

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\  
 Data File : VN051590.D  
 Acq On : 27 Sep 2018 18:29  
 Operator : MD\SY  
 Sample : PB113263ZHE#02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 55 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB113263ZHE#02

Quant Time: Sep 28 01:52:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092318W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 24 06:41:32 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 627167   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1028692  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 868487   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 304043   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 457046   | 58.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.34% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 388715   | 47.25 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.50%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 1433083  | 46.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.52%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 378965   | 37.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 75.64%  |          |

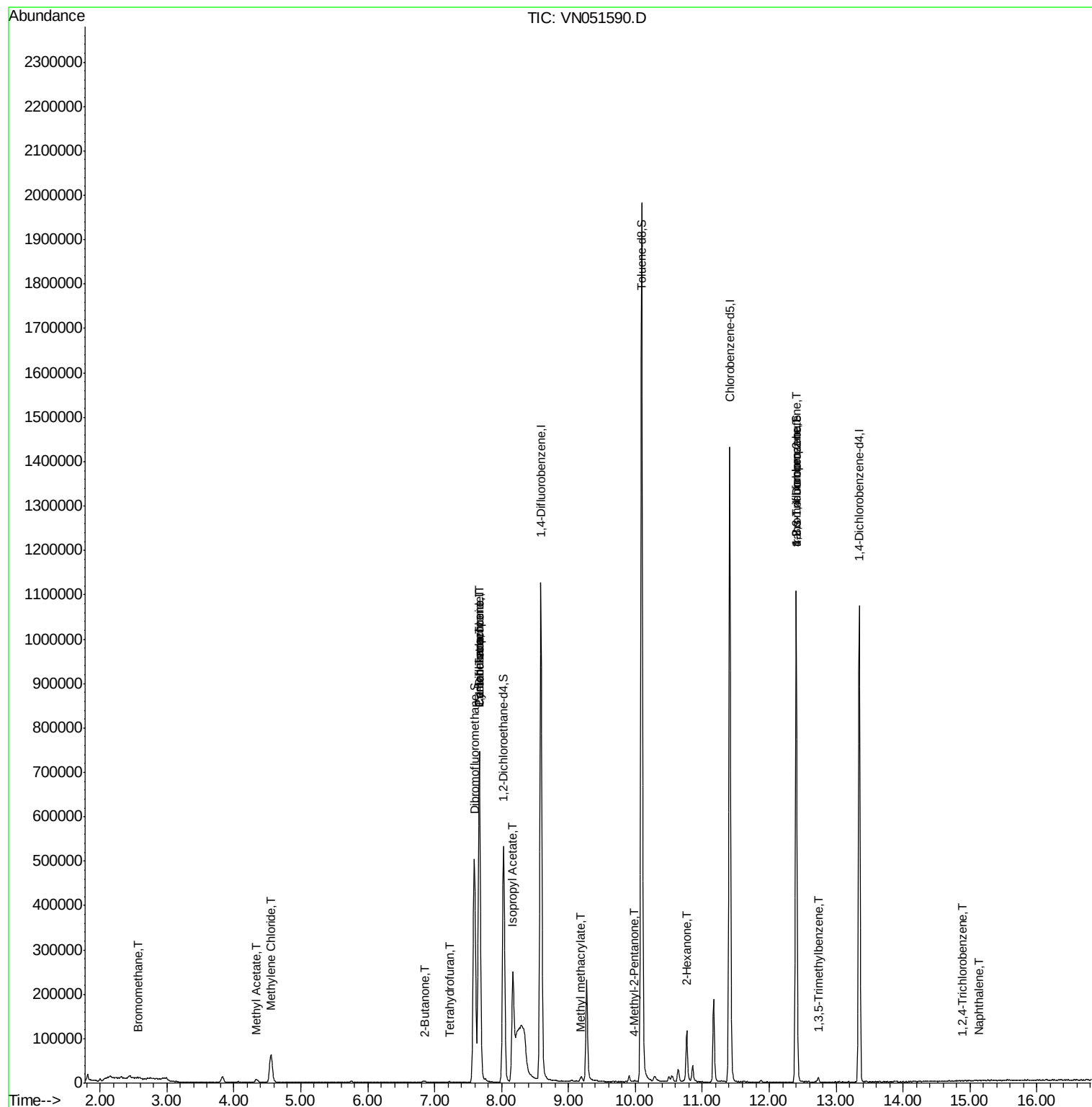
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.57  | 94   | 1058     | 0.231     | ug/l # | 54     |
| 16) Acetone                    | 3.83  | 43   | 20026    | Below Cal |        | 93     |
| 18) Methyl Acetate             | 4.34  | 43   | 14161    | 2.367     | ug/l   | 94     |
| 20) Methylene Chloride         | 4.56  | 84   | 45211    | 5.815     | ug/l   | 94     |
| 25) 2-Butanone                 | 6.86  | 43   | 3805     | 1.415     | ug/l   | 91     |
| 29) Tetrahydrofuran            | 7.21  | 42   | 443      | 0.260     | ug/l # | 53     |
| 31) Cyclohexane                | 7.67  | 56   | 12287    | 0.993     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75   | 45677    | 3.834     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 56080    | 4.501     | ug/l # | 17     |
| 43) Isopropyl Acetate          | 8.17  | 43   | 324161   | 26.173    | ug/l   | 93     |
| 48) Methyl methacrylate        | 9.18  | 41   | 7109     | 1.151     | ug/l # | 20     |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 1746     | 0.256     | ug/l   | 87     |
| 59) 2-Hexanone                 | 10.77 | 43   | 17279    | 3.913     | ug/l # | 56     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 189119   | 37.469    | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 4567     | 0.218     | ug/l   | 97     |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 189119   | 115.215   | ug/l # | 13     |
| 93) 1,2,4-Trichlorobenzene     | 14.90 | 180  | 63       | 5.991     | ug/l # | 11     |
| 95) Naphthalene                | 15.13 | 128  | 440      | 8.077     | ug/l # | 69     |

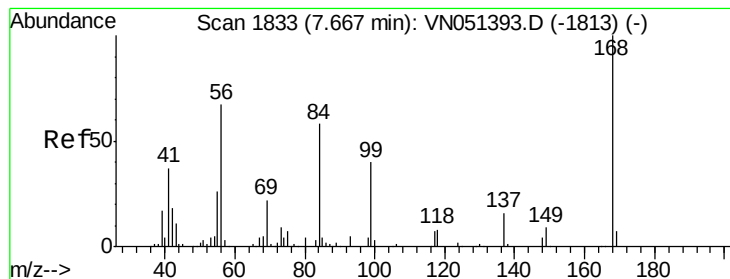
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092718\  
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Sample : PB113263ZHE#02  
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Quant Title : SW846 8260  
QLast Update : Mon Sep 24 06:41:32 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: VN051590.D

Acq: 27 Sep 2018 18:29

Instrument :

MSVOA\_N

ClientSampleId :

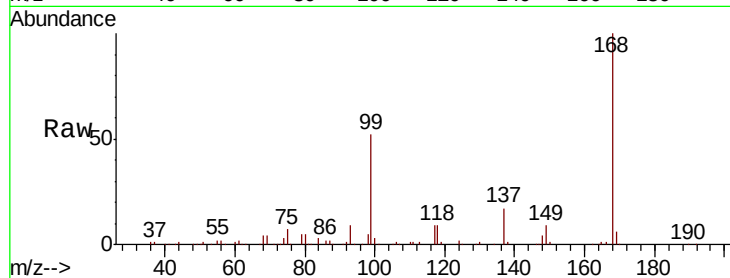
PB113263ZHE#02

Tot Ion:168 Resp: 627167

Ion Ratio Lower Upper

168 100

99 52.2 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051590.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051590.D (-1740) (-)

7.67

250000

200000

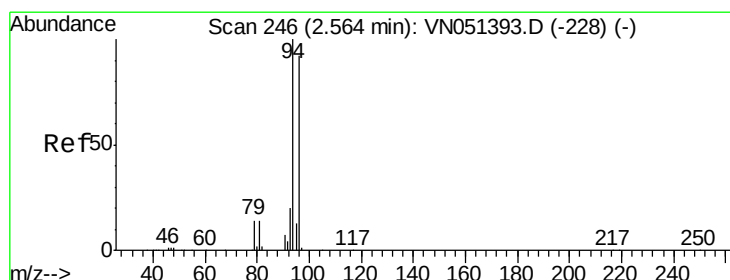
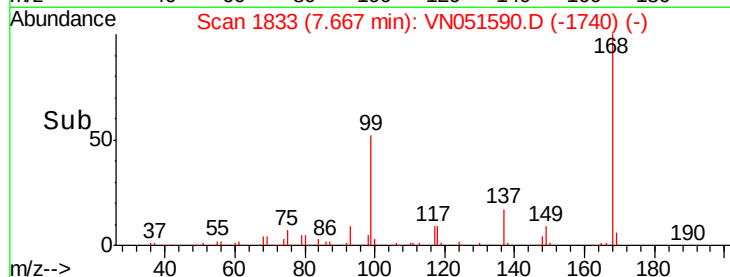
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.231 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051590.D

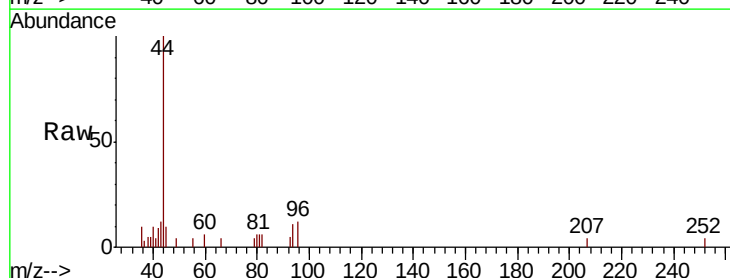
Acq: 27 Sep 2018 18:29

Tgt Ion: 94 Resp: 1058

Ion Ratio Lower Upper

94 100

96 47.9 73.6 110.4#



Abundance Ion 93.90 (93.60 to 94.60): VN051590.D (-153) (-)

