

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040720\  
 Data File : VN060870.D  
 Acq On : 7 Apr 2020 12:06  
 Operator : JC/MD  
 Sample : VN0407WBL01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

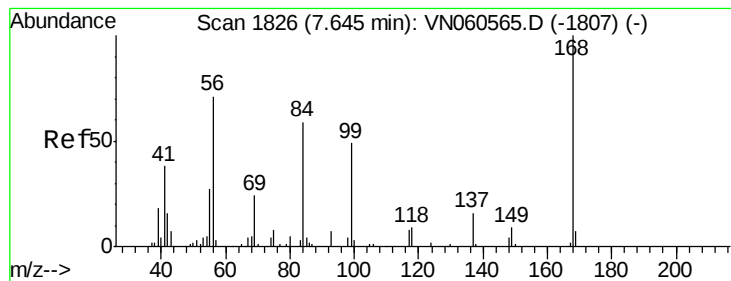
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0407WBL01

Quant Time: Apr 08 02:43:21 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  | 184616   | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.57  | 114  | 305142   | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5           | 11.40 | 117  | 278456   | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.34 | 152  | 117367   | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds    |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4      | 8.00  | 65   | 117261   | 46.27  | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 92.54% |          |
| 35) Dibromofluoromethane       | 7.57  | 113  | 90418    | 49.00  | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 98.00% |          |
| 50) Toluene-d8                 | 10.08 | 98   | 376391   | 49.94  | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 99.88% |          |
| 62) 4-Bromofluorobenzene       | 12.40 | 95   | 132551   | 47.99  | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 95.98% |          |
| Target Compounds               |       |      |          |        |        |          |
|                                |       |      |          |        | Qvalue |          |
| 3) Chloromethane               | 2.04  | 50   | 916      | 0.275  | ug/l   | 95       |
| 31) Cyclohexane                | 7.64  | 56   | 3800     | 0.931  | ug/l # | 1        |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 14390    | 4.870  | ug/l # | 49       |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 17323    | 6.541  | ug/l # | 17       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 1797     | 0.600  | ug/l # | 1        |
| 71) Bromoform                  | 12.40 | 173  | 382      | 1.903  | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 67456    | 26.636 | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 67456    | 68.408 | ug/l # | 13       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060870.D

Acq: 7 Apr 2020 12:06

Instrument :

MSVOA\_N

ClientSampleId :

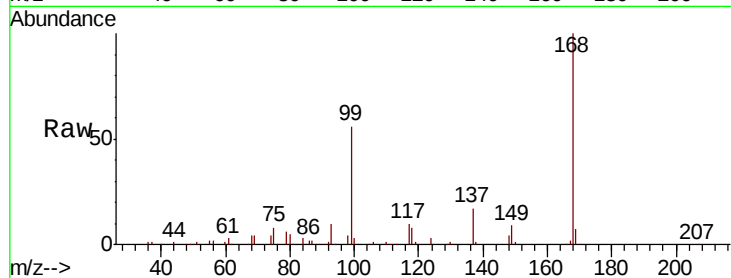
VN0407WBL01

Tot Ion:168 Resp: 184616

Ion Ratio Lower Upper

168 100

99 56.3 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

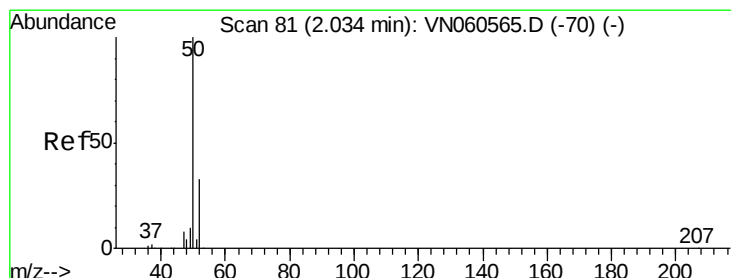
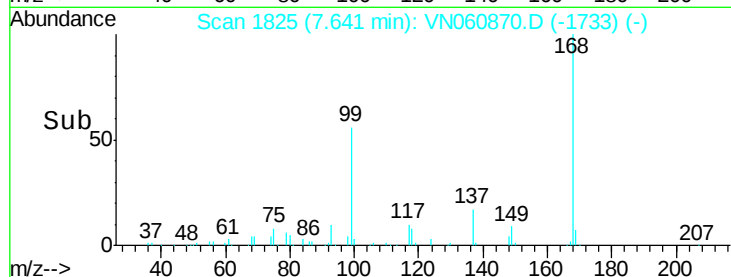
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.275 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.01 min

