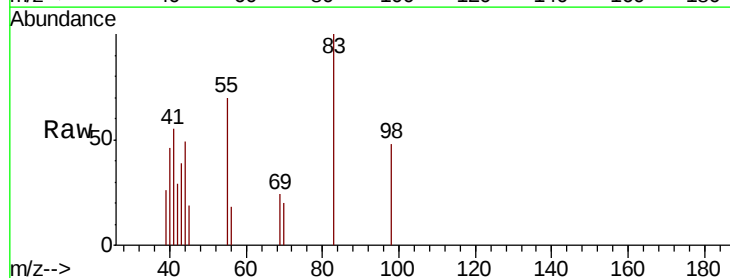
RT: 9.08 min Scan# 2272

Delta R.T. -0.12 min

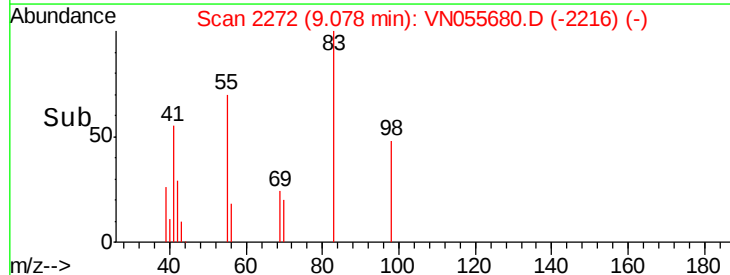
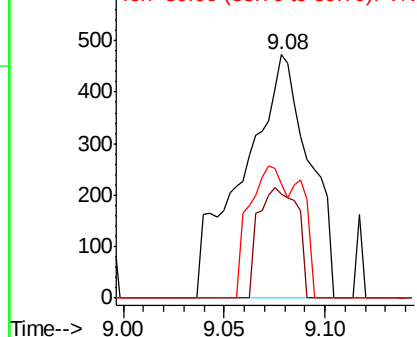
Lab File: VN055680.D

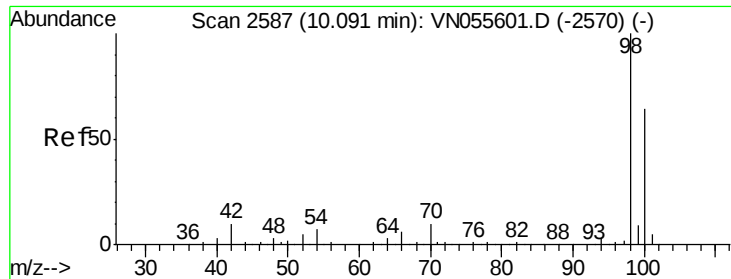
Acq: 20 May 2019 17:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 1069   |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 27.2  | 74.2  | 111.2# |
| 39       | 30.9  | 43.8  | 65.8#  |



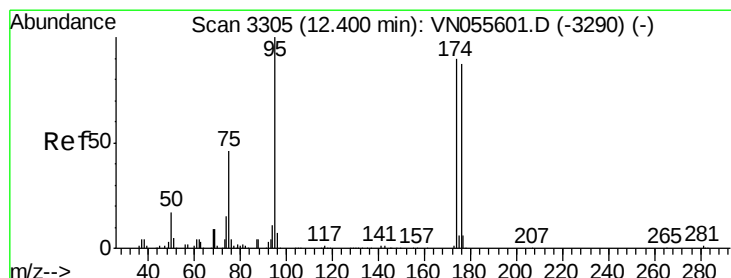
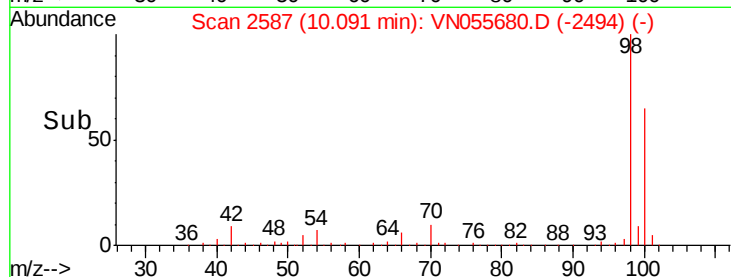
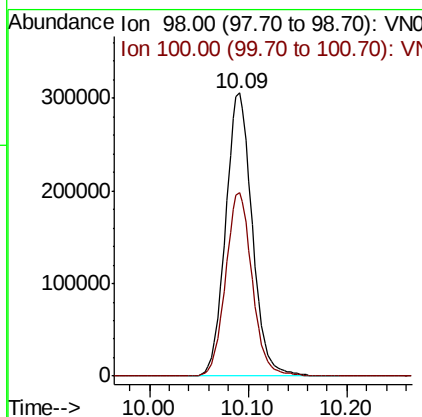
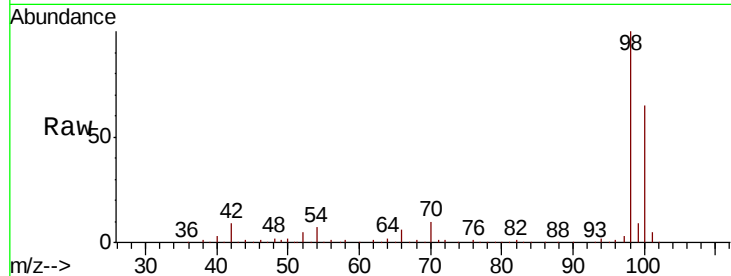
Abundance Ion 41.00 (40.70 to 41.70): VNO  
Ion 69.00 (68.70 to 69.70): VNO  
Ion 39.00 (38.70 to 39.70): VNO