Ion 95.90 (95.60 to 96.60): VN051590.D (-153) (-)

2.57

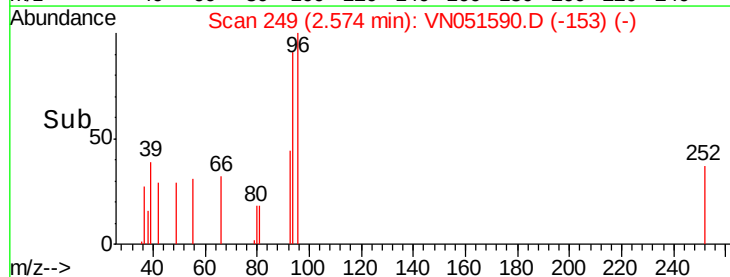
600

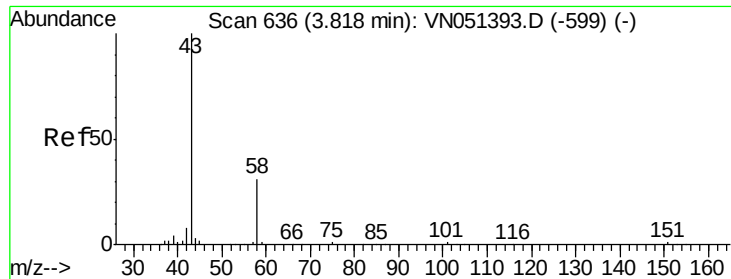
400

200

0

Time-->

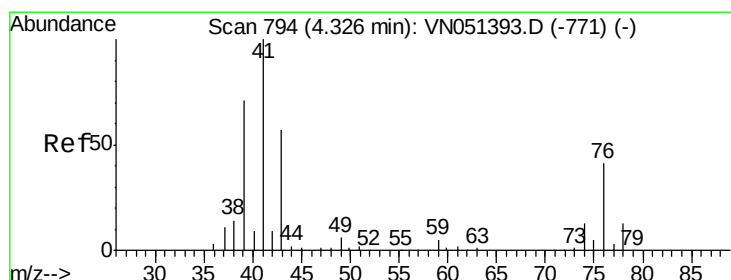
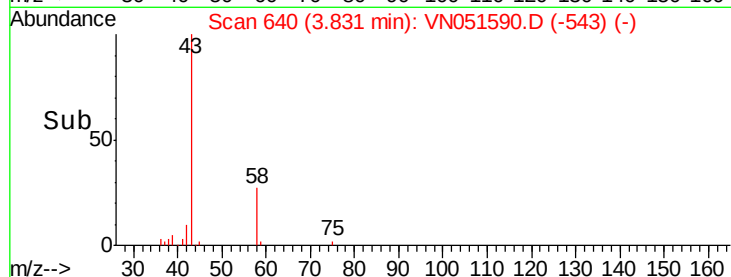
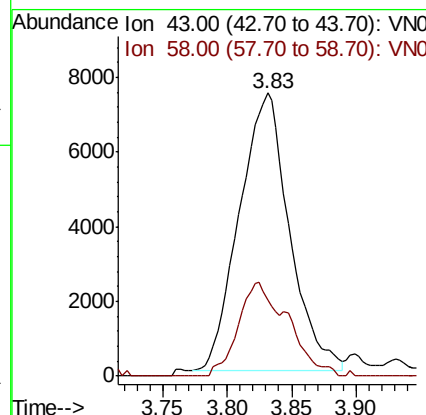
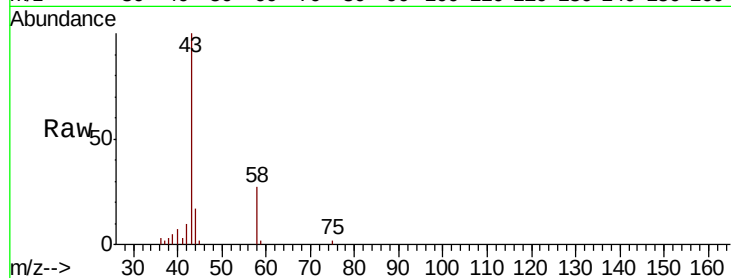




#16  
Acetone  
Concen: Below Cal  
RT: 3.83 min Scan# 640  
Delta R.T. 0.01 min  
Lab File: VN051590.D  
Acq: 27 Sep 2018 18:29

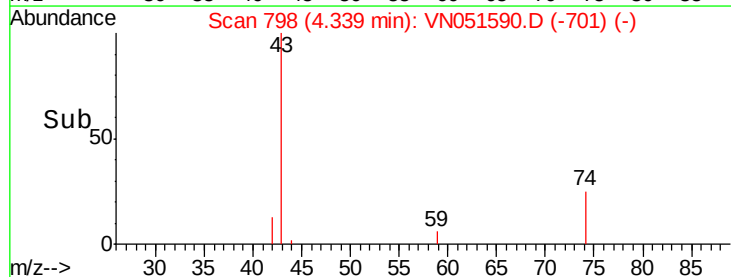
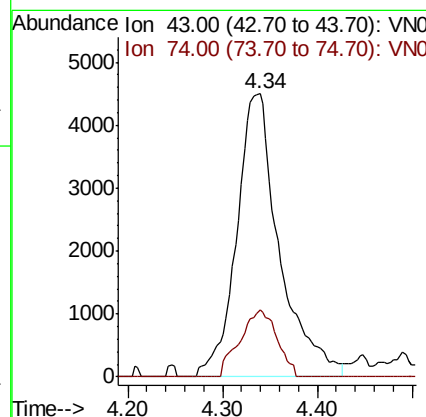
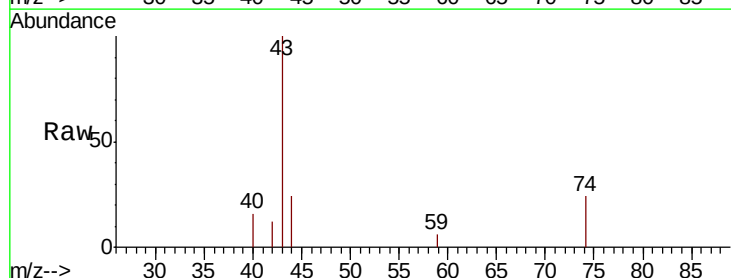
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB113263ZHE#02

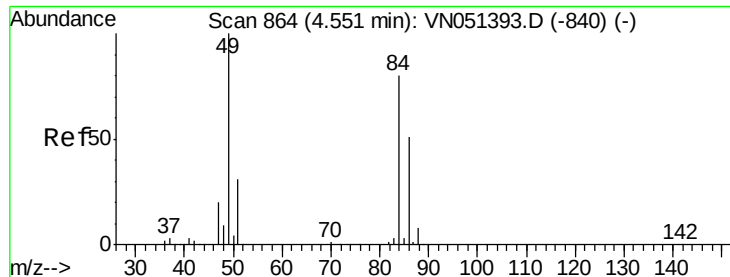
Tot Ion: 43 Resp: 20026  
Ion Ratio Lower Upper  
43 100  
58 27.3 25.0 37.4



#18  
Methyl Acetate  
Concen: 2.367 ug/l  
RT: 4.34 min Scan# 798  
Delta R.T. 0.01 min  
Lab File: VN051590.D  
Acq: 27 Sep 2018 18:29

Tgt Ion: 43 Resp: 14161  
Ion Ratio Lower Upper  
43 100  
74 20.5 18.8 28.2

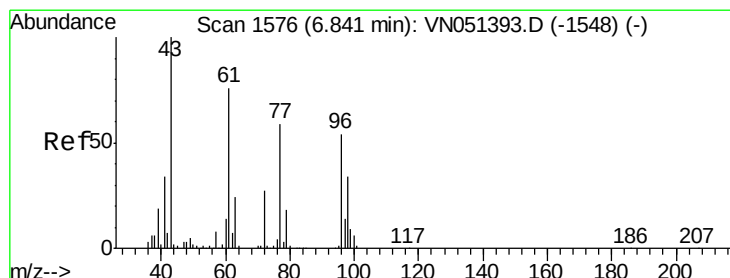
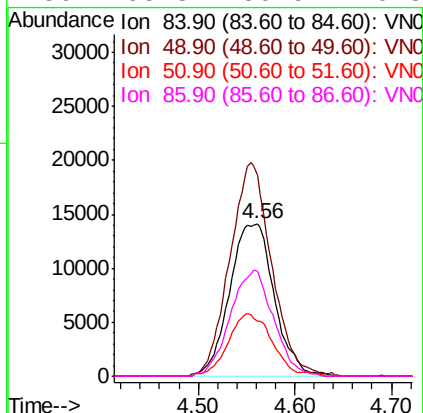
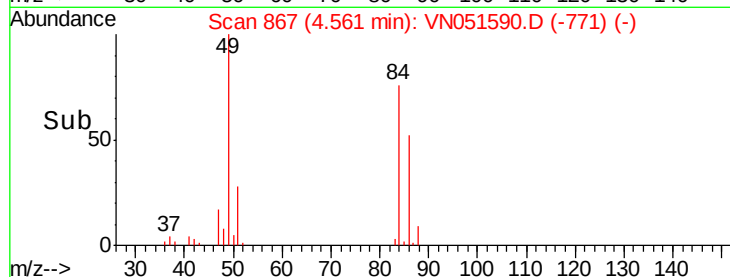
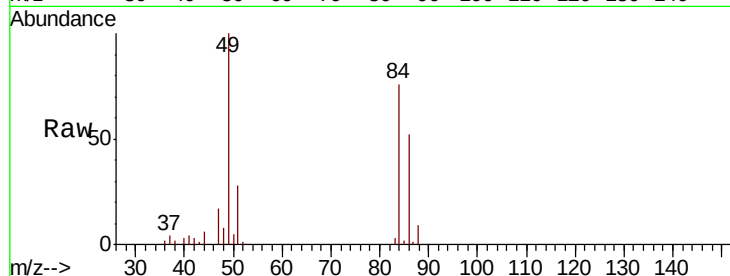




