

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN020419\  
 Data File : VN053592.D  
 Acq On : 4 Feb 2019 13:16  
 Operator : JC/SP  
 Sample : K1299-02  
 Misc : 5.04g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 8 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 0036-COMP-2

Quant Time: Feb 05 01:25:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N013019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 01 09:11:52 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 702973   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1140049  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1061296  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 490721   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.02  | 65   | 363087   | 51.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.98% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 351318   | 48.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.54%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1402256  | 51.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.68% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 472165   | 52.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.68% |          |

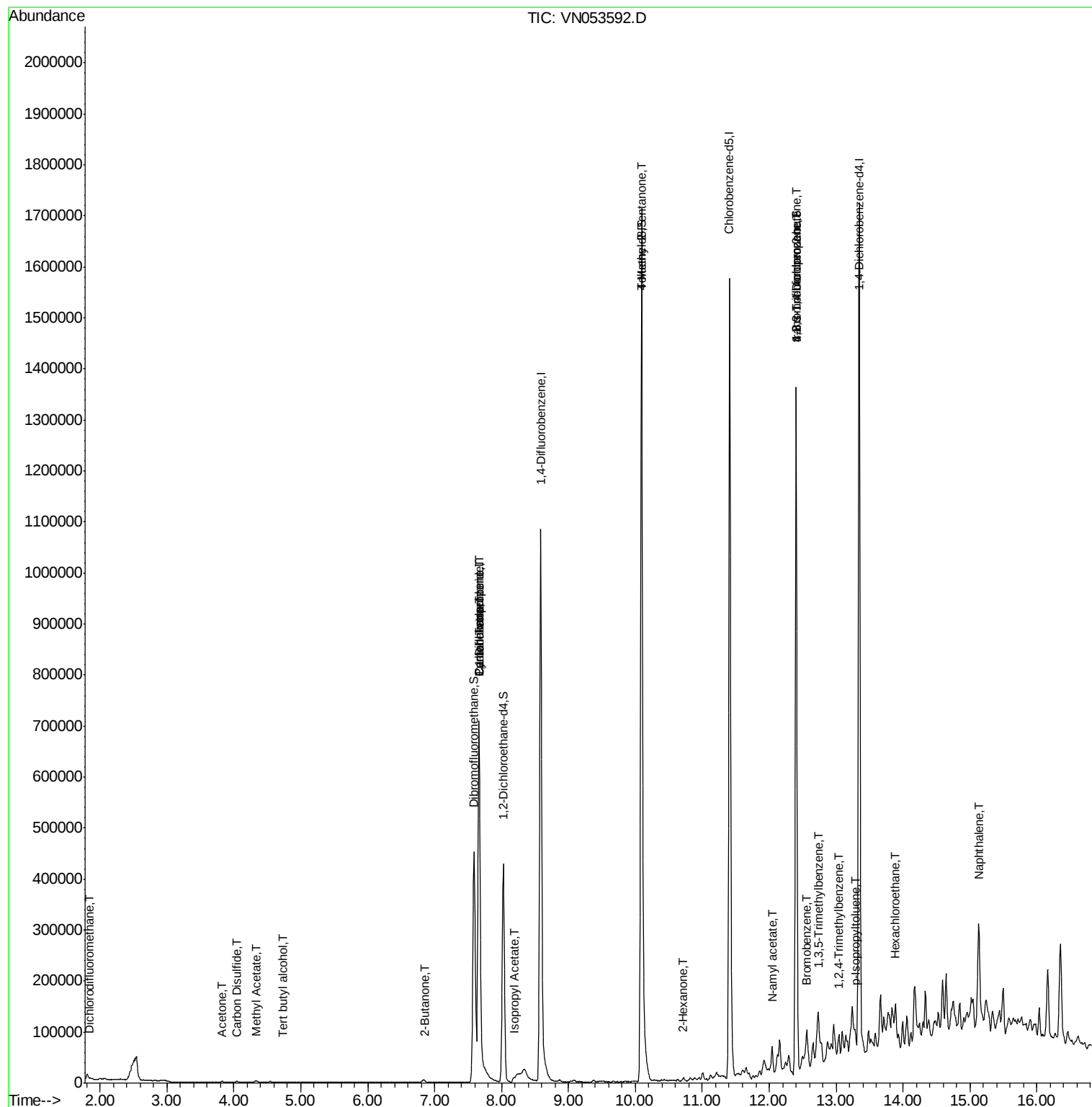
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.85  | 85   | 136      | 0.355  | ug/l # | 42     |
| 11) Tert butyl alcohol         | 4.74  | 59   | 684      | 1.639  | ug/l # | 72     |
| 16) Acetone                    | 3.82  | 43   | 3825     | 2.115  | ug/l   | 89     |
| 17) Carbon Disulfide           | 4.04  | 76   | 4841     | 0.239  | ug/l # | 84     |
| 18) Methyl Acetate             | 4.33  | 43   | 7328     | 1.368  | ug/l # | 74     |
| 25) 2-Butanone                 | 6.86  | 43   | 1216     | 0.471  | ug/l # | 47     |
| 31) Cyclohexane                | 7.66  | 56   | 10800    | 0.739  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.66  | 75   | 42373    | 4.123  | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.66  | 117  | 56541    | 5.461  | ug/l # | 15     |
| 43) Isopropyl Acetate          | 8.18  | 43   | 5383     | 0.486  | ug/l # | 51     |
| 51) 4-Methyl-2-Pentanone       | 10.09 | 43   | 4998     | 0.918  | ug/l # | 1      |
| 59) 2-Hexanone                 | 10.72 | 43   | 3251     | 0.879  | ug/l # | 22     |
| 74) N-amyl acetate             | 12.04 | 43   | 12109    | 1.460  | ug/l # | 63     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 222496   | 35.300 | ug/l # | 100    |
| 77) Bromobenzene               | 12.55 | 156  | 16543    | 1.779  | ug/l # | 1      |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 15975    | 0.558  | ug/l   | 92     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 222496   | 99.261 | ug/l # | 15     |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 20757    | 0.712  | ug/l   | 95     |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 8255     | 0.274  | ug/l   | 93     |
| 90) Hexachloroethane           | 13.89 | 117  | 2363     | 0.476  | ug/l # | 3      |
| 95) Naphthalene                | 15.13 | 128  | 170090   | 9.353  | ug/l   | 99     |

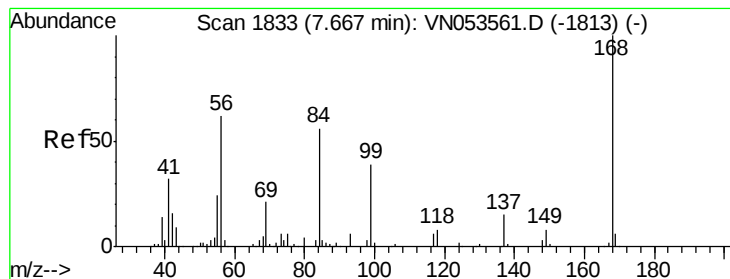
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN020419\  
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Sample : K1299-02  
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ALS Vial : 8 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
0036-COMP-2

Quant Time: Feb 05 01:25:56 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N013019W.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 01 09:11:52 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: VN053592.D

Acq: 4 Feb 2019 13:16

Instrument :

MSVOA\_N

ClientSampleId :

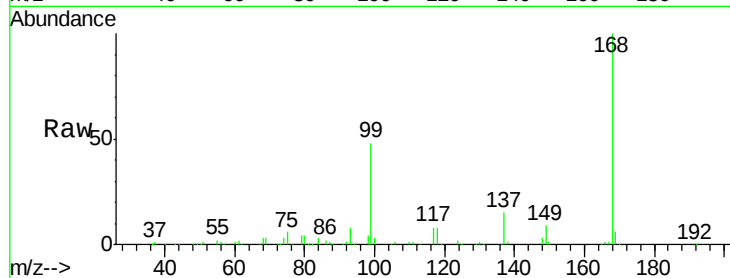
0036-COMP-2

Tot Ion:168 Resp: 702973

Ion Ratio Lower Upper

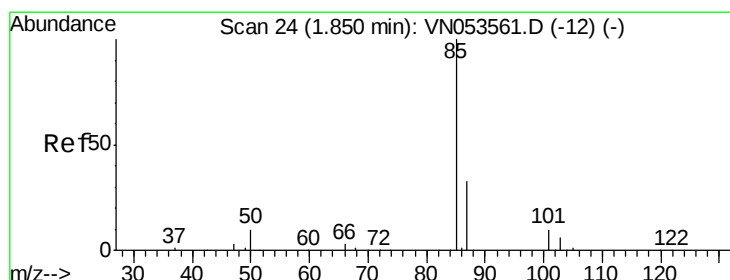
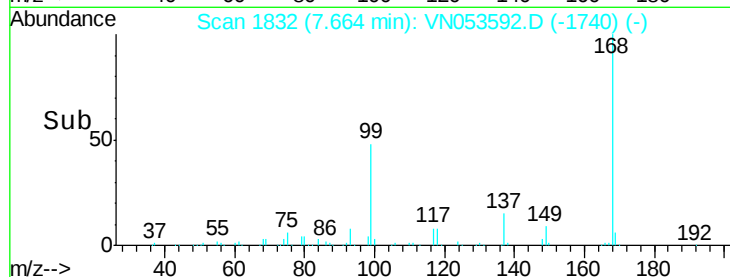
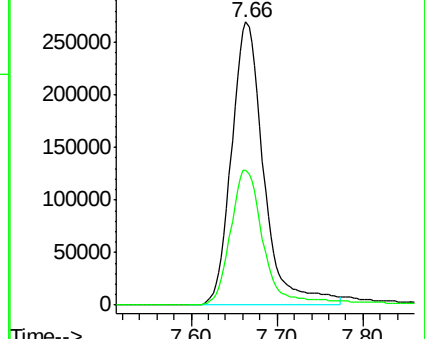
168 100

99 47.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 0.355 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN053592.D

