

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060220\  
 Data File : VN061610.D  
 Acq On : 2 Jun 2020 10:48  
 Operator : JC/MD  
 Sample : VN0602MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jun 03 00:41:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 29 02:14:10 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 303119   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 528125   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 508618   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 222256   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 178441   | 49.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.82%  |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 146997   | 54.87 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.74% |          |
| 50) Toluene-d8              | 10.06 | 98   | 627983   | 50.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.16% |          |
| 62) 4-Bromofluorobenzene    | 12.37 | 95   | 230054   | 50.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.58% |          |

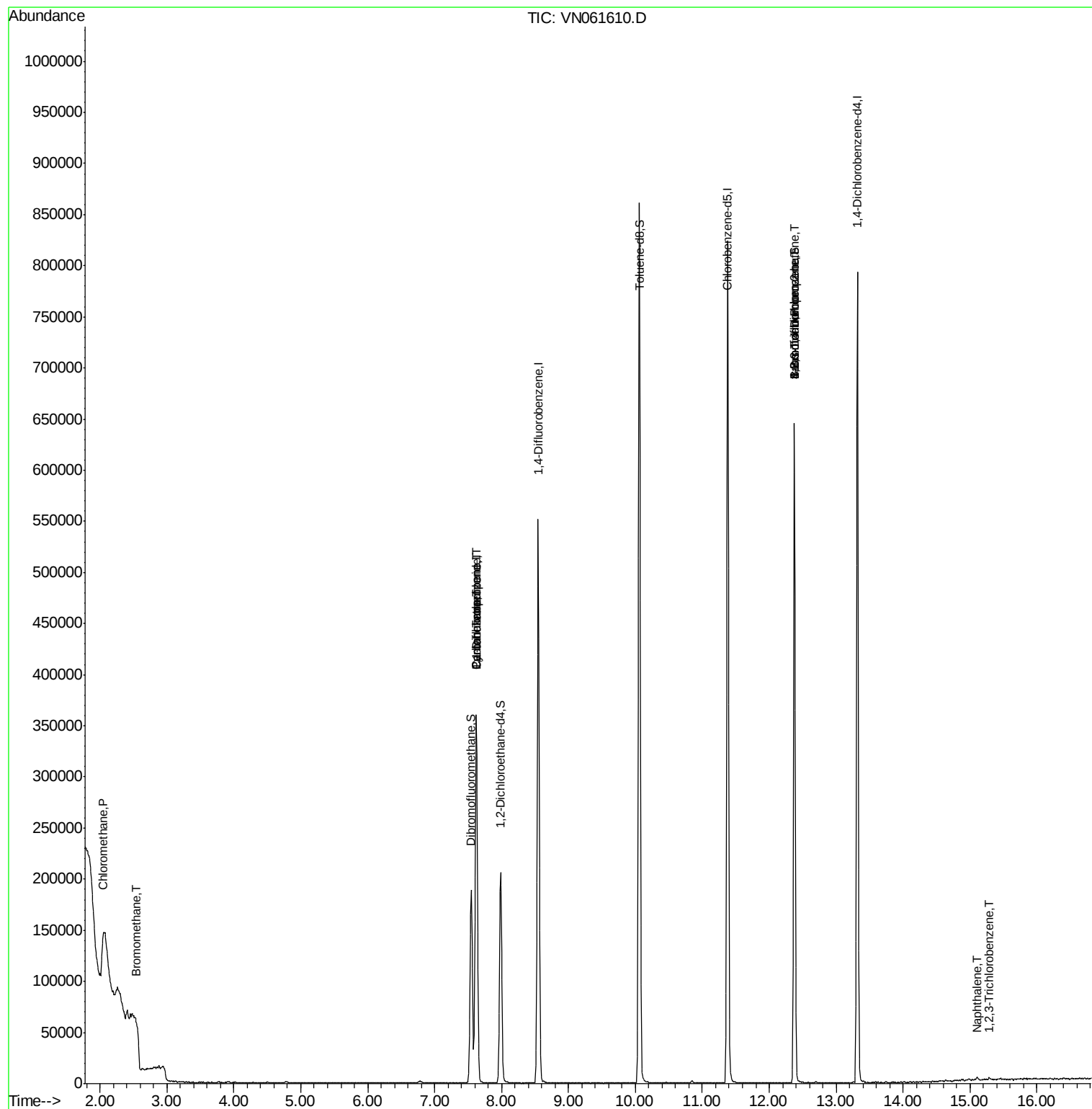
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.04  | 50   | 1605     | 0.434     | ug/l # | 83     |
| 5) Bromomethane                | 2.55  | 94   | 1202     | 0.413     | ug/l   | 87     |
| 16) Acetone                    | 3.76  | 43   | 503      | Below Cal | #      | 41     |
| 20) Methylene Chloride         | 4.50  | 84   | 63       | Below Cal | #      | 37     |
| 31) Cyclohexane                | 7.63  | 56   | 5828     | 1.145     | ug/l # | 19     |
| 36) 1,1-Dichloropropene        | 7.62  | 75   | 22013    | 4.708     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 30319    | 6.723     | ug/l # | 16     |
| 71) Bromoform                  | 12.38 | 173  | 1753     | 0.578     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.37 | 75   | 113818   | 28.163    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.37 | 75   | 113818   | 72.019    | ug/l # | 15     |
| 95) Naphthalene                | 15.11 | 128  | 2953     | 0.237     | ug/l # | 81     |
| 96) 1,2,3-Trichlorobenzene     | 15.28 | 180  | 915      | 0.227     | ug/l # | 74     |

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

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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Jun 03 00:41:02 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
Quant Title : SW846 8260  
QLast Update : Fri May 29 02:14:10 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN061610.D

Acq: 2 Jun 2020 10:48

Instrument :

MSVOA\_N

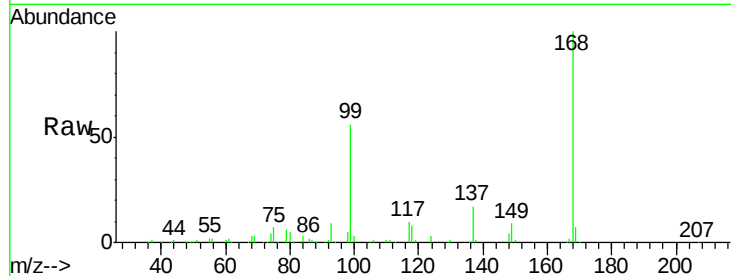
ClientSampleId :

Tot Ion:168 Resp: 303119

Ion Ratio Lower Upper

168 100

99 56.2 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

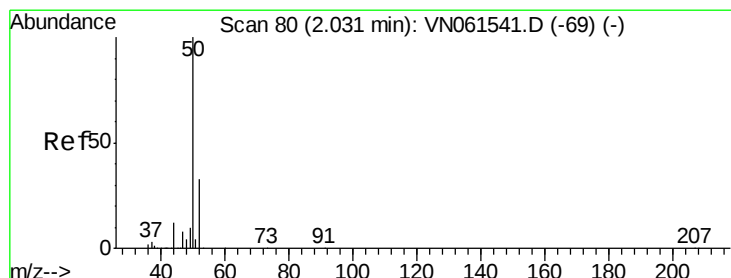
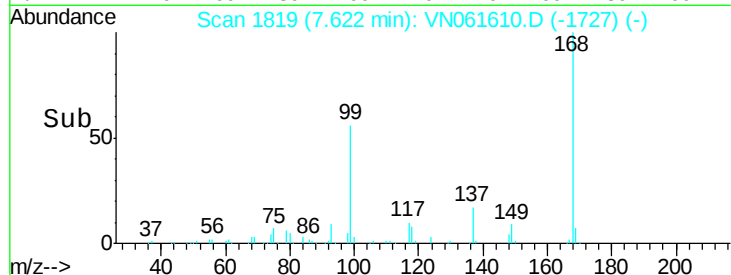
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.434 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.01 min

