

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033020\  
 Data File : VN060773.D  
 Acq On : 30 Mar 2020 16:12  
 Operator : JC/MD  
 Sample : L2059-03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Mar 31 08:00:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 18 08:49:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 191870   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 318226   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 293995   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 131489   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 124421   | 47.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 94.48%  |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 94511    | 49.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 98.24%  |          |
| 50) Toluene-d8              | 10.08 | 98   | 390163   | 49.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 99.28%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 144629   | 50.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.42% |          |

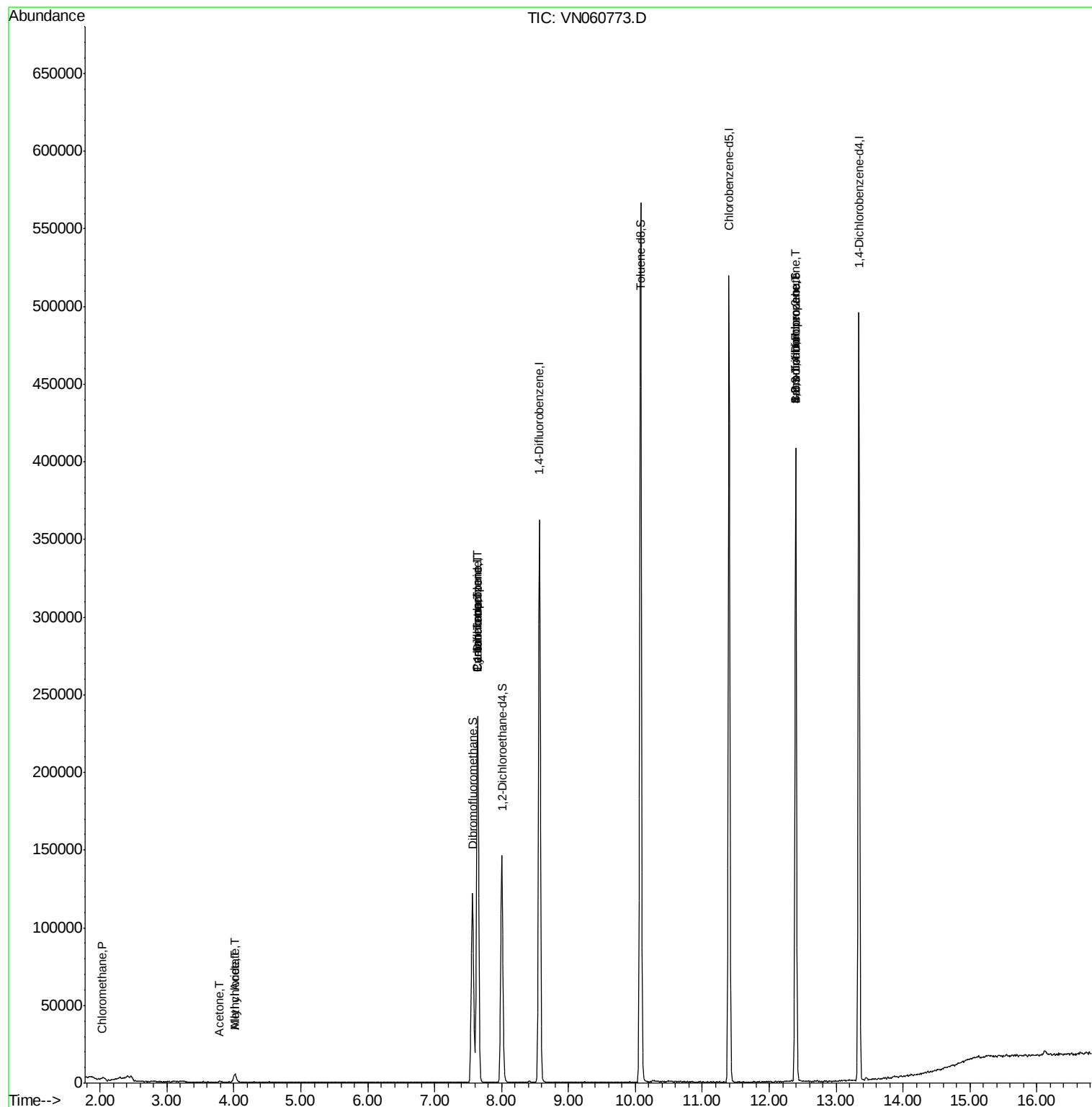
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 2.04  | 50   | 754      | 0.217  | ug/l   | 99     |
| 14) Allyl chloride             | 4.01  | 41   | 753      | 0.206  | ug/l # | 74     |
| 16) Acetone                    | 3.79  | 43   | 1547     | 1.658  | ug/l   | 97     |
| 18) Methyl Acetate             | 4.01  | 43   | 1905     | 0.725  | ug/l # | 54     |
| 31) Cyclohexane                | 7.64  | 56   | 3956     | 0.933  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 14874    | 4.827  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 18504    | 6.700  | ug/l # | 16     |
| 71) Bromoform                  | 12.39 | 173  | 604      | 2.013  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 72043    | 25.392 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 72043    | 65.214 | ug/l # | 13     |

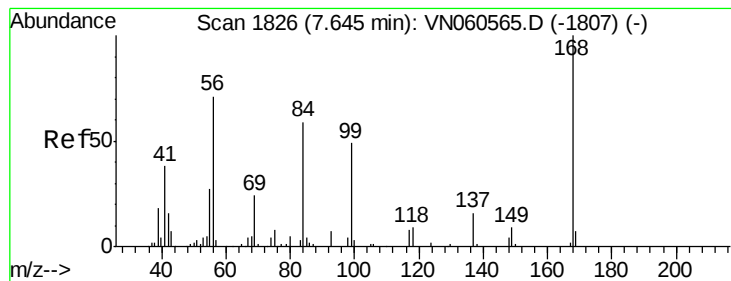
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN033020\  
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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Mar 31 08:00:29 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 18 08:49:09 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060773.D

Acq: 30 Mar 2020 16:12

Instrument :

MSVOA\_N

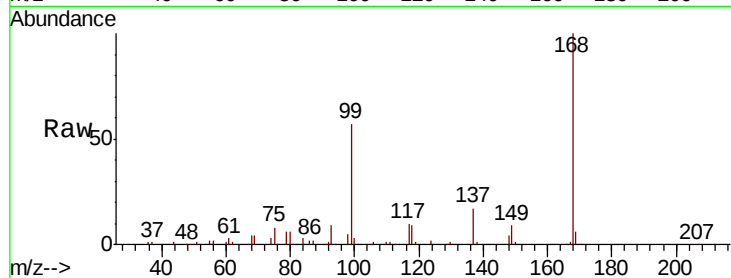
ClientSampled :