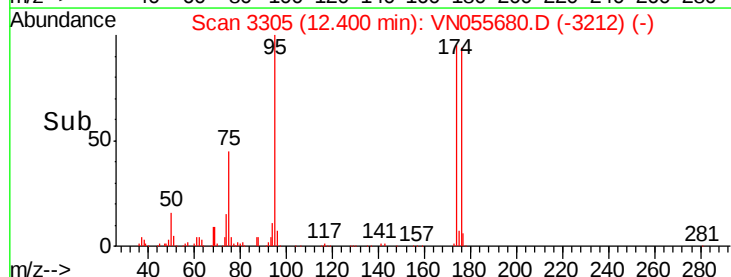
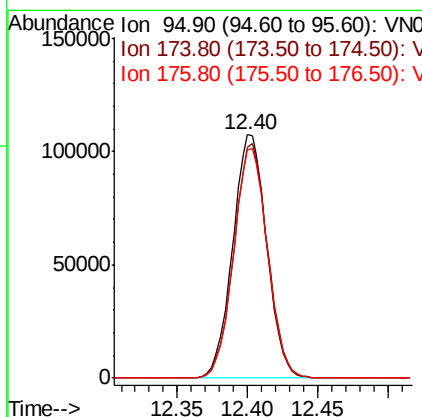
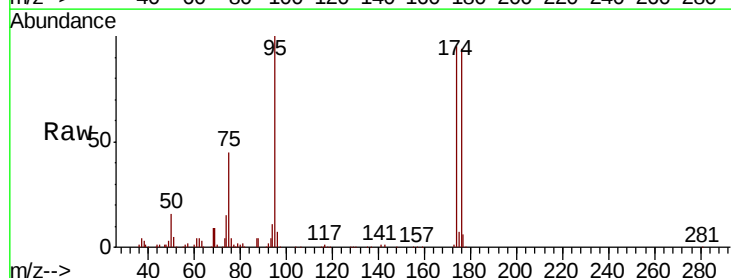
#50  
Toluene-d8  
Concen: 47.320 ug/l  
RT: 10.09 min Scan# 2587  
Delta R.T. -0.00 min  
Lab File: VN055680.D  
Acq: 20 May 2019 17:41

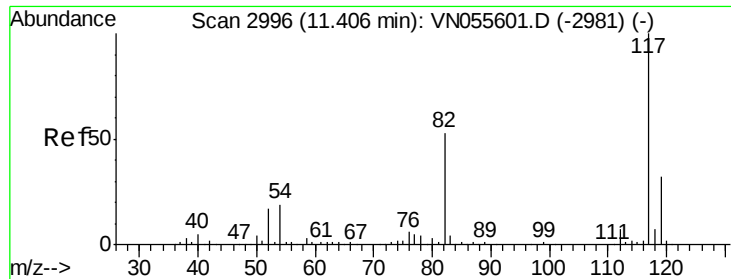
Tgt Ion: 98 Resp: 577622  
Ion Ratio Lower Upper  
98 100  
100 64.6 51.9 77.9



#62  
4-Bromofluorobenzene  
Concen: 43.029 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN055680.D  
Acq: 20 May 2019 17:41

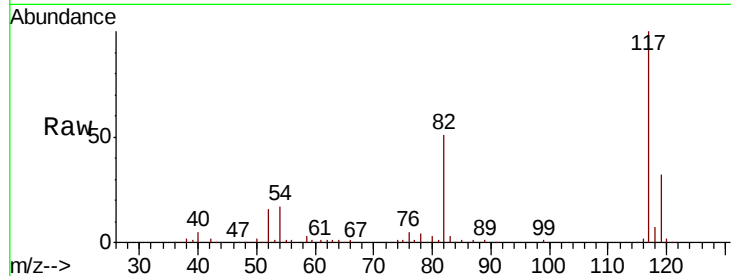
Tgt Ion: 95 Resp: 181377  
Ion Ratio Lower Upper  
95 100  
174 95.6 0.0 180.6  
176 94.1 0.0 177.4



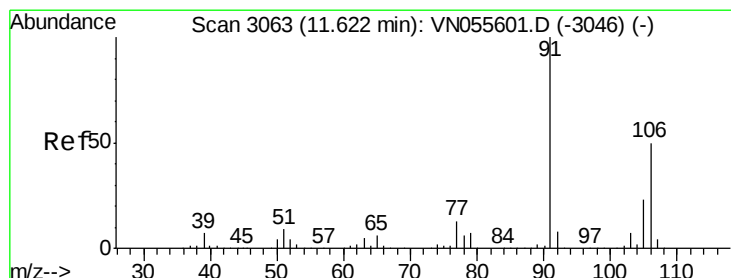
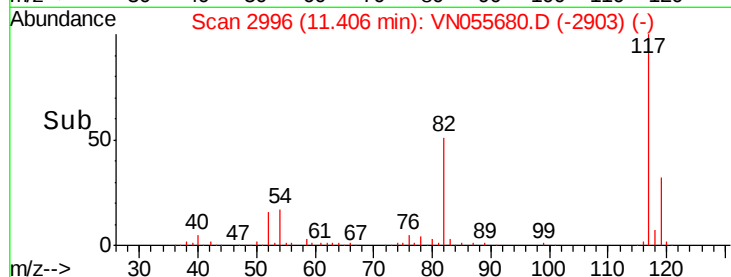
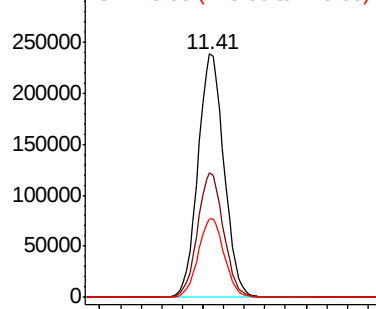


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN055680.D  
Acq: 20 May 2019 17:41