Lab File: VN061610.D

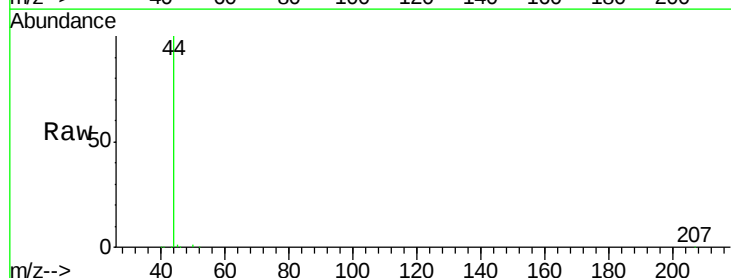
Acq: 2 Jun 2020 10:48

Tgt Ion: 50 Resp: 1605

Ion Ratio Lower Upper

50 100

52 42.9 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1000

800

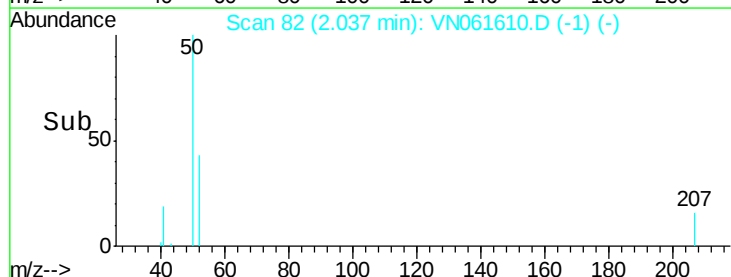
600

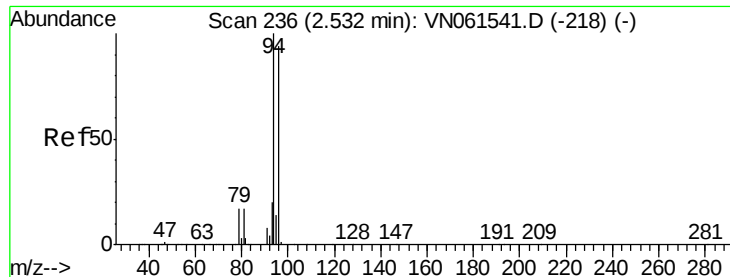
400

200

0

Time-->





#5

Bromomethane

Concen: 0.413 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061610.D

Acq: 2 Jun 2020 10:48

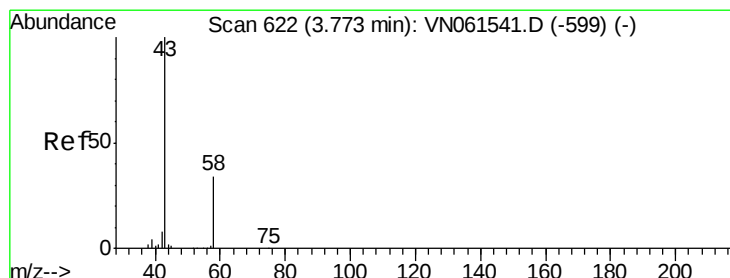
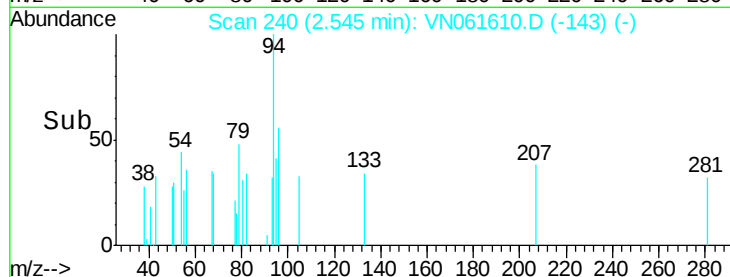
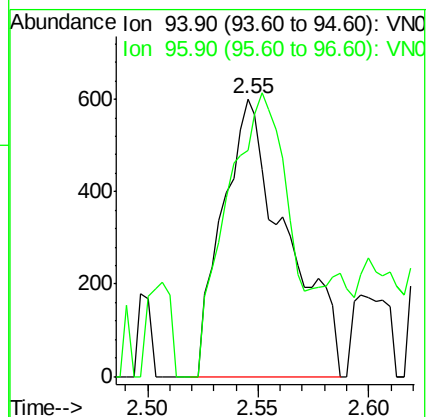
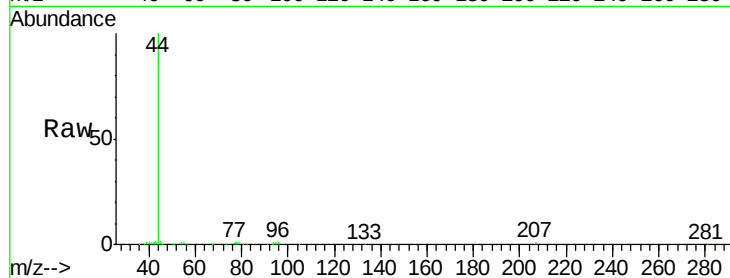
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 94 Resp: 1202

Ion Ratio Lower Upper

94 100

96 81.4 74.8 112.2



#16

Acetone

Concen: Below Cal

RT: 3.76 min Scan# 618

Delta R.T. -0.01 min

Lab File: VN061610.D

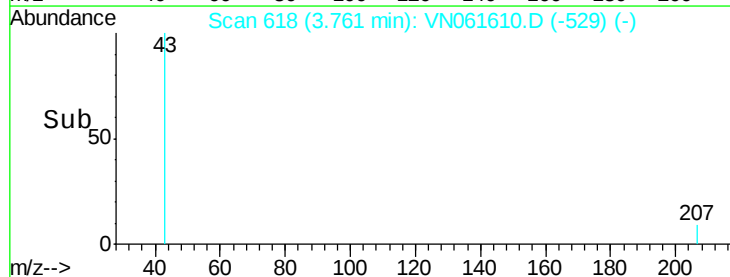
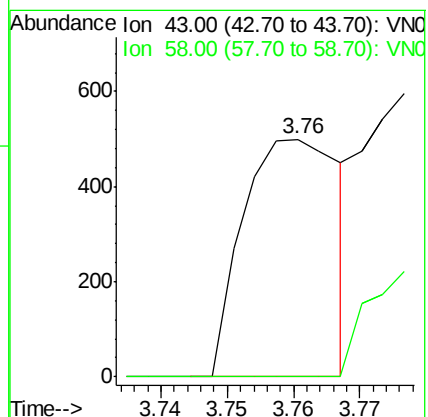
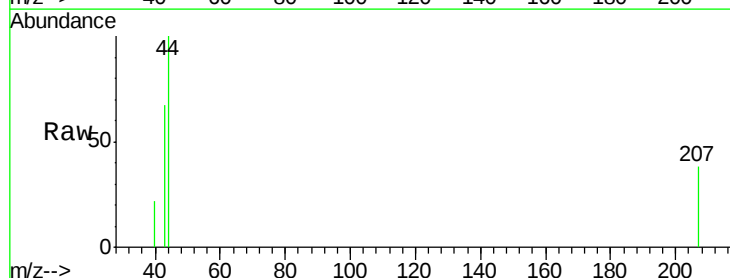
Acq: 2 Jun 2020 10:48