#20  
Methylene Chloride  
Concen: 5.815 ug/l  
RT: 4.56 min Scan# 867  
Delta R.T. 0.01 min  
Lab File: VN051590.D  
Acq: 27 Sep 2018 18:29

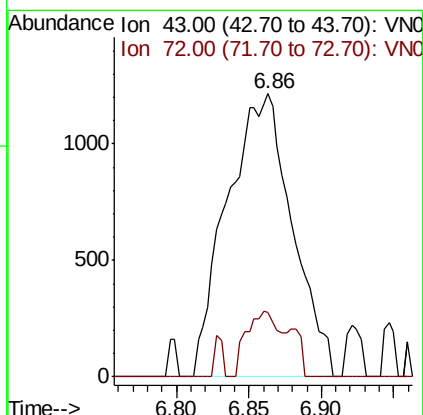
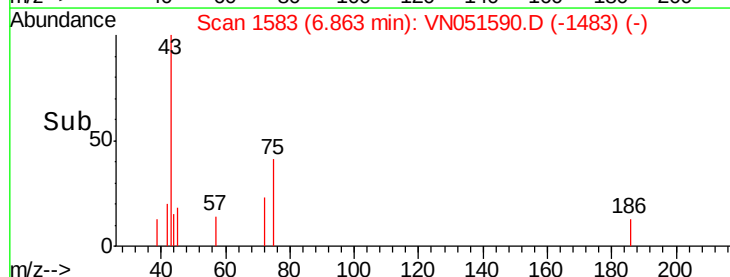
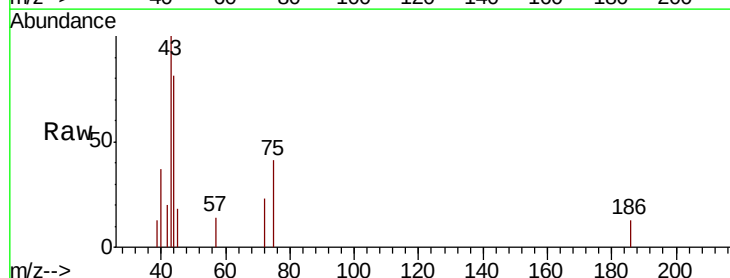
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB113263ZHE#02

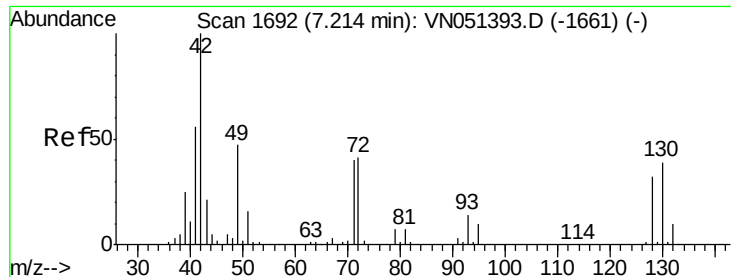
Tot Ion: 84 Resp: 45211  
Ion Ratio Lower Upper  
84 100  
49 131.2 99.9 149.9  
51 36.2 31.4 47.2  
86 68.8 50.9 76.3



#25  
2-Butanone  
Concen: 1.415 ug/l  
RT: 6.86 min Scan# 1583  
Delta R.T. 0.02 min  
Lab File: VN051590.D  
Acq: 27 Sep 2018 18:29

Tgt Ion: 43 Resp: 3805  
Ion Ratio Lower Upper  
43 100  
72 22.7 21.8 32.6

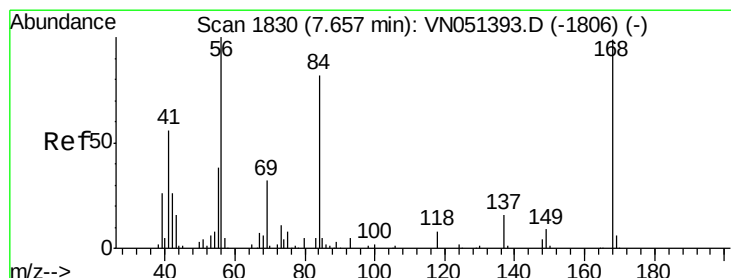
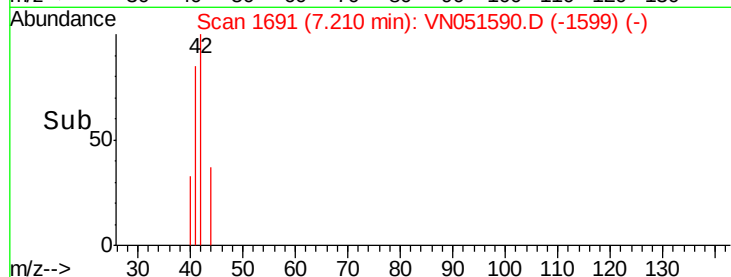
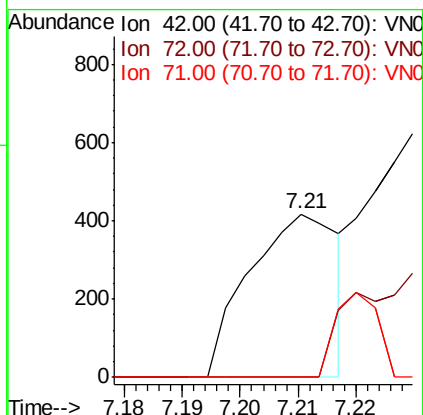
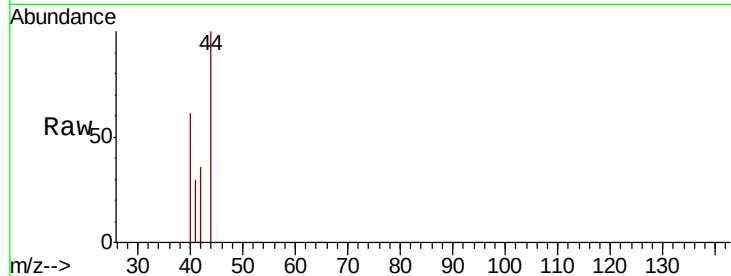




#29  
Tetrahydrofuran  
Concen: 0.260 ug/l  
RT: 7.21 min Scan# 1691  
Delta R.T. -0.00 min  
Lab File: VN051590.D  
Acq: 27 Sep 2018 18:29

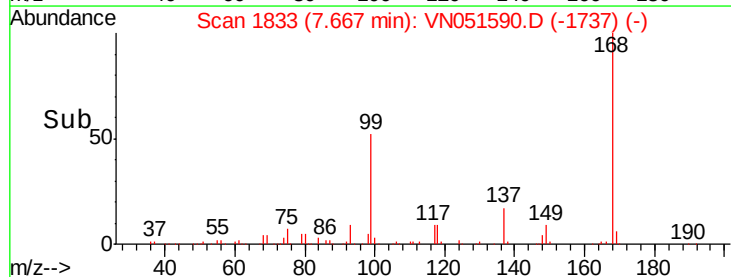
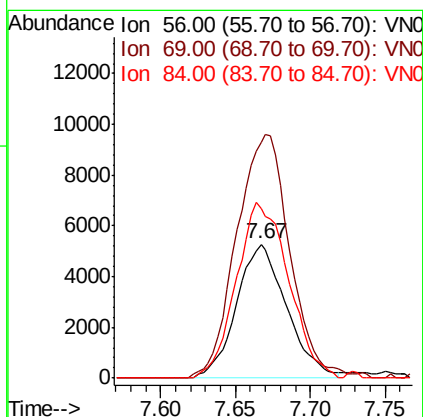
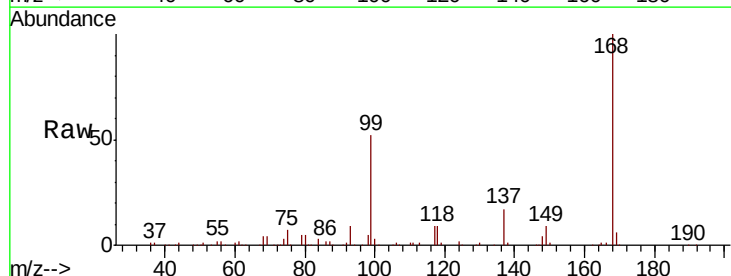
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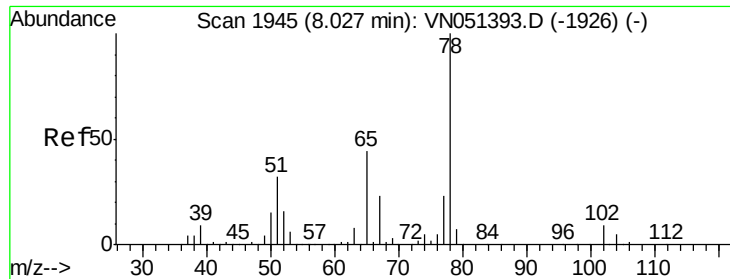
Tot Ion: 42 Resp: 443  
Ion Ratio Lower Upper  
42 100  
72 0.0 34.3 51.5#  
71 24.8 32.2 48.4#



#31  
Cyclohexane  
Concen: 0.993 ug/l  
RT: 7.67 min Scan# 1833  
Delta R.T. 0.01 min  
Lab File: VN051590.D  
Acq: 27 Sep 2018 18:29

Tgt Ion: 56 Resp: 12287  
Ion Ratio Lower Upper  
56 100  
69 176.1 25.8 38.6#  
84 127.1 66.0 99.0#

