

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN031020\  
 Data File : VN060410.D  
 Acq On : 10 Mar 2020 12:45  
 Operator : JC/MD  
 Sample : L1857-06  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TRIP

Quant Time: Mar 11 06:39:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N022720W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 27 13:52:50 2020  
 Response via : Initial Calibration

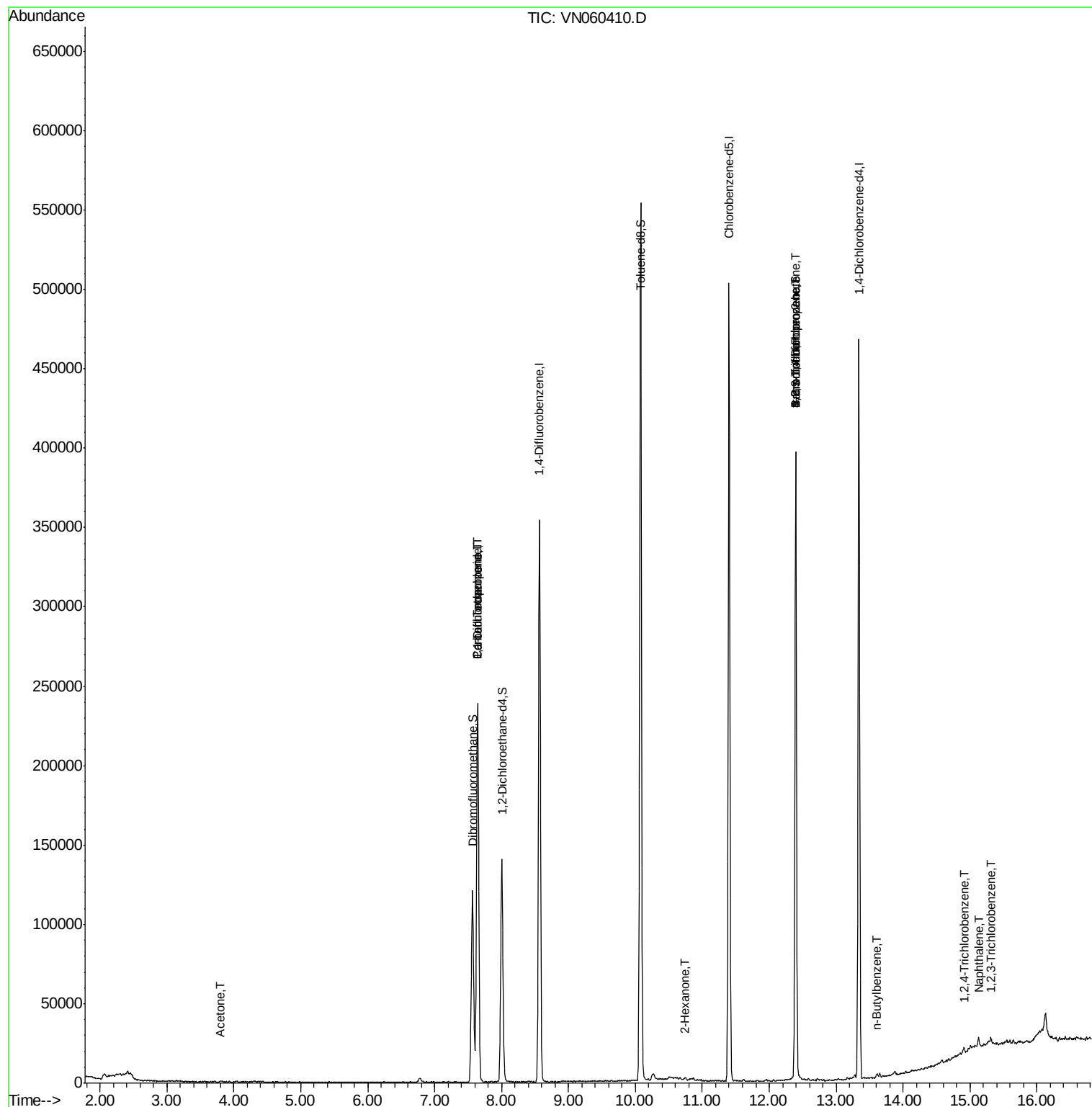
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.64  | 168  | 193168   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.57  | 114  | 313768   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.40 | 117  | 283603   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.34 | 152  | 124256   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.00  | 65   | 122076   | 49.26     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 98.52%  |          |
| 35) Dibromofluoromethane       | 7.56  | 113  | 91570    | 62.87     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 125.74% |          |
| 50) Toluene-d8                 | 10.08 | 98   | 380770   | 51.66     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 103.32% |          |
| 62) 4-Bromofluorobenzene       | 12.40 | 95   | 135461   | 48.48     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 96.96%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 16) Acetone                    | 3.79  | 43   | 203      | 0.254     | ug/l #  | 44       |
| 17) Carbon Disulfide           | 4.03  | 76   | 842      | Below Cal | #       | 75       |
| 31) Cyclohexane                | 7.64  | 56   | 4056     | Below Cal | #       | 1        |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 15255    | 5.101     | ug/l #  | 50       |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 18629    | 6.398     | ug/l #  | 16       |
| 59) 2-Hexanone                 | 10.74 | 43   | 825      | 0.400     | ug/l    | 77       |
| 71) Bromoform                  | 12.39 | 173  | 313      | 0.205     | ug/l #  | 1        |
| 76) 1,2,3-Trichloropropane     | 12.39 | 75   | 69273    | 25.410    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 69273    | 70.144    | ug/l #  | 8        |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 661      | Below Cal |         | 93       |
| 88) 1,4-Dichlorobenzene        | 13.28 | 146  | 661      | Below Cal |         | 94       |
| 89) n-Butylbenzene             | 13.61 | 91   | 1647     | 0.216     | ug/l    | 92       |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 1307     | 0.607     | ug/l    | 92       |
| 94) Hexachlorobutadiene        | 15.00 | 225  | 595      | Below Cal |         | 75       |
| 95) Naphthalene                | 15.13 | 128  | 4756     | 0.373     | ug/l #  | 94       |
| 96) 1,2,3-Trichlorobenzene     | 15.31 | 180  | 1431     | 0.424     | ug/l    | 91       |