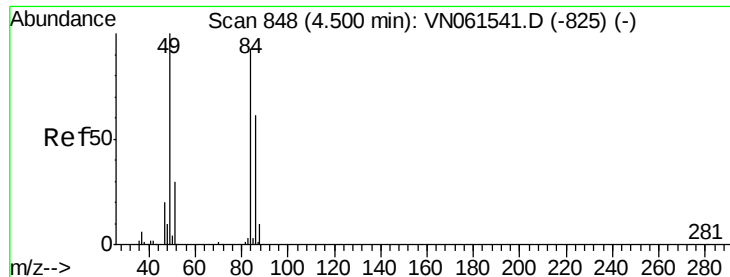
Tgt Ion: 43 Resp: 503

Ion Ratio Lower Upper

43 100

58 0.0 27.2 40.8#

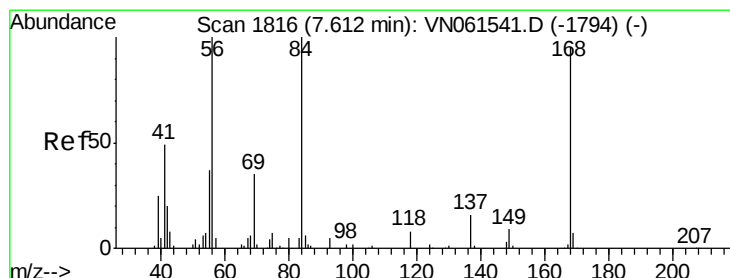
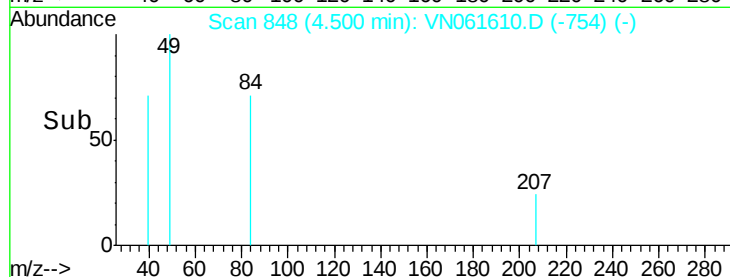
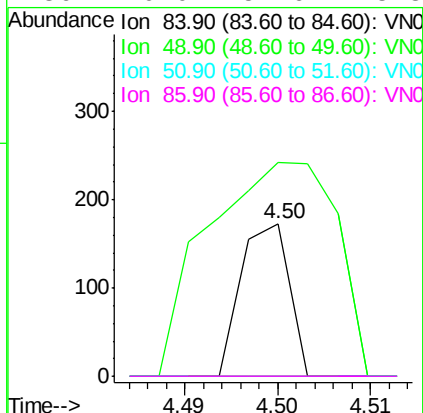
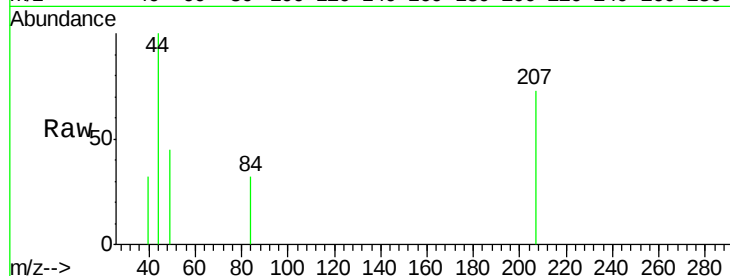




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.50 min Scan# 848  
Delta R.T. 0.00 min  
Lab File: VN061610.D  
Acq: 2 Jun 2020 10:48

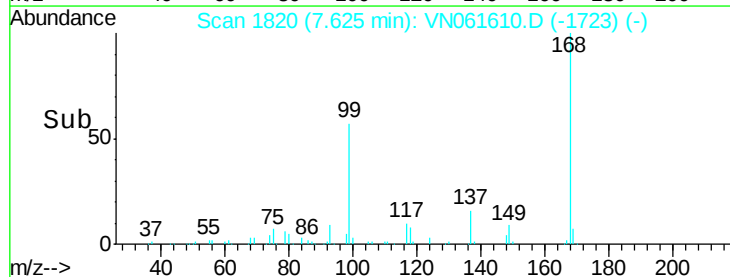
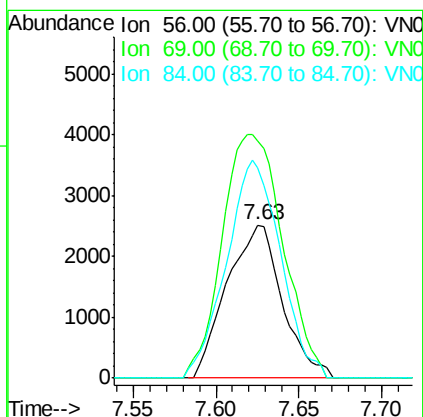
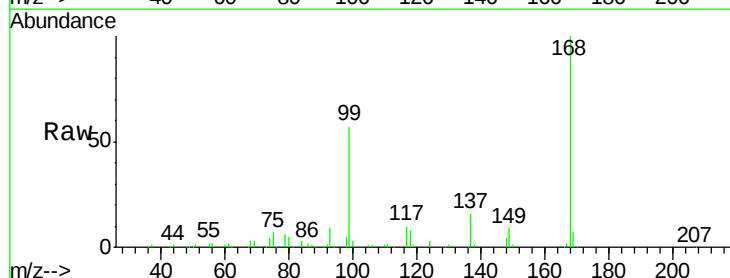
Instrument :  
MSVOA\_N  
ClientSampleId :

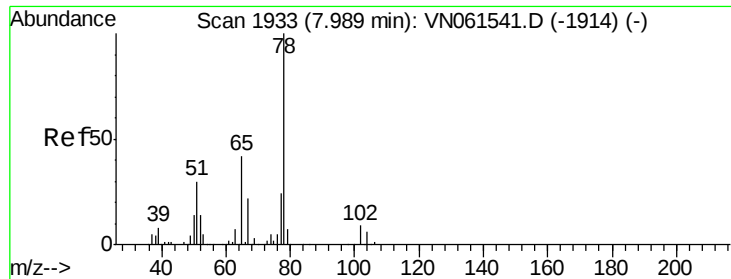
Tot Ion: 84 Resp: 63  
Ion Ratio Lower Upper  
84 100  
49 52.0 85.8 128.8#  
51 0.0 26.2 39.2#  
86 0.0 52.6 78.8#



#31  
Cyclohexane  
Concen: 1.145 ug/l  
RT: 7.63 min Scan# 1820  
Delta R.T. 0.01 min  
Lab File: VN061610.D  
Acq: 2 Jun 2020 10:48

Tgt Ion: 56 Resp: 5828  
Ion Ratio Lower Upper  
56 100  
69 154.4 27.8 41.8#  
84 137.5 79.9 119.9#