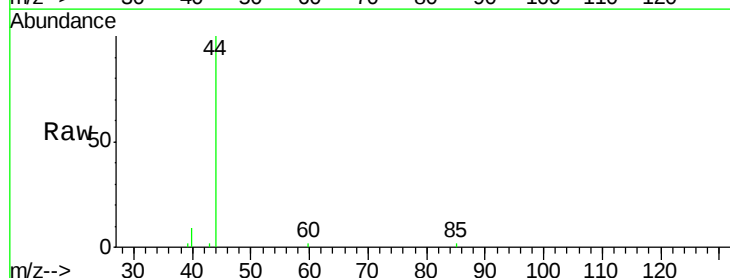
Acq: 4 Feb 2019 13:16

Tgt Ion: 85 Resp: 136

Ion Ratio Lower Upper

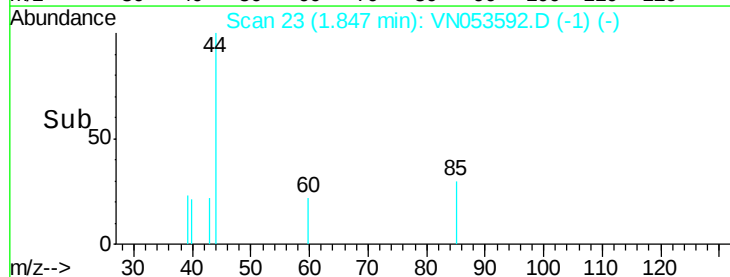
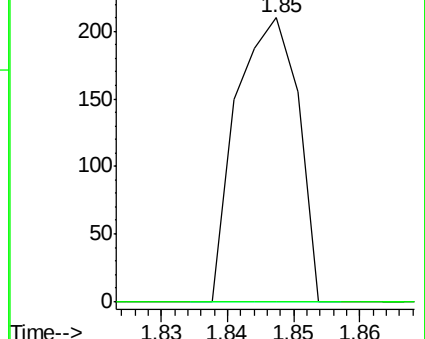
85 100

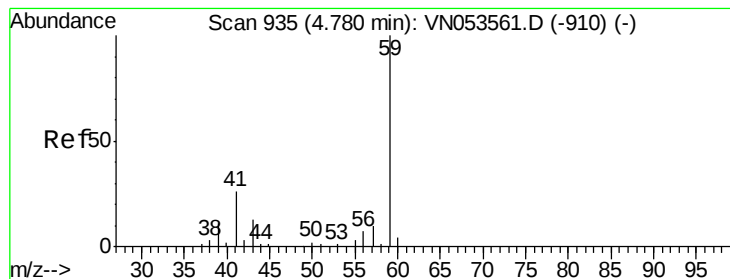
87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO



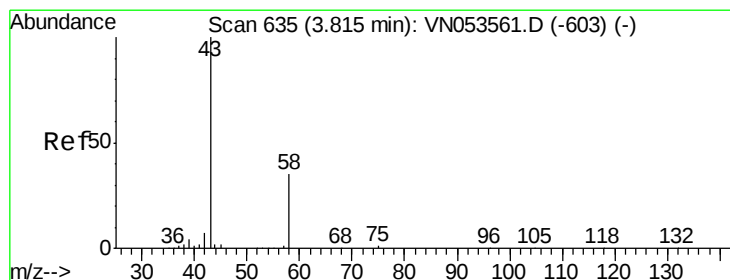
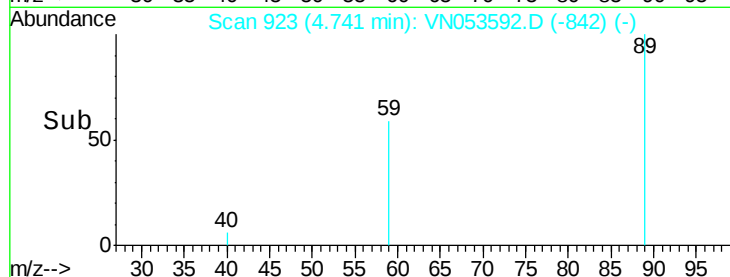
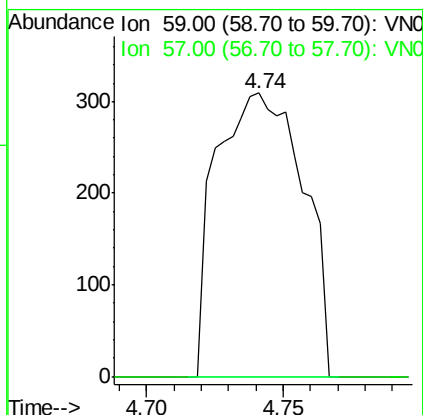
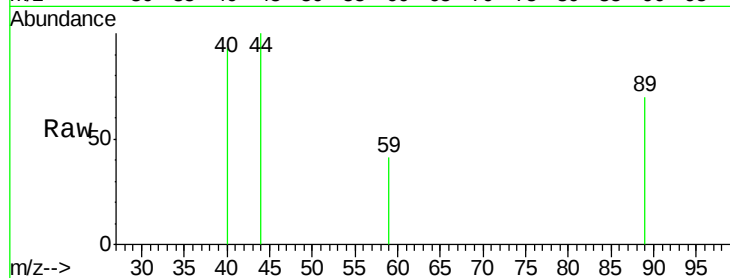


#11

Tert butyl alcohol  
 Concen: 1.639 ug/l  
 RT: 4.74 min Scan# 923  
 Delta R.T. -0.04 min  
 Lab File: VN053592.D  
 Acq: 4 Feb 2019 13:16

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 0036-COMP-2

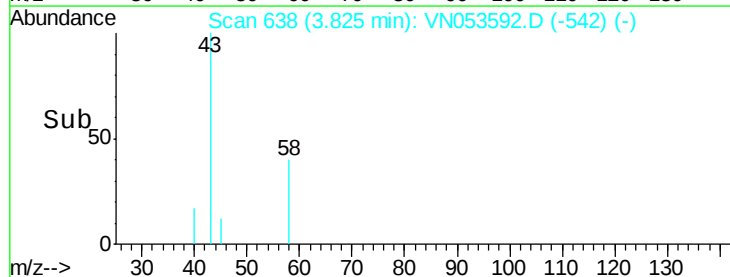
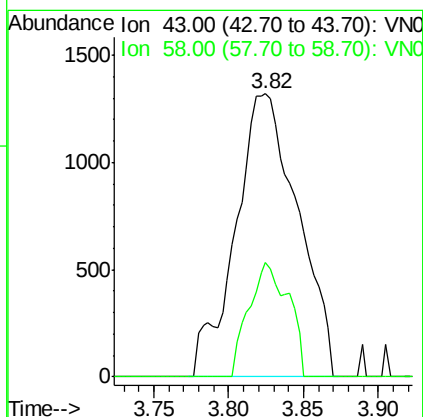
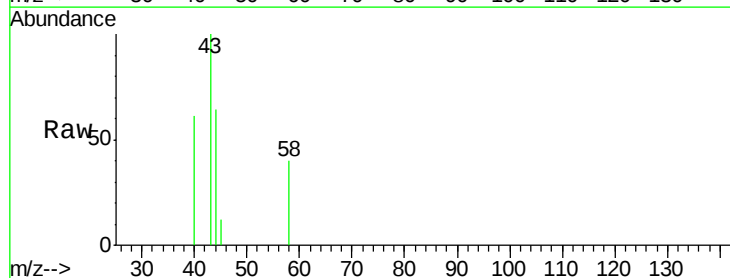
Tot Ion: 59 Resp: 684  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.2 12.4#

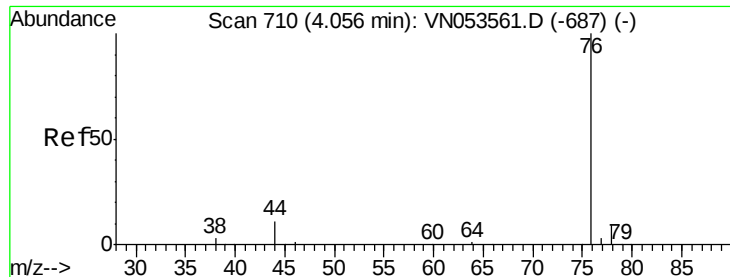


#16

Acetone  
 Concen: 2.115 ug/l  
 RT: 3.82 min Scan# 638  
 Delta R.T. 0.01 min  
 Lab File: VN053592.D  
 Acq: 4 Feb 2019 13:16

Tgt Ion: 43 Resp: 3825  
 Ion Ratio Lower Upper  
 43 100  
 58 40.3 27.1 40.7





#17

Carbon Disulfide

Concen: 0.239 ug/l

RT: 4.04 min Scan# 706

Delta R.T. -0.01 min

Lab File: VN053592.D

Acq: 4 Feb 2019 13:16

Instrument :

MSVOA\_N

ClientSampleId :

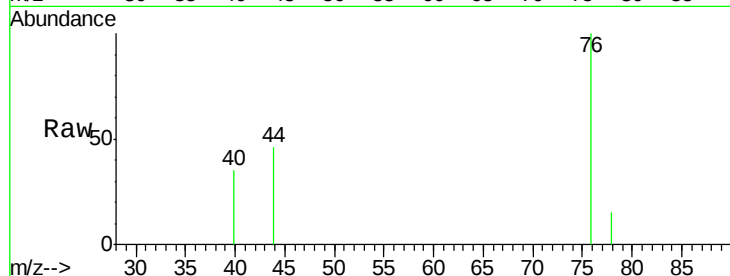
0036-COMP-2

Tot Ion: 76 Resp: 4841

Ion Ratio Lower Upper

76 100

78 14.8 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.04

2000

1500

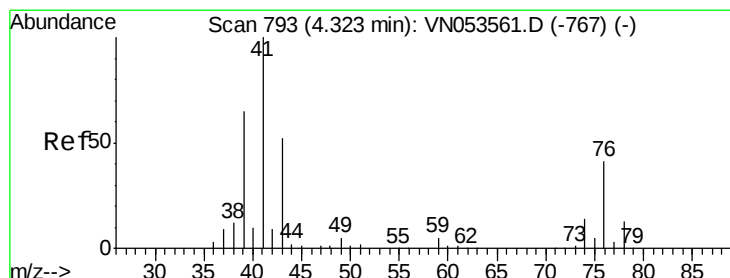
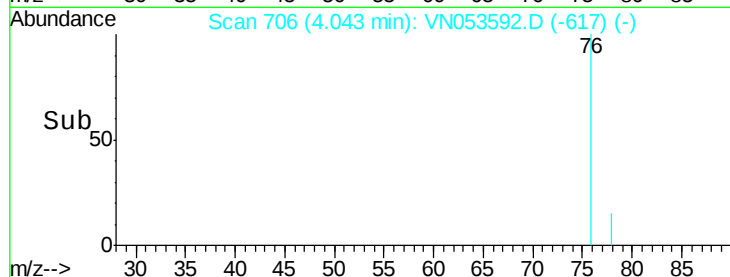
1000