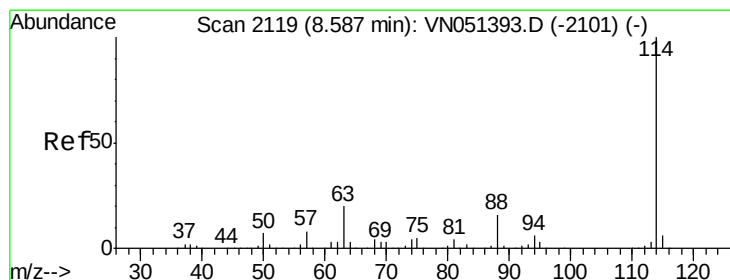
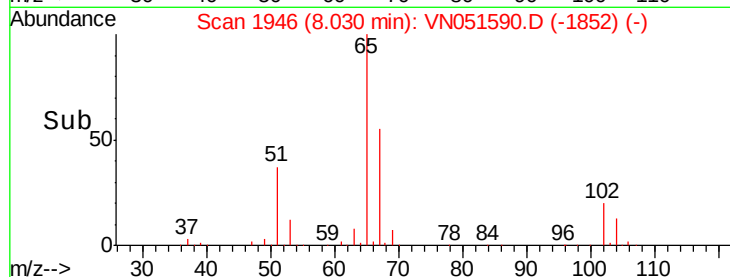
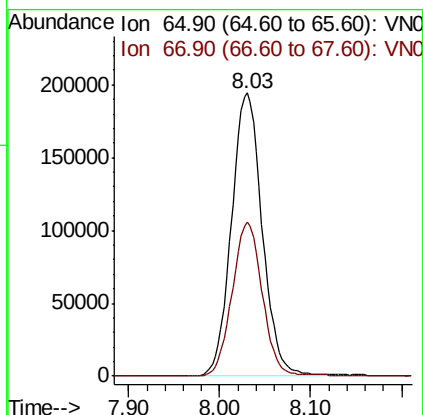
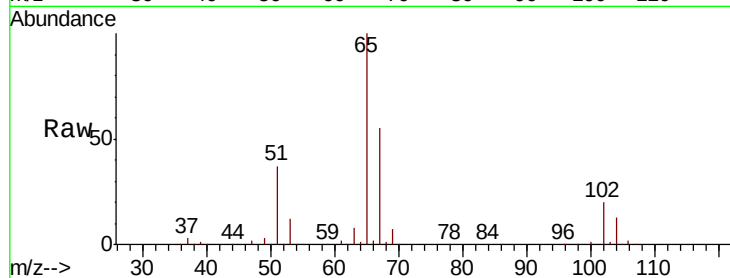




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.175 ug/l  
 RT: 8.03 min Scan# 1946  
 Delta R.T. 0.00 min  
 Lab File: VN051590.D  
 Acq: 27 Sep 2018 18:29

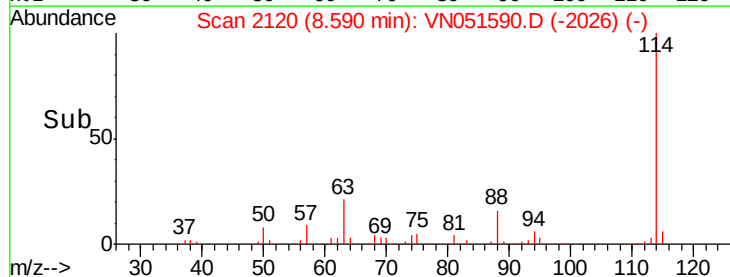
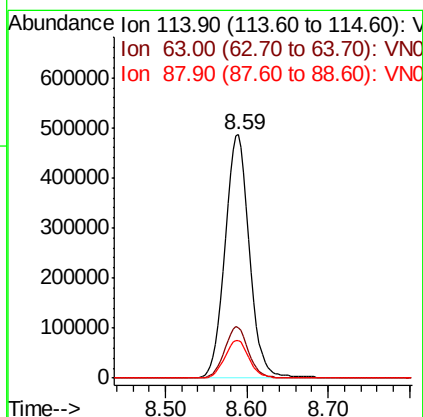
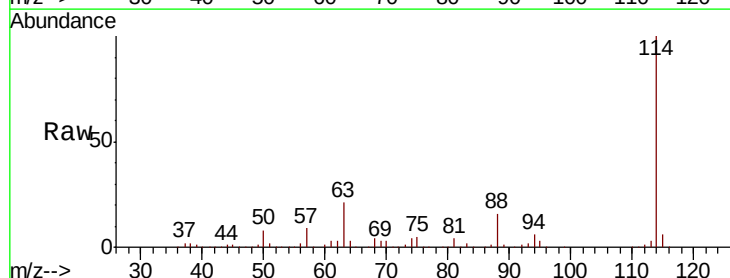
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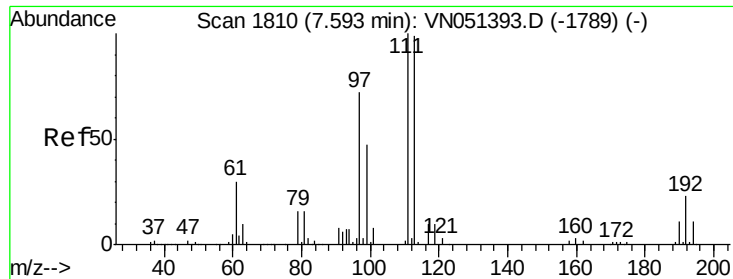
Tot Ion: 65 Resp: 457046  
 Ion Ratio Lower Upper  
 65 100  
 67 53.2 0.0 107.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2120  
 Delta R.T. 0.00 min  
 Lab File: VN051590.D  
 Acq: 27 Sep 2018 18:29

Tgt Ion: 114 Resp: 1028692  
 Ion Ratio Lower Upper  
 114 100  
 63 20.9 0.0 40.2  
 88 15.7 0.0 31.4

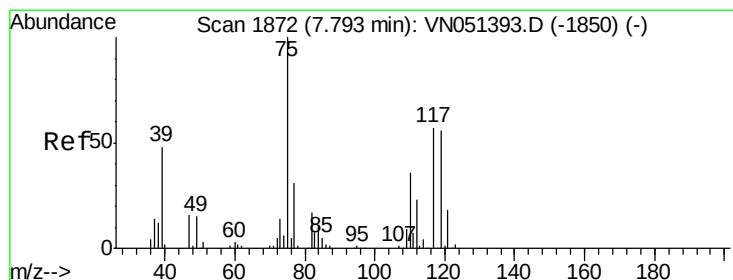
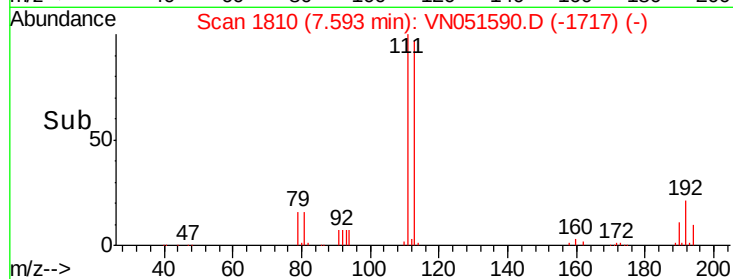
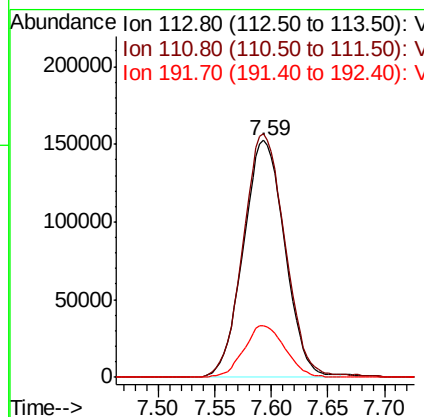
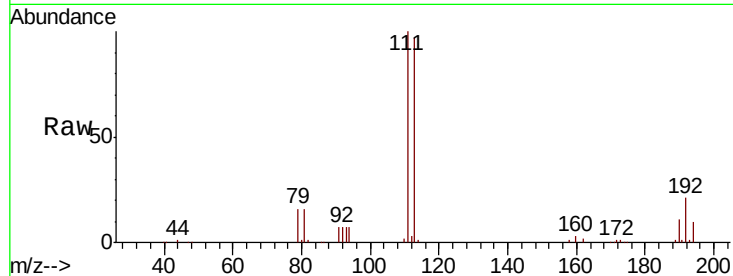




#35  
 Dibromofluoromethane  
 Concen: 47.255 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. -0.00 min  
 Lab File: VN051590.D  
 Acq: 27 Sep 2018 18:29

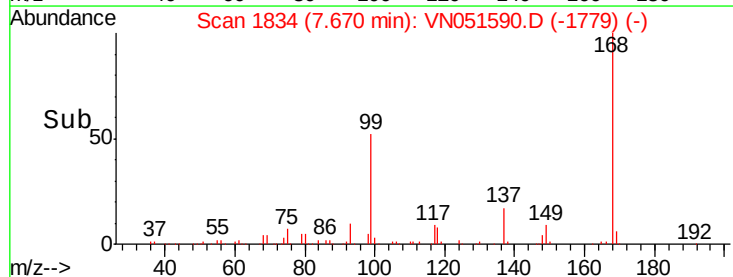
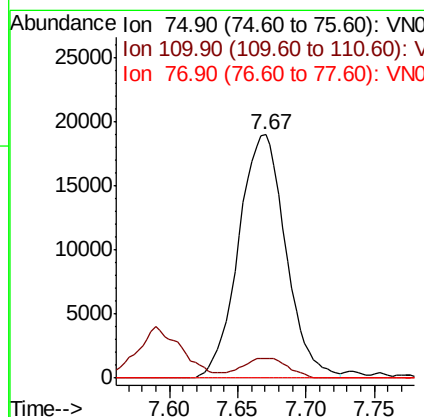
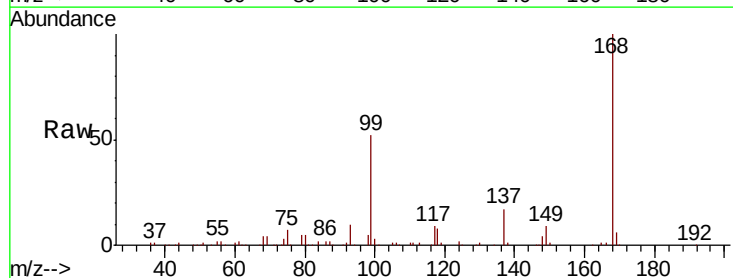
Instrument :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.5 | 82.6  | 123.8 |
| 192     | 21.9  | 18.0  | 27.0  |