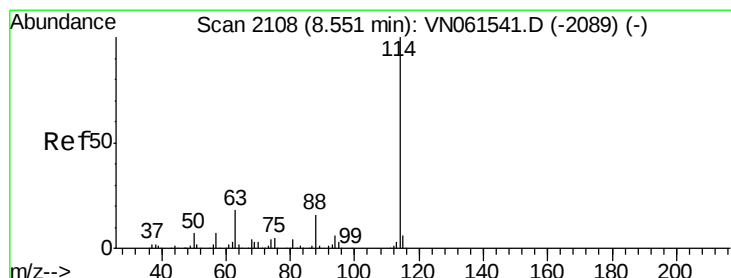
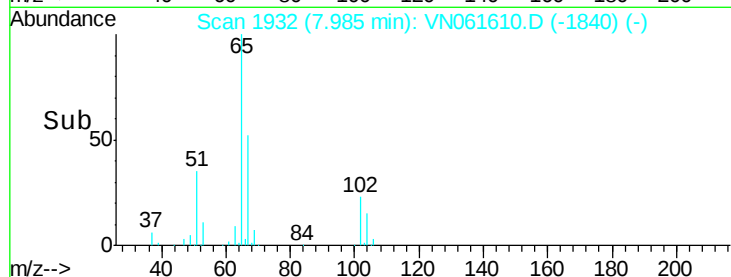
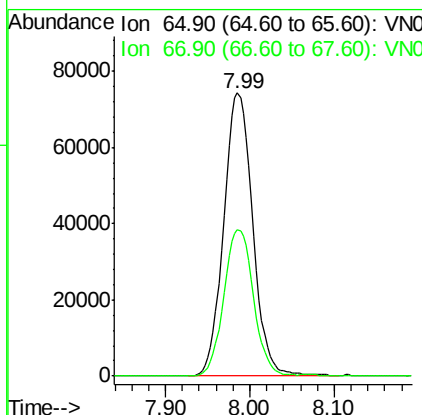
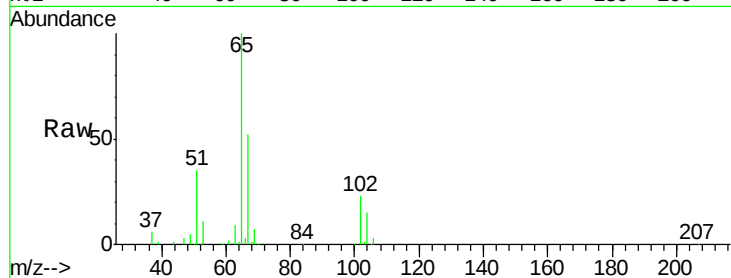




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.409 ug/l  
 RT: 7.99 min Scan# 1932  
 Delta R.T. -0.00 min  
 Lab File: VN061610.D  
 Acq: 2 Jun 2020 10:48

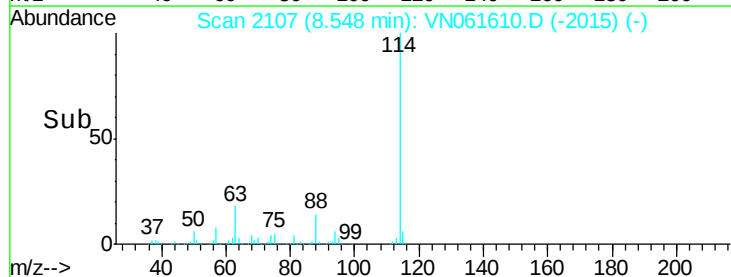
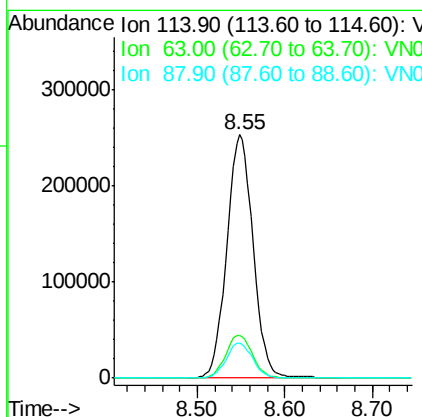
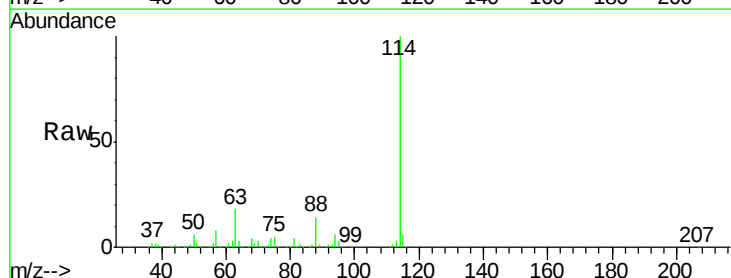
Instrument :  
 MSVOA\_N  
 ClientSampleId :

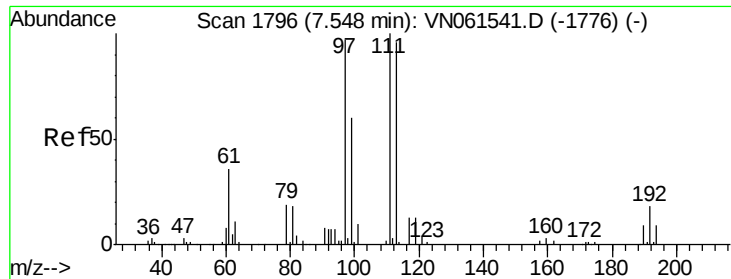
Tot Ion: 65 Resp: 178441  
 Ion Ratio Lower Upper  
 65 100  
 67 52.6 0.0 104.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2107  
 Delta R.T. -0.00 min  
 Lab File: VN061610.D  
 Acq: 2 Jun 2020 10:48

Tgt Ion: 114 Resp: 528125  
 Ion Ratio Lower Upper  
 114 100  
 63 17.8 0.0 35.8  
 88 14.5 0.0 31.0

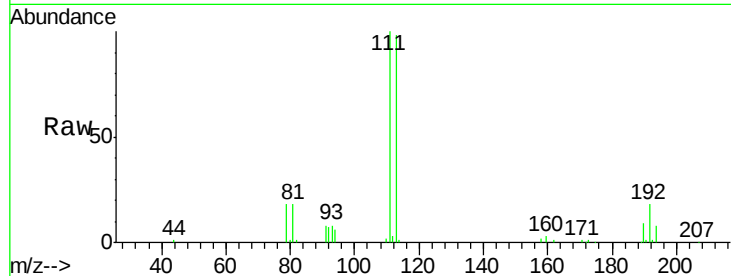




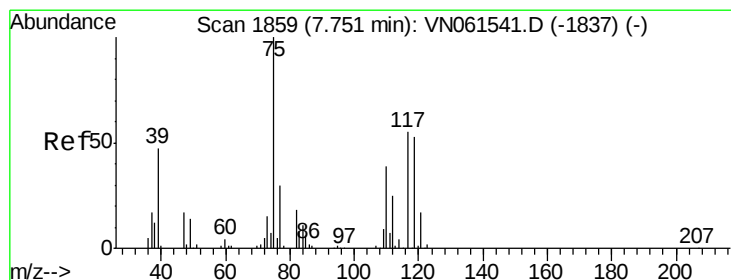
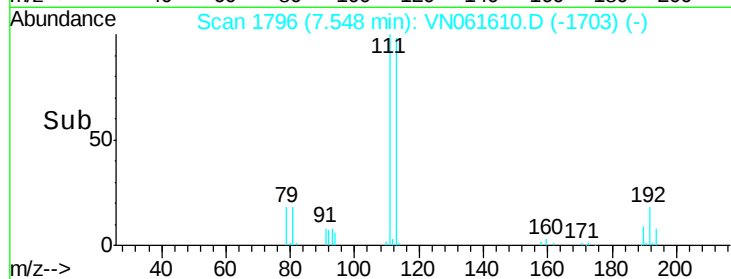
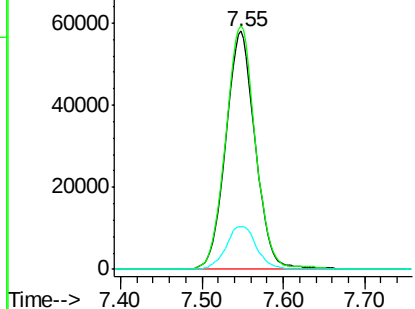
#35  
 Dibromofluoromethane  
 Concen: 54.868 ug/l  
 RT: 7.55 min Scan# 1796  
 Delta R.T. 0.00 min  
 Lab File: VN061610.D  
 Acq: 2 Jun 2020 10:48