Tot Ion:168 Resp: 191870

Ion Ratio Lower Upper

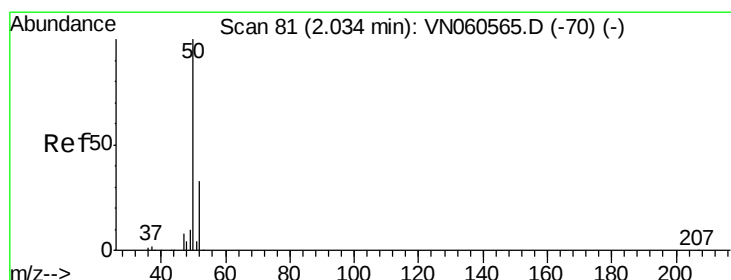
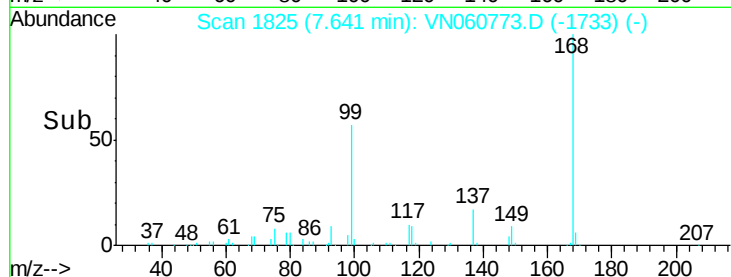
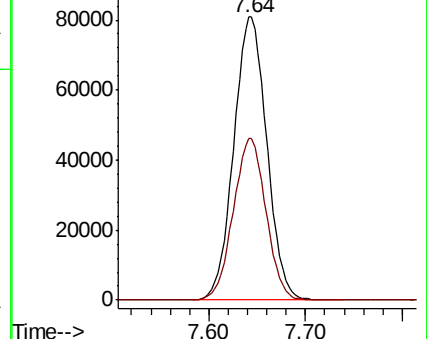
168 100

99 57.2 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: 0.217 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.01 min

Lab File: VN060773.D

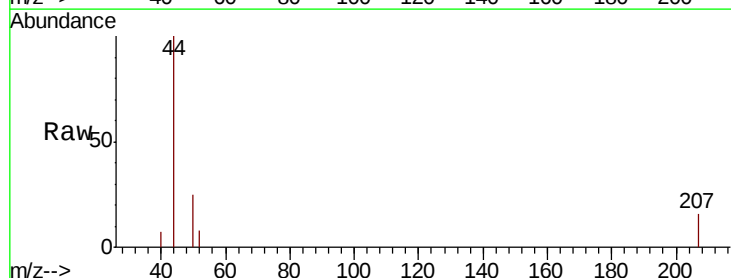
Acq: 30 Mar 2020 16:12

Tgt Ion: 50 Resp: 754

Ion Ratio Lower Upper

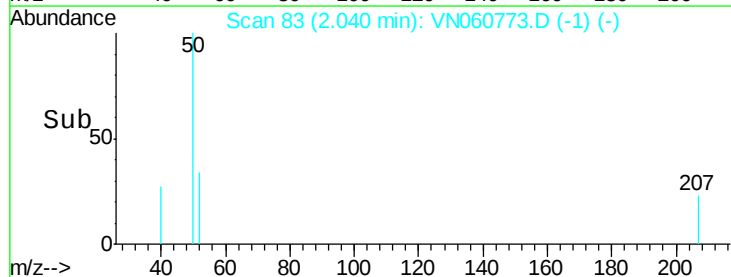
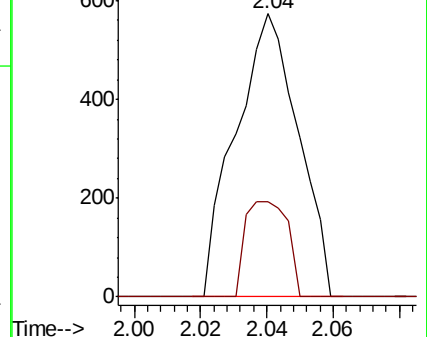
50 100

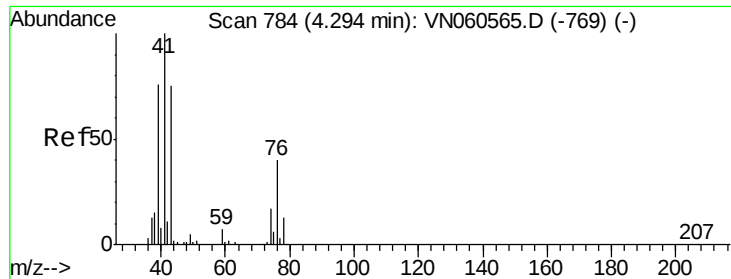
52 33.5 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

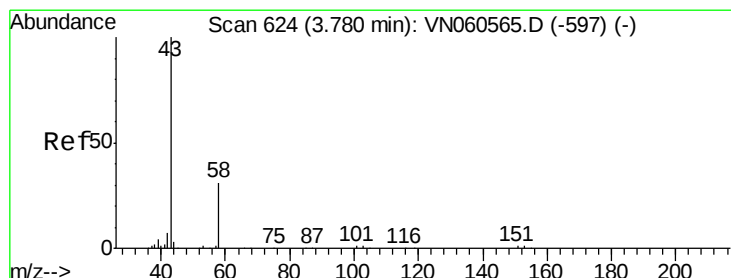
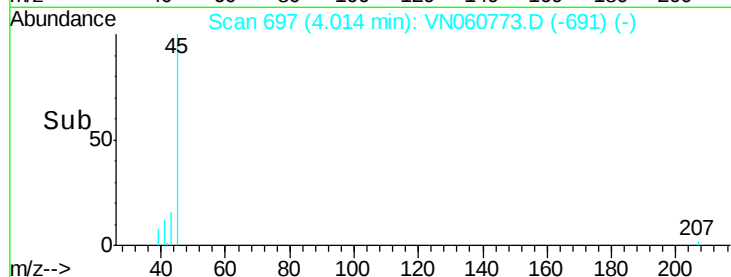
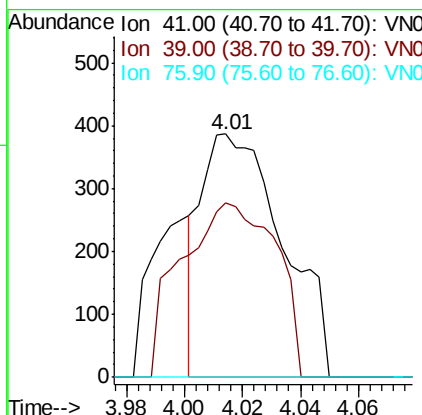
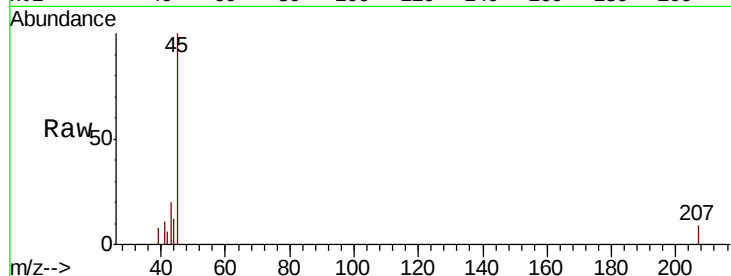