Lab File: VN060870.D

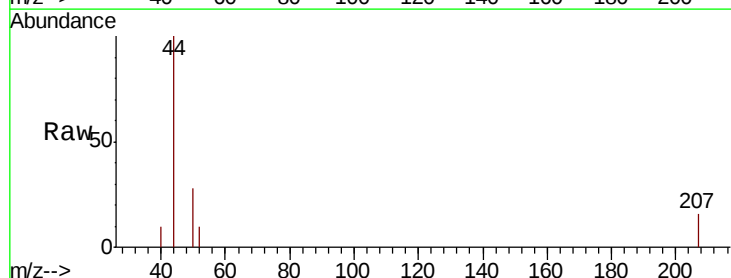
Acq: 7 Apr 2020 12:06

Tgt Ion: 50 Resp: 916

Ion Ratio Lower Upper

50 100

52 35.5 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

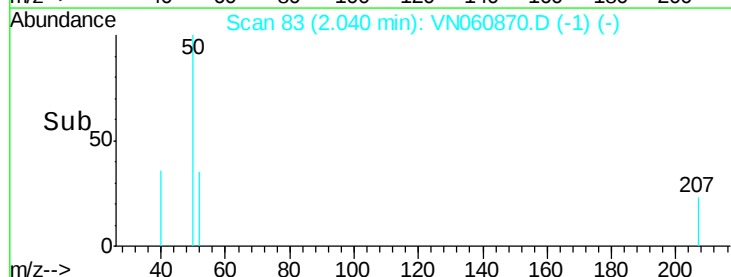
600

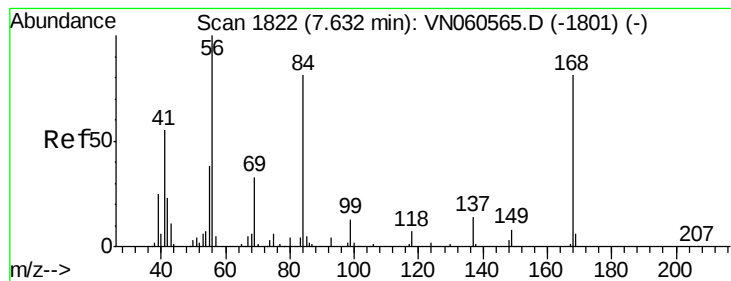
400

200

0

Time--> 2.00 2.02 2.04 2.06 2.08





#31

Cyclohexane

Concen: 0.931 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060870.D

Acq: 7 Apr 2020 12:06

Instrument :

MSVOA\_N

ClientSampleId :

VN0407WBL01

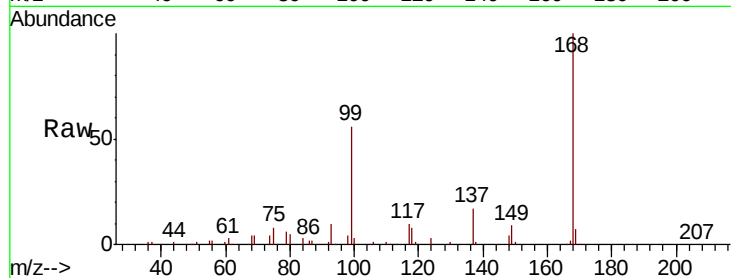
Tot Ion: 56 Resp: 3800

Ion Ratio Lower Upper

56 100

69 165.1 26.6 40.0#

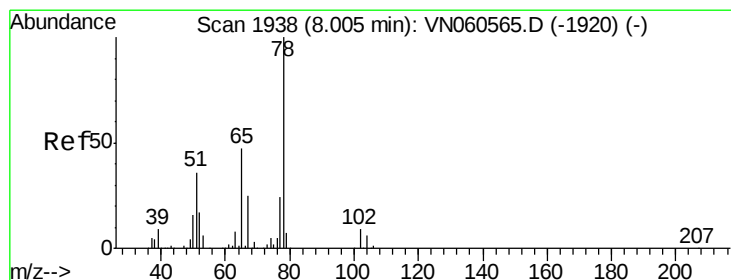
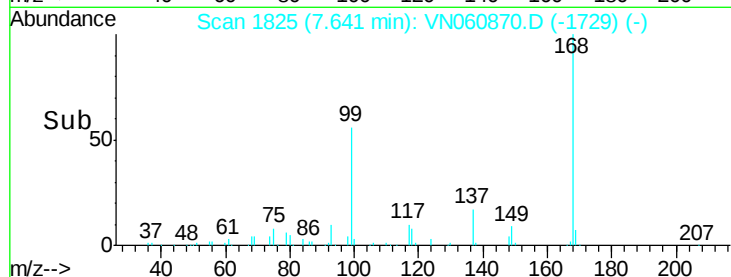
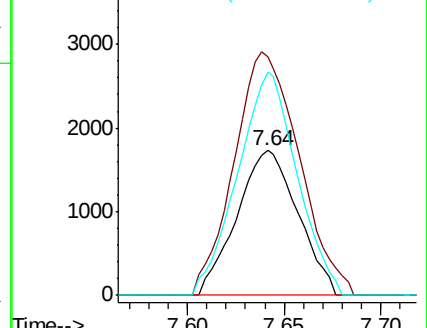
84 154.1 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 46.269 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060870.D

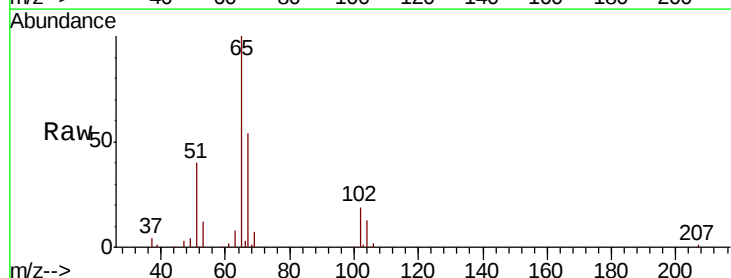
Acq: 7 Apr 2020 12:06

Tgt Ion: 65 Resp: 117261

Ion Ratio Lower Upper

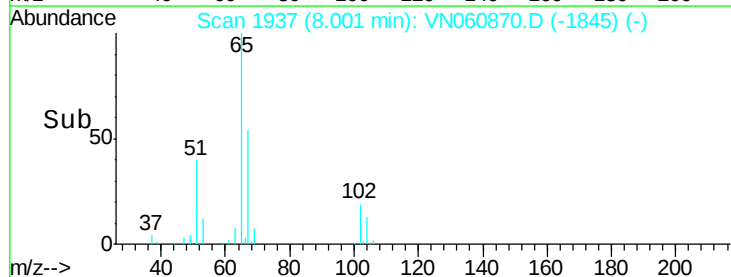
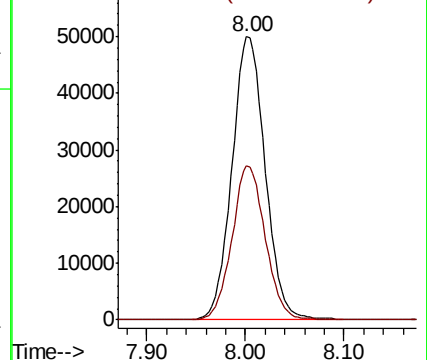
65 100