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.3 | 83.4  | 125.0 |
| 192     | 18.6  | 15.4  | 23.2  |

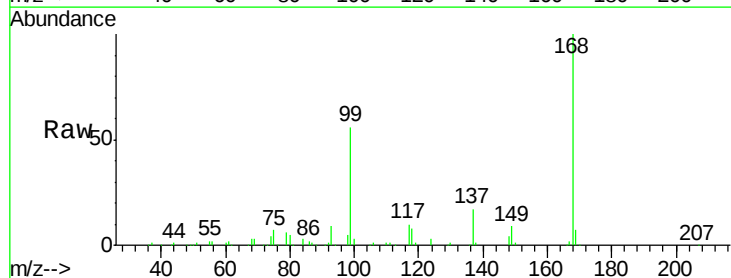


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

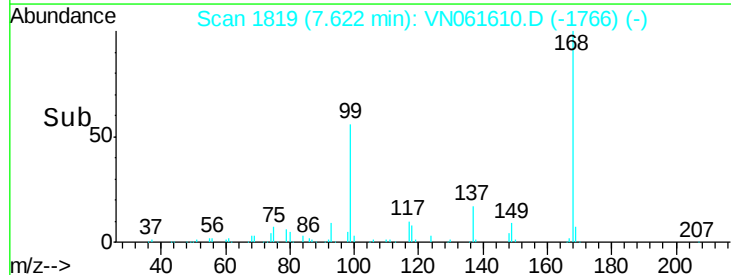
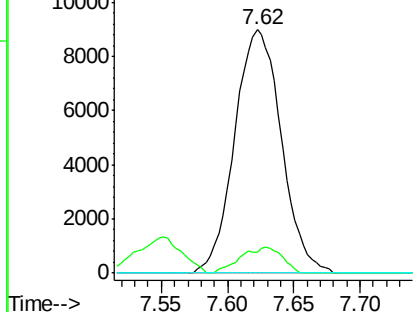


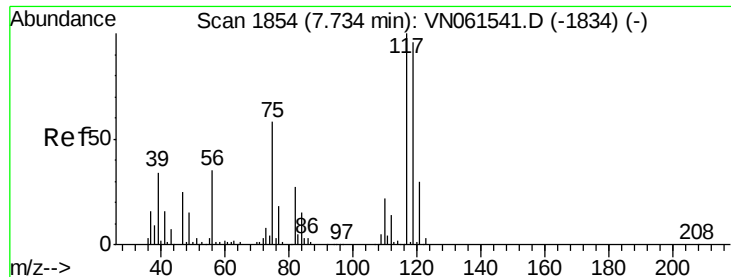
#36  
 1,1-Dichloropropene  
 Concen: 4.708 ug/l  
 RT: 7.62 min Scan# 1819  
 Delta R.T. -0.13 min  
 Lab File: VN061610.D  
 Acq: 2 Jun 2020 10:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.5   | 19.5  | 58.5# |
| 77      | 0.0   | 24.7  | 37.1# |



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

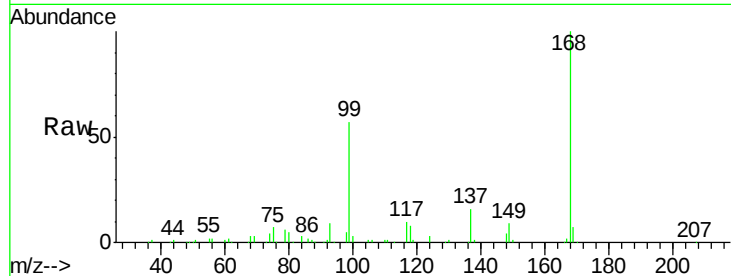




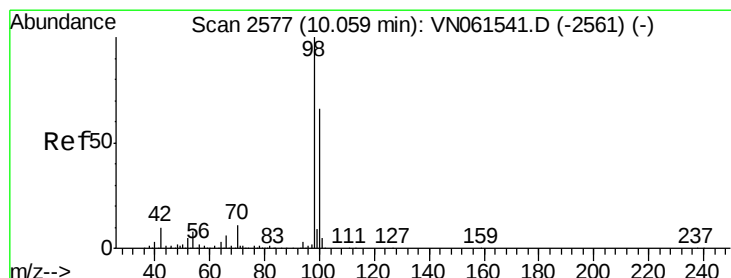
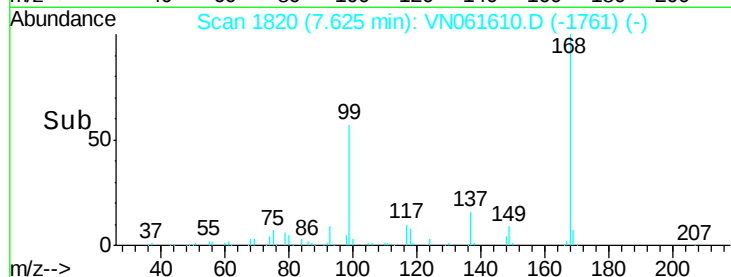
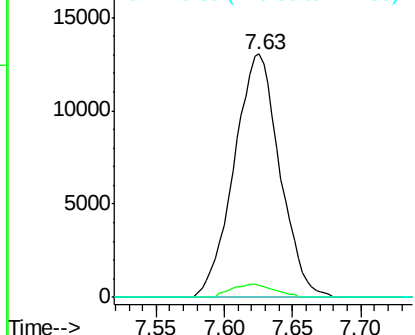
#38  
Carbon Tetrachloride  
Concen: 6.723 ug/l  
RT: 7.63 min Scan# 1820  
Delta R.T. -0.11 min  
Lab File: VN061610.D  
Acq: 2 Jun 2020 10:48

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:117 Resp: 30319  
Ion Ratio Lower Upper  
117 100  
119 5.1 76.5 114.7#  
121 0.0 24.1 36.1#

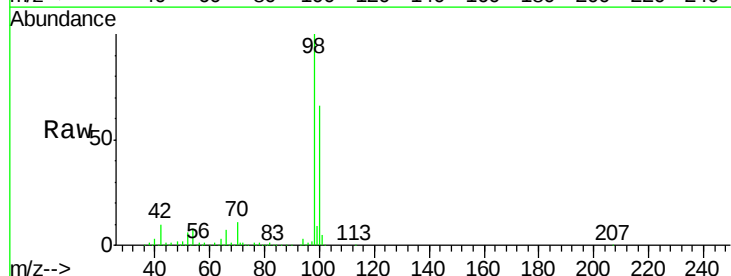


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

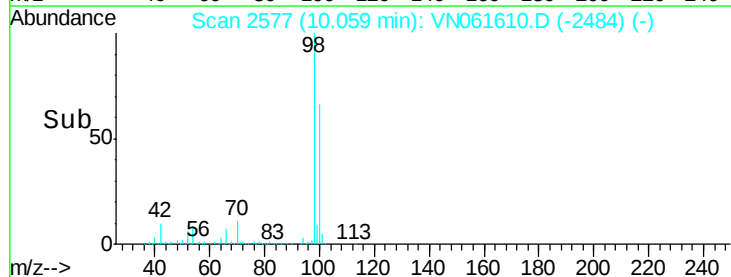
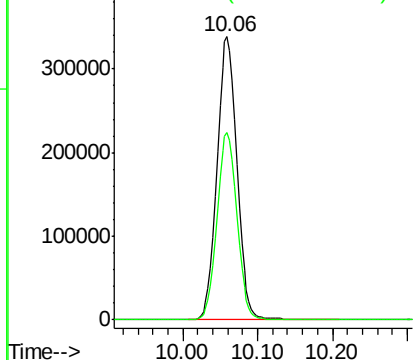