#14  
Allvl chloride  
Concen: 0.206 ug/l  
RT: 4.01 min Scan# 697  
Delta R.T. -0.28 min  
Lab File: VN060773.D  
Acq: 30 Mar 2020 16:12

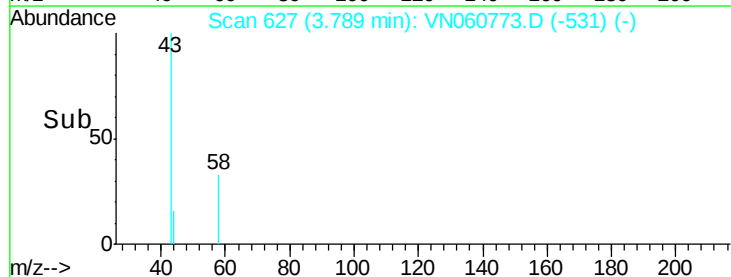
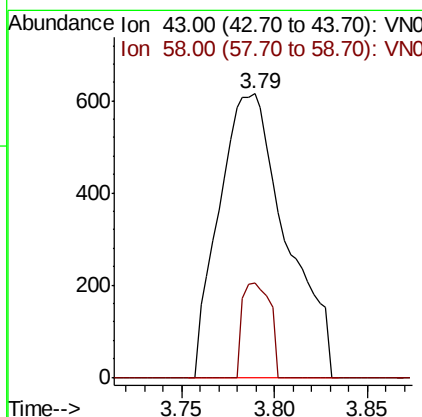
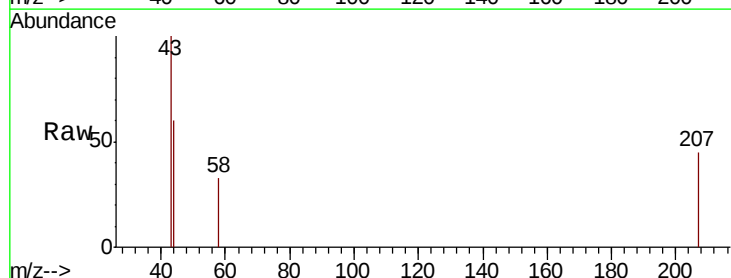
Instrument :  
MSVOA\_N  
ClientSampled :

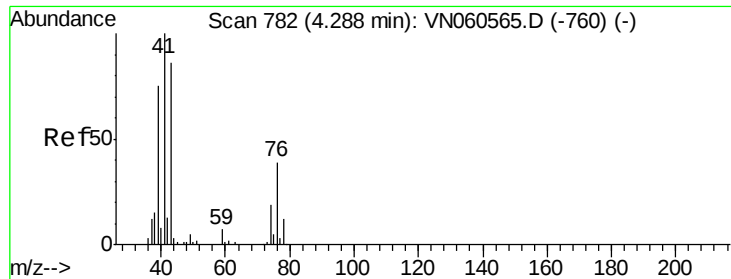
Tot Ion: 41 Resp: 753  
Ion Ratio Lower Upper  
41 100  
39 65.5 57.8 86.8  
76 0.0 28.6 43.0#



#16  
Acetone  
Concen: 1.658 ug/l  
RT: 3.79 min Scan# 627  
Delta R.T. 0.01 min  
Lab File: VN060773.D  
Acq: 30 Mar 2020 16:12

Tgt Ion: 43 Resp: 1547  
Ion Ratio Lower Upper  
43 100  
58 33.3 25.1 37.7

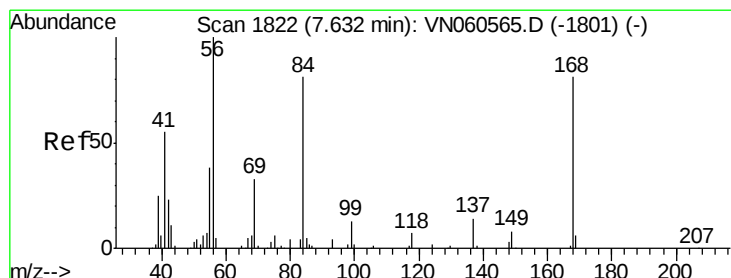
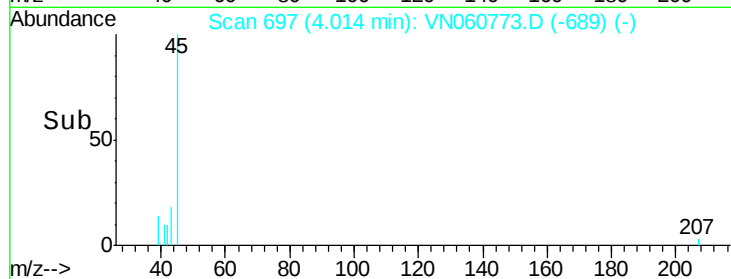
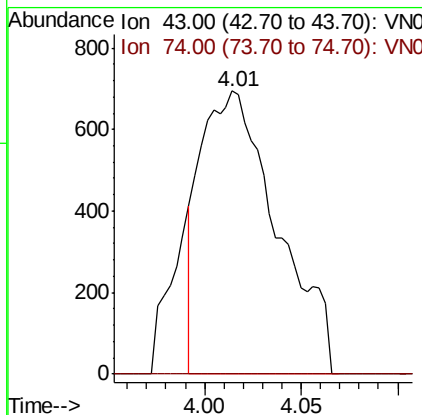
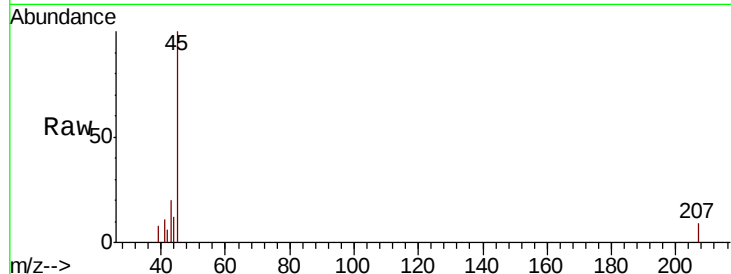