67 54.4 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060870.D

Acq: 7 Apr 2020 12:06

Instrument :

MSVOA\_N

ClientSampleId :

VN0407WBL01

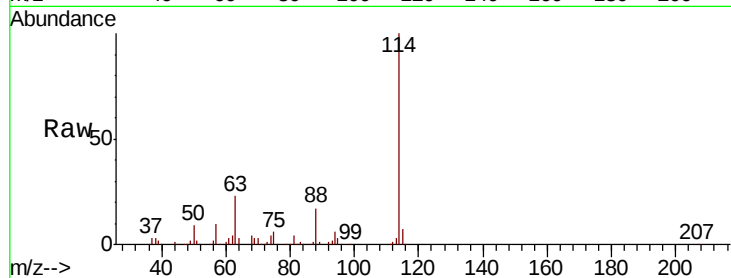
Tot Ion:114 Resp: 305142

Ion Ratio Lower Upper

114 100

63 22.6 0.0 43.8

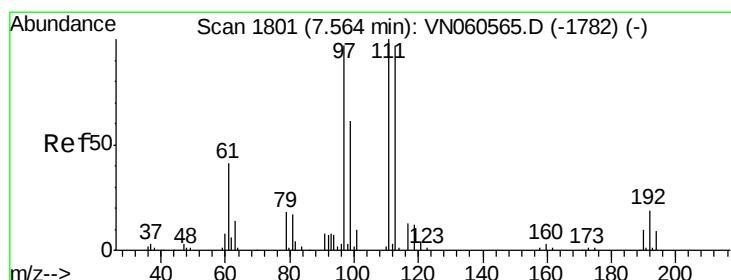
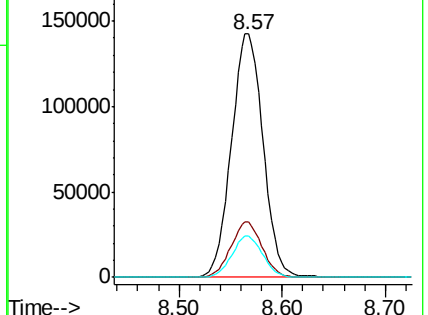
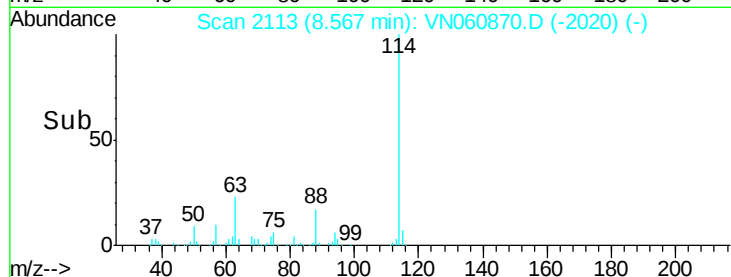
88 17.0 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 49.004 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060870.D

Acq: 7 Apr 2020 12:06

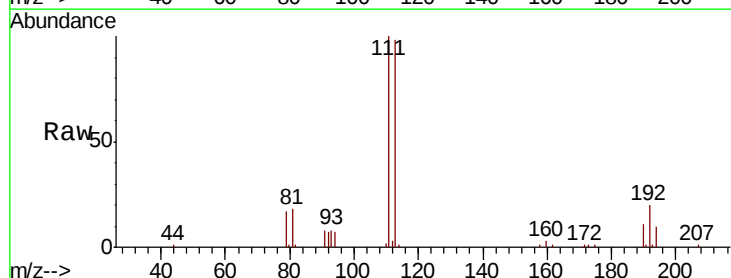
Tgt Ion:113 Resp: 90418

Ion Ratio Lower Upper

113 100

111 104.9 82.9 124.3

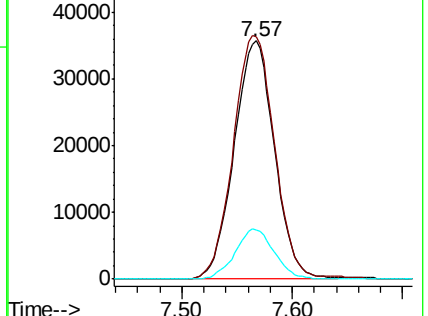
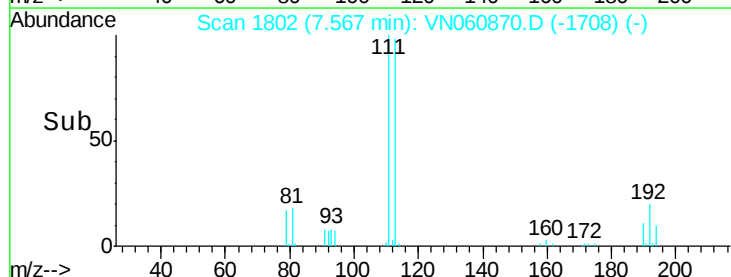
192 20.3 15.8 23.8