Tgt Ion:117 Resp: 419498  
Ion Ratio Lower Upper  
117 100  
82 51.2 42.3 63.5  
119 32.4 25.4 38.2

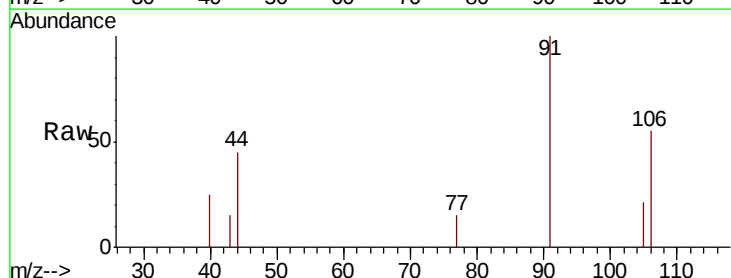


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VN0  
Ion 118.90 (118.60 to 119.60): V

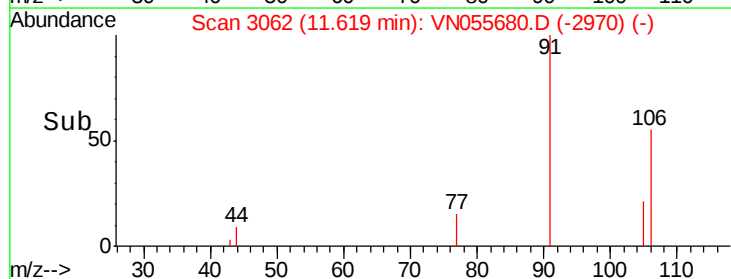
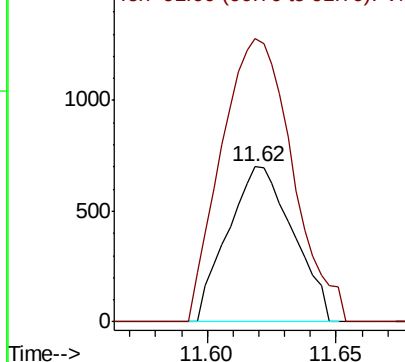


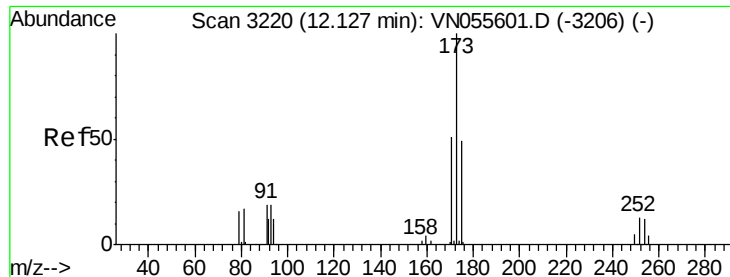
#68  
m/p-Xylenes  
Concen: 0.217 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN055680.D  
Acq: 20 May 2019 17:41

Tgt Ion:106 Resp: 1236  
Ion Ratio Lower Upper  
106 100  
91 199.4 160.5 240.7



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN0





#71

Bromoform

Concen: 0.416 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055680.D

Acq: 20 May 2019 17:41

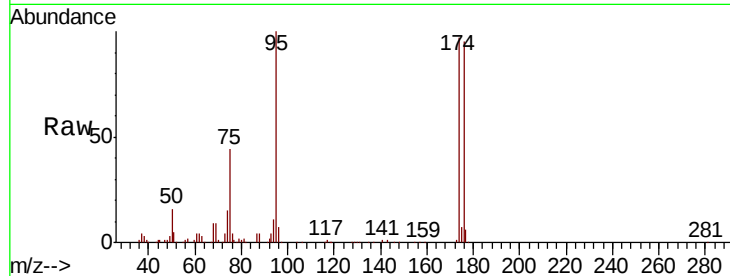
Tgt Ion:173 Resp: 1202

Ion Ratio Lower Upper

173 100

175 940.6 24.3 72.9#

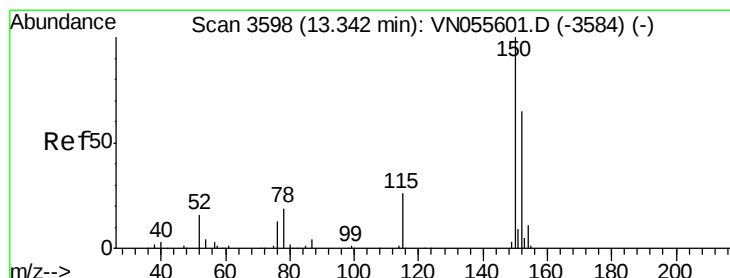
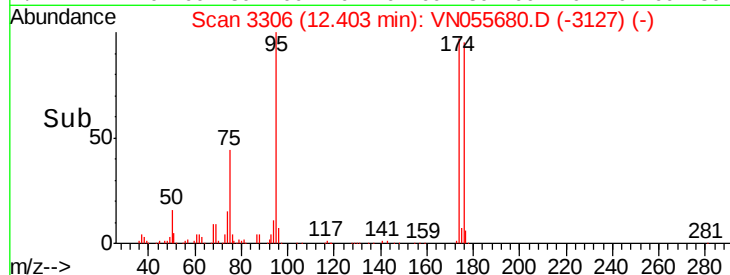
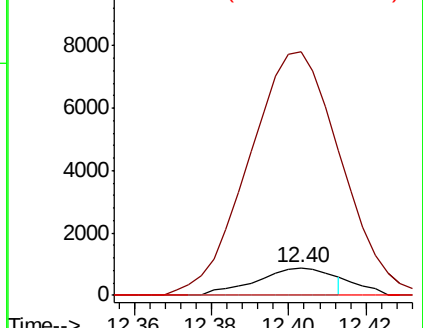
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN055680.D