500

0

4.00 4.05 4.10

Time-->



#18

Methyl Acetate

Concen: 1.368 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN053592.D

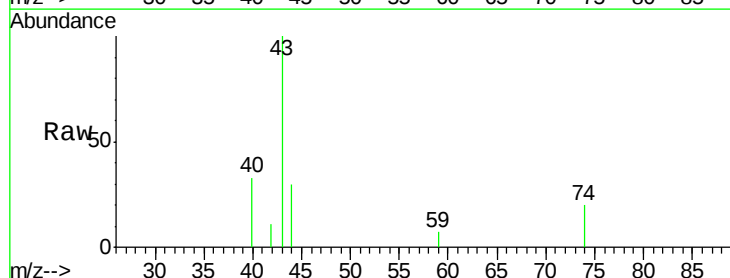
Acq: 4 Feb 2019 13:16

Tgt Ion: 43 Resp: 7328

Ion Ratio Lower Upper

43 100

74 11.6 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

4.33

3000

2500

2000

1500

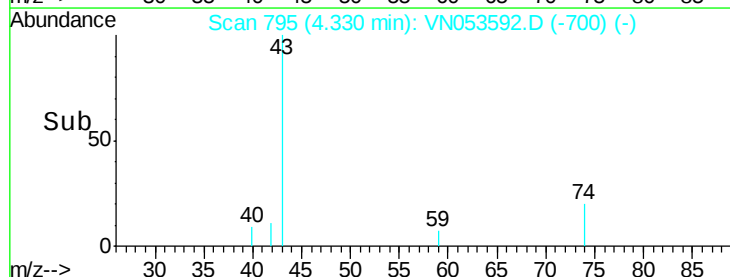
1000

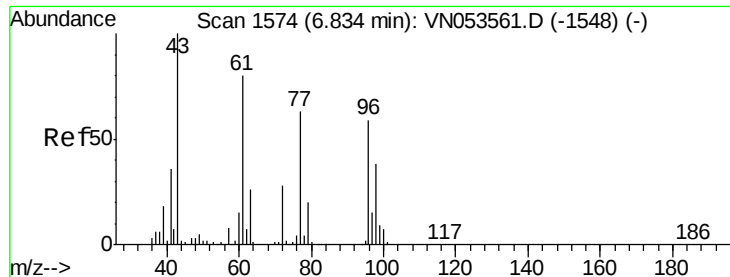
500

0

4.25 4.30 4.35 4.40

Time-->

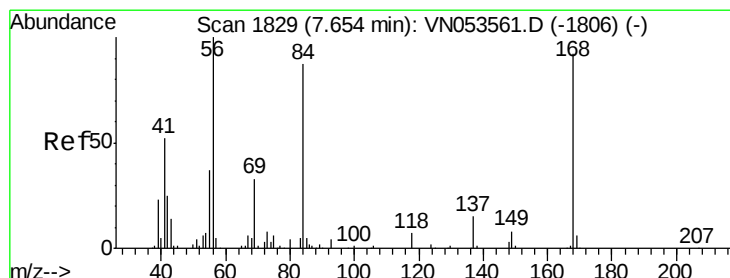
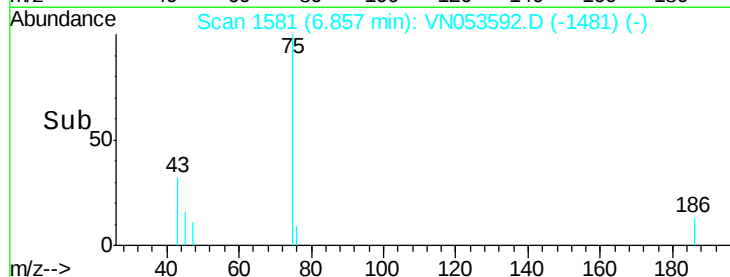
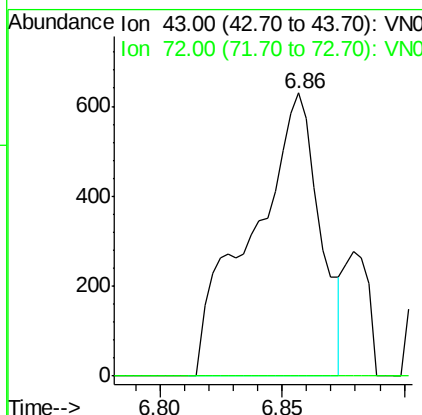
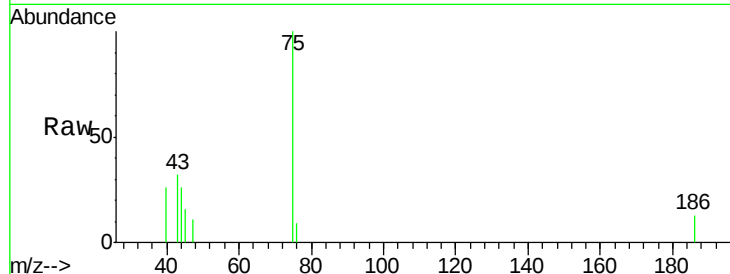




#25  
2-Butanone  
Concen: 0.471 ug/l  
RT: 6.86 min Scan# 1581  
Delta R.T. 0.02 min  
Lab File: VN053592.D  
Acq: 4 Feb 2019 13:16

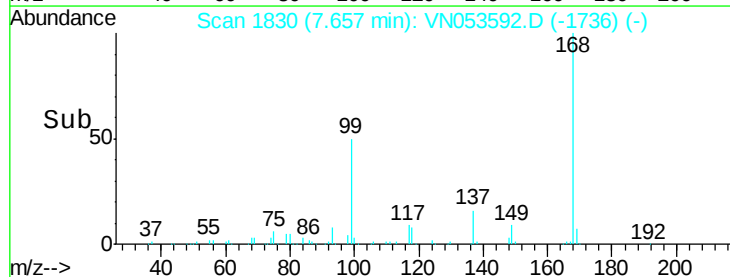
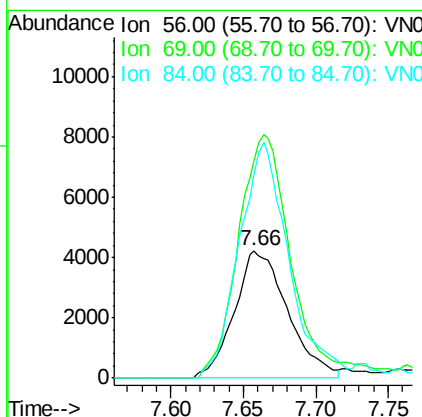
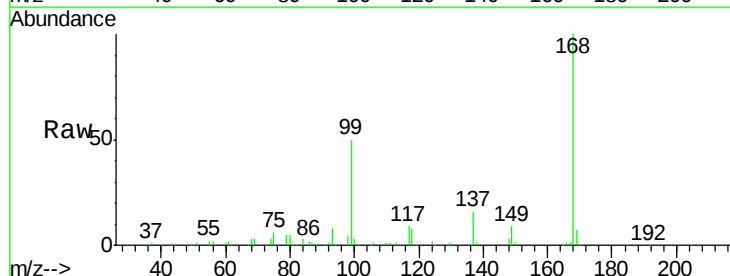
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0036-COMP-2

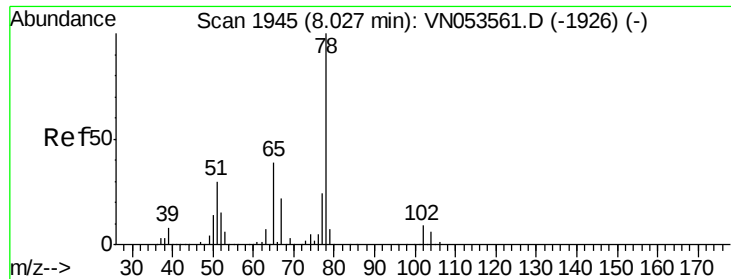
Tot Ion: 43 Resp: 1216  
Ion Ratio Lower Upper  
43 100  
72 0.0 22.0 33.0#



#31  
Cyclohexane  
Concen: 0.739 ug/l  
RT: 7.66 min Scan# 1830  
Delta R.T. 0.00 min  
Lab File: VN053592.D  
Acq: 4 Feb 2019 13:16

Tgt Ion: 56 Resp: 10800  
Ion Ratio Lower Upper  
56 100  
69 169.8 26.4 39.6#  
84 158.4 67.9 101.9#

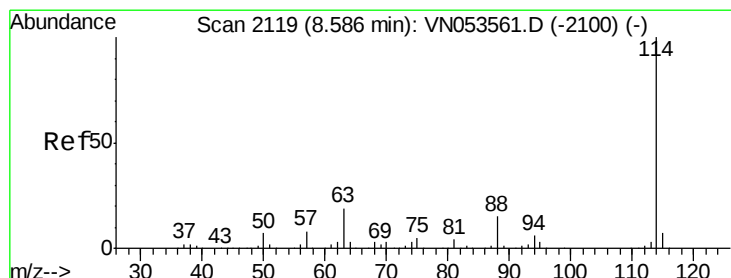
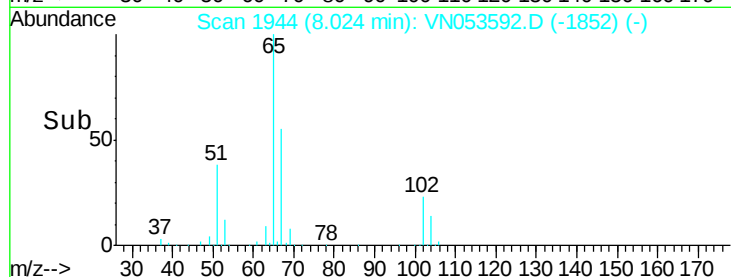
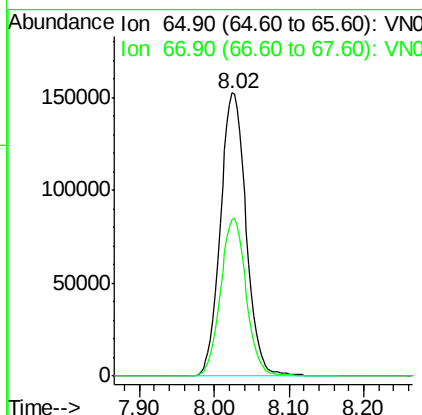
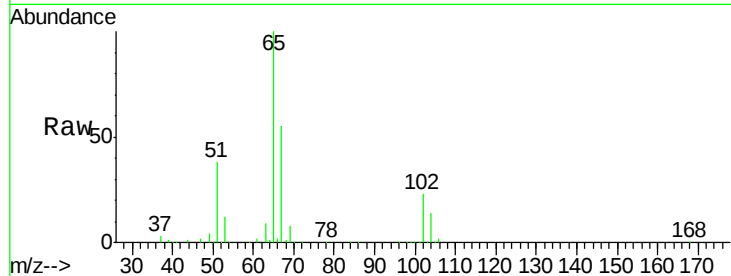




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 8.02 min Scan# 1944  
 Delta R.T. -0.00 min  
 Lab File: VN053592.D  
 Acq: 4 Feb 2019 13:16