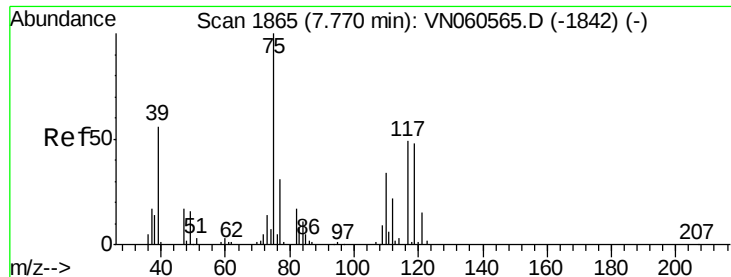


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

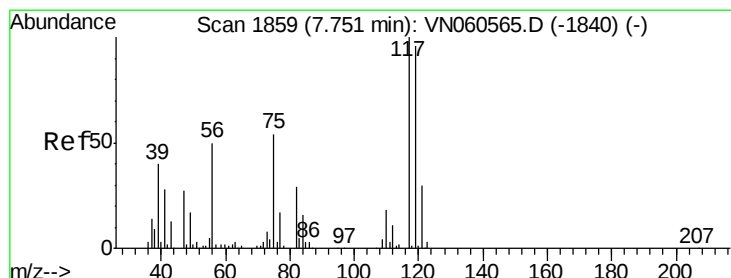
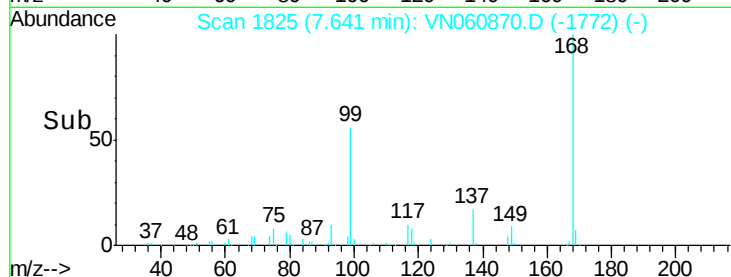
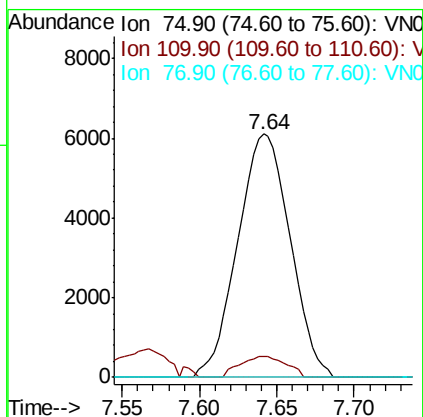
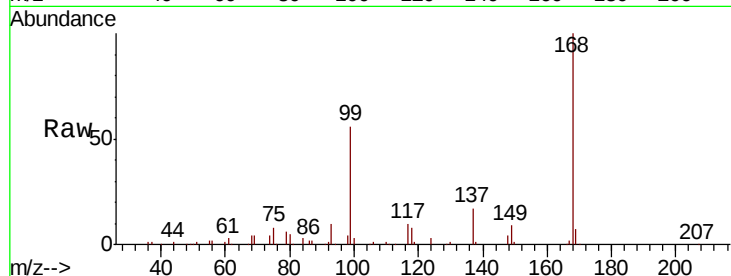




#36  
 1,1-Dichloropropene  
 Concen: 4.870 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.13 min  
 Lab File: VN060870.D  
 Acq: 7 Apr 2020 12:06

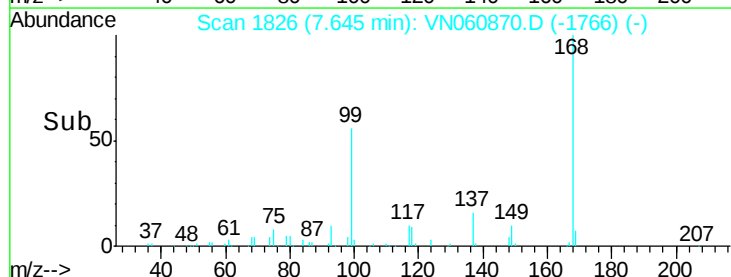
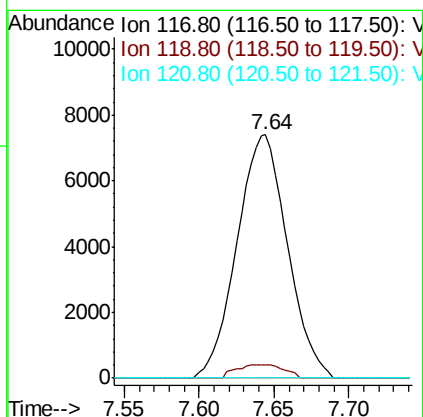
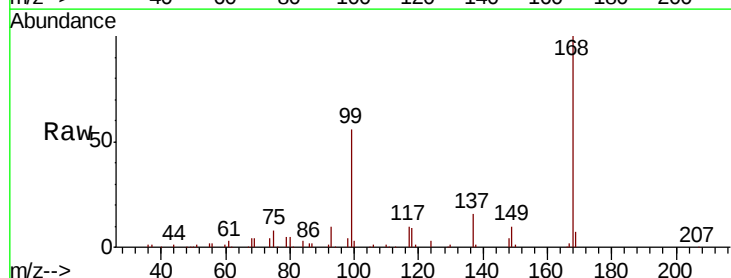
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0407WBL01