Acq: 20 May 2019 17:41

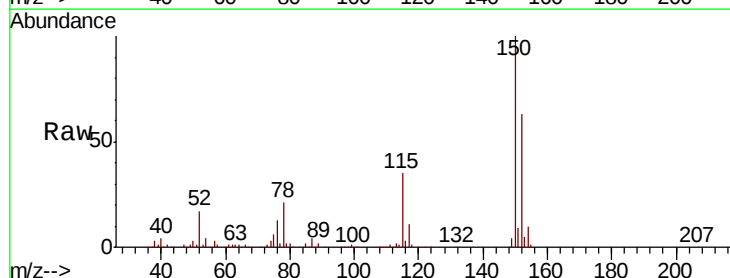
Tgt Ion:152 Resp: 176247

Ion Ratio Lower Upper

152 100

115 54.6 28.1 84.2

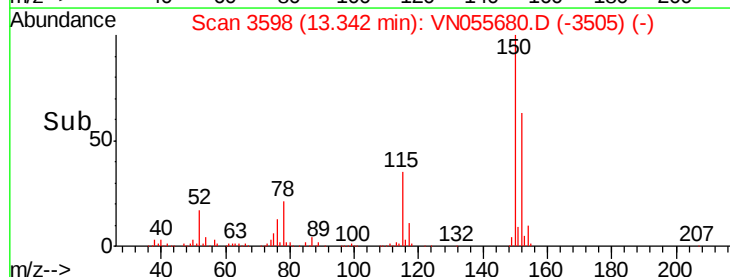
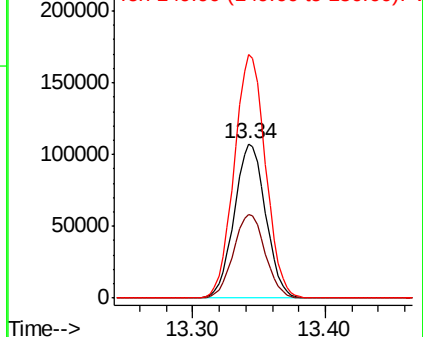
150 157.9 0.0 348.0

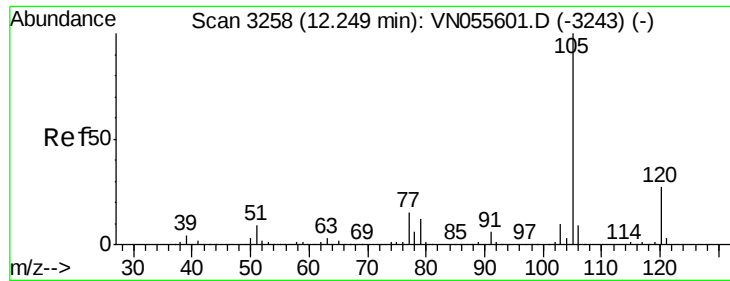


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055680.D

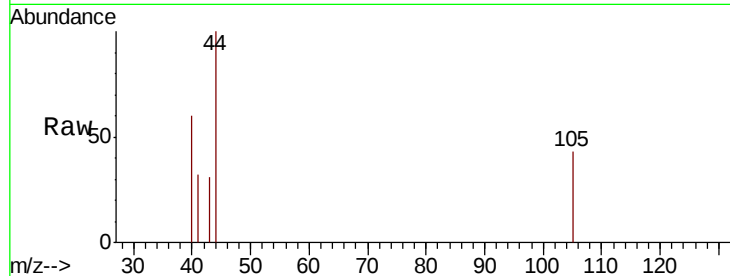
Acq: 20 May 2019 17:41

Tgt Ion: 105 Resp: 257

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

200

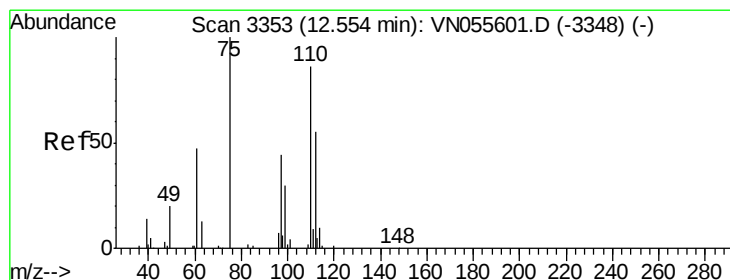
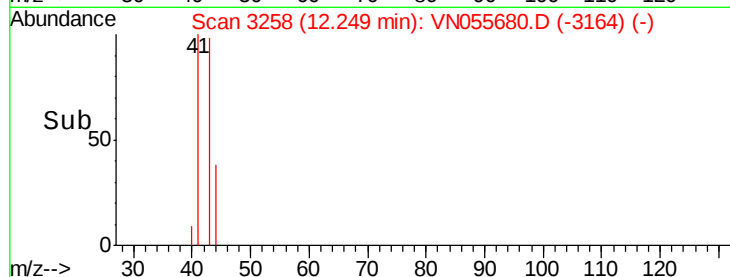
150