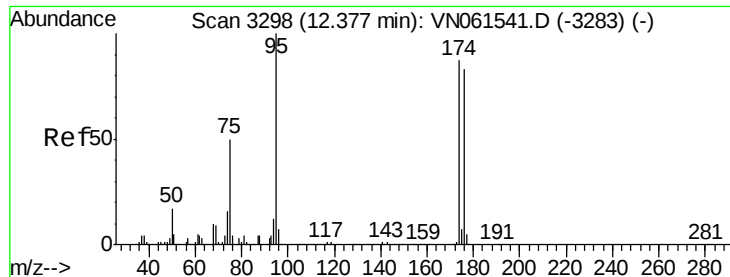
#50  
Toluene-d8  
Concen: 50.582 ug/l  
RT: 10.06 min Scan# 2577  
Delta R.T. 0.00 min  
Lab File: VN061610.D  
Acq: 2 Jun 2020 10:48

Tgt Ion: 98 Resp: 627983  
Ion Ratio Lower Upper  
98 100  
100 66.4 52.8 79.2



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

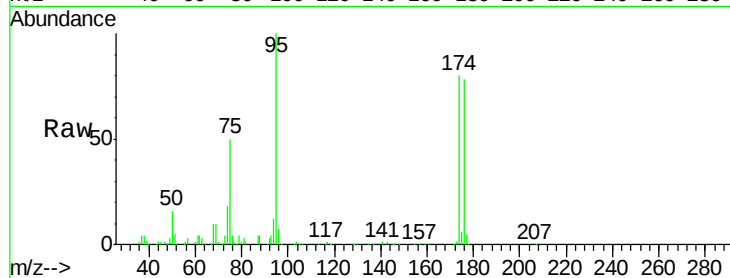




#62  
4-Bromofluorobenzene  
Concen: 50.790 ug/l  
RT: 12.37 min Scan# 3297  
Delta R.T. -0.00 min  
Lab File: VN061610.D  
Acq: 2 Jun 2020 10:48

Instrument :  
MSVOA\_N  
ClientSampleId :

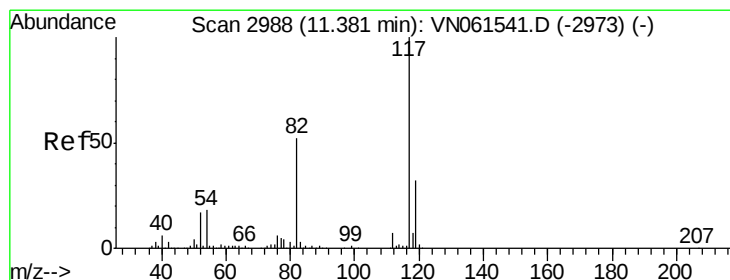
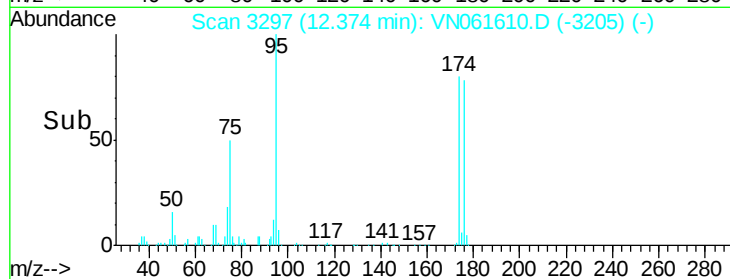
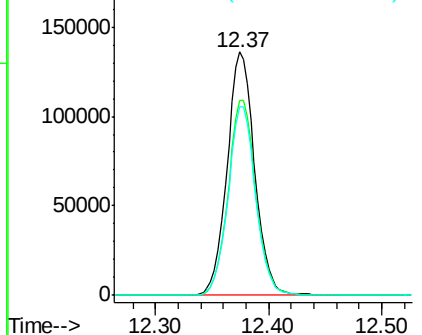
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 80.2  | 0.0   | 172.8 |
| 176     | 77.7  | 0.0   | 164.8 |



Abundance Ion 94.90 (94.60 to 95.60): VN061610.D (-3283) (-)

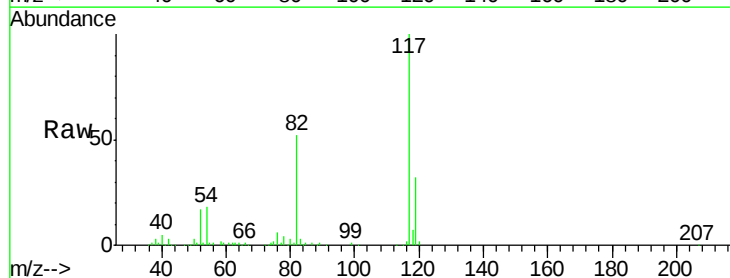
Ion 173.80 (173.50 to 174.50): VN061610.D (-3283) (-)

Ion 175.80 (175.50 to 176.50): VN061610.D (-3283) (-)



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2987  
Delta R.T. -0.00 min  
Lab File: VN061610.D  
Acq: 2 Jun 2020 10:48

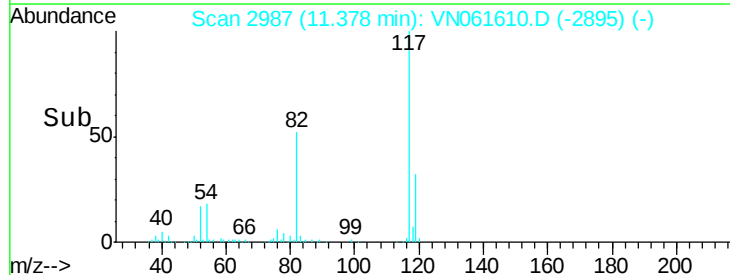
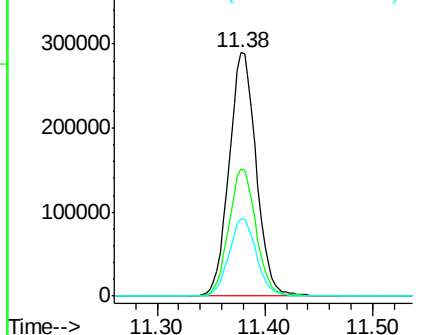
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.4  | 41.5  | 62.3  |
| 119     | 31.9  | 25.6  | 38.4  |

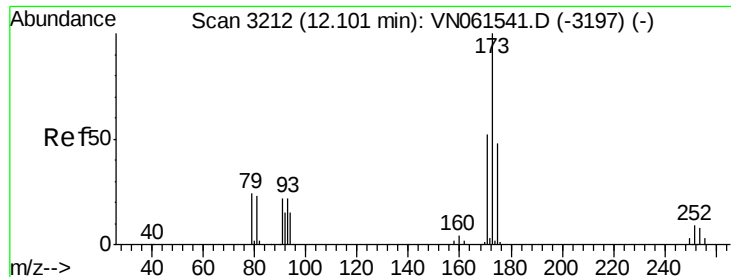


Abundance Ion 116.90 (116.60 to 117.60): VN061610.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061610.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061610.D (-2973) (-)