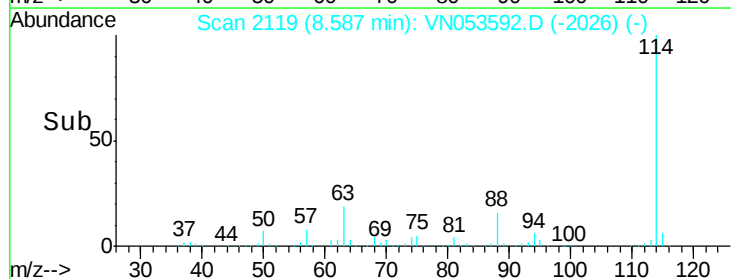
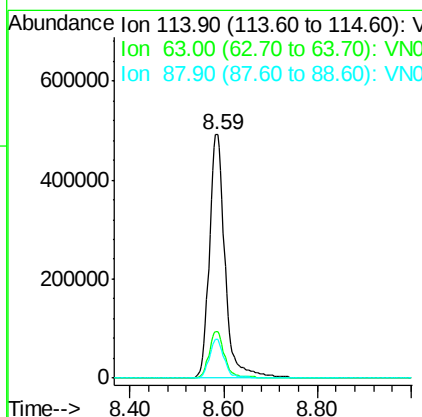
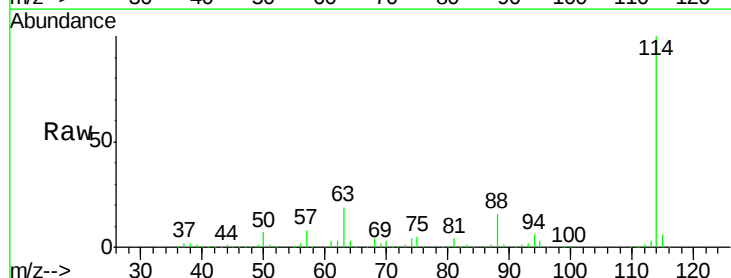
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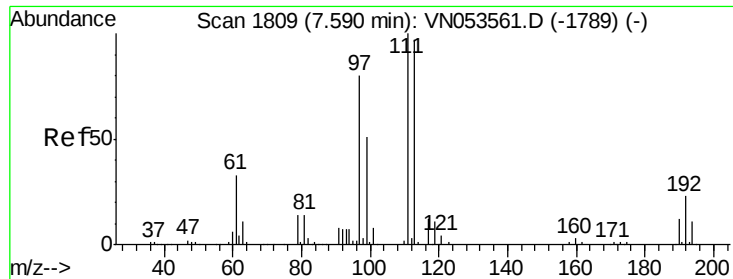
Tot Ion: 65 Resp: 363087  
 Ion Ratio Lower Upper  
 65 100  
 67 55.6 0.0 111.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN053592.D  
 Acq: 4 Feb 2019 13:16

Tgt Ion: 114 Resp: 1140049  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 38.6  
 88 15.7 0.0 30.4

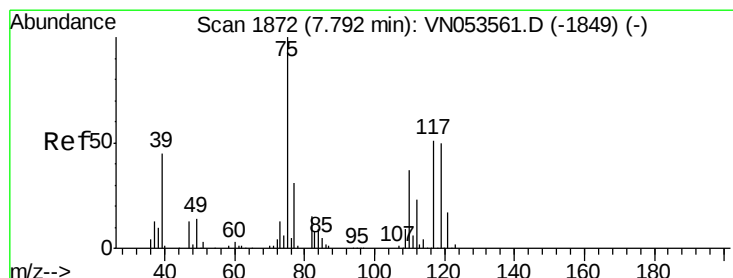
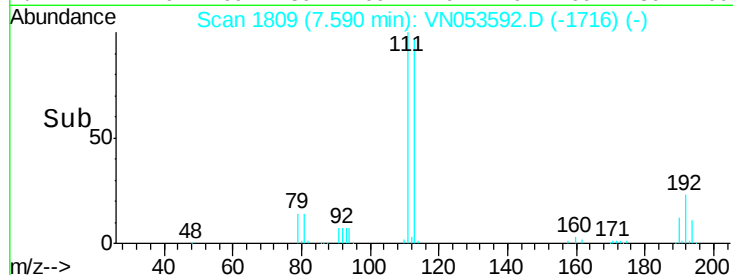
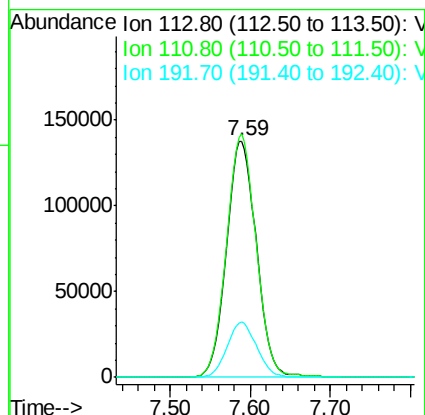
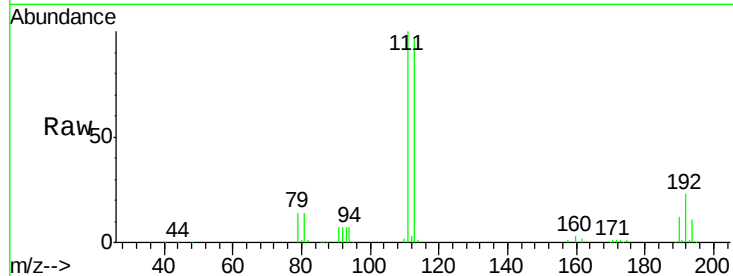




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1809  
 Delta R.T. 0.00 min  
 Lab File: VN053592.D  
 Acq: 4 Feb 2019 13:16

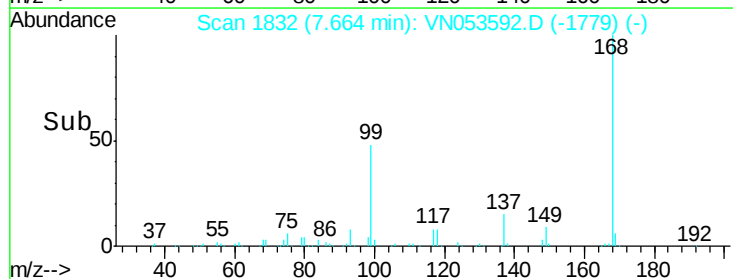
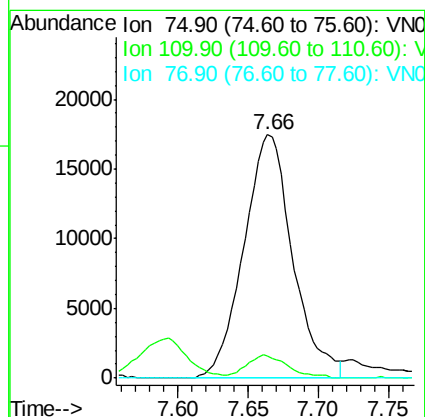
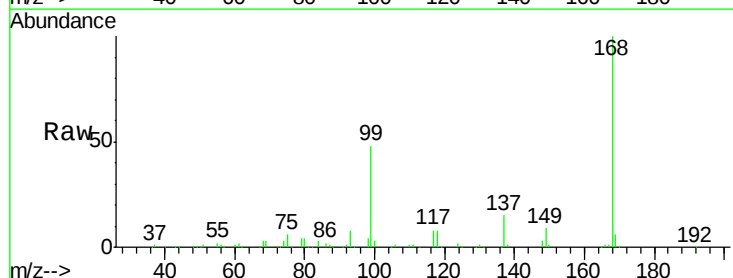
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 0036-COMP-2

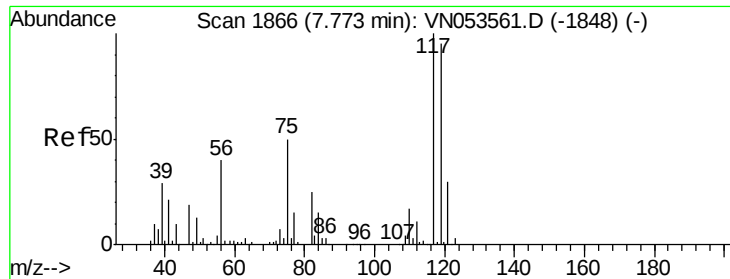
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.9 | 81.1  | 121.7 |
| 192     | 23.2  | 18.2  | 27.2  |



#36  
 1,1-Dichloropropene  
 Concen: 4.123 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.13 min  
 Lab File: VN053592.D  
 Acq: 4 Feb 2019 13:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.0   | 18.1  | 54.3# |
| 77      | 0.0   | 25.1  | 37.7# |

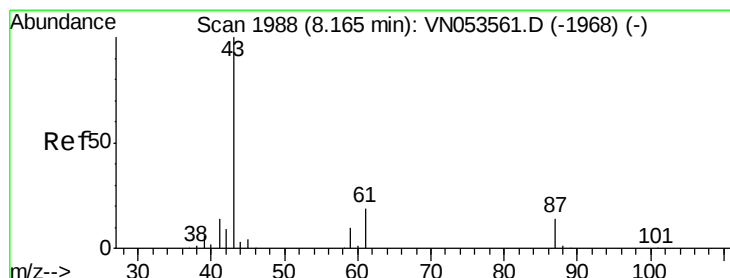
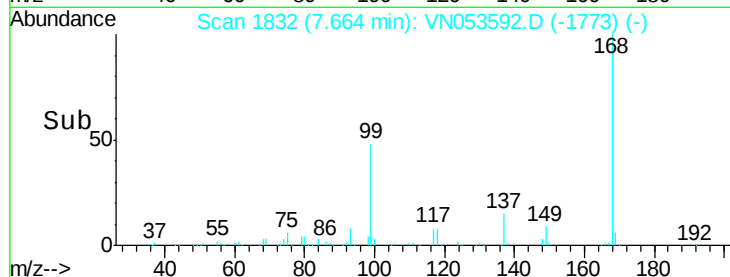
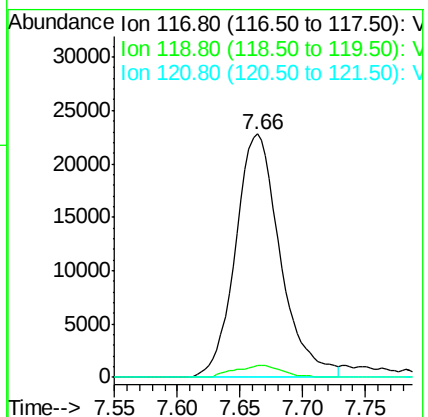
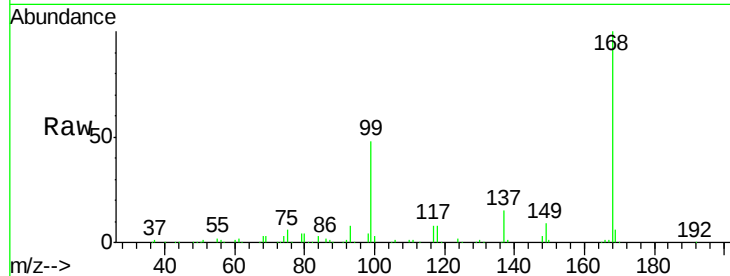




#38  
Carbon Tetrachloride  
Concen: 5.461 ug/l  
RT: 7.66 min Scan# 1832  
Delta R.T. -0.11 min  
Lab File: VN053592.D  
Acq: 4 Feb 2019 13:16