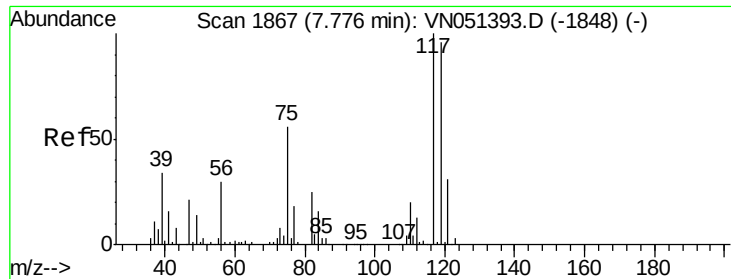


#36  
 1,1-Dichloropropene  
 Concen: 3.834 ug/l  
 RT: 7.67 min Scan# 1834  
 Delta R.T. -0.12 min  
 Lab File: VN051590.D  
 Acq: 27 Sep 2018 18:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.0   | 18.1  | 54.3# |
| 77      | 0.0   | 25.6  | 38.4# |







#38

Carbon Tetrachloride

Concen: 4.501 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051590.D

Acq: 27 Sep 2018 18:29

Instrument :

MSVOA\_N

ClientSampleId :

PB113263ZHE#02

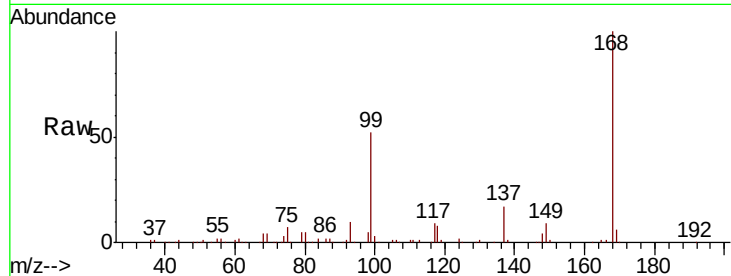
Tot Ion:117 Resp: 56080

Ion Ratio Lower Upper

117 100

119 7.1 76.9 115.3#

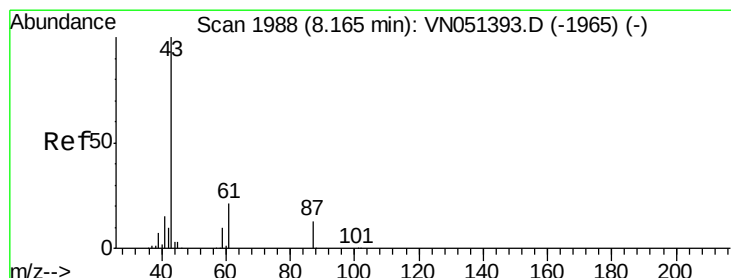
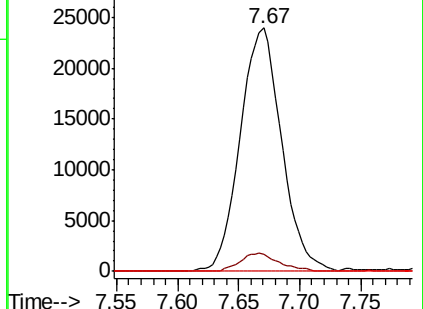
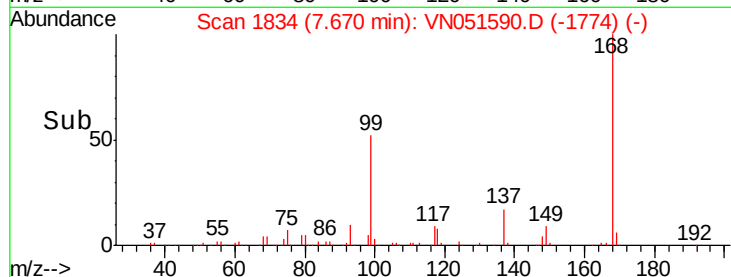
121 0.0 24.6 37.0#



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



#43

Isopropyl Acetate

Concen: 26.173 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051590.D

Acq: 27 Sep 2018 18:29

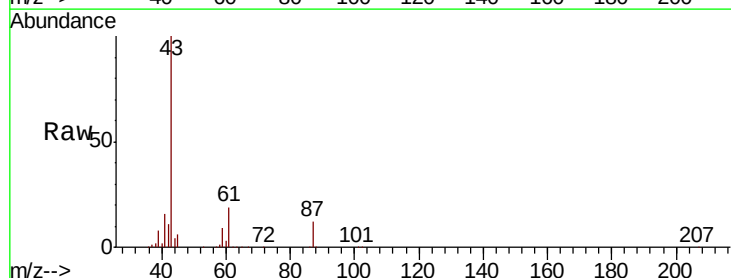
Tgt Ion: 43 Resp: 324161

Ion Ratio Lower Upper

43 100

61 17.4 16.8 25.2

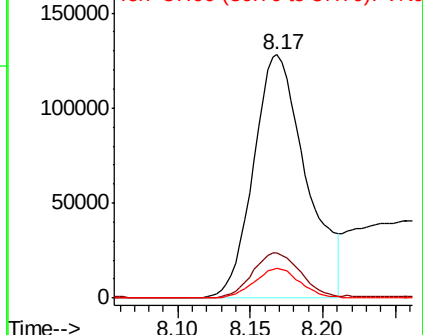
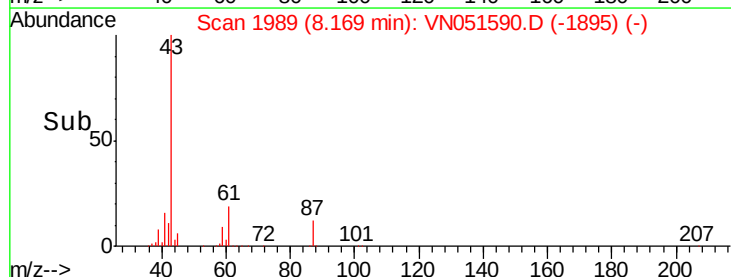
87 10.7 10.7 16.1

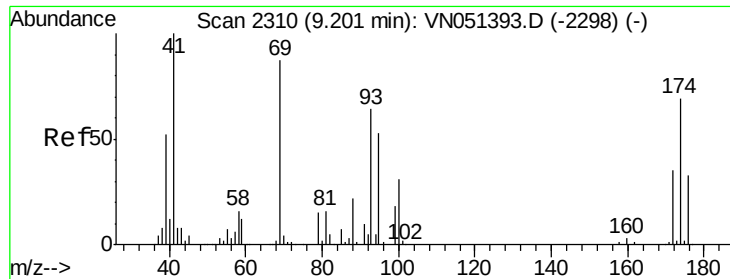


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

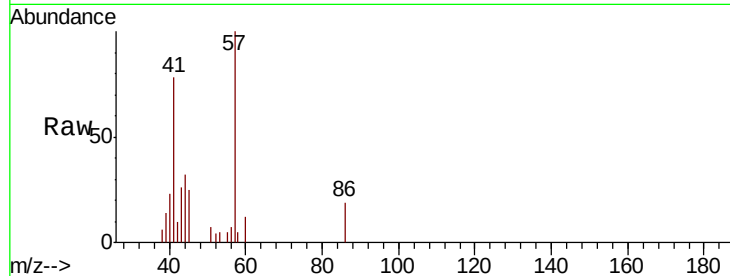




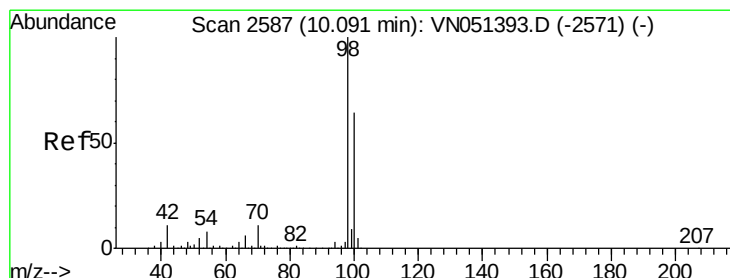
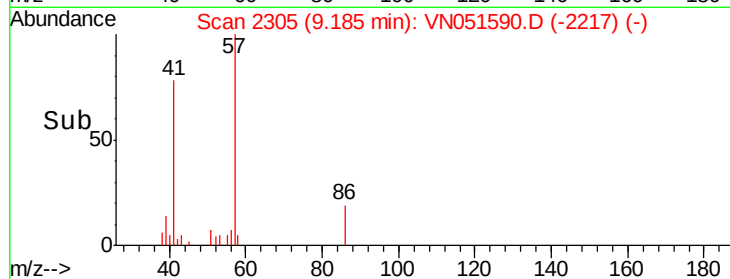
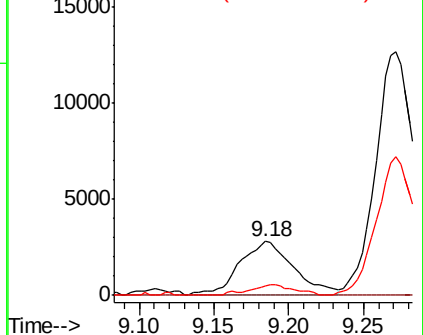
#48  
Methvl methacrylate  
Concen: 1.151 ug/l  
RT: 9.18 min Scan# 2305  
Delta R.T. -0.02 min  
Lab File: VN051590.D  
Acq: 27 Sep 2018 18:29

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB113263ZHE#02

Tot Ion: 41 Resp: 7109  
Ion Ratio Lower Upper  
41 100  
69 0.0 70.4 105.6#  
39 14.0 43.8 65.8#