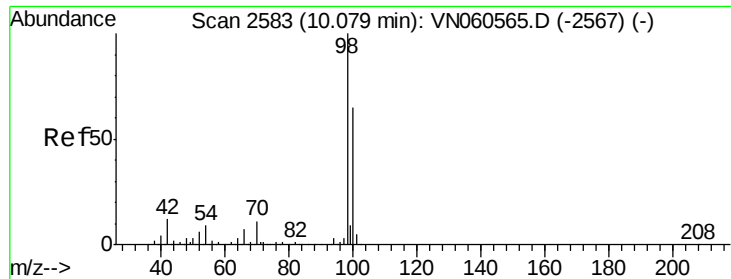
| Tot Ion   | 75  | Resp  | 14390 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 75        | 100 |       |       |
| 110       | 7.5 | 16.9  | 50.6# |
| 77        | 0.0 | 24.6  | 36.8# |



#38  
 Carbon Tetrachloride  
 Concen: 6.541 ug/l  
 RT: 7.64 min Scan# 1826  
 Delta R.T. -0.11 min  
 Lab File: VN060870.D  
 Acq: 7 Apr 2020 12:06

| Tgt Ion                                              | 117 | Resp  | 17323  |
|------------------------------------------------------|-----|-------|--------|
| Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td> | 100 | Lower | Upper  |
| 117                                                  | 100 |       |        |
| 119                                                  | 5.4 | 76.2  | 114.2# |
| 121                                                  | 0.0 | 23.7  | 35.5#  |

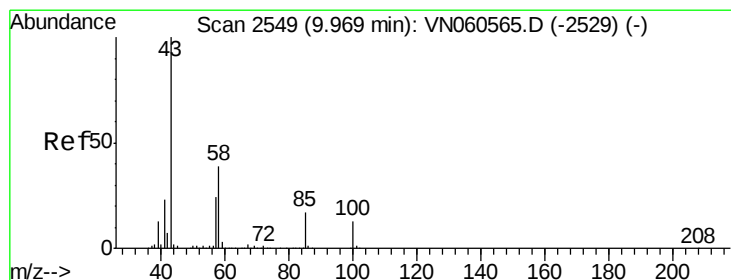
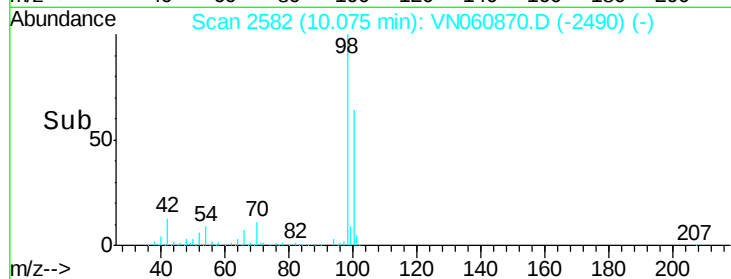
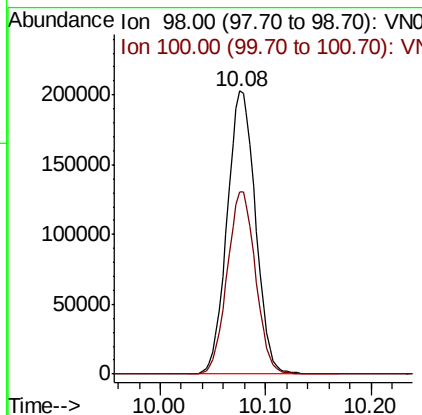
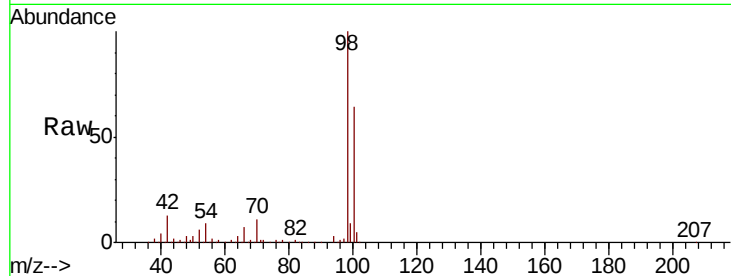




#50  
Toluene-d8  
Concen: 49.942 ug/l  
RT: 10.08 min Scan# 2582  
Delta R.T. -0.00 min  
Lab File: VN060870.D  
Acq: 7 Apr 2020 12:06

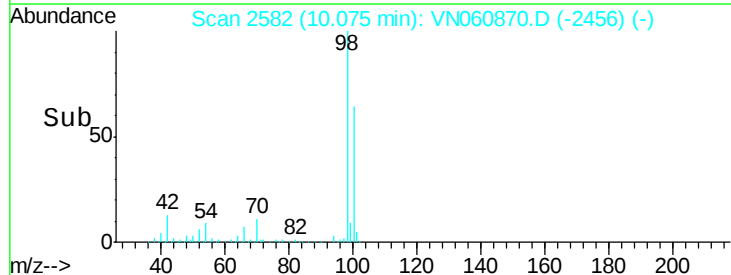
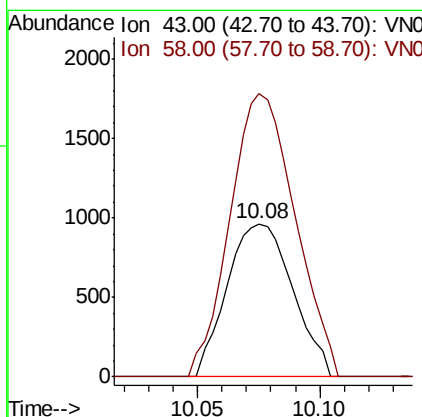
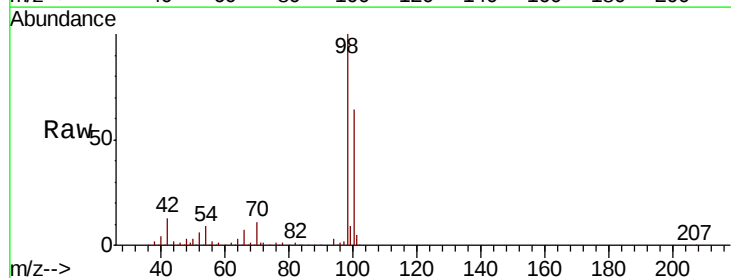
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0407WBL01