100

50

0

Time--> 12.22 12.24 12.26



#76

1,2,3-Trichloropropane

Concen: 22.774 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055680.D

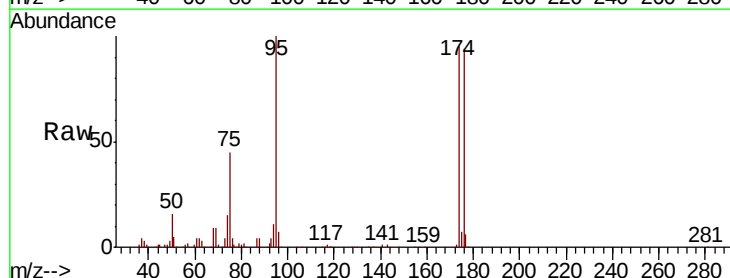
Acq: 20 May 2019 17:41

Tgt Ion: 75 Resp: 81905

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

12.40

50000

40000

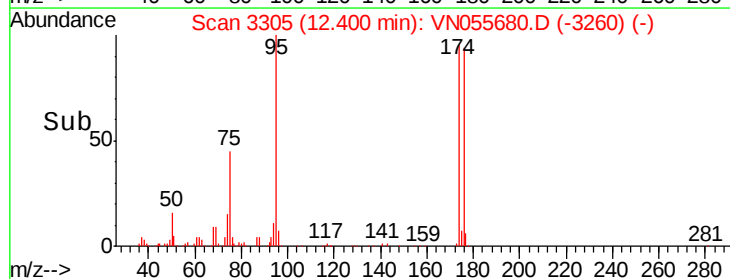
30000

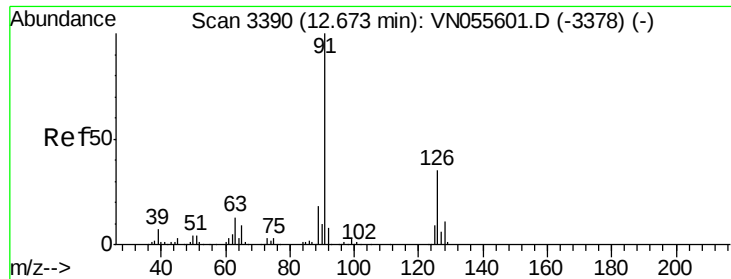
20000

10000

0

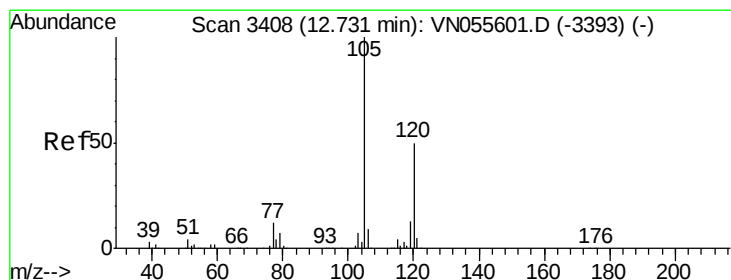
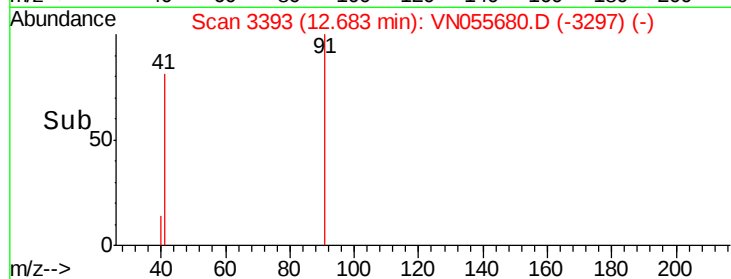
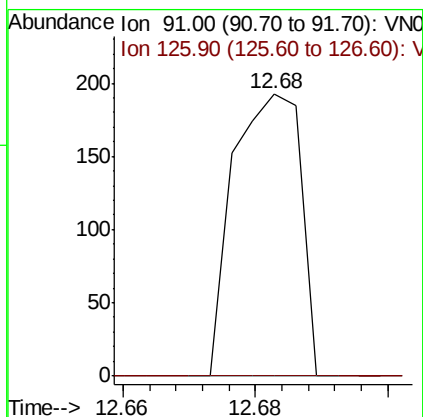
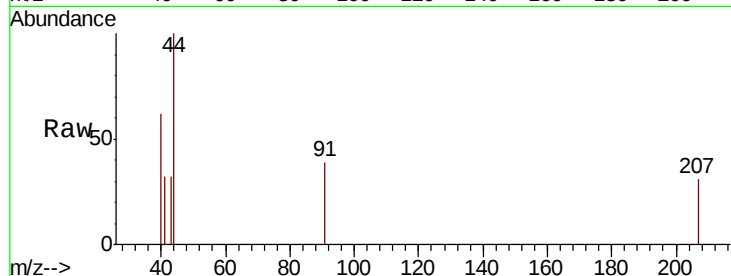
Time--> 12.35 12.40 12.45





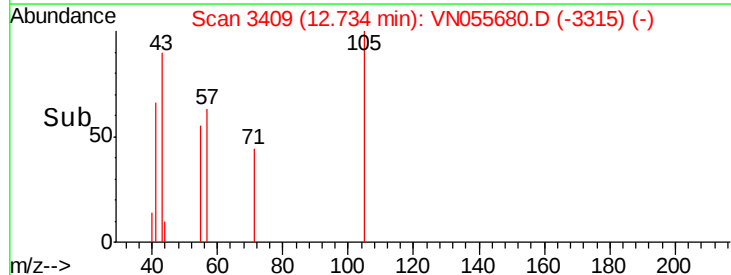
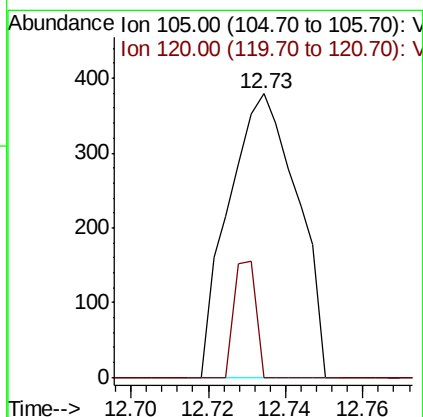
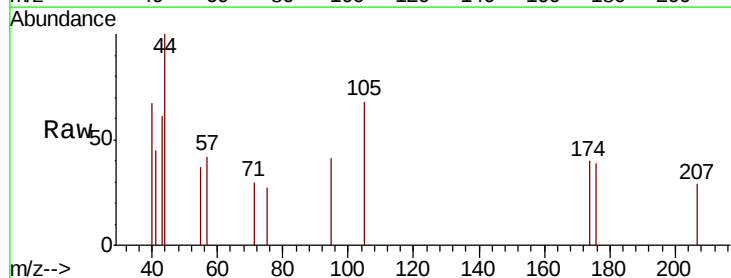
#79  
 2-Chlorotoluene  
 Concen: Below Cal  
 RT: 12.68 min Scan# 3393  
 Delta R.T. 0.01 min  
 Lab File: VN055680.D  
 Acq: 20 May 2019 17:41