#18  
Methvl Acetate  
Concen: 0.725 ug/l  
RT: 4.01 min Scan# 697  
Delta R.T. -0.27 min  
Lab File: VN060773.D  
Acq: 30 Mar 2020 16:12

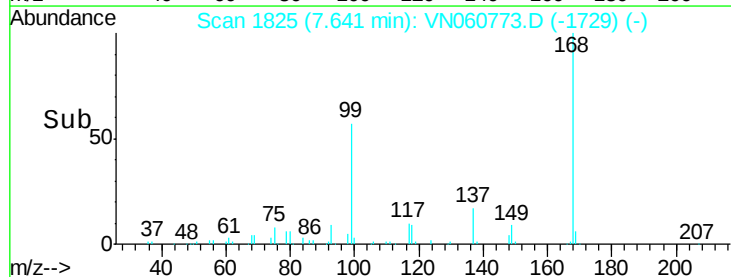
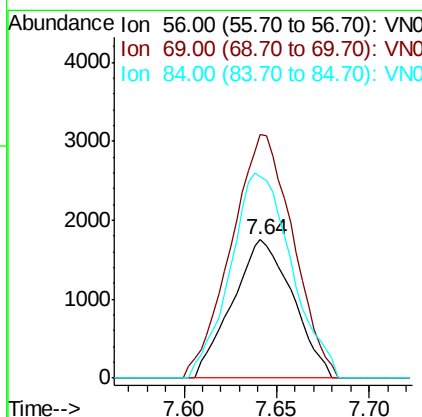
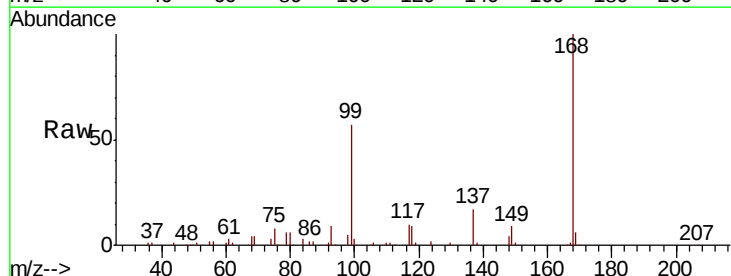
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 43 Resp: 1905  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.5 26.3#



#31  
Cyclohexane  
Concen: 0.933 ug/l  
RT: 7.64 min Scan# 1825  
Delta R.T. 0.01 min  
Lab File: VN060773.D  
Acq: 30 Mar 2020 16:12

Tgt Ion: 56 Resp: 3956  
Ion Ratio Lower Upper  
56 100  
69 175.9 26.6 40.0#  
84 145.4 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 47.238 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060773.D

Acq: 30 Mar 2020 16:12

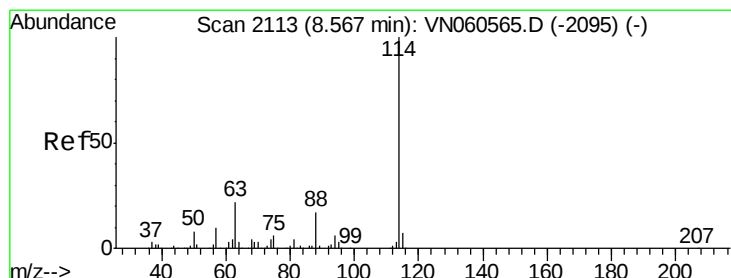
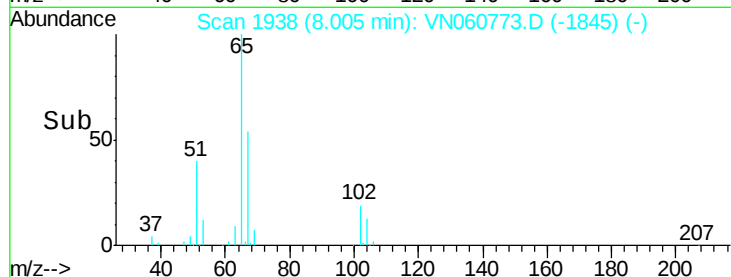
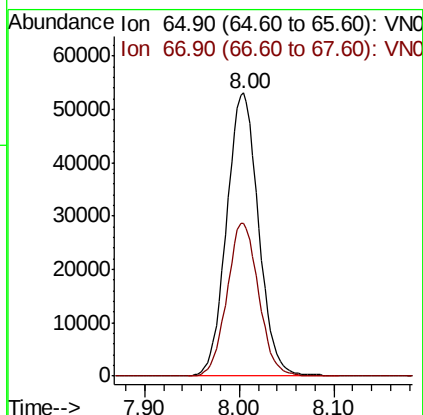
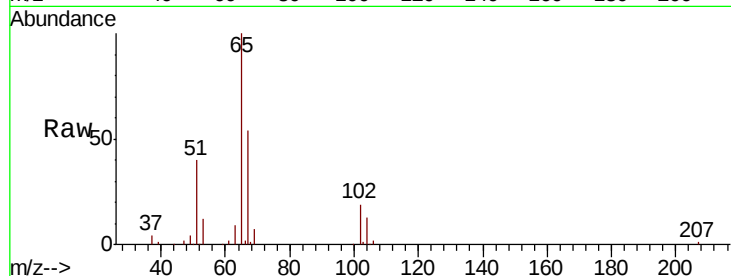
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 65 Resp: 124421

Ion Ratio Lower Upper

65 100

67 53.5 0.0 107.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060773.D

Acq: 30 Mar 2020 16:12

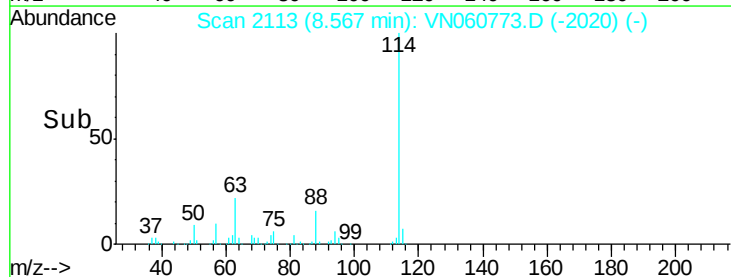
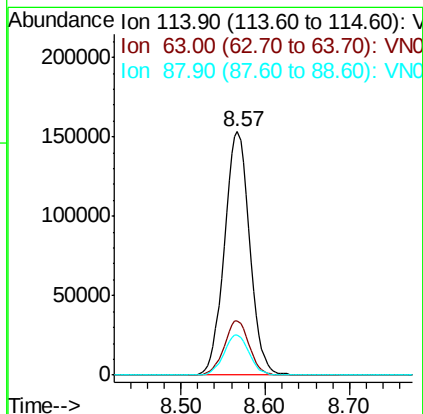
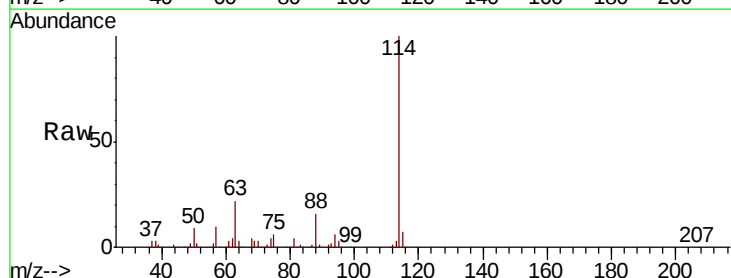
Tgt Ion: 114 Resp: 318226