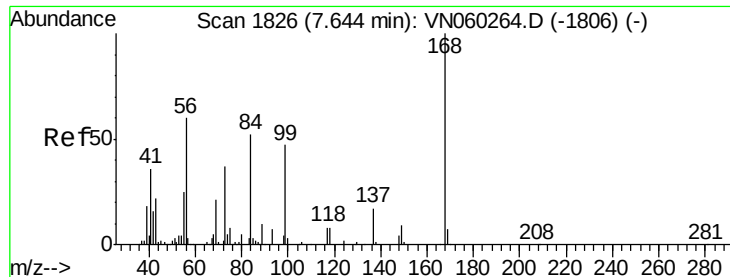
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN031020\  
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ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampled :  
TRIP

Quant Time: Mar 11 06:39:50 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N022720W.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 27 13:52:50 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060410.D

Acq: 10 Mar 2020 12:45

Instrument :

MSVOA\_N

ClientSampled :

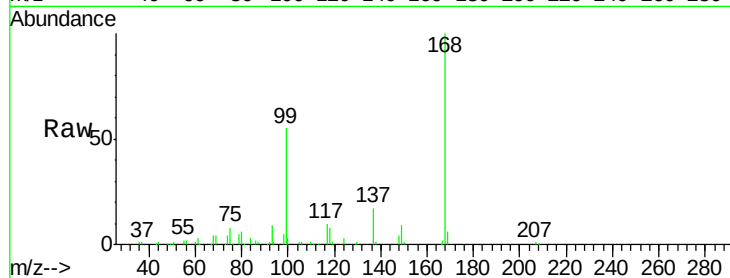
TRIP

Tgt Ion:168 Resp: 193168

Ion Ratio Lower Upper

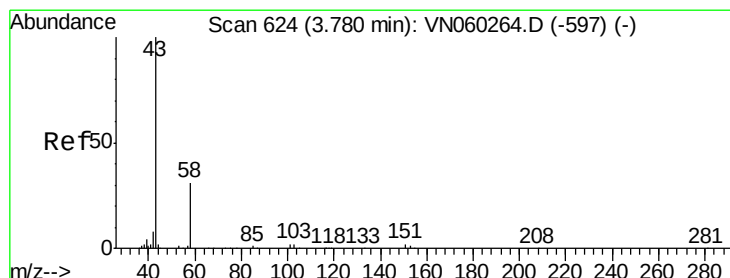
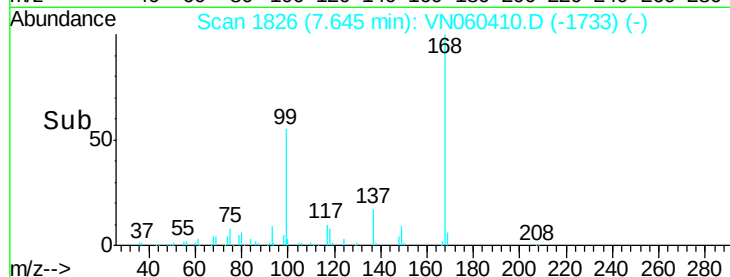
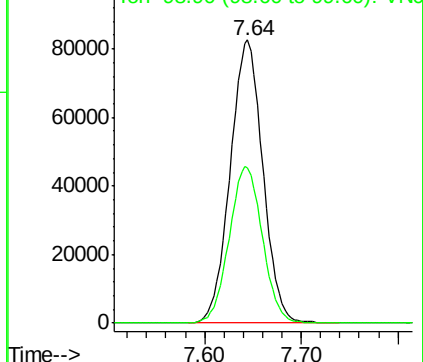
168 100

99 54.8 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 0.254 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060410.D

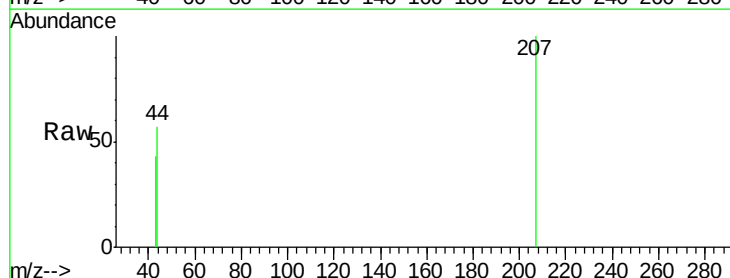
Acq: 10 Mar 2020 12:45

Tgt Ion: 43 Resp: 203

Ion Ratio Lower Upper

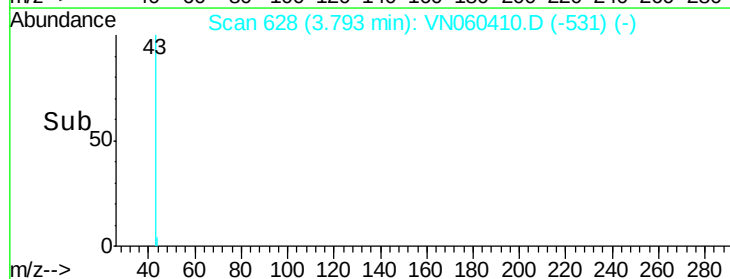
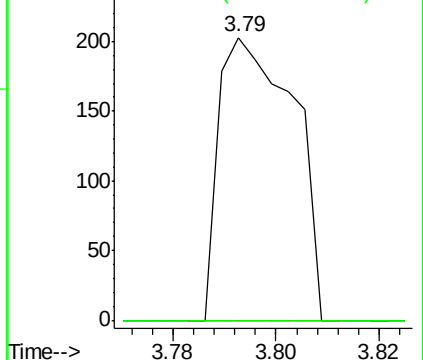
43 100

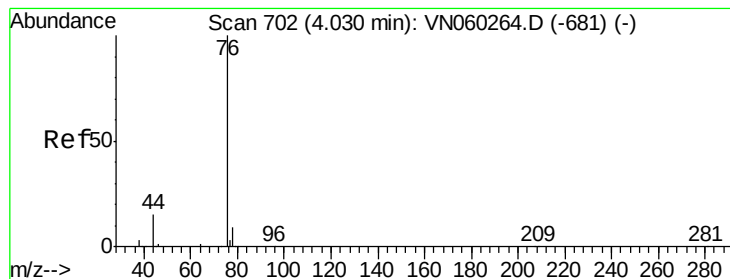
58 0.0 24.6 36.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN060410.D

Acq: 10 Mar 2020 12:45

Instrument :

MSVOA\_N

ClientSampleId :