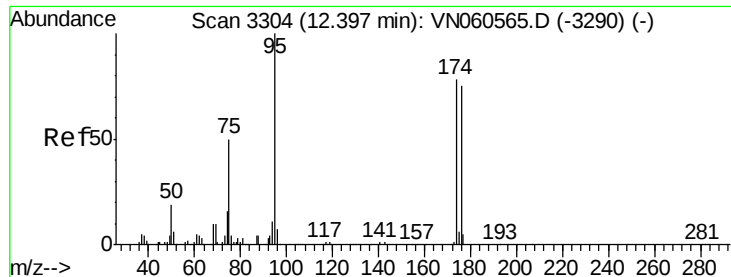
Tot Ion: 98 Resp: 376391  
Ion Ratio Lower Upper  
98 100  
100 64.5 51.8 77.8



#51  
4-Methyl-2-Pentanone  
Concen: 0.600 ug/l  
RT: 10.08 min Scan# 2582  
Delta R.T. 0.11 min  
Lab File: VN060870.D  
Acq: 7 Apr 2020 12:06

Tgt Ion: 43 Resp: 1797  
Ion Ratio Lower Upper  
43 100  
58 183.8 30.8 46.2#

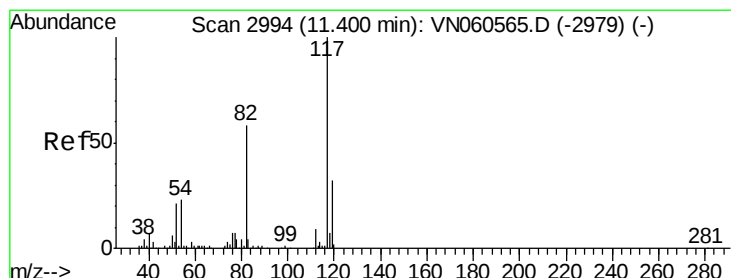
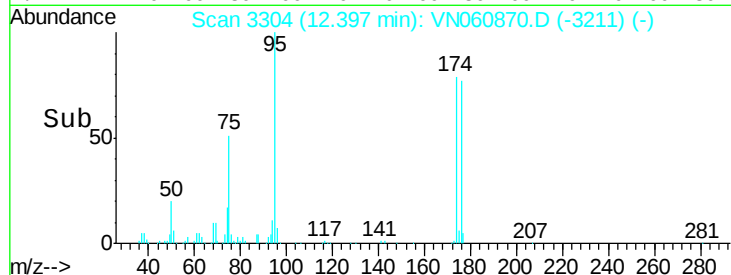
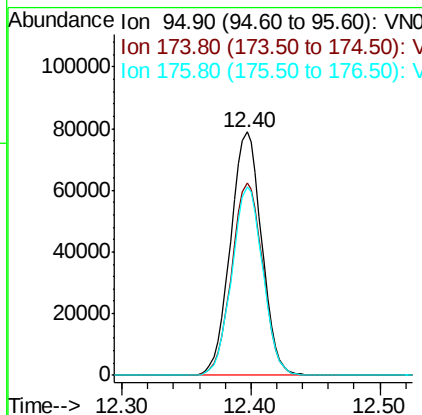
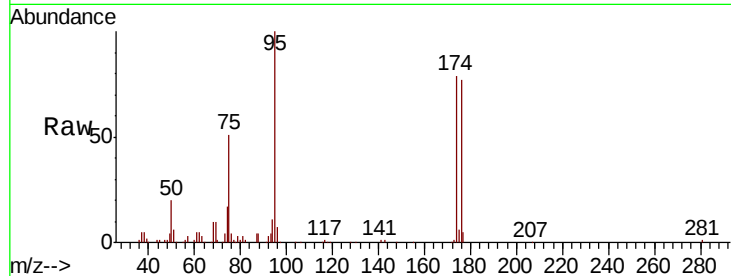




#62  
4-Bromofluorobenzene  
Concen: 47.991 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. -0.00 min  
Lab File: VN060870.D  
Acq: 7 Apr 2020 12:06