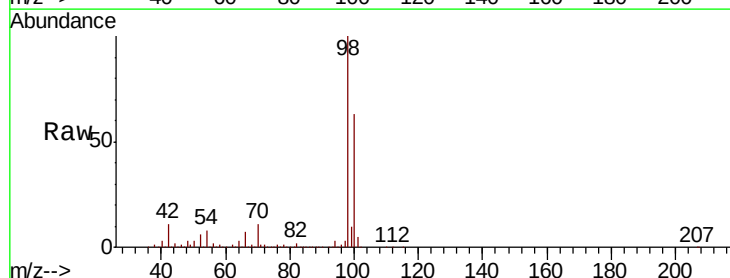


Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0

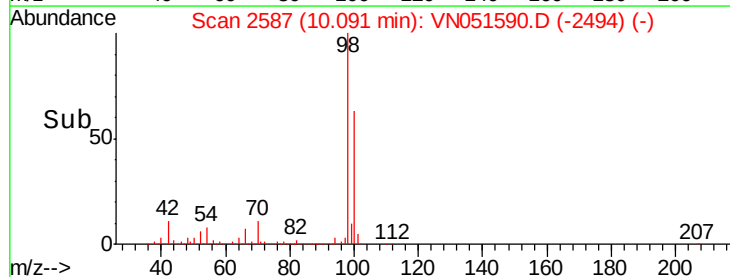
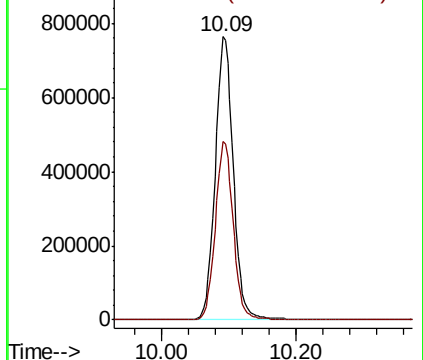


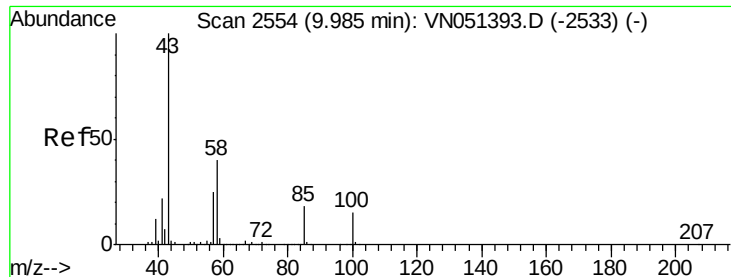
#50  
Toluene-d8  
Concen: 46.264 ug/l  
RT: 10.09 min Scan# 2587  
Delta R.T. -0.00 min  
Lab File: VN051590.D  
Acq: 27 Sep 2018 18:29

Tgt Ion: 98 Resp: 1433083  
Ion Ratio Lower Upper  
98 100  
100 62.7 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN0  
Ion 100.00 (99.70 to 100.70): VN0

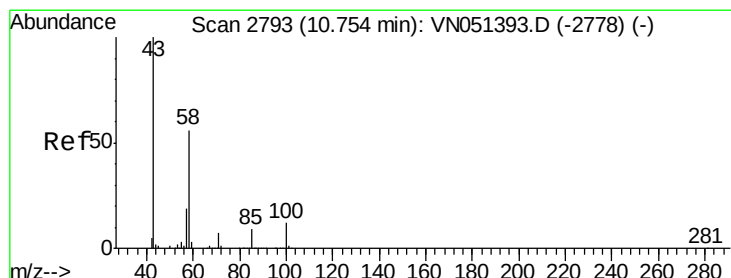
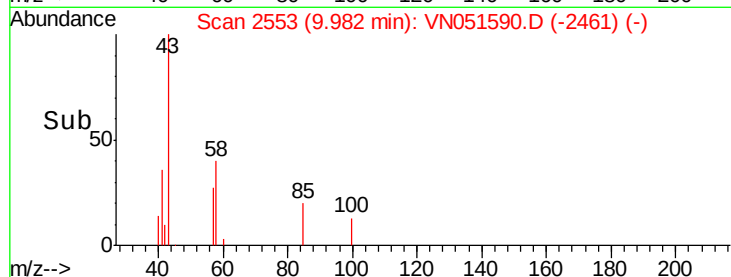
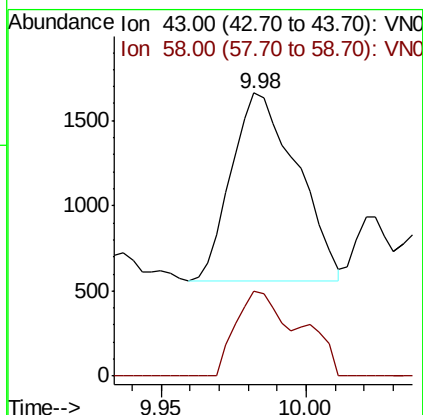
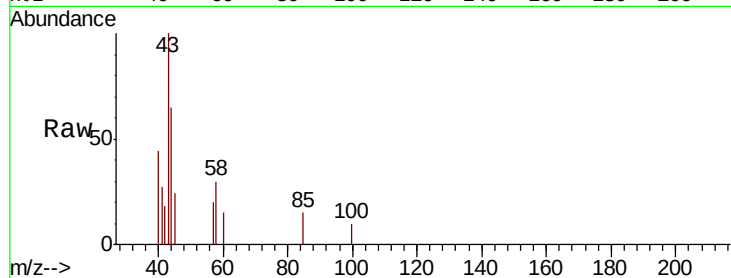




#51  
 4-Methyl-2-Pentanone  
 Concen: 0.256 ug/l  
 RT: 9.98 min Scan# 2553  
 Delta R.T. -0.00 min  
 Lab File: VN051590.D  
 Acq: 27 Sep 2018 18:29

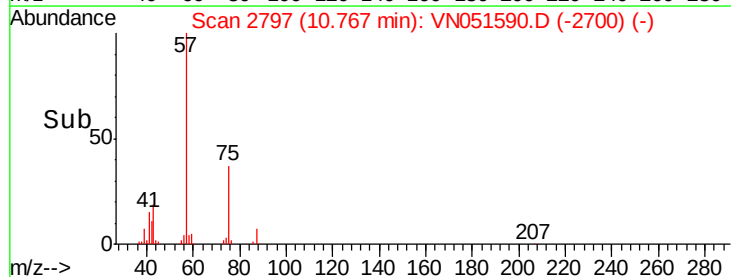
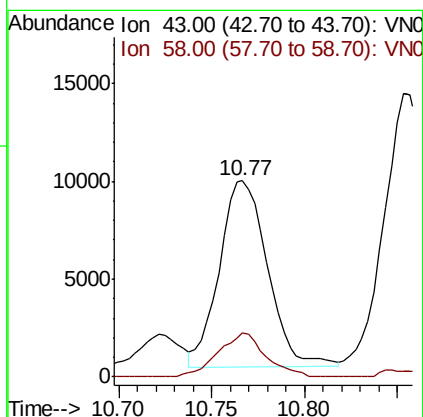
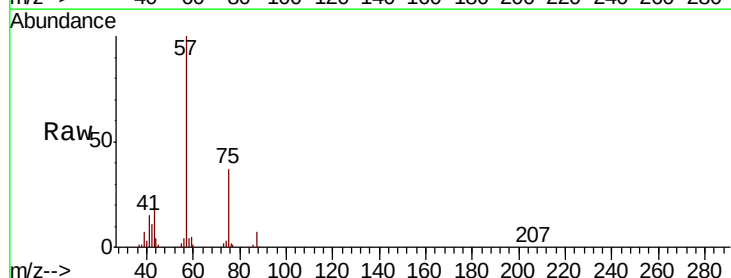
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB113263ZHE#02

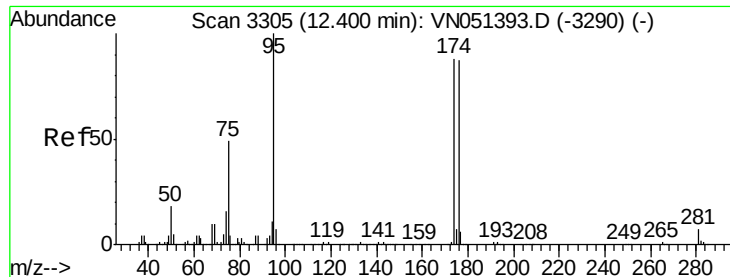
Tot Ion: 43 Resp: 1746  
 Ion Ratio Lower Upper  
 43 100  
 58 31.7 31.5 47.3



#59  
 2-Hexanone  
 Concen: 3.913 ug/l  
 RT: 10.77 min Scan# 2797  
 Delta R.T. 0.01 min  
 Lab File: VN051590.D  
 Acq: 27 Sep 2018 18:29

Tgt Ion: 43 Resp: 17279  
 Ion Ratio Lower Upper  
 43 100  
 58 23.1 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 37.818 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051590.D

Acq: 27 Sep 2018 18:29

Instrument :

MSVOA\_N

ClientSampleId :