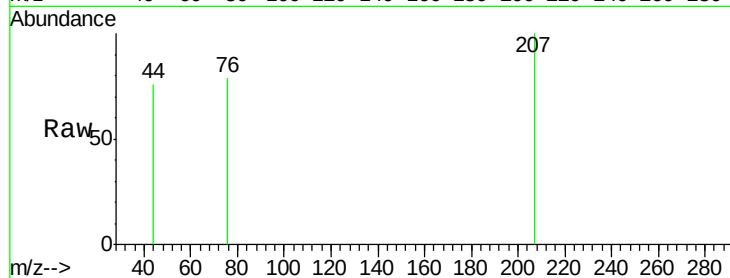
TRIP

Tgt Ion: 76 Resp: 842

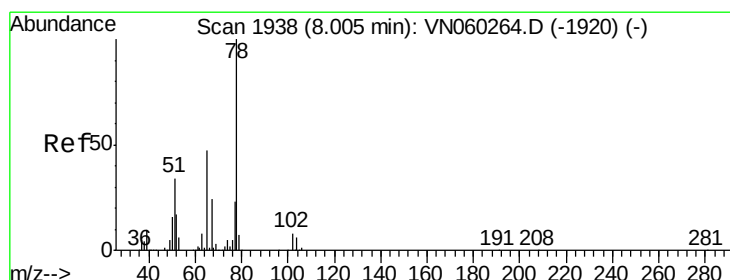
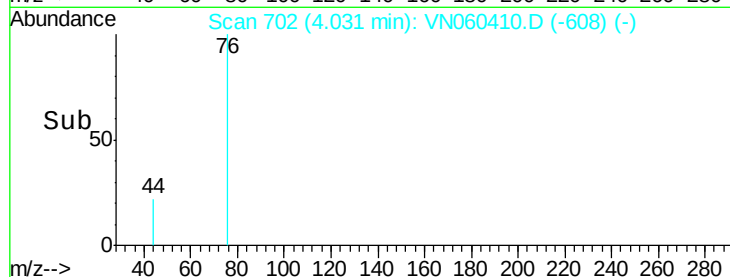
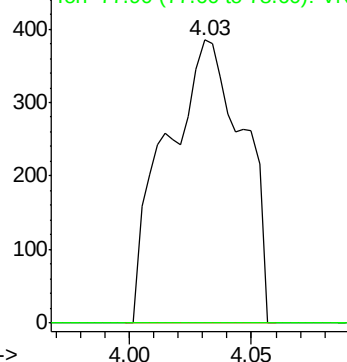
Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN060410.D (-681) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.256 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060410.D

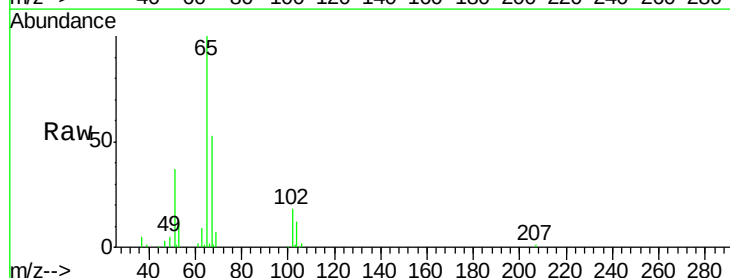
Acq: 10 Mar 2020 12:45

Tgt Ion: 65 Resp: 122076

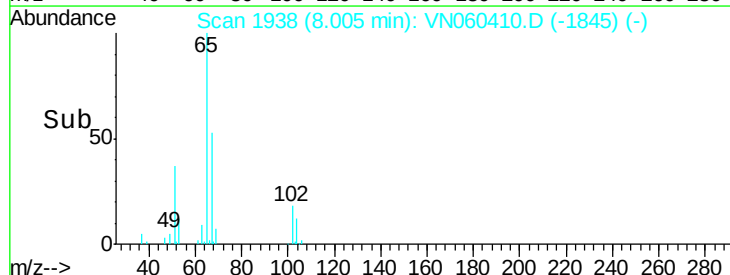
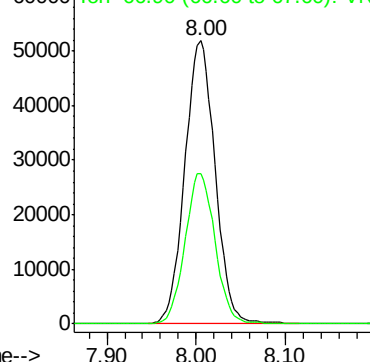
Ion Ratio Lower Upper

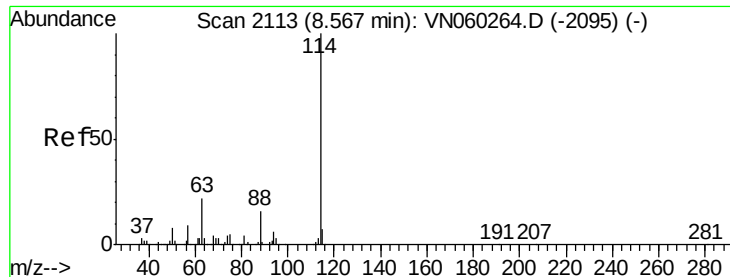
65 100

67 52.5 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN060410.D (-1845) (-)

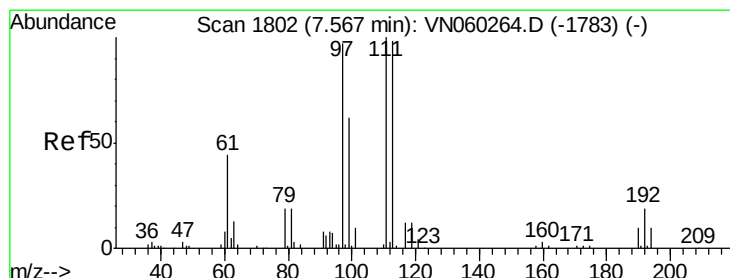
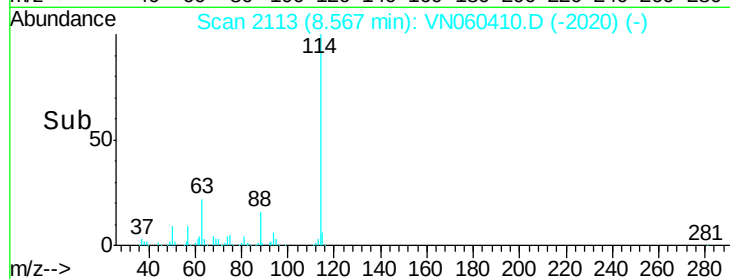
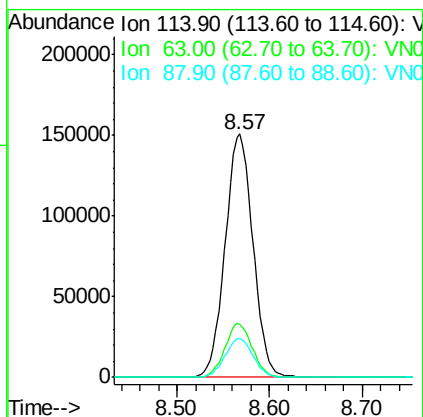
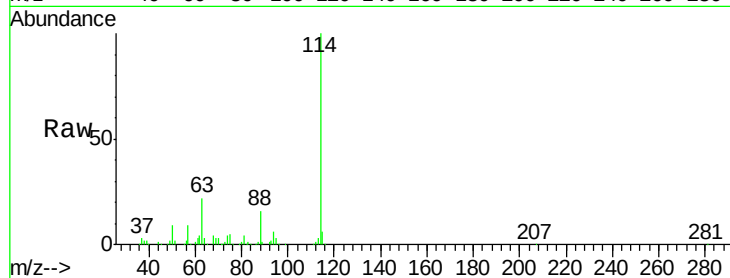