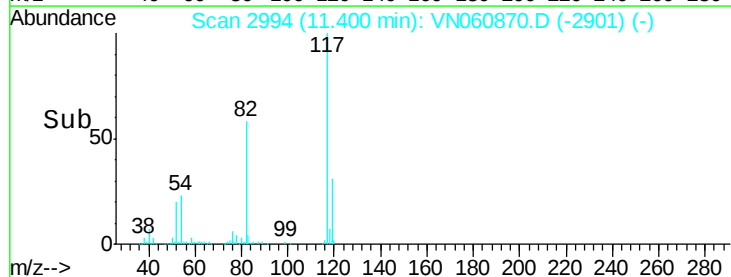
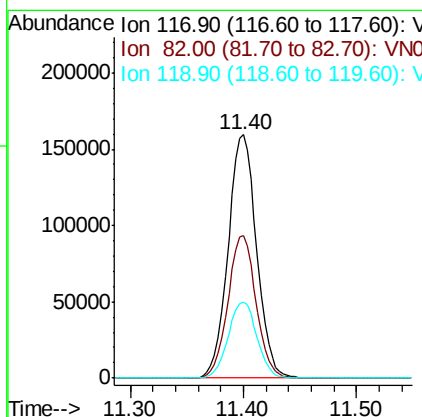
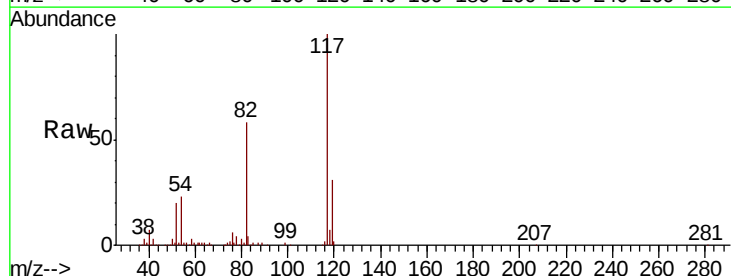
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0407WBL01

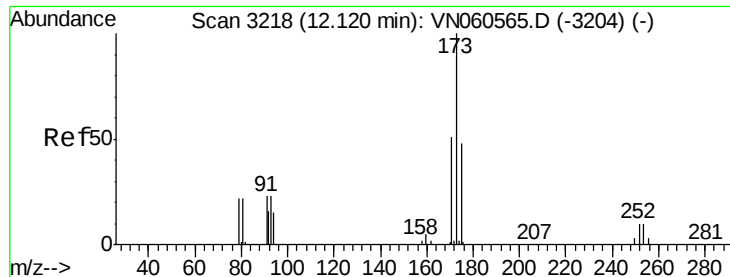
Tot Ion: 95 Resp: 132551  
Ion Ratio Lower Upper  
95 100  
174 79.1 0.0 157.6  
176 76.7 0.0 150.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. -0.00 min  
Lab File: VN060870.D  
Acq: 7 Apr 2020 12:06

Tgt Ion: 117 Resp: 278456  
Ion Ratio Lower Upper  
117 100  
82 58.4 46.7 70.1  
119 31.4 25.5 38.3





#71

Bromoform

Concen: 1.903 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060870.D

Acq: 7 Apr 2020 12:06

Instrument :

MSVOA\_N

ClientSampleId :

VN0407WBL01

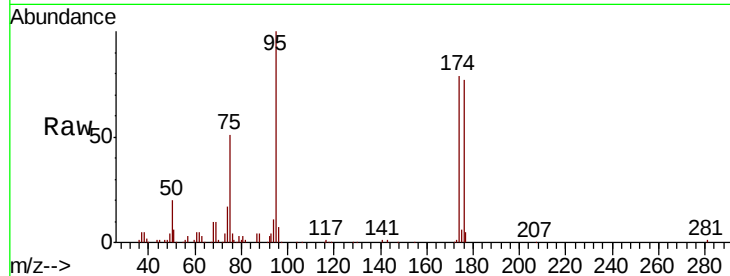
Tot Ion:173 Resp: 382

Ion Ratio Lower Upper

173 100

175 1658.1 24.1 72.4#

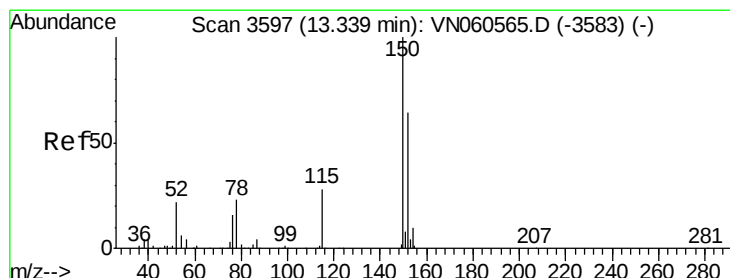
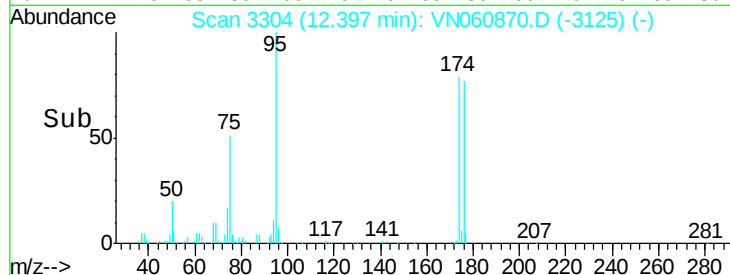
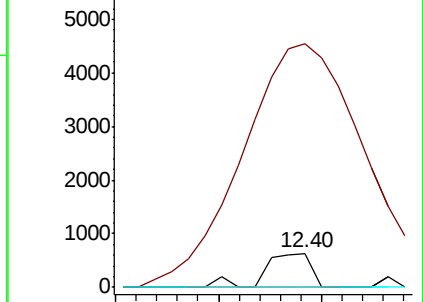
254 0.0 0.0 0.0