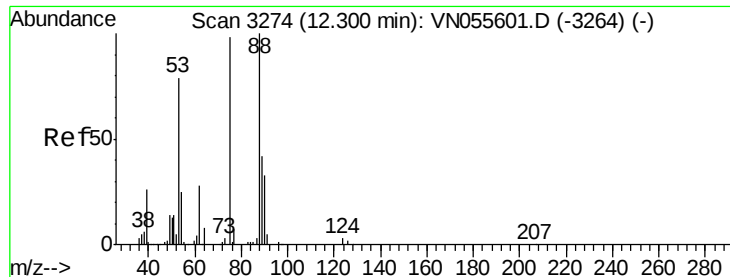
Tgt Ion: 91 Resp: 136  
 Ion Ratio Lower Upper  
 91 100  
 126 0.0 17.8 53.4#



#80  
 1,3,5-Trimethylbenzene  
 Concen: Below Cal  
 RT: 12.73 min Scan# 3409  
 Delta R.T. 0.00 min  
 Lab File: VN055680.D  
 Acq: 20 May 2019 17:41

Tgt Ion: 105 Resp: 466  
 Ion Ratio Lower Upper  
 105 100  
 120 12.7 24.6 74.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 58.544 ug/l

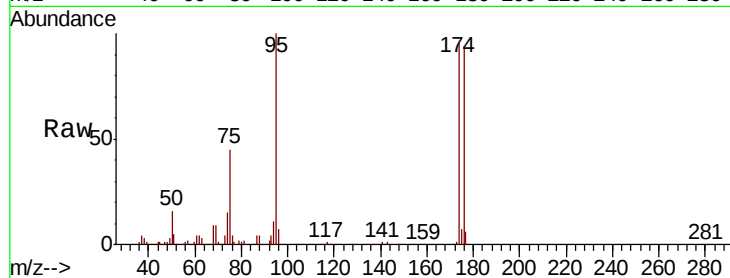
RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055680.D

Acq: 20 May 2019 17:41

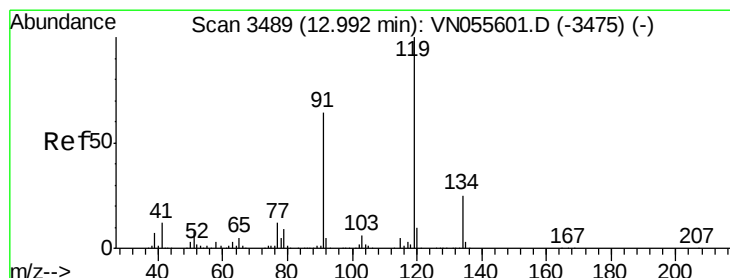
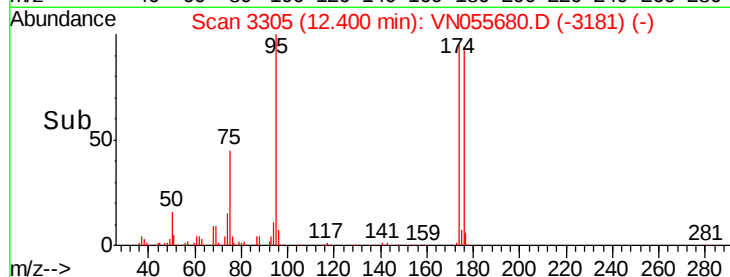
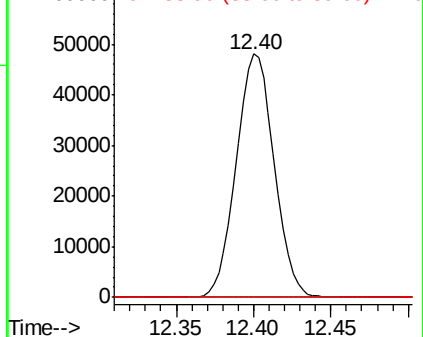
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 81905 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 0.0   | 65.1  | 97.7# |
| 89       | 0.0   | 36.4  | 54.6# |



Abundance Ion 74.90 (74.60 to 75.60): VN055680.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN055680.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN055680.D (-3305) (-)



#83

tert-Butylbenzene

Concen: Below Cal

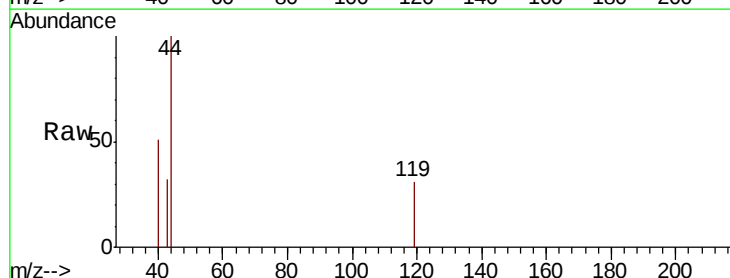
RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055680.D