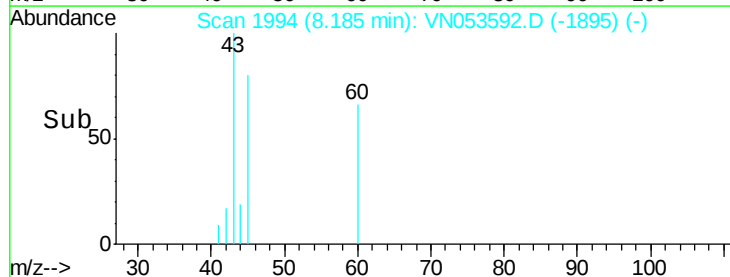
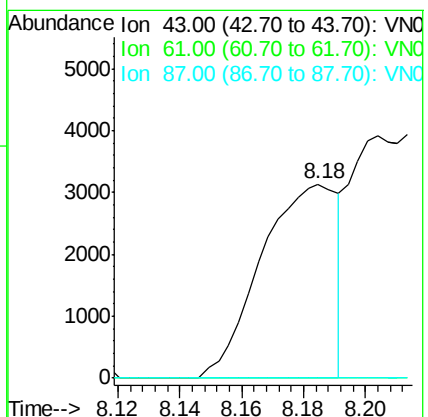
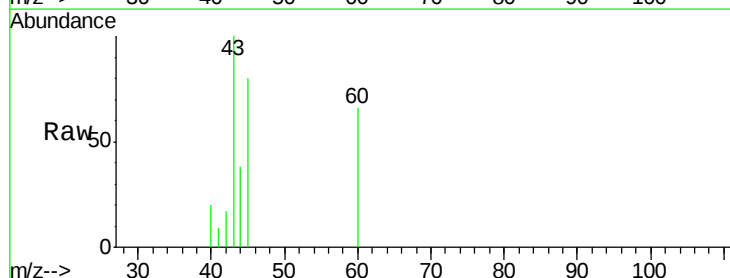
Instrument :  
MSVOA\_N  
ClientSampleId :  
0036-COMP-2

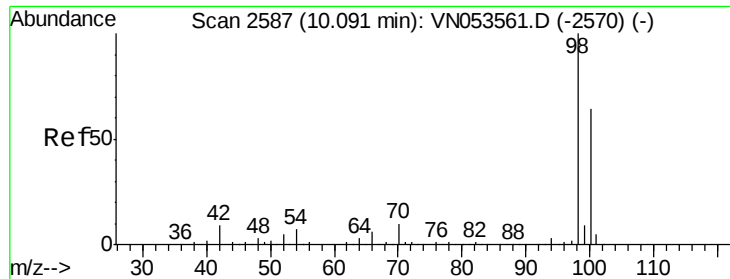
Tot Ion:117 Resp: 56541  
Ion Ratio Lower Upper  
117 100  
119 4.7 77.2 115.8#  
121 0.0 24.6 37.0#



#43  
Isopropyl Acetate  
Concen: 0.486 ug/l  
RT: 8.18 min Scan# 1994  
Delta R.T. 0.02 min  
Lab File: VN053592.D  
Acq: 4 Feb 2019 13:16

Tgt Ion: 43 Resp: 5383  
Ion Ratio Lower Upper  
43 100  
61 0.0 23.9 35.9#  
87 0.0 11.0 16.6#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053592.D

Acq: 4 Feb 2019 13:16

Instrument :

MSVOA\_N

ClientSampleId :

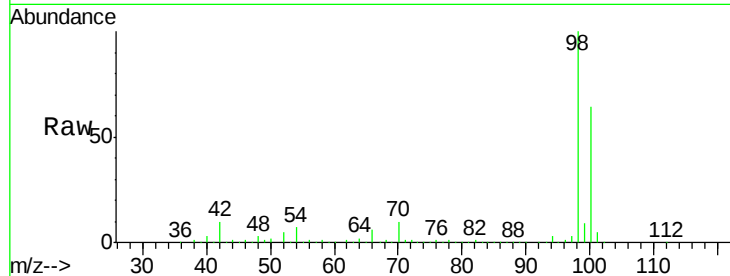
0036-COMP-2

Tot Ion: 98 Resp: 1402256

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053561.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN053561.D (-2570) (-)

10.09

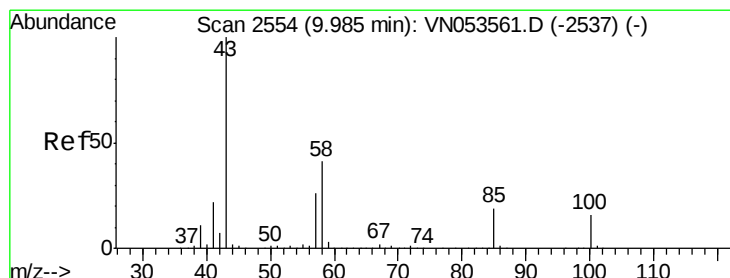
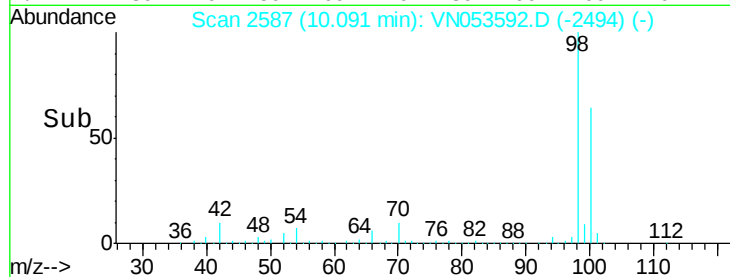
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.918 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN053592.D

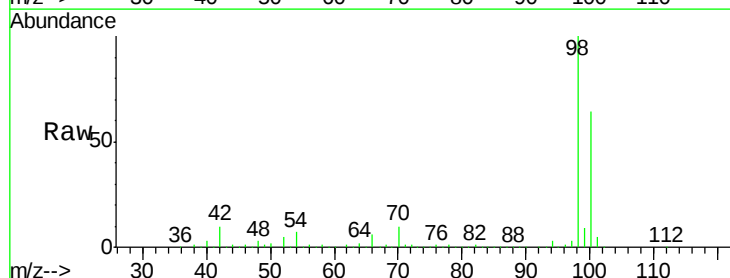
Acq: 4 Feb 2019 13:16

Tgt Ion: 43 Resp: 4998

Ion Ratio Lower Upper

43 100

58 198.8 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN053561.D (-2537) (-)

10.09

5000

4000

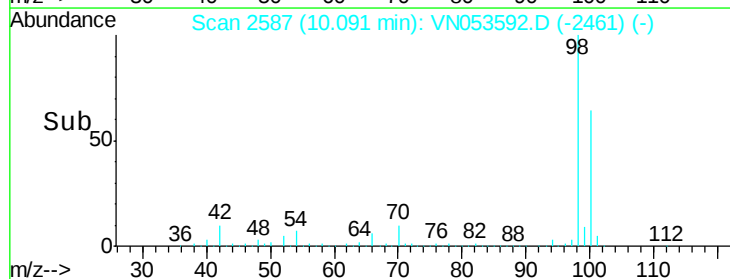
3000

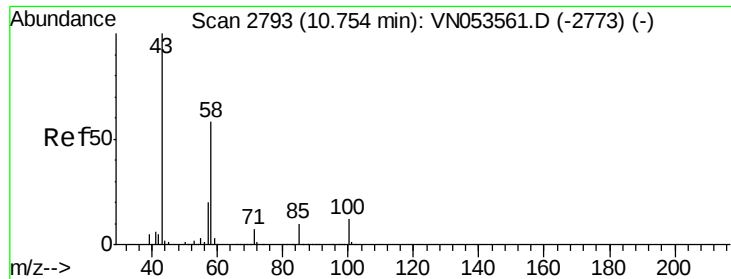
2000

1000

0

Time-->

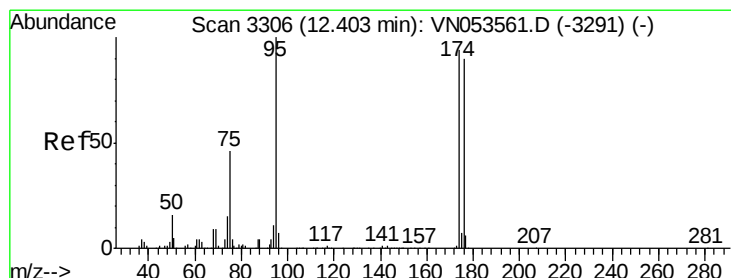
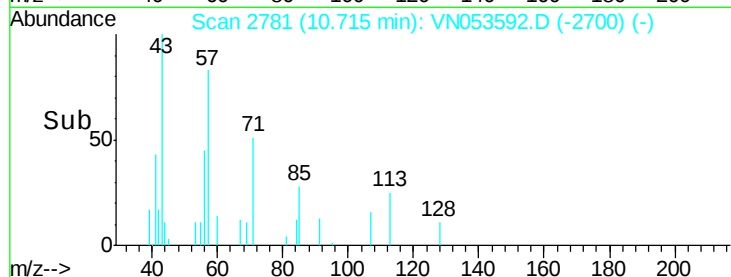
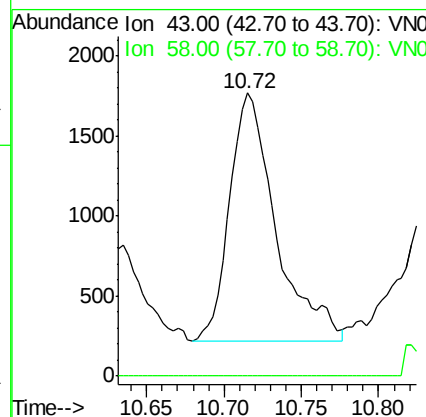
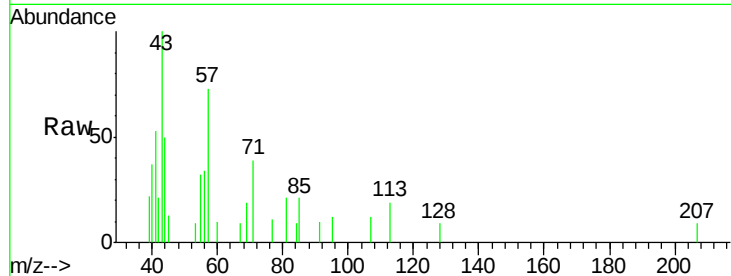




#59  
2-Hexanone  
Concen: 0.879 ug/l  
RT: 10.72 min Scan# 2781  
Delta R.T. -0.04 min  
Lab File: VN053592.D  
Acq: 4 Feb 2019 13:16