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. 0.00 min  
 Lab File: VN060410.D  
 Acq: 10 Mar 2020 12:45

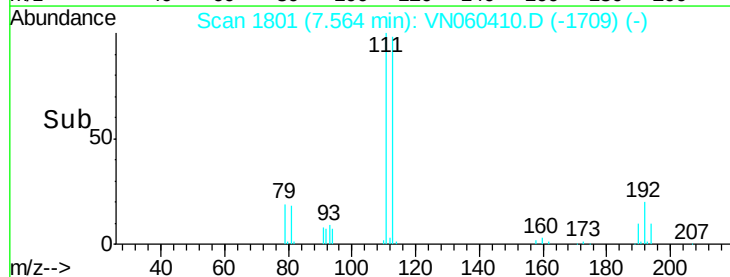
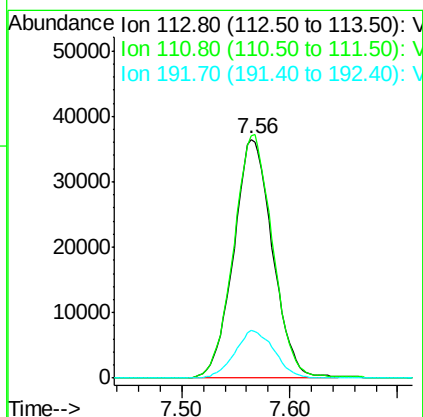
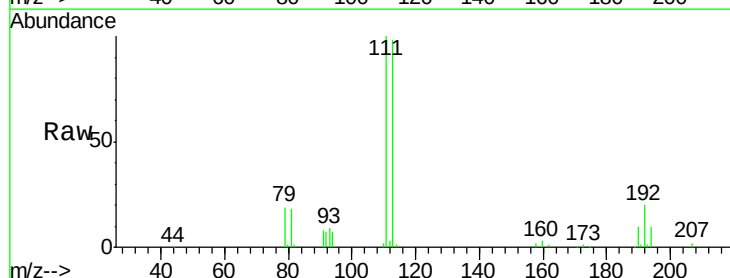
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TRIP

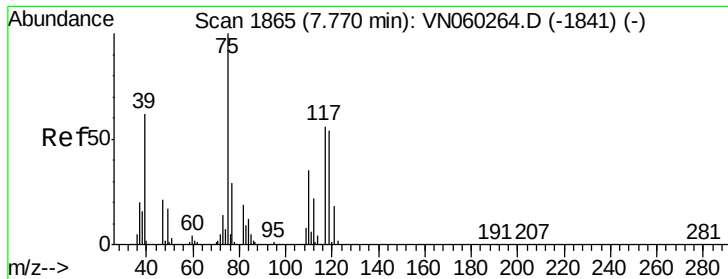
Tgt Ion:114 Resp: 313768  
 Ion Ratio Lower Upper  
 114 100  
 63 22.0 0.0 43.2  
 88 16.0 0.0 31.6



#35  
 Dibromofluoromethane  
 Concen: 62.874 ug/l  
 RT: 7.56 min Scan# 1801  
 Delta R.T. -0.00 min  
 Lab File: VN060410.D  
 Acq: 10 Mar 2020 12:45

Tgt Ion:113 Resp: 91570  
 Ion Ratio Lower Upper  
 113 100  
 111 102.1 82.4 123.6  
 192 20.1 16.2 24.2

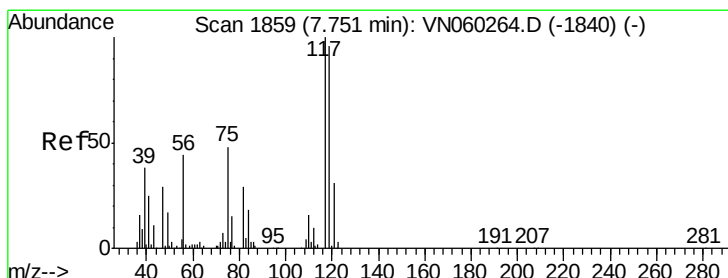
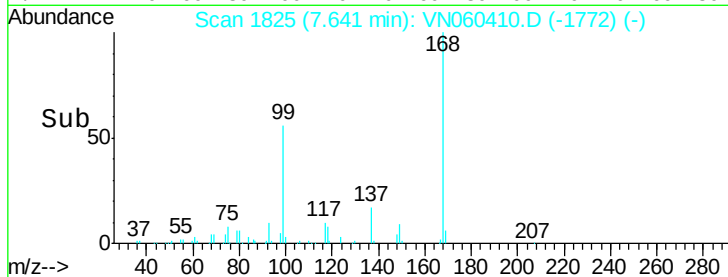
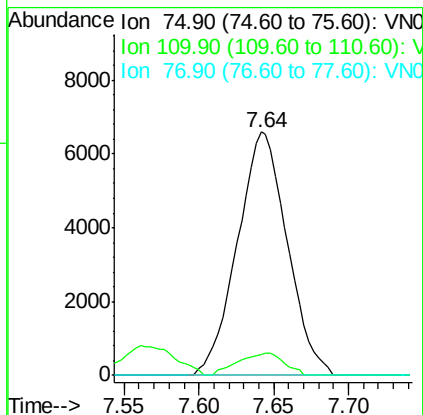
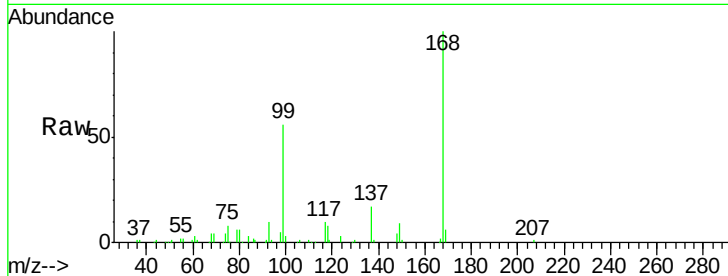