Acq: 20 May 2019 17:41

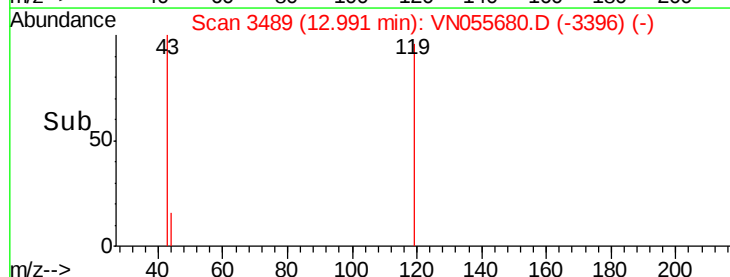
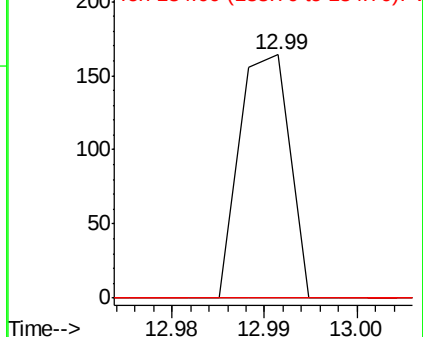
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 62    |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 0.0   | 31.3  | 93.8# |
| 134      | 0.0   | 13.2  | 39.6# |

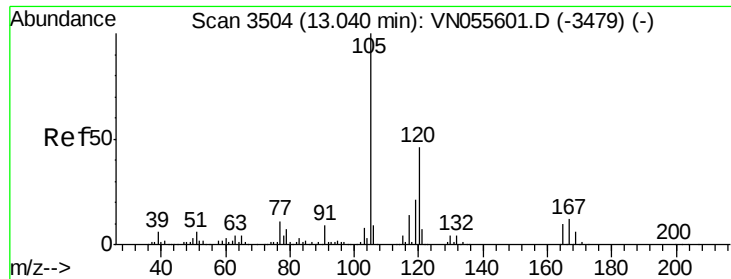


Abundance Ion 119.00 (118.70 to 119.70): VN055680.D (-3489) (-)

Ion 91.00 (90.70 to 91.70): VN055680.D (-3489) (-)

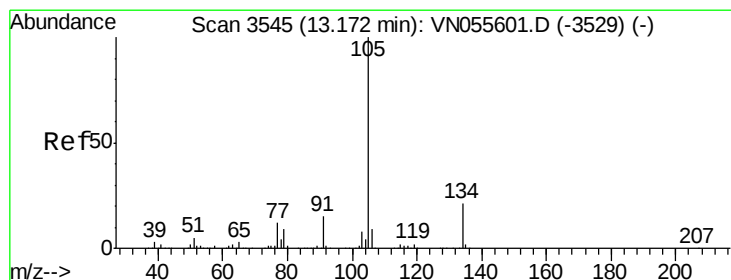
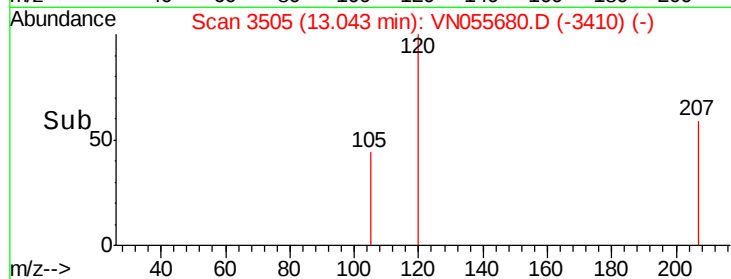
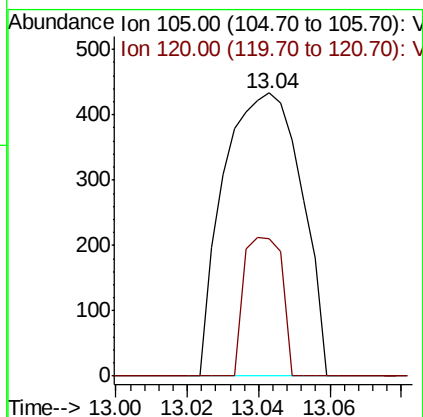
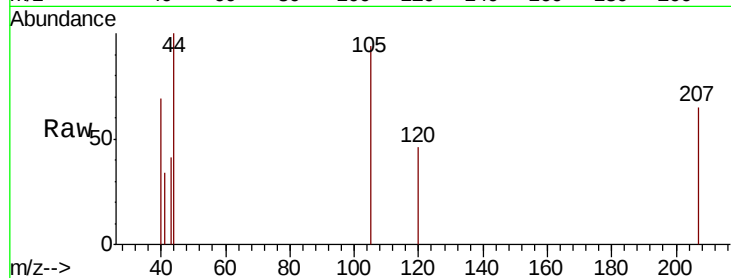
Ion 134.00 (133.70 to 134.70): VN055680.D (-3489) (-)