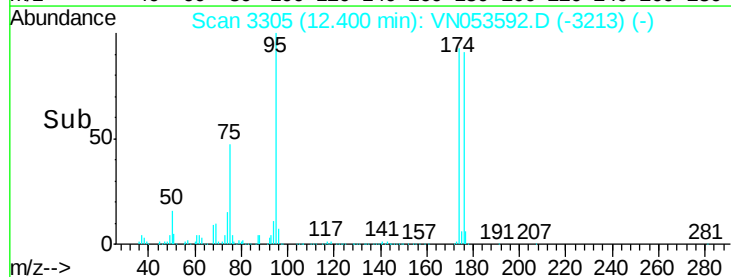
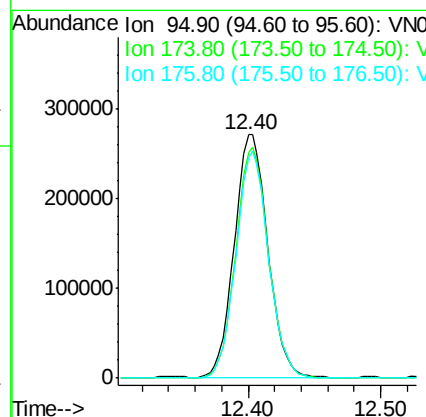
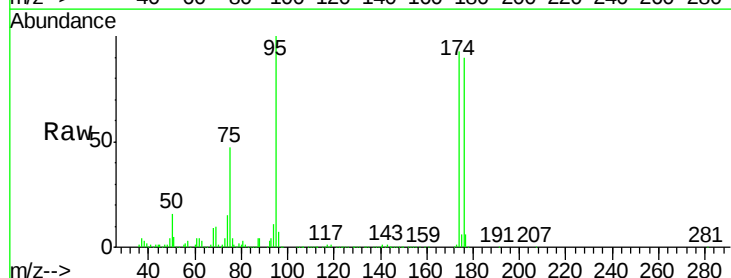
Instrument :  
MSVOA\_N  
ClientSampleId :  
0036-COMP-2

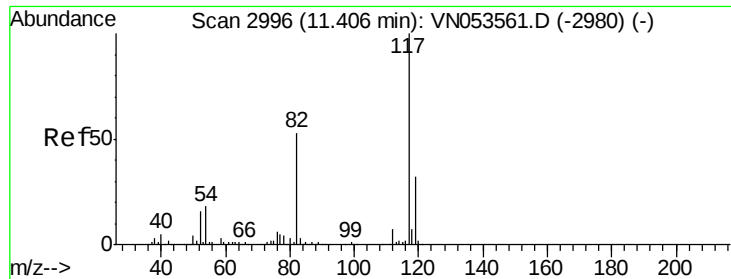
Tot Ion: 43 Resp: 3251  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.6 85.8#



#62  
4-Bromofluorobenzene  
Concen: Below ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN053592.D  
Acq: 4 Feb 2019 13:16

Tgt Ion: 95 Resp: 472165  
Ion Ratio Lower Upper  
95 100  
174 93.7 0.0 183.2  
176 91.2 0.0 177.4

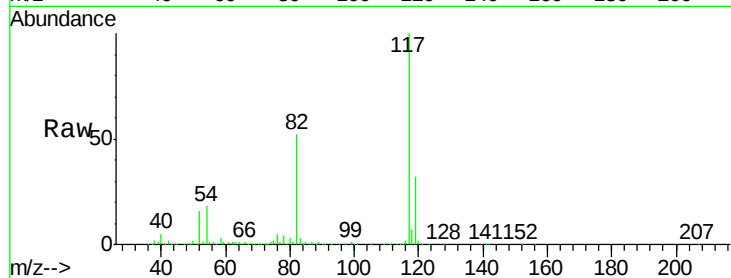




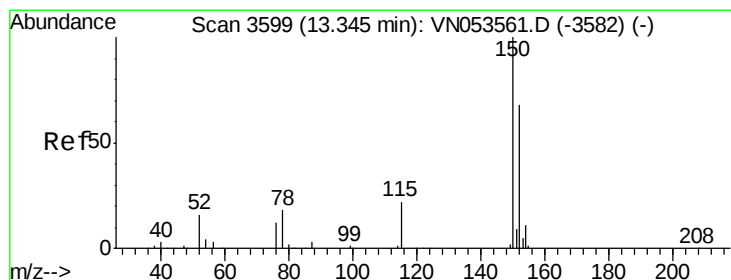
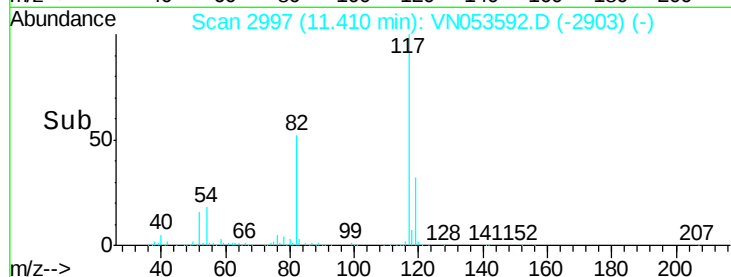
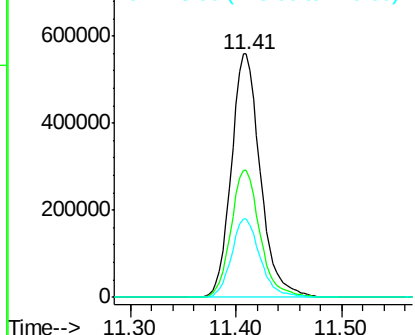
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN053592.D  
Acq: 4 Feb 2019 13:16

Instrument :  
MSVOA\_N  
ClientSampleId :  
0036-COMP-2

Tot Ion:117 Resp: 1061296  
Ion Ratio Lower Upper  
117 100  
82 52.1 42.9 64.3  
119 32.2 26.0 39.0

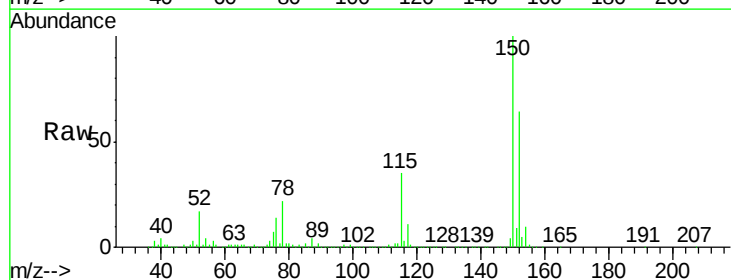


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

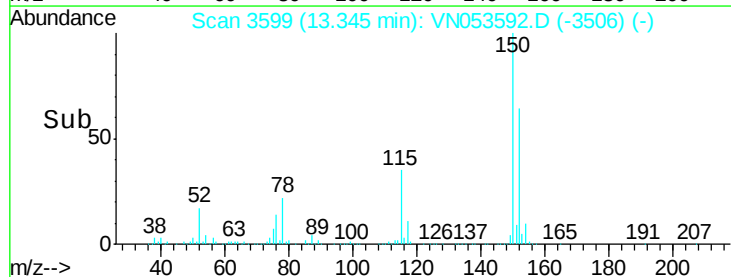
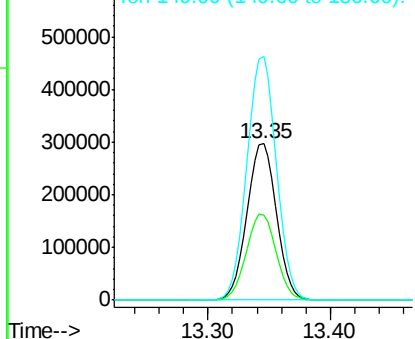


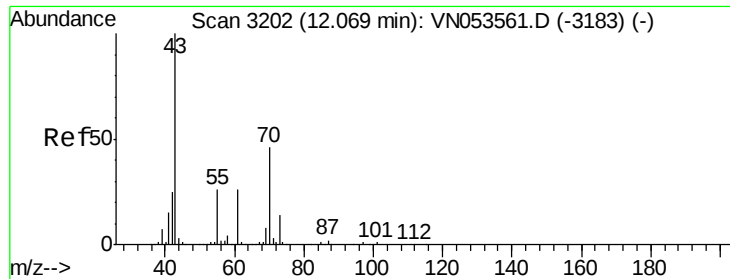
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: VN053592.D  
Acq: 4 Feb 2019 13:16

Tgt Ion:152 Resp: 490721  
Ion Ratio Lower Upper  
152 100  
115 55.3 27.8 83.4  
150 156.1 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





#74

N-amyl acetate

Concen: 1.460 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN053592.D

Acq: 4 Feb 2019 13:16

Instrument :

MSVOA\_N

ClientSampleId :

0036-COMP-2

Tot Ion: 43 Resp: 12109

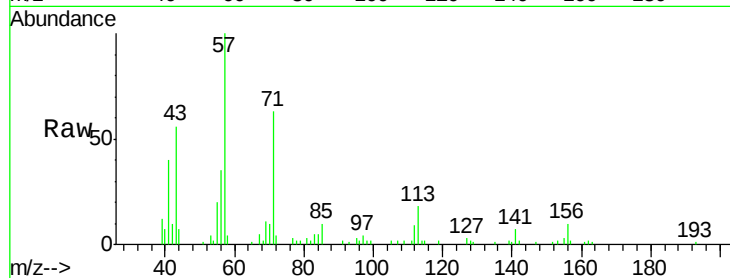
Ion Ratio Lower Upper

43 100

70 20.1 35.4 53.2#

55 14.4 20.9 31.3#

61 0.0 20.5 30.7#

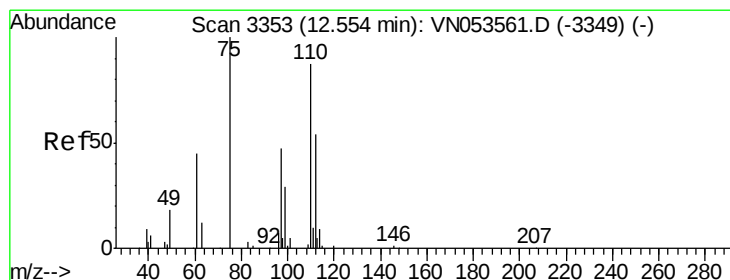
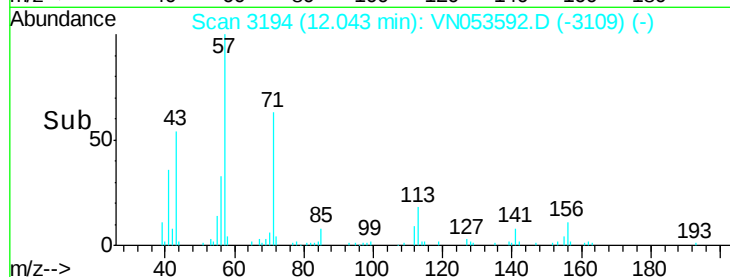
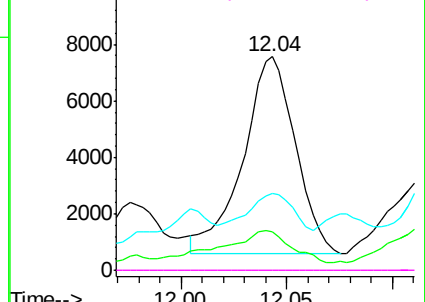


Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-3183) (-)

Ion 70.00 (69.70 to 70.70): VN053561.D (-3183) (-)

Ion 55.00 (54.70 to 55.70): VN053561.D (-3183) (-)

Ion 61.00 (60.70 to 61.70): VN053561.D (-3183) (-)



#76

1,2,3-Trichloropropane

Concen: 35.300 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053592.D

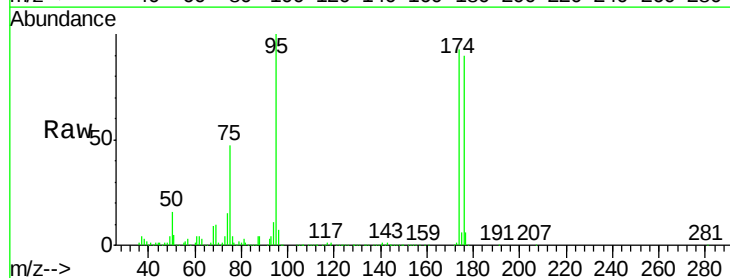
Acq: 4 Feb 2019 13:16

Tgt Ion: 75 Resp: 222496

Ion Ratio Lower Upper

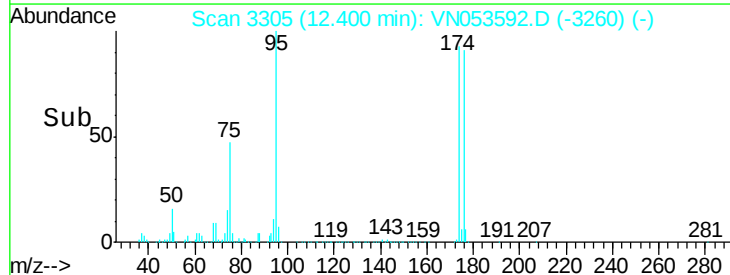
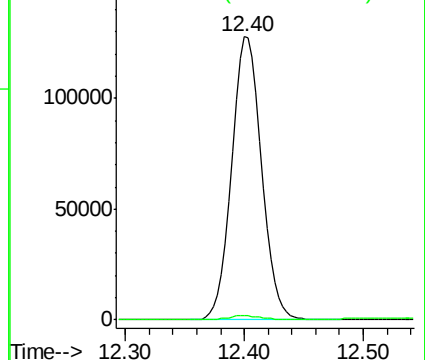
75 100

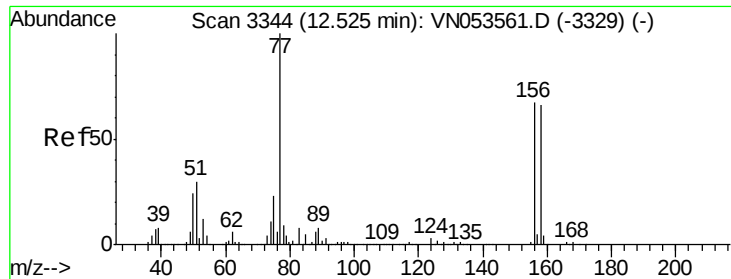
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN053561.D (-3349) (-)





#77

Bromobenzene

Concen: 1.779 ug/l

RT: 12.55 min Scan# 3352

Delta R.T. 0.03 min

Lab File: VN053592.D

Acq: 4 Feb 2019 13:16

Instrument :

MSVOA\_N

ClientSampleId :

0036-COMP-2

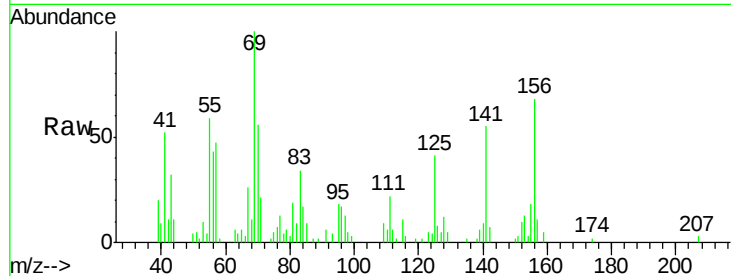
Tot Ion:156 Resp: 16543

Ion Ratio Lower Upper

156 100

77 8.1 87.9 263.8#

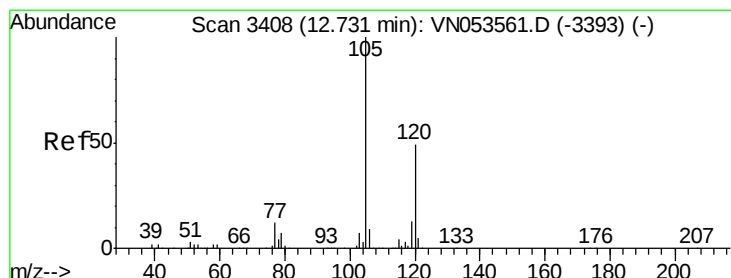
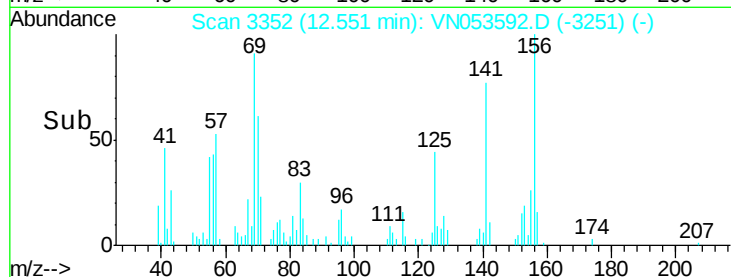
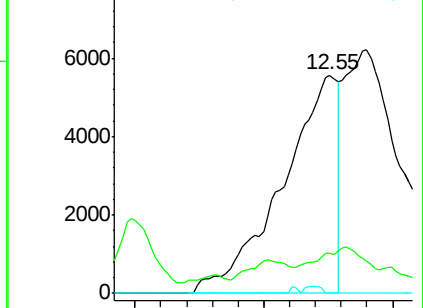
158 0.0 48.8 146.4#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#80

1,3,5-Trimethylbenzene

Concen: 0.558 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053592.D

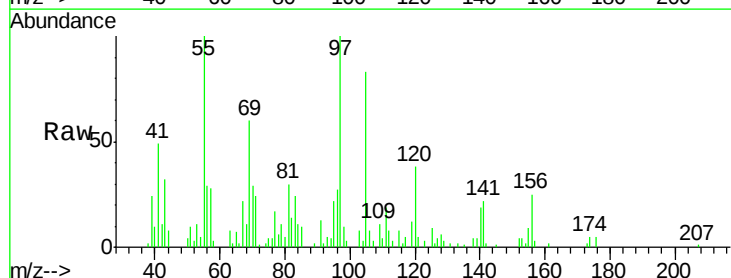
Acq: 4 Feb 2019 13:16

Tgt Ion:105 Resp: 15975

Ion Ratio Lower Upper

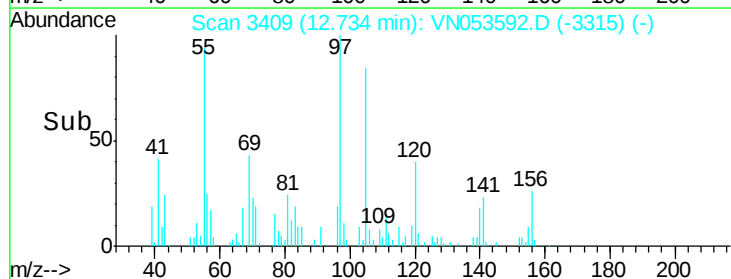
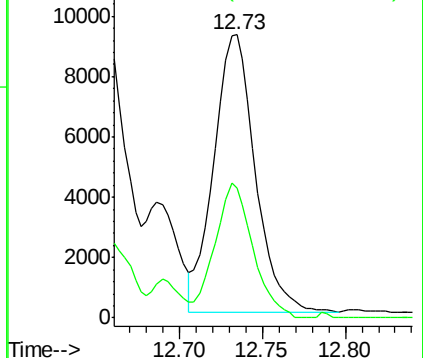
105 100

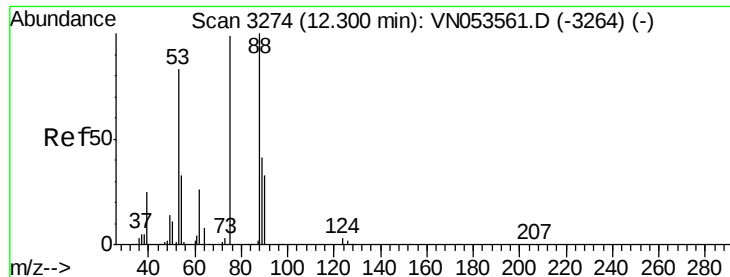
120 44.2 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

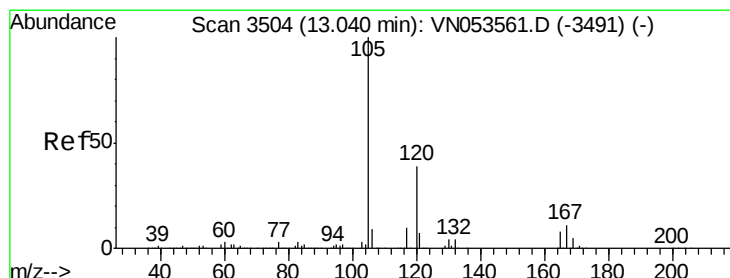
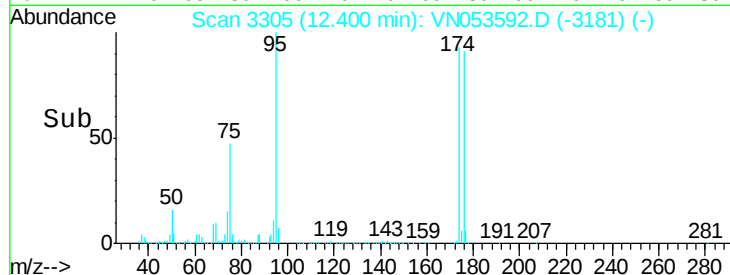
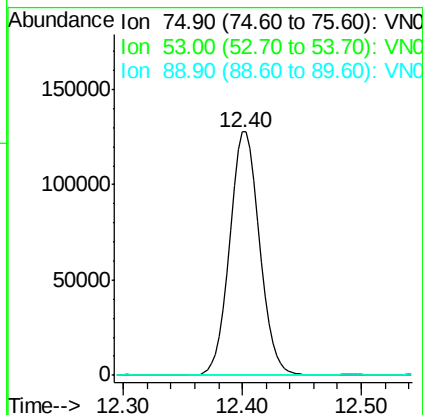
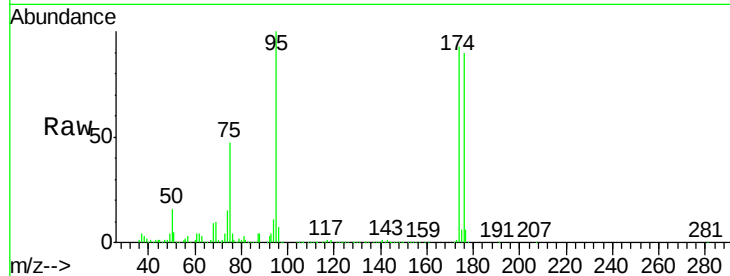