#36  
 1,1-Dichloropropene  
 Concen: 5.101 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.13 min  
 Lab File: VN060410.D  
 Acq: 10 Mar 2020 12:45

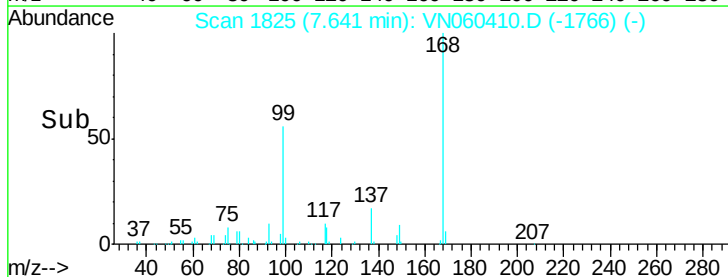
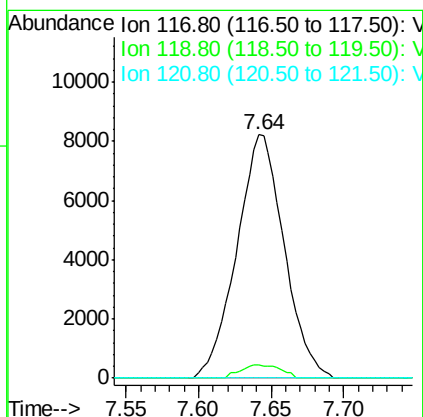
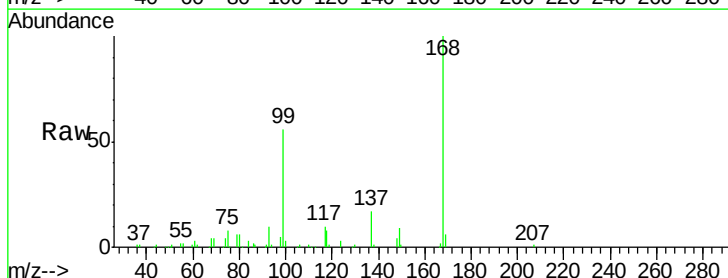
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TRIP

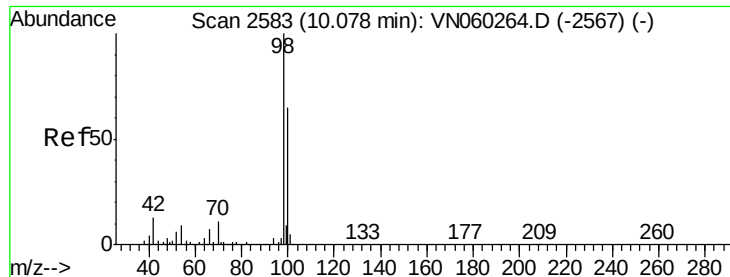
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.6   | 17.3  | 52.0# |
| 77      | 0.0   | 24.2  | 36.2# |



#38  
 Carbon Tetrachloride  
 Concen: 6.398 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.11 min  
 Lab File: VN060410.D  
 Acq: 10 Mar 2020 12:45

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.3   | 76.7  | 115.1# |
| 121     | 0.0   | 24.5  | 36.7#  |





#50

Toluene-d8

Concen: 51.657 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060410.D

Acq: 10 Mar 2020 12:45

Instrument :

MSVOA\_N

ClientSampleId :

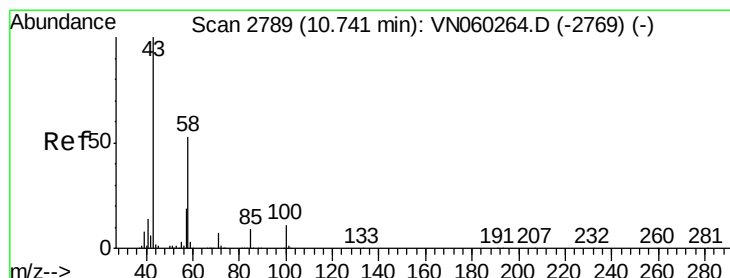
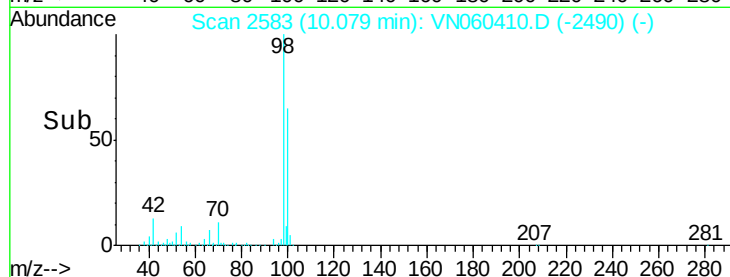
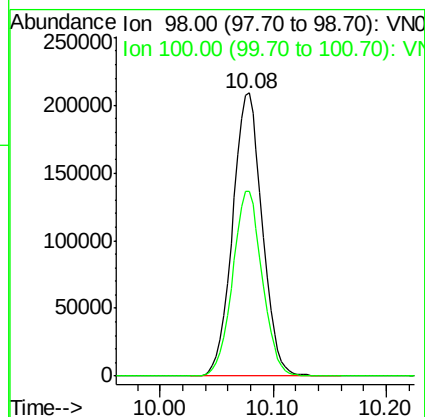
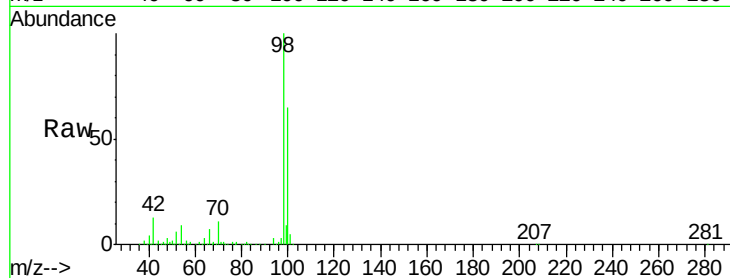
TRIP