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: VN060870.D

Acq: 7 Apr 2020 12:06

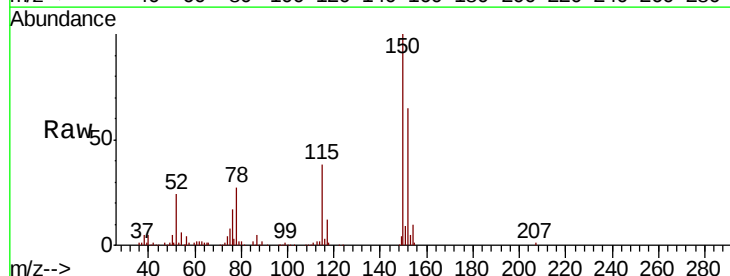
Tgt Ion:152 Resp: 117367

Ion Ratio Lower Upper

152 100

115 58.7 30.2 90.6

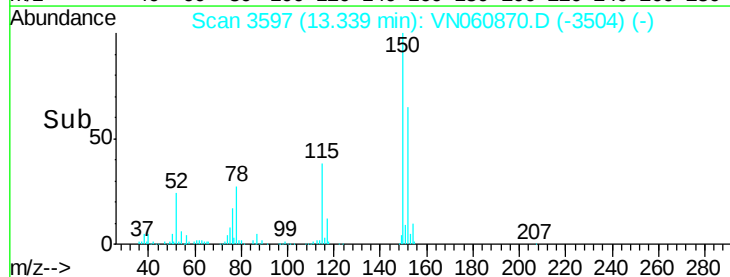
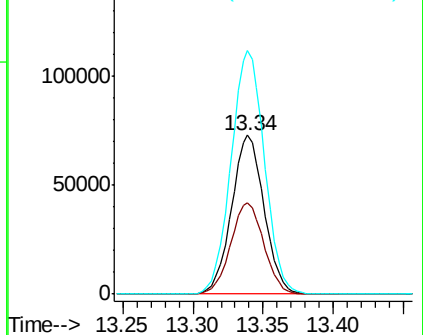
150 157.5 0.0 350.2

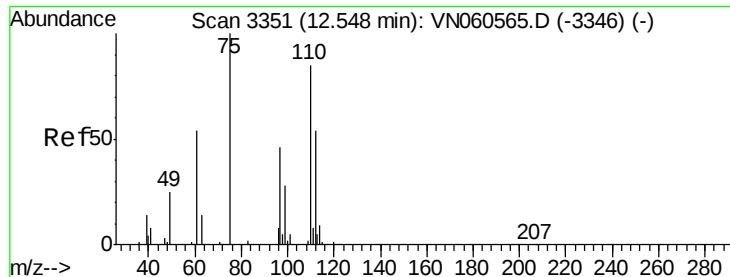


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.636 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060870.D

Acq: 7 Apr 2020 12:06

Instrument :

MSVOA\_N

ClientSampled :

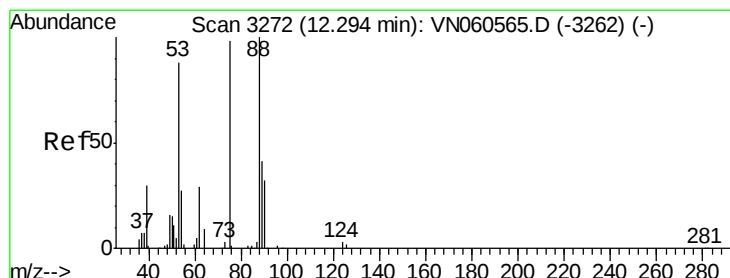
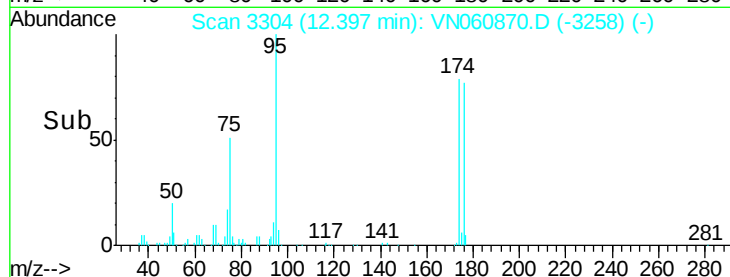
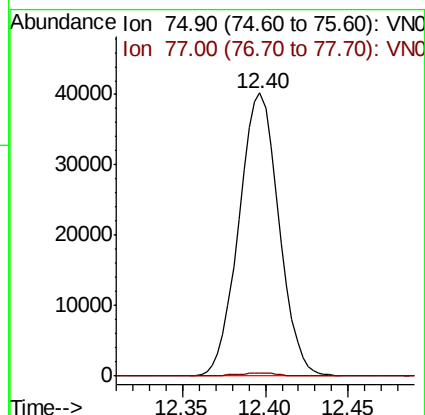
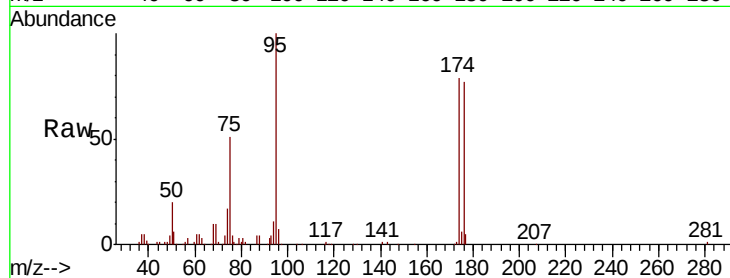
VN0407WBL01

Tot Ion: 75 Resp: 67456

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.408 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060870.D

Acq: 7 Apr 2020 12:06

Tgt Ion: 75 Resp: 67456

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