#81  
trans-1,4-Dichloro-2-butene  
Concen: 99.261 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.10 min  
Lab File: VN053592.D  
Acq: 4 Feb 2019 13:16

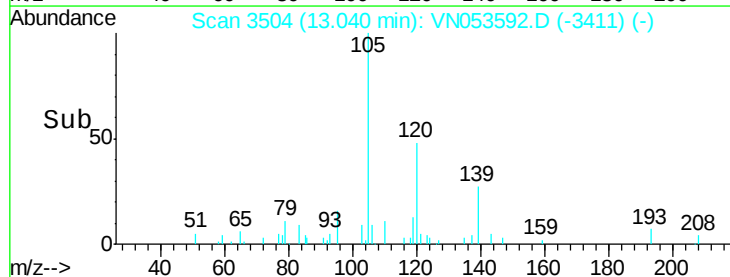
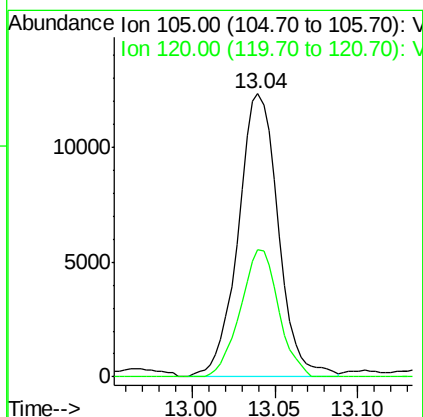
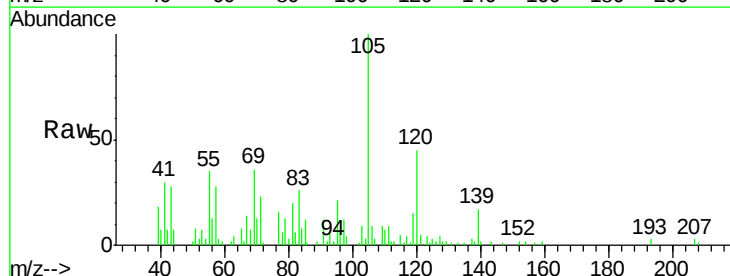
Instrument :  
MSVOA\_N  
ClientSampleId :  
0036-COMP-2

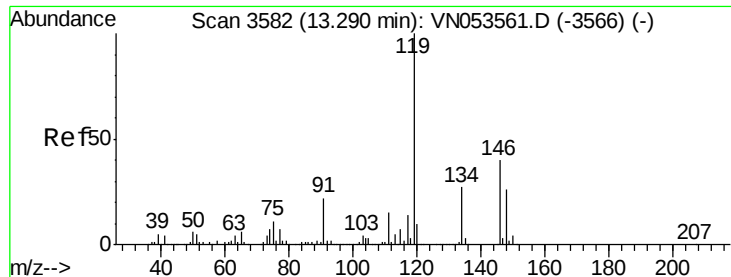
Tot Ion: 75 Resp: 222496  
Ion Ratio Lower Upper  
75 100  
53 0.4 69.8 104.6#  
89 0.0 35.6 53.4#



#84  
1,2,4-Trimethylbenzene  
Concen: 0.712 ug/l  
RT: 13.04 min Scan# 3504  
Delta R.T. 0.00 min  
Lab File: VN053592.D  
Acq: 4 Feb 2019 13:16

Tgt Ion: 105 Resp: 20757  
Ion Ratio Lower Upper  
105 100  
120 42.6 23.0 69.0

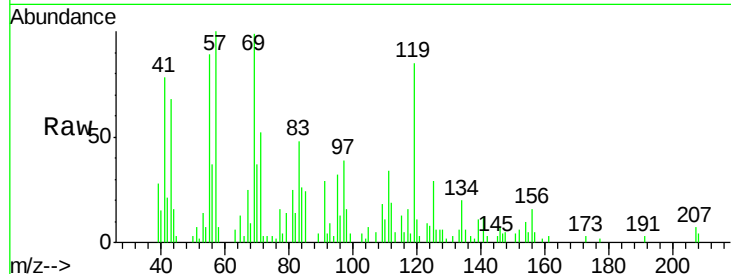




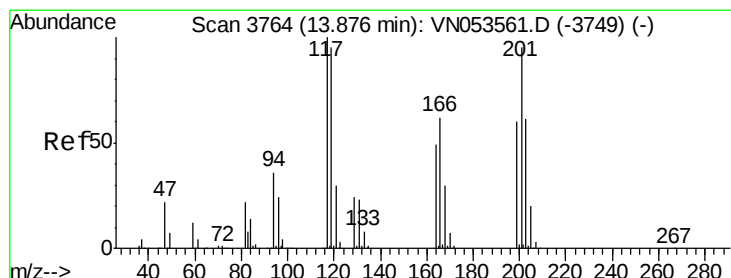
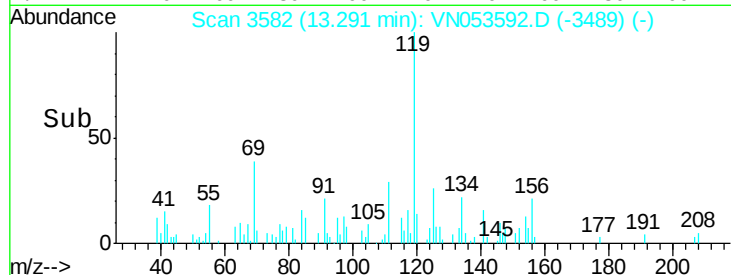
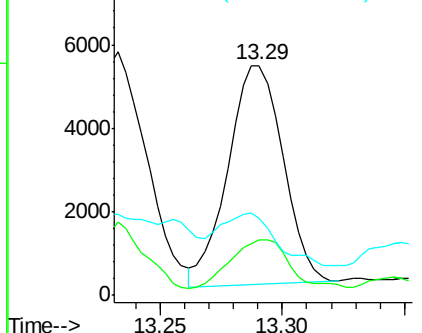
#86  
p-Isopropyltoluene  
Concen: 0.274 ug/l  
RT: 13.29 min Scan# 3582  
Delta R.T. 0.00 min  
Lab File: VN053592.D  
Acq: 4 Feb 2019 13:16

Instrument :  
MSVOA\_N  
ClientSampleId :  
0036-COMP-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 30.9  | 13.5  | 40.4  |
| 91      | 24.3  | 11.0  | 33.0  |

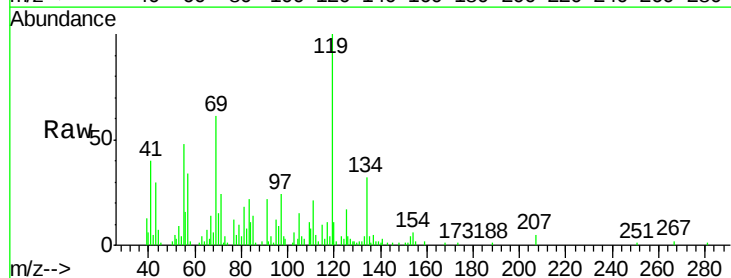


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 134.00 (133.70 to 134.70): V  
Ion 91.00 (90.70 to 91.70): V

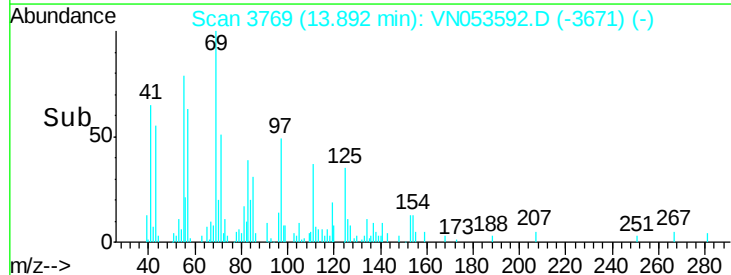
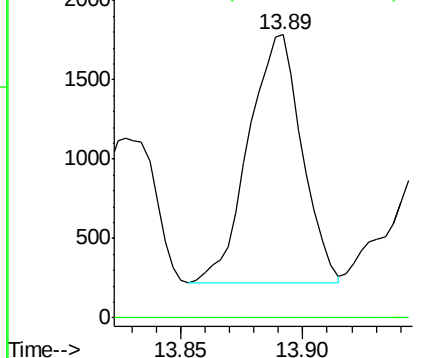


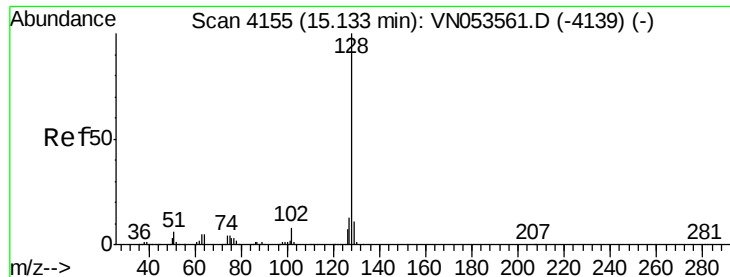
#90  
Hexachloroethane  
Concen: 0.476 ug/l  
RT: 13.89 min Scan# 3769  
Delta R.T. 0.02 min  
Lab File: VN053592.D  
Acq: 4 Feb 2019 13:16

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 201     | 0.0   | 46.8  | 140.4# |



Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 200.70 (200.40 to 201.40): V

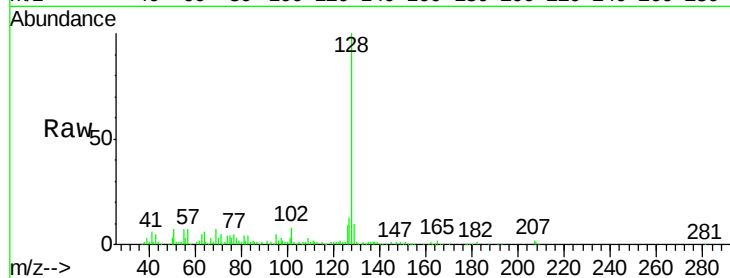




#95  
Naphthalene  
Concen: 9.353 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. 0.00 min  
Lab File: VN053592.D  
Acq: 4 Feb 2019 13:16

Instrument :  
MSVOA\_N  
ClientSampleId :  
0036-COMP-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.5  | 10.3  | 15.5  |
| 129     | 11.2  | 8.6   | 13.0  |



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