Tgt Ion: 98 Resp: 380770

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2



#59

2-Hexanone

Concen: 0.400 ug/l

RT: 10.74 min Scan# 2789

Delta R.T. 0.00 min

Lab File: VN060410.D

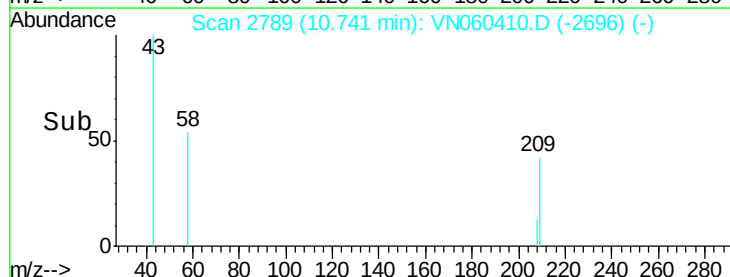
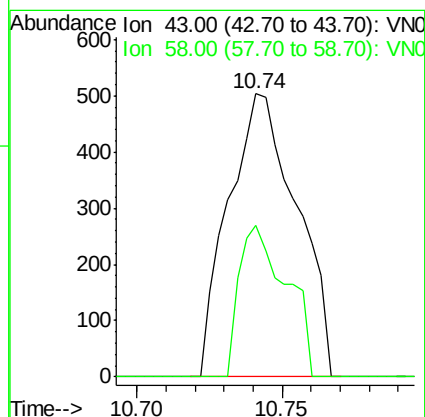
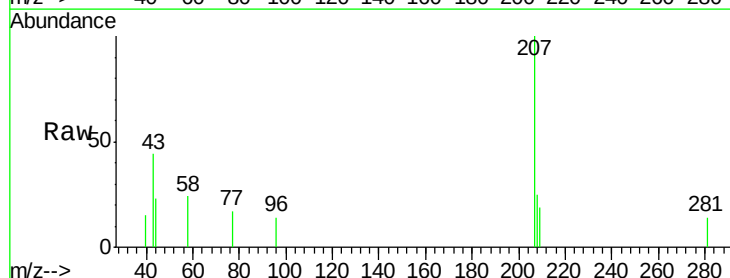
Acq: 10 Mar 2020 12:45

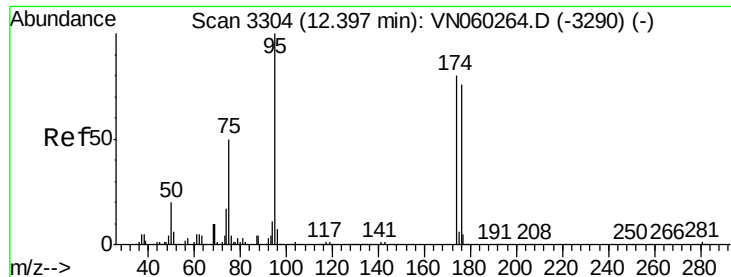
Tgt Ion: 43 Resp: 825

Ion Ratio Lower Upper

43 100

58 36.8 26.5 79.5





#62

4-Bromofluorobenzene

Concen: 48.479 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060410.D

Acq: 10 Mar 2020 12:45

Instrument :

MSVOA\_N

ClientSampled :

TRIP

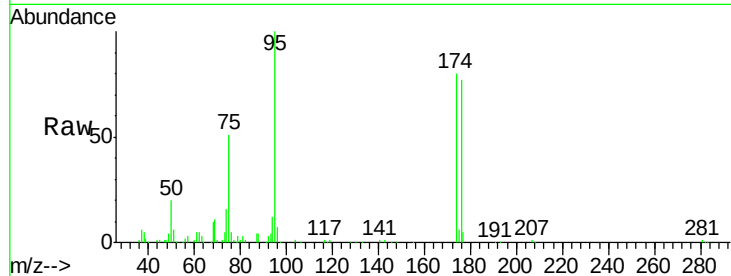
Tgt Ion: 95 Resp: 135461

Ion Ratio Lower Upper

95 100

174 80.0 0.0 159.2

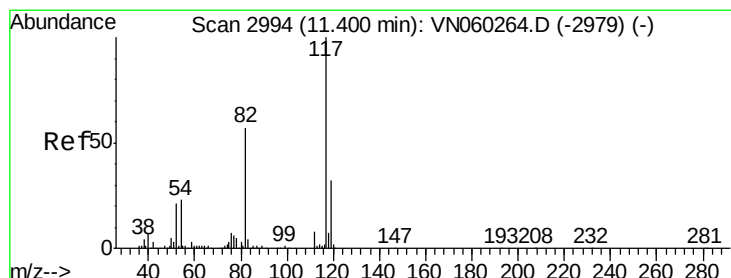
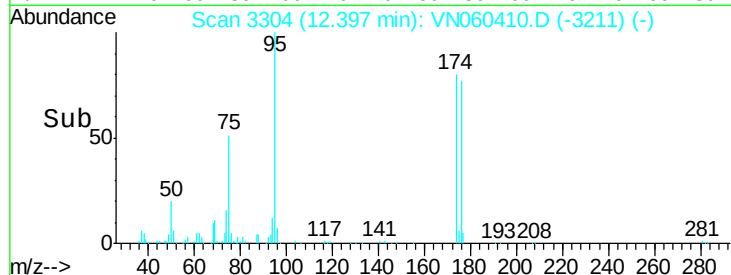
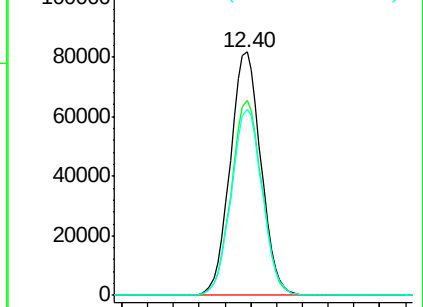
176 77.1 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060410.D