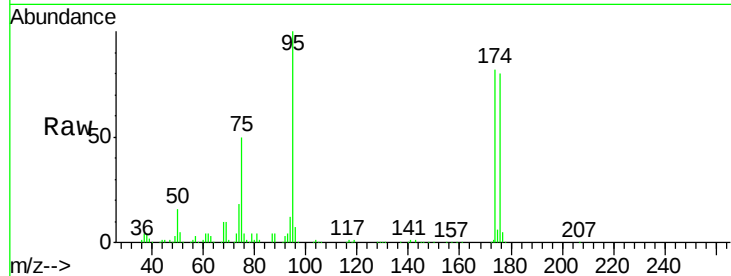




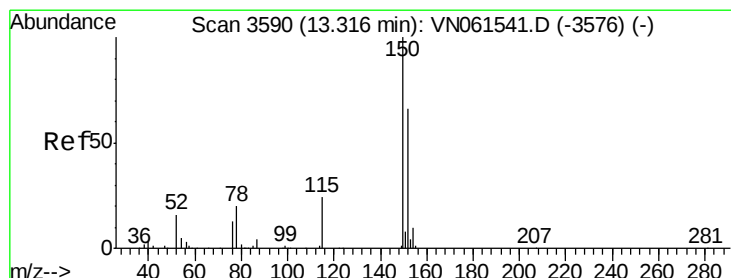
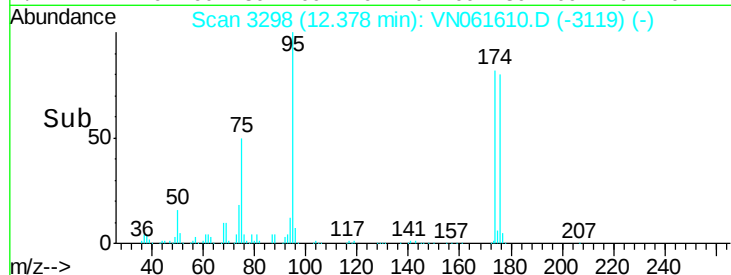
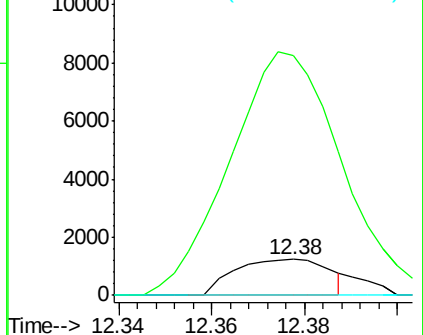
#71  
Bromoform  
Concen: 0.578 ug/l  
RT: 12.38 min Scan# 3298  
Delta R.T. 0.28 min  
Lab File: VN061610.D  
Acq: 2 Jun 2020 10:48

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:173 Resp: 1753  
Ion Ratio Lower Upper  
173 100  
175 696.7 24.4 73.2#  
254 0.0 0.0 0.0

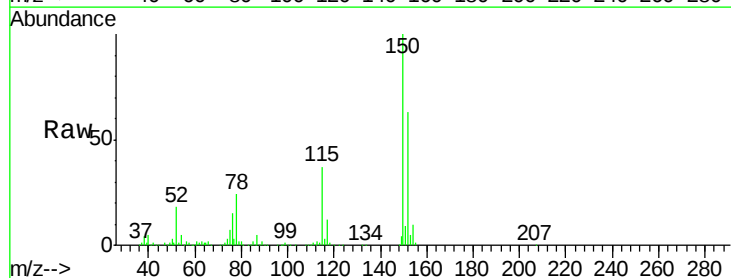


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

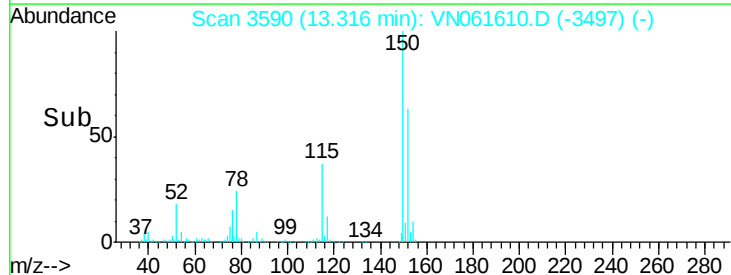
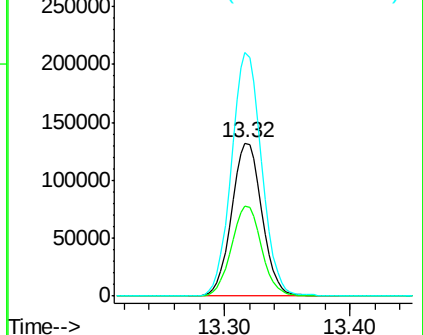


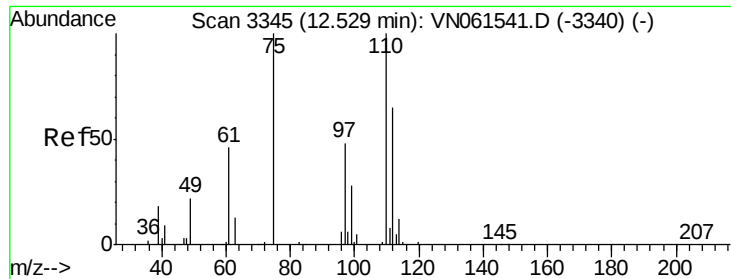
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3590  
Delta R.T. 0.00 min  
Lab File: VN061610.D  
Acq: 2 Jun 2020 10:48

Tgt Ion:152 Resp: 222256  
Ion Ratio Lower Upper  
152 100  
115 58.3 28.0 84.0  
150 158.2 0.0 344.0



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

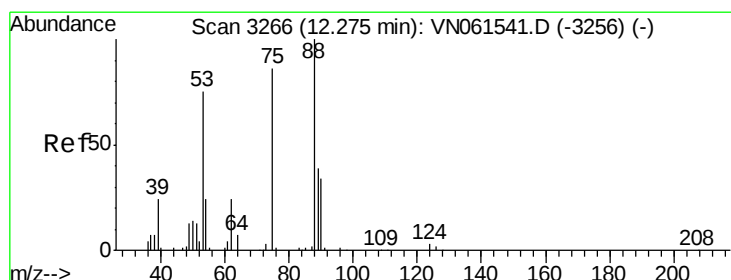
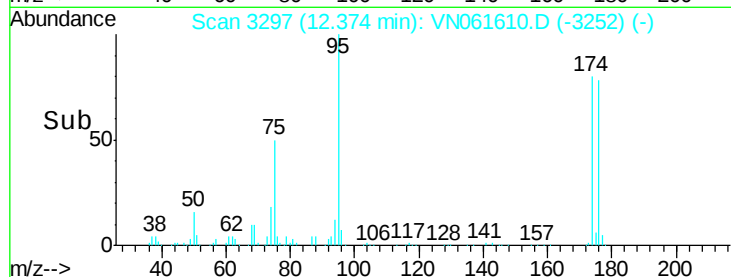
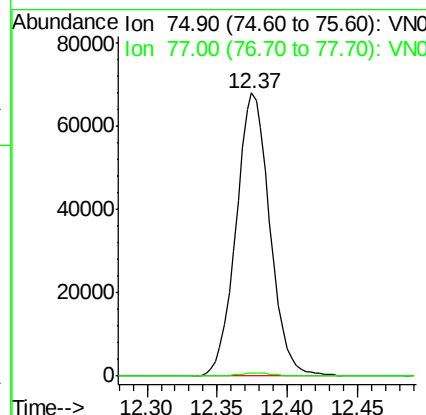
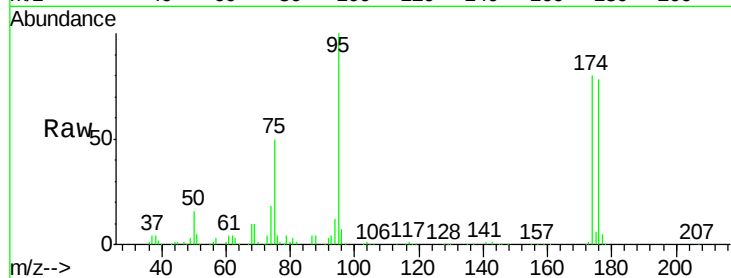