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.8

88 16.3 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.117 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060773.D

Acq: 30 Mar 2020 16:12

Instrument :  
MSVOA\_N  
ClientSampled :

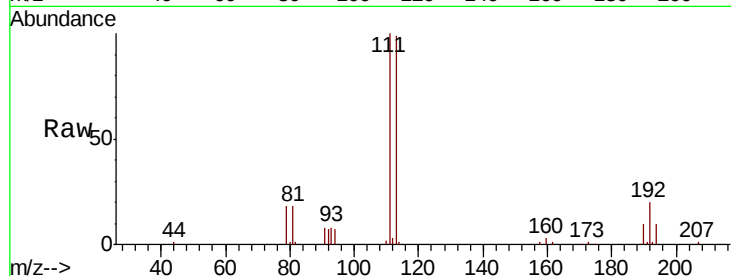
Tot Ion:113 Resp: 94511

Ion Ratio Lower Upper

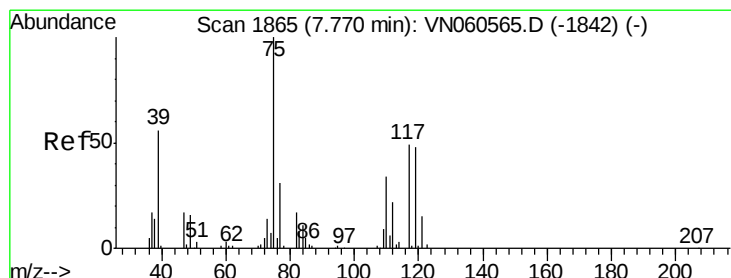
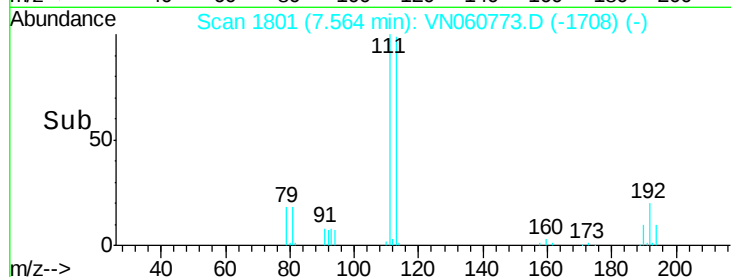
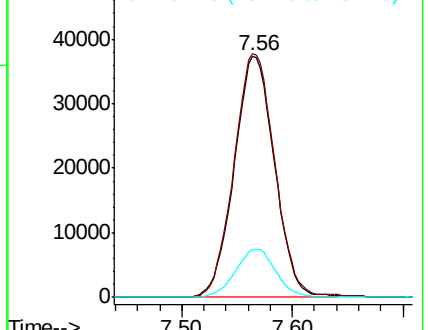
113 100

111 102.1 82.9 124.3

192 19.9 15.8 23.8



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: 4.827 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060773.D

Acq: 30 Mar 2020 16:12

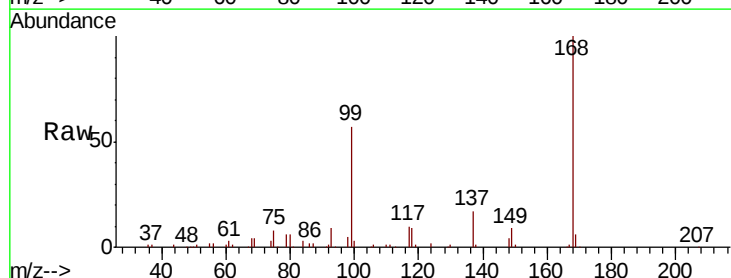
Tgt Ion: 75 Resp: 14874

Ion Ratio Lower Upper

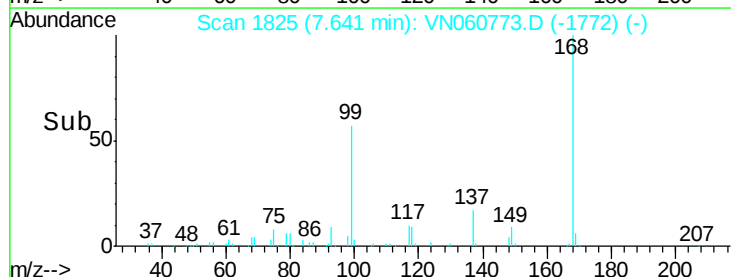
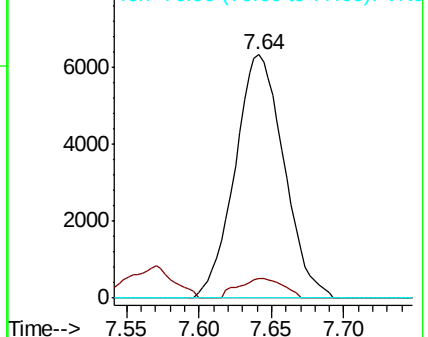
75 100