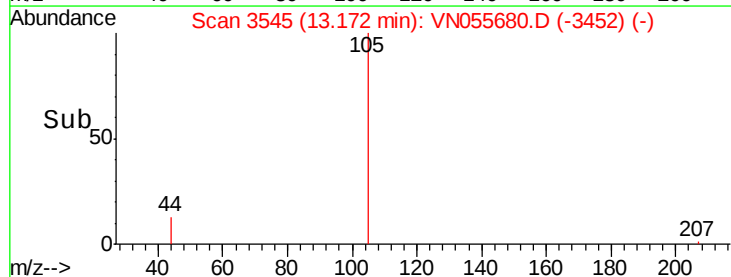
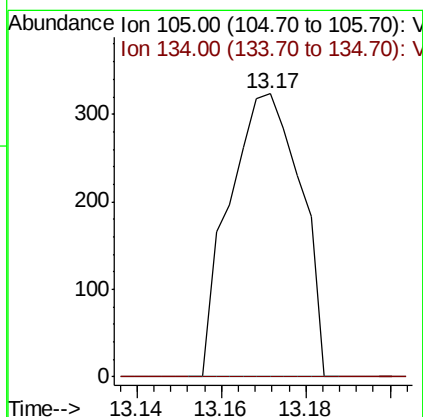
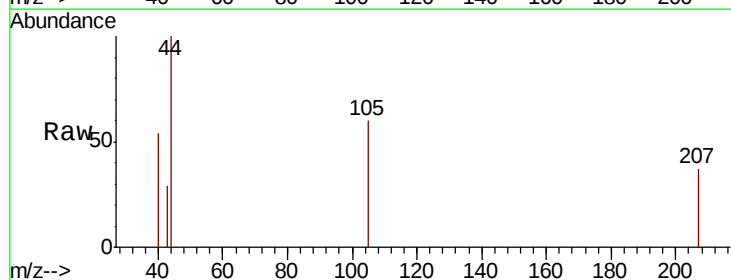
#84  
 1,2,4-Trimethylbenzene  
 Concen: Below Cal  
 RT: 13.04 min Scan# 3505  
 Delta R.T. 0.00 min  
 Lab File: VN055680.D  
 Acq: 20 May 2019 17:41

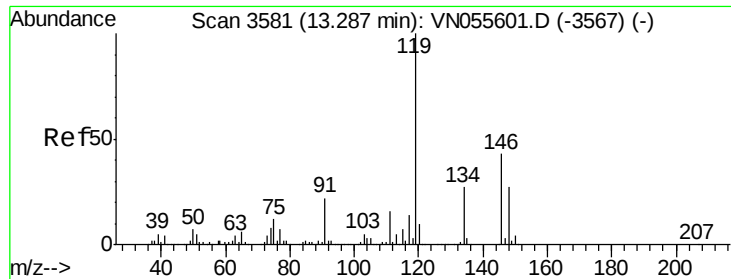
Tgt Ion:105 Resp: 651  
 Ion Ratio Lower Upper  
 105 100  
 120 24.0 23.1 69.2



#85  
 sec-Butylbenzene  
 Concen: Below Cal  
 RT: 13.17 min Scan# 3545  
 Delta R.T. 0.00 min  
 Lab File: VN055680.D  
 Acq: 20 May 2019 17:41

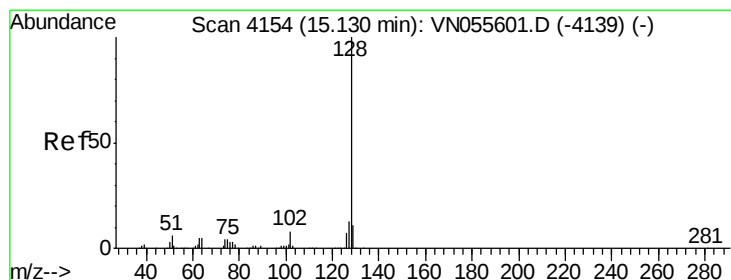
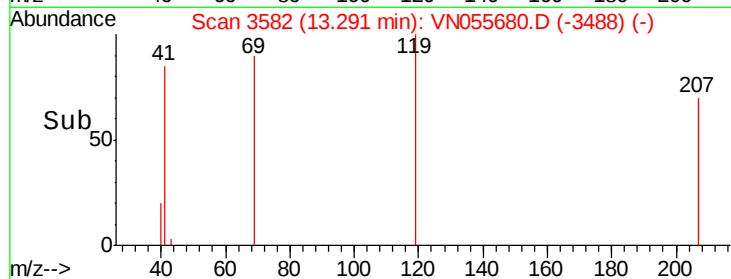
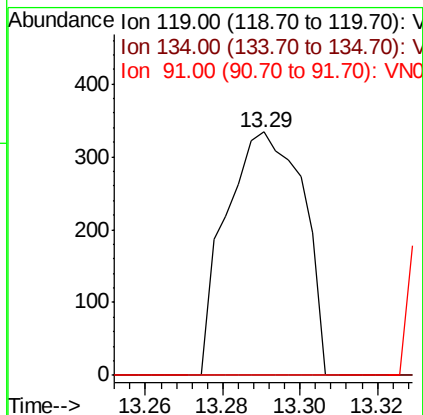
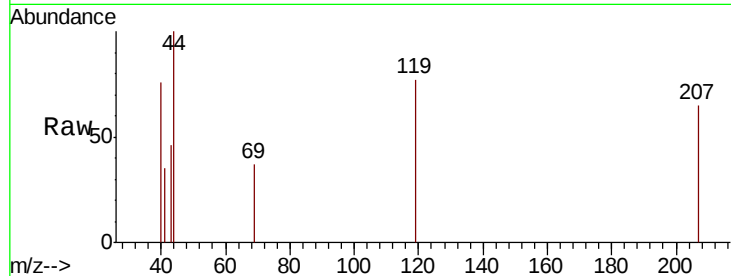
Tgt Ion:105 Resp: 379  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 10.3 30.9#





#86  
p-Isopropyltoluene  
Concen: Below Cal  
RT: 13.29 min Scan# 3582  
Delta R.T. 0.00 min  
Lab File: VN055680.D  
Acq: 20 May 2019 17:41

Tgt Ion:119 Resp: 462  
Ion Ratio Lower Upper  
119 100  
134 0.0 13.4 40.2#  
91 0.0 11.0 33.0#



#95  
Naphthalene  
Concen: 1.979 ug/l  
RT: 15.14 min Scan# 4156  
Delta R.T. 0.01 min  
Lab File: VN055680.D  
Acq: 20 May 2019 17:41

Tgt Ion:128 Resp: 2040  
Ion Ratio Lower Upper  
128 100  
127 9.6 10.2 15.4#  
129 9.8 8.6 12.8