Acq: 10 Mar 2020 12:45

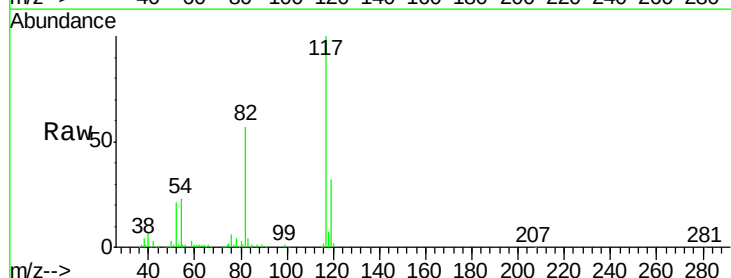
Tgt Ion: 117 Resp: 283603

Ion Ratio Lower Upper

117 100

82 56.9 45.8 68.6

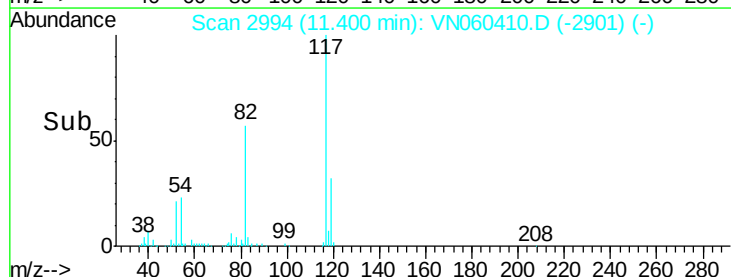
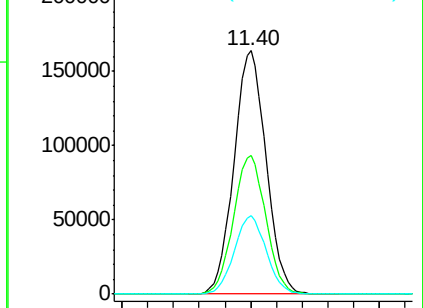
119 32.2 25.8 38.8



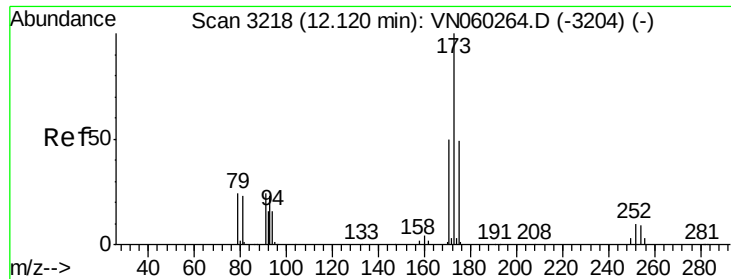
Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0







#71

Bromoform

Concen: 0.205 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.27 min

Lab File: VN060410.D

Acq: 10 Mar 2020 12:45

Instrument :

MSVOA\_N

ClientSampled :

TRIP

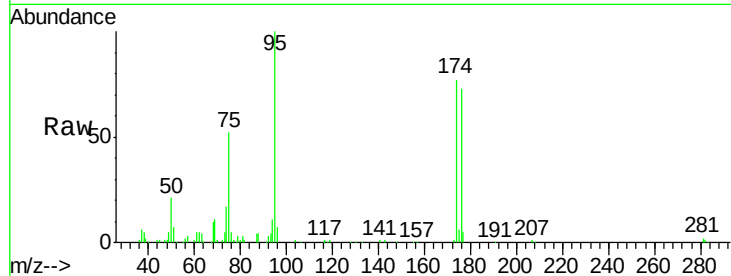
Tgt Ion:173 Resp: 313

Ion Ratio Lower Upper

173 100

175 2170.3 24.1 72.2#

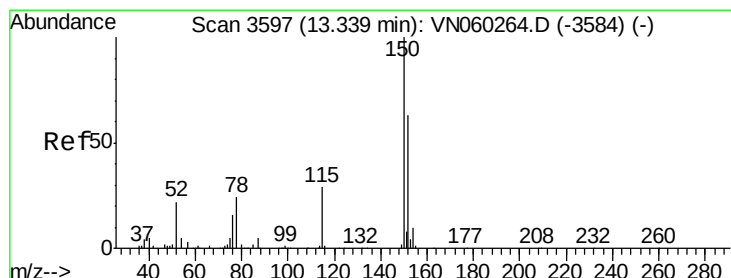
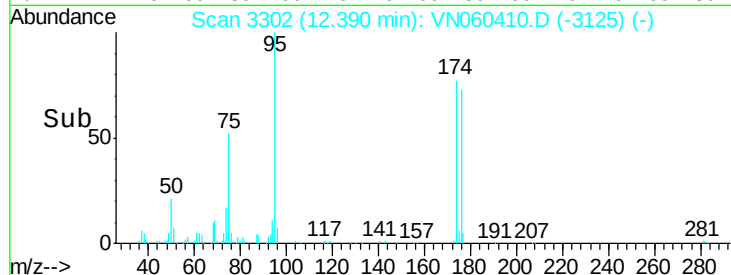
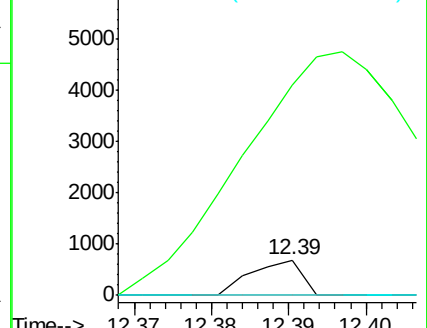
254 0.0 0.0 0.0



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: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060410.D

Acq: 10 Mar 2020 12:45

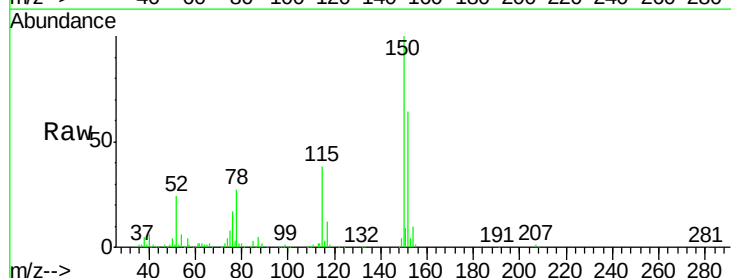
Tgt Ion:152 Resp: 124256

Ion Ratio Lower Upper

152 100

115 59.1 30.0 90.0

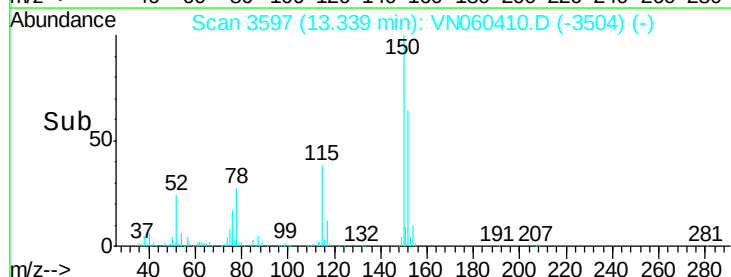
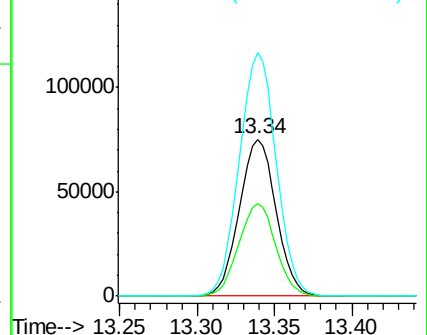
150 156.3 0.0 349.6