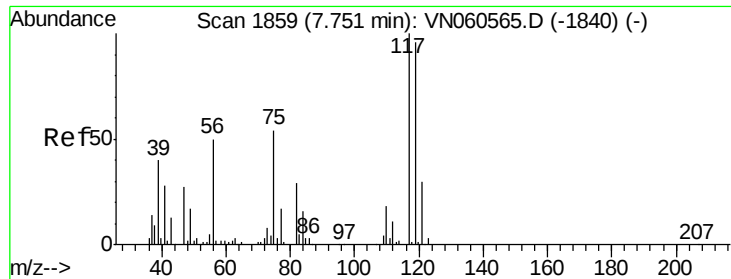
110 7.3 16.9 50.6#

77 0.0 24.6 36.8#



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

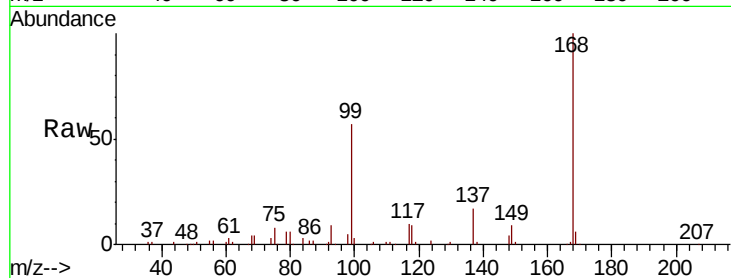




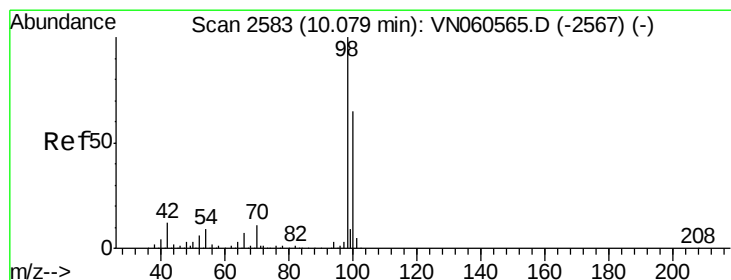
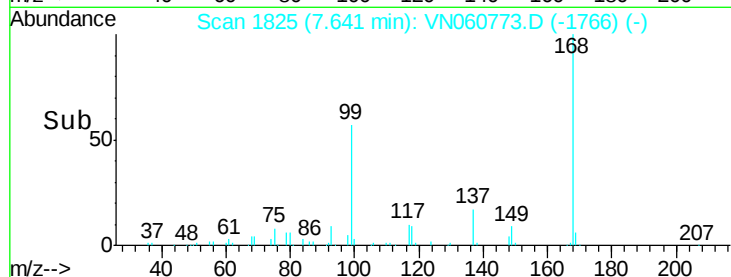
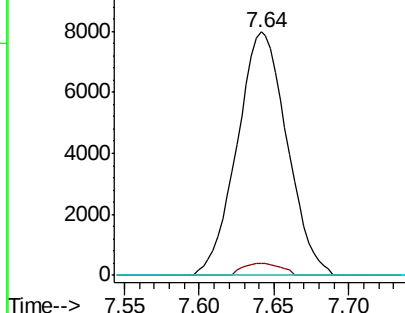
#38  
Carbon Tetrachloride  
Concen: 6.700 ug/l  
RT: 7.64 min Scan# 1825  
Delta R.T. -0.11 min  
Lab File: VN060773.D  
Acq: 30 Mar 2020 16:12

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:117 Resp: 18504  
Ion Ratio Lower Upper  
117 100  
119 5.1 76.2 114.2#  
121 0.0 23.7 35.5#

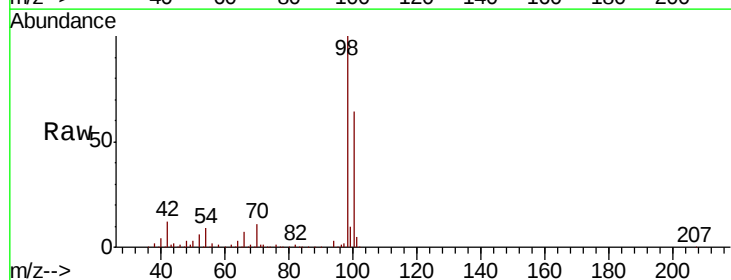


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

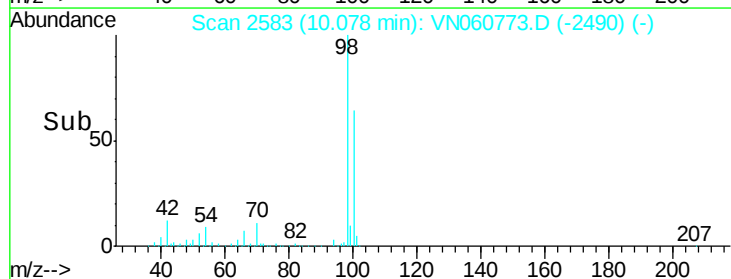
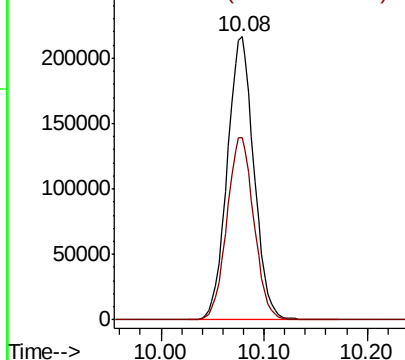


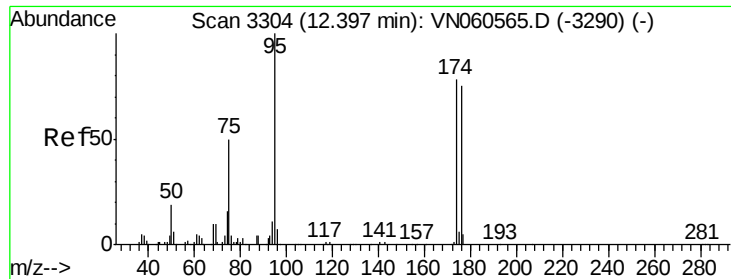
#50  
Toluene-d8  
Concen: 49.641 ug/l  
RT: 10.08 min Scan# 2583  
Delta R.T. -0.00 min  
Lab File: VN060773.D  
Acq: 30 Mar 2020 16:12