#76  
 1,2,3-Trichloropropane  
 Concen: 28.163 ug/l  
 RT: 12.37 min Scan# 3297  
 Delta R.T. -0.15 min  
 Lab File: VN061610.D  
 Acq: 2 Jun 2020 10:48

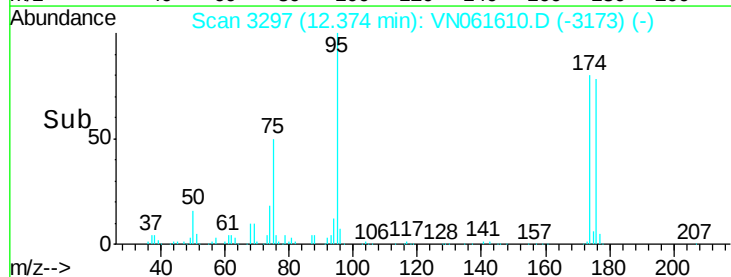
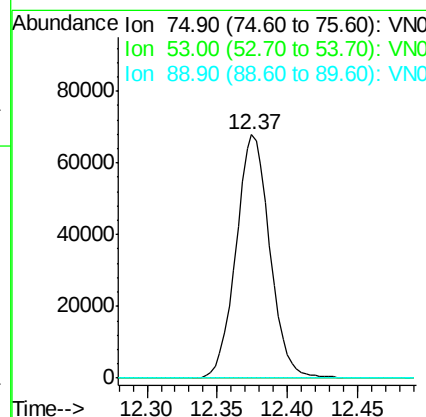
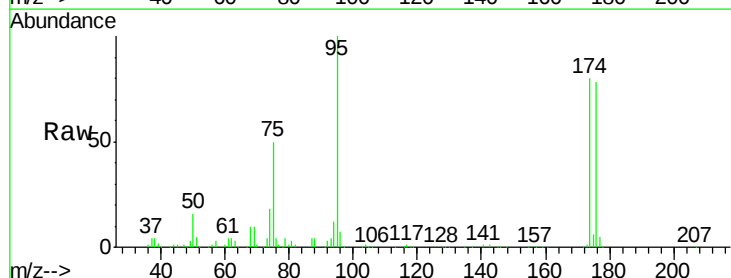
Instrument :  
 MSVOA\_N  
 ClientSampled :

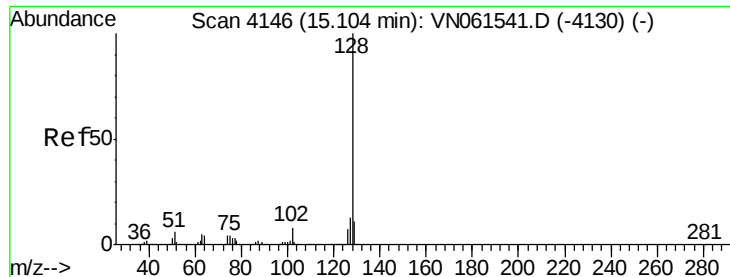
Tot Ion: 75 Resp: 113818  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 72.019 ug/l  
 RT: 12.37 min Scan# 3297  
 Delta R.T. 0.10 min  
 Lab File: VN061610.D  
 Acq: 2 Jun 2020 10:48

Tgt Ion: 75 Resp: 113818  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 67.8 101.8#  
 89 0.0 37.1 55.7#





#95

Naphthalene

Concen: 0.237 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN061610.D

Acq: 2 Jun 2020 10:48

Instrument :

MSVOA\_N

ClientSampleId :

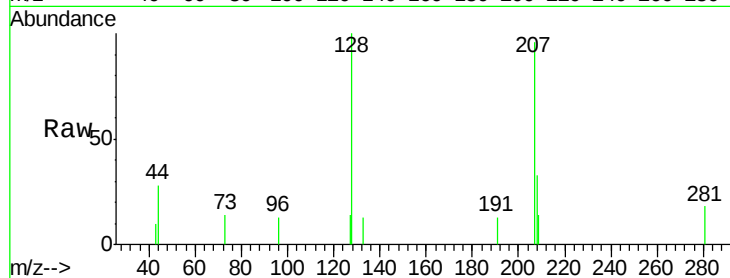
Tot Ion:128 Resp: 2953

Ion Ratio Lower Upper

128 100

127 7.9 10.0 15.0#

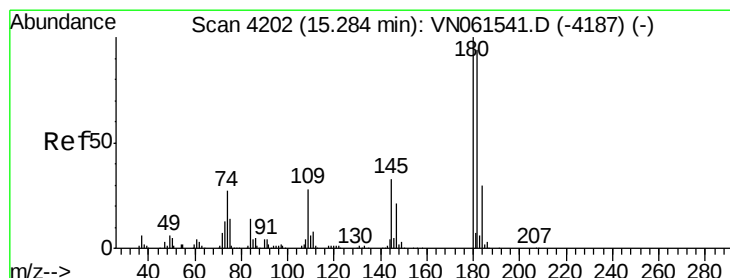
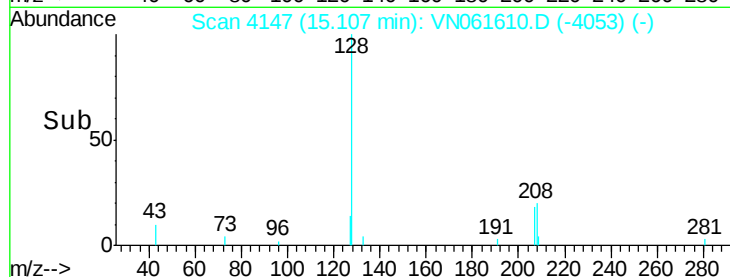
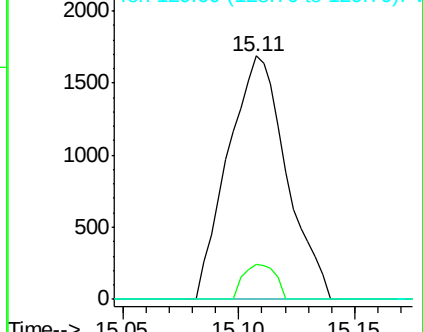
129 0.0 8.5 12.7#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.227 ug/l

RT: 15.28 min Scan# 4202

Delta R.T. 0.00 min

Lab File: VN061610.D

Acq: 2 Jun 2020 10:48

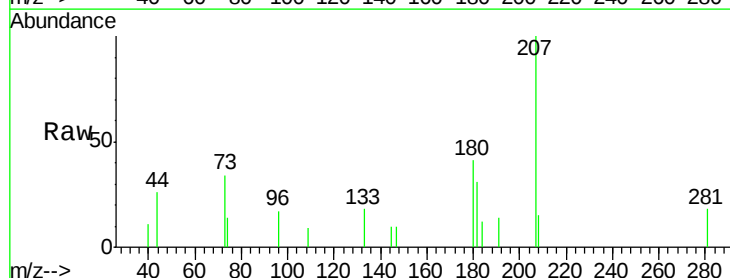
Tgt Ion:180 Resp: 915

Ion Ratio Lower Upper

180 100

182 70.5 47.1 141.3

145 15.1 16.3 48.9#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