PB113263ZHE#02

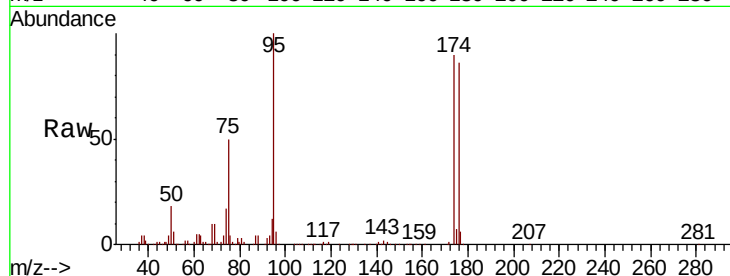
Tot Ion: 95 Resp: 378965

Ion Ratio Lower Upper

95 100

174 90.3 0.0 181.6

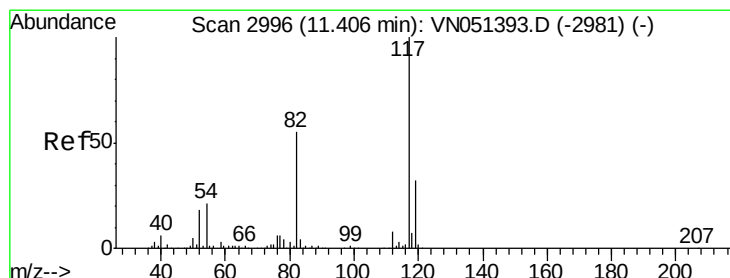
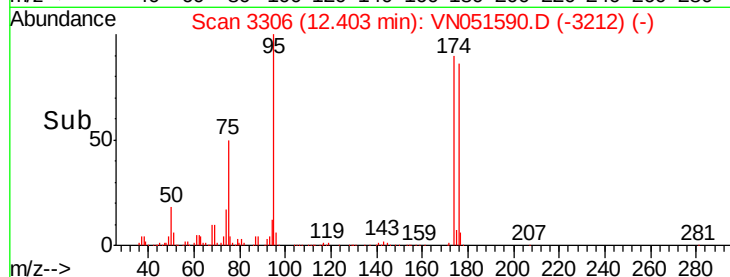
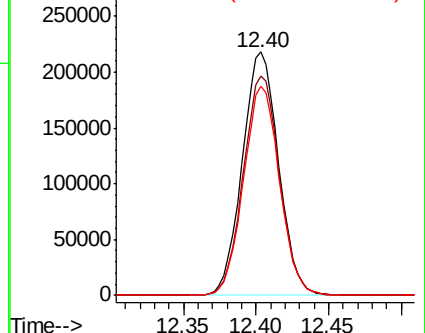
176 85.7 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051590.D

Acq: 27 Sep 2018 18:29

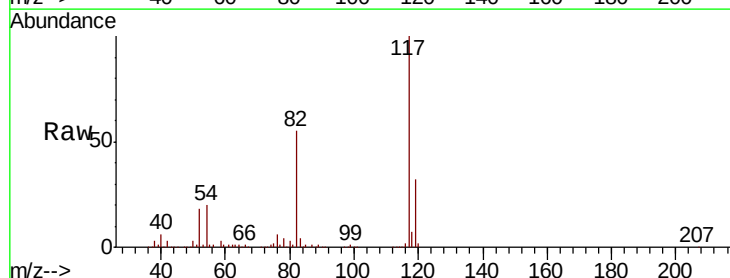
Tgt Ion: 117 Resp: 868487

Ion Ratio Lower Upper

117 100

82 55.3 44.2 66.2

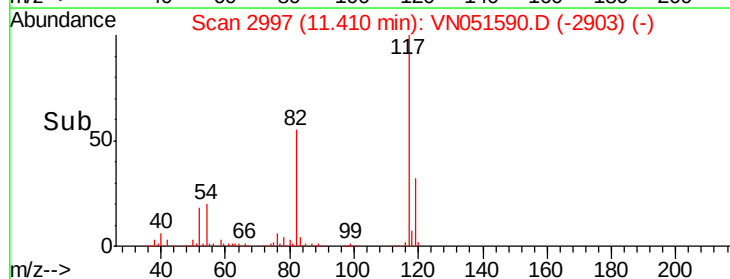
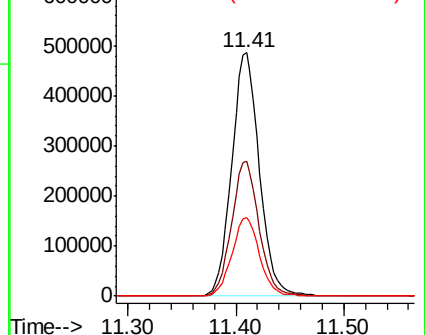
119 32.2 25.9 38.9

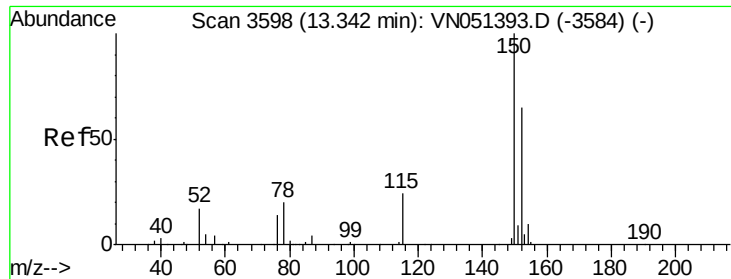


Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)



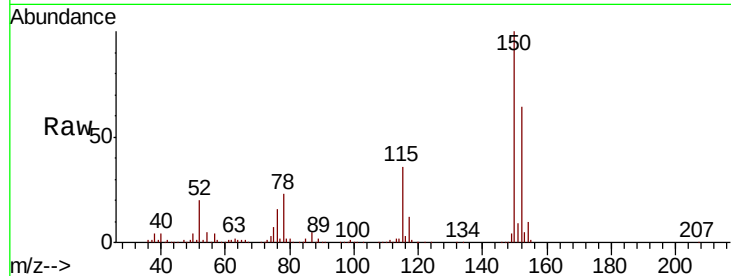


#72

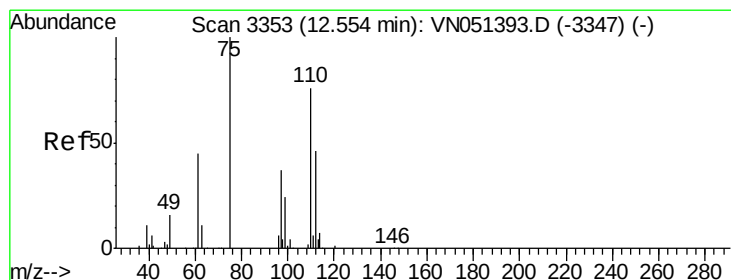
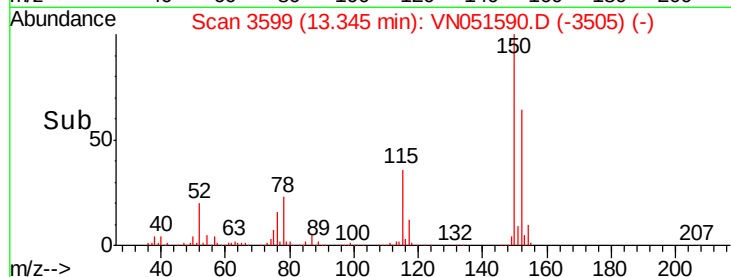
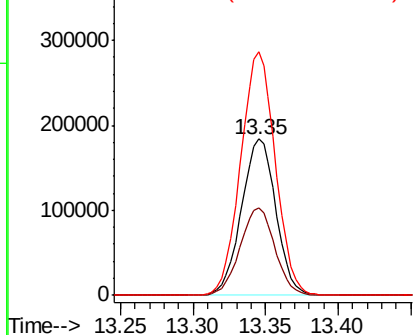
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: VN051590.D  
Acq: 27 Sep 2018 18:29

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB113263ZHE#02

Tot Ion:152 Resp: 304043  
Ion Ratio Lower Upper  
152 100  
115 56.4 28.3 84.9  
150 156.4 0.0 353.6



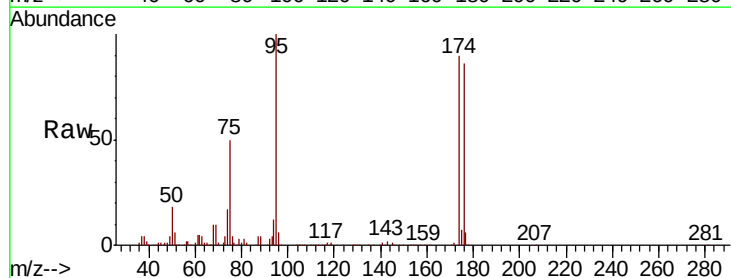
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



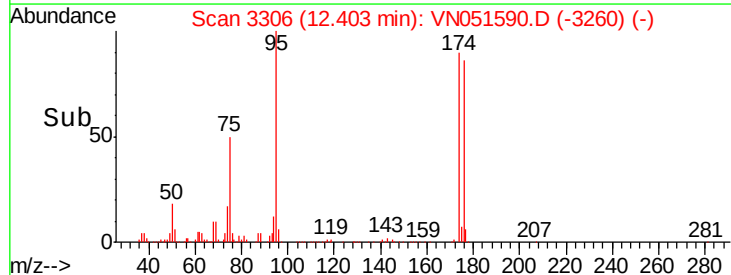
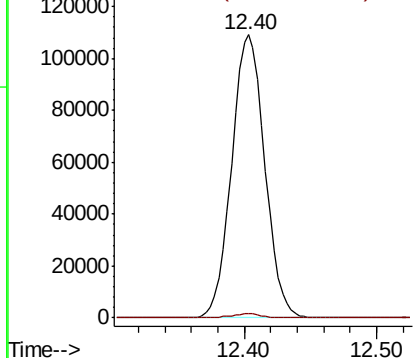
#76

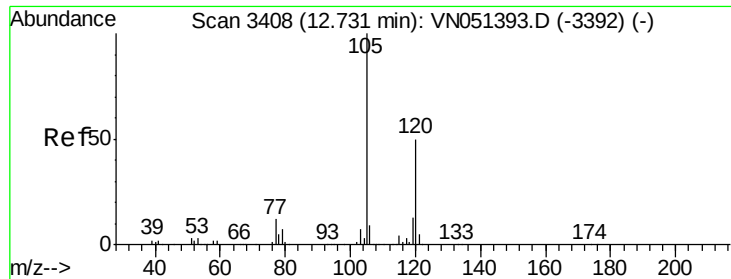
1,2,3-Trichloropropane  
Concen: 37.469 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. -0.15 min  
Lab File: VN051590.D  
Acq: 27 Sep 2018 18:29