Tgt Ion: 98 Resp: 390163  
Ion Ratio Lower Upper  
98 100  
100 65.2 51.8 77.8



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

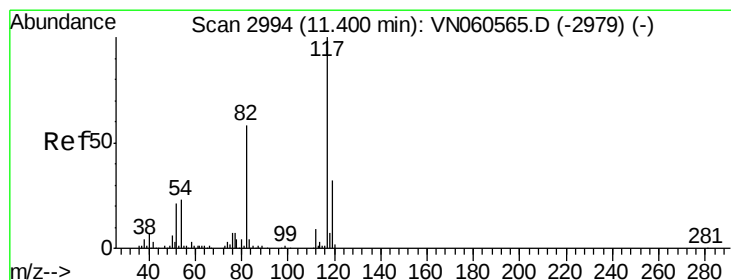
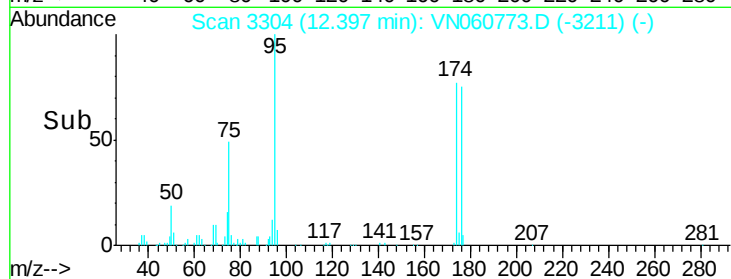
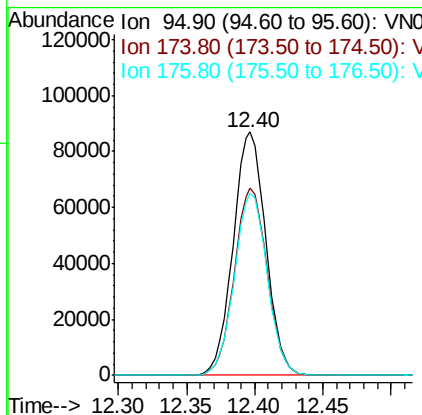
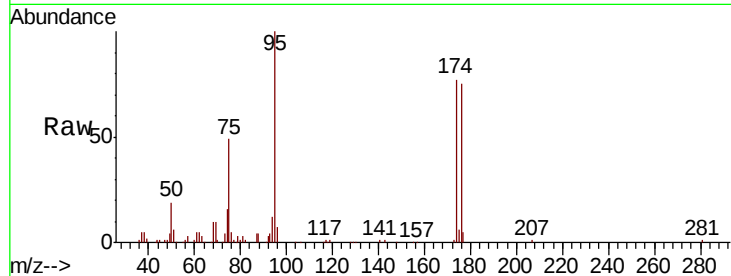




#62  
4-Bromofluorobenzene  
Concen: 50.210 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. -0.00 min  
Lab File: VN060773.D  
Acq: 30 Mar 2020 16:12

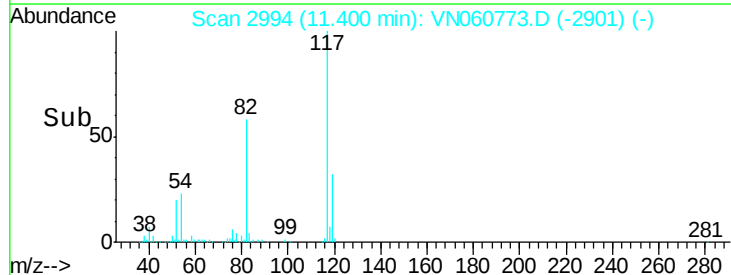
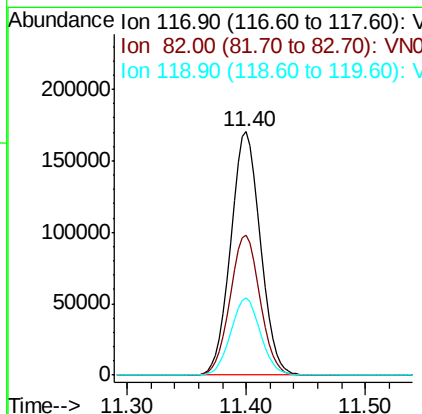
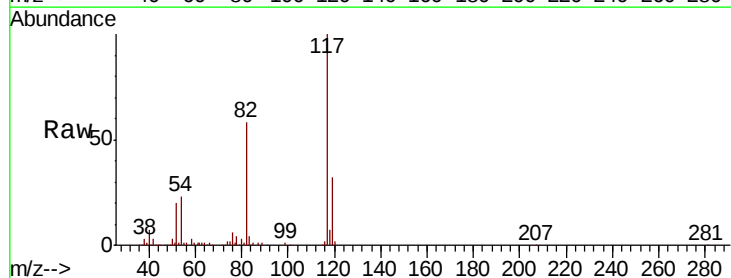
Instrument :  
MSVOA\_N  
ClientSampleId :

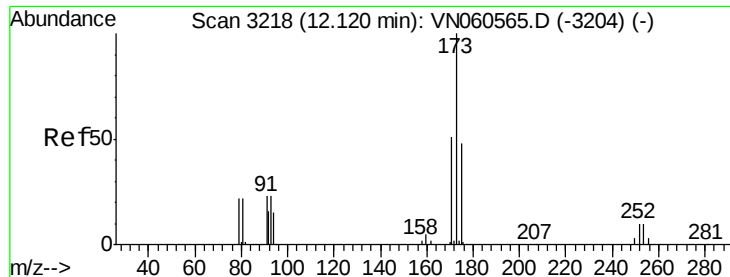
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 77.2  | 0.0   | 157.6 |
| 176     | 75.2  | 0.0   | 150.6 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. -0.00 min  
Lab File: VN060773.D  
Acq: 30 Mar 2020 16:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.7  | 46.7  | 70.1  |
| 119     | 31.8  | 25.5  | 38.3  |





#71

Bromoform

Concen: 2.013 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN060773.D

Acq: 30 Mar 2020 16:12

Instrument :

MSVOA\_N

ClientSampleId :

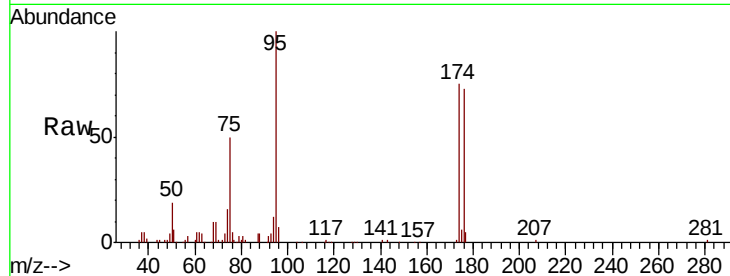
Tot Ion:173 Resp: 604

Ion Ratio Lower Upper

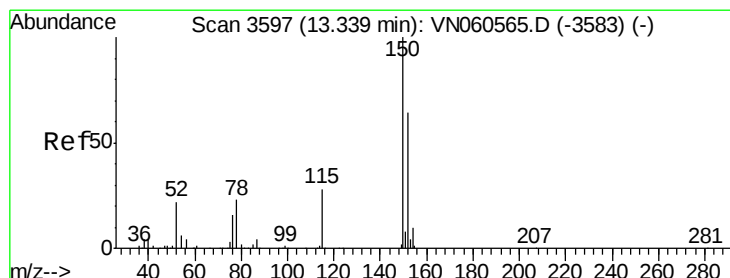
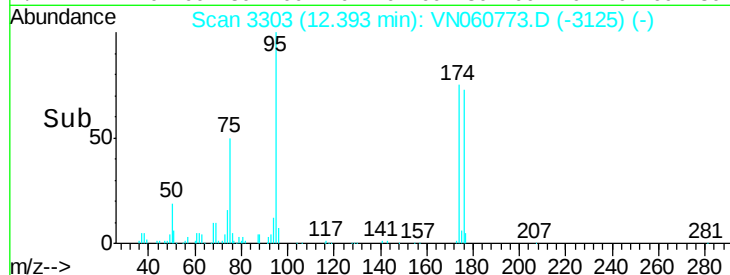
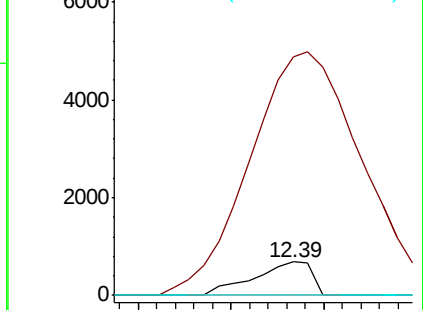
173 100

175 1167.4 24.1 72.4#

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: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060773.D

Acq: 30 Mar 2020 16:12

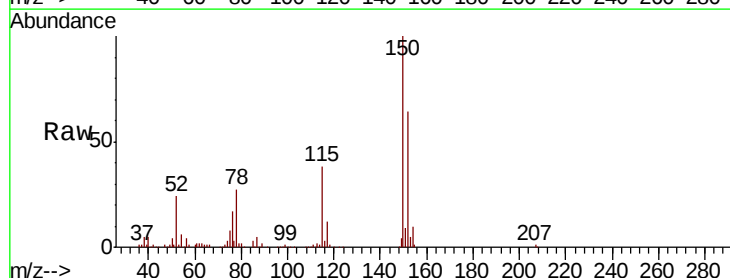
Tgt Ion:152 Resp: 131489

Ion Ratio Lower Upper

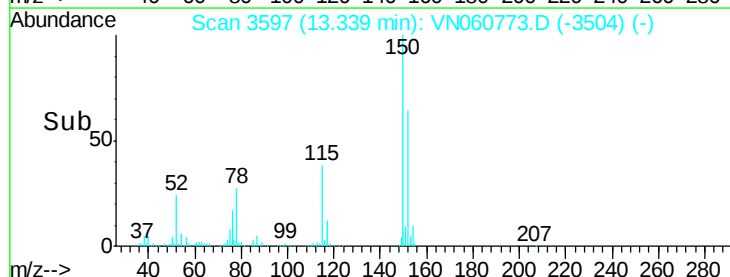
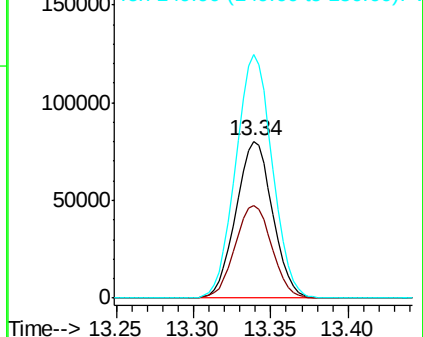
152 100

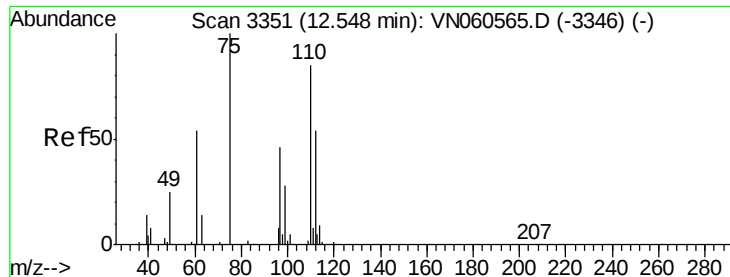
115 59.6 30.2 90.6

150 155.7 0.0 350.2



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: 25.392 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060773.D

Acq: 30 Mar 2020 16:12

Instrument :

MSVOA\_N

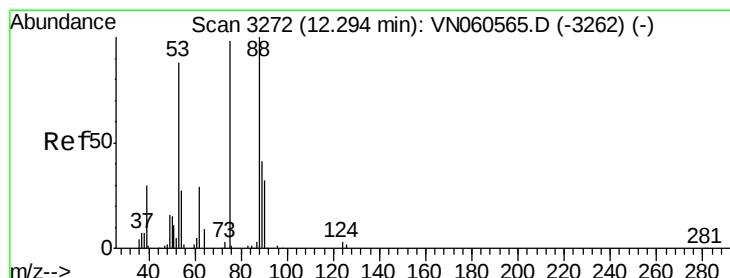
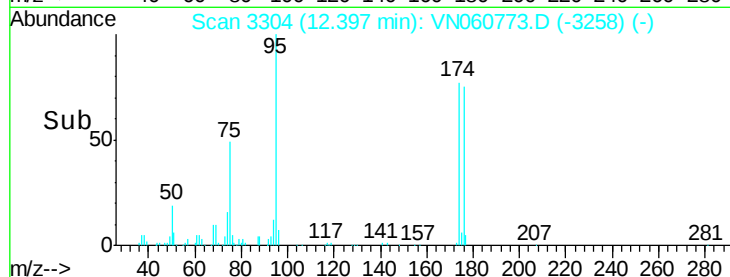
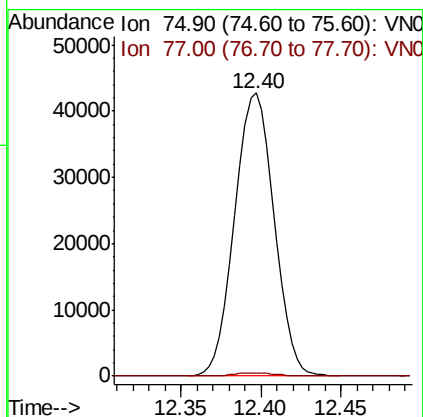
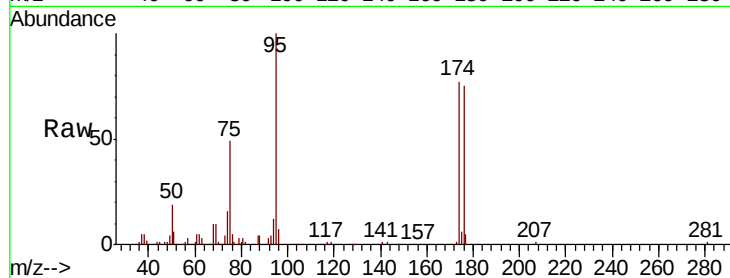
ClientSampled :

Tot Ion: 75 Resp: 72043

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.214 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060773.D

Acq: 30 Mar 2020 16:12

Tgt Ion: 75 Resp: 72043

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