Tgt Ion: 75 Resp: 189119  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO  
Ion 77.00 (76.70 to 77.70): VNO

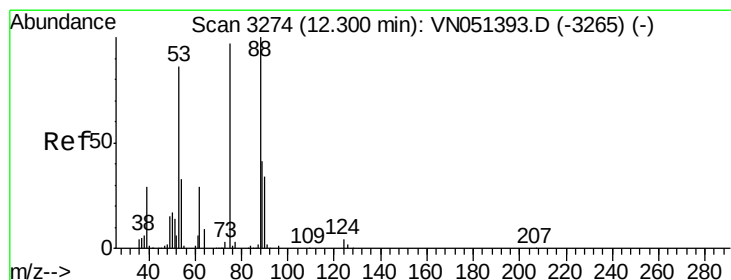
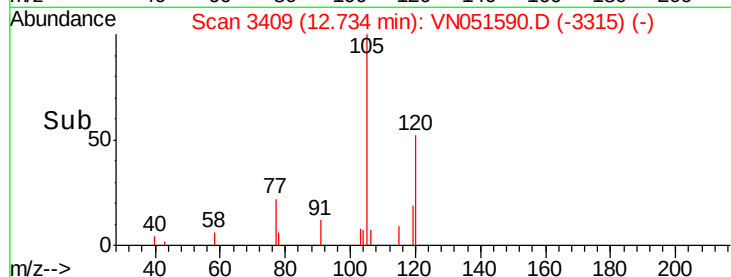
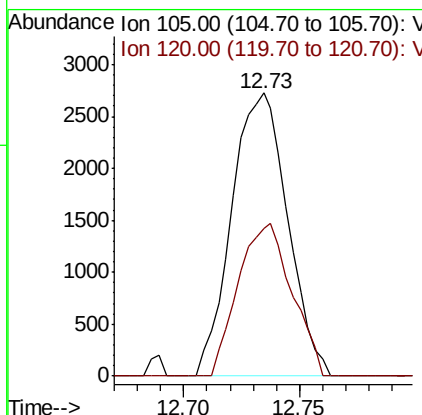
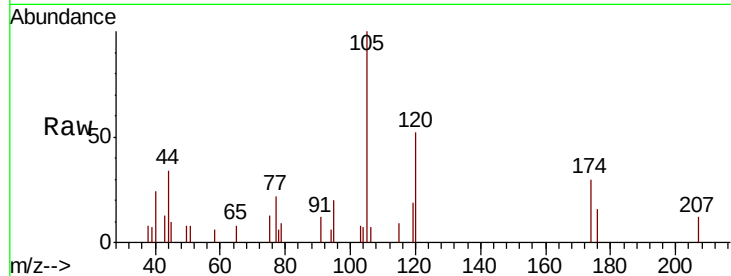




#80  
 1,3,5-Trimethylbenzene  
 Concen: 0.218 ug/l  
 RT: 12.73 min Scan# 3409  
 Delta R.T. 0.00 min  
 Lab File: VN051590.D  
 Acq: 27 Sep 2018 18:29

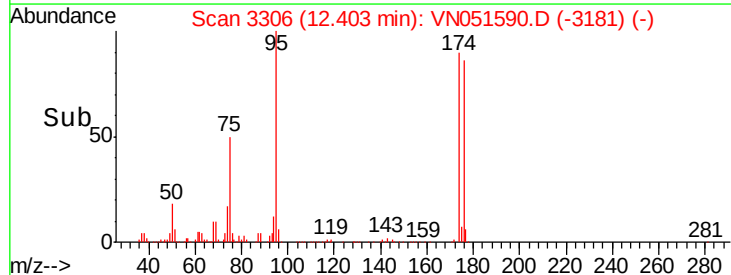
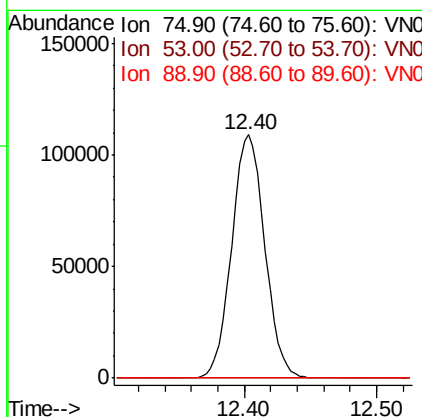
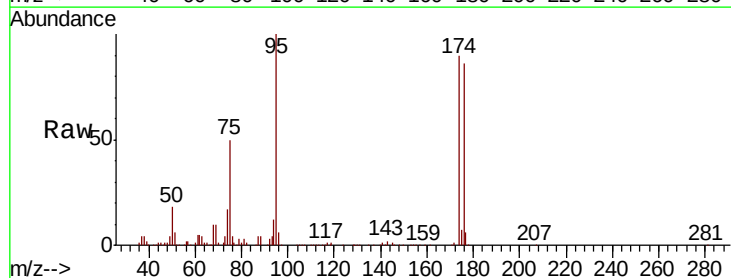
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB113263ZHE#02

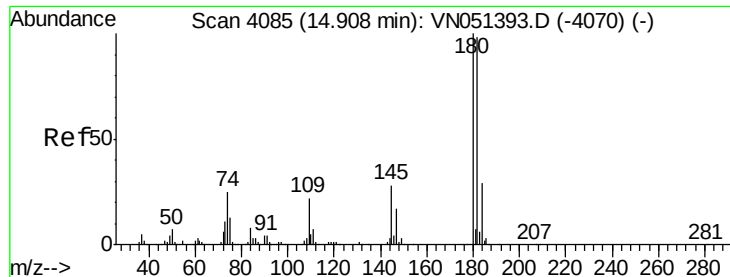
Tot Ion:105 Resp: 4567  
 Ion Ratio Lower Upper  
 105 100  
 120 51.7 24.8 74.4



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 115.215 ug/l  
 RT: 12.40 min Scan# 3306  
 Delta R.T. 0.10 min  
 Lab File: VN051590.D  
 Acq: 27 Sep 2018 18:29

Tgt Ion: 75 Resp: 189119  
 Ion Ratio Lower Upper  
 75 100  
 53 0.3 73.9 110.9#  
 89 0.0 36.7 55.1#





#93

1,2,4-Trichlorobenzene

Concen: 5.991 ug/l

RT: 14.90 min Scan# 4082

Delta R.T. -0.01 min

Lab File: VN051590.D

Acq: 27 Sep 2018 18:29

Instrument :

MSVOA\_N

ClientSampleId :

PB113263ZHE#02

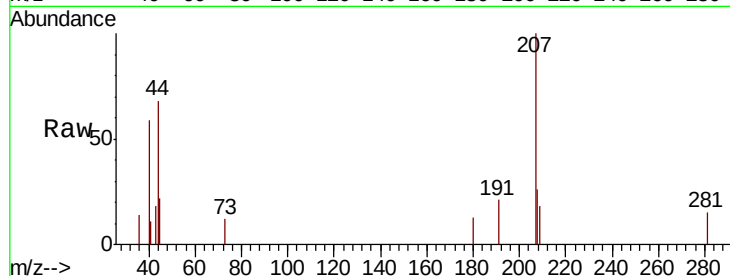
Tot Ion:180 Resp: 63

Ion Ratio Lower Upper

180 100

182 0.0 48.5 145.6#

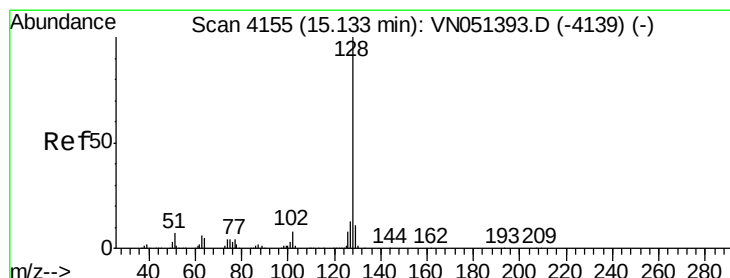
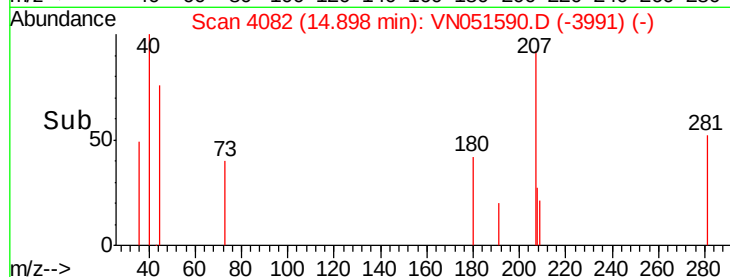
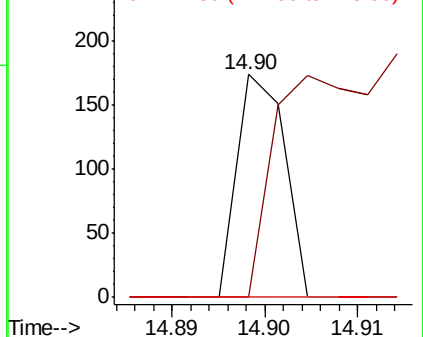
145 0.0 14.1 42.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 8.077 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN051590.D

Acq: 27 Sep 2018 18:29

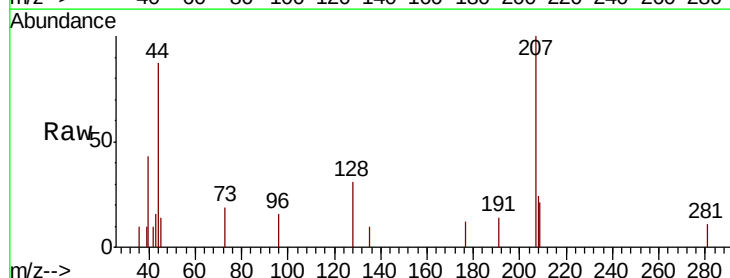
Tgt Ion:128 Resp: 440

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.6 12.8#



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