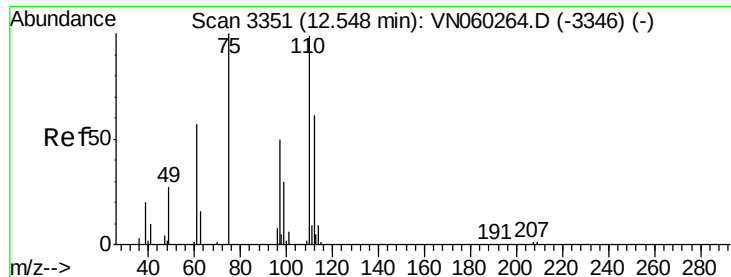


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.410 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060410.D

Acq: 10 Mar 2020 12:45

Instrument :

MSVOA\_N

ClientSampled :

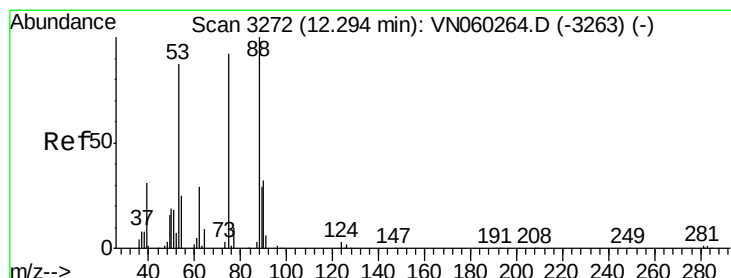
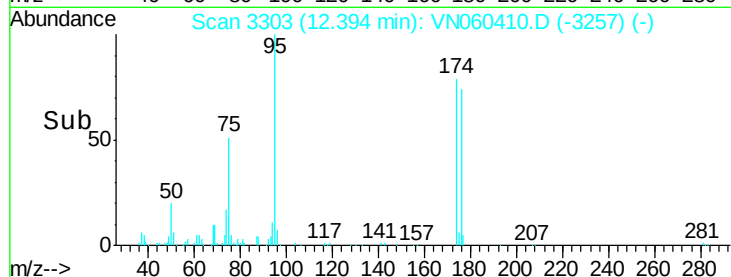
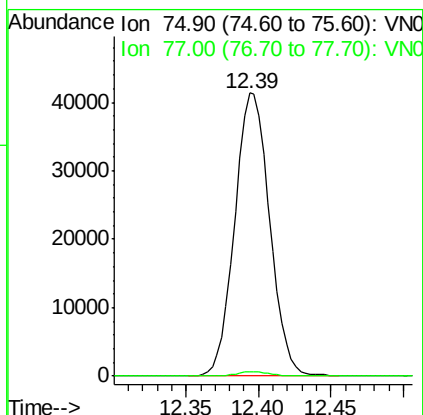
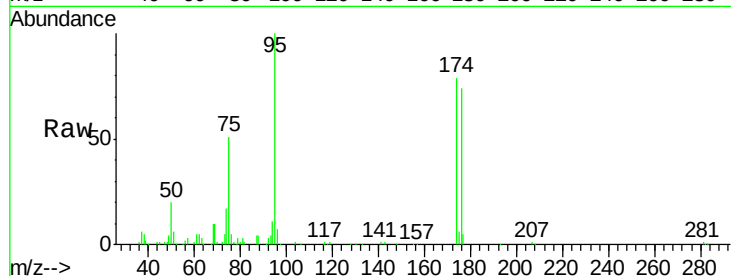
TRIP

Tgt Ion: 75 Resp: 69273

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.144 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060410.D

Acq: 10 Mar 2020 12:45

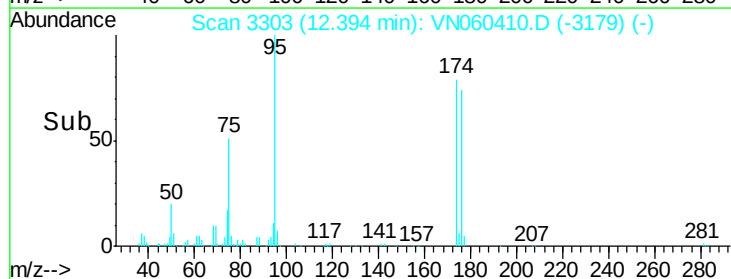
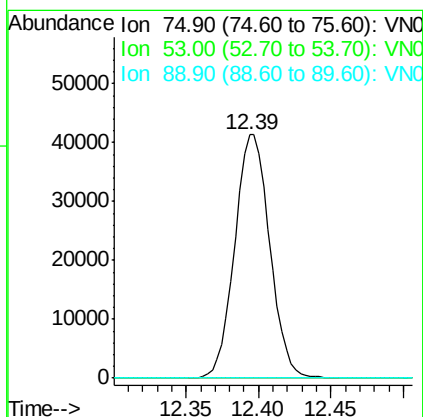
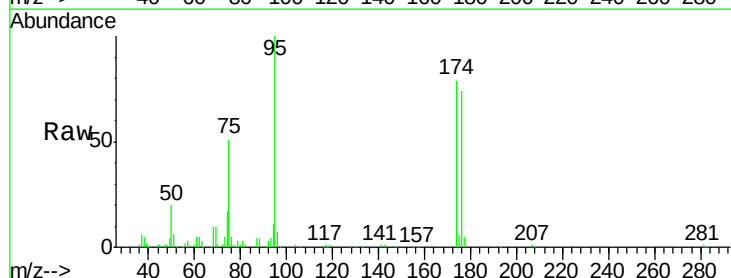
Tgt Ion: 75 Resp: 69273

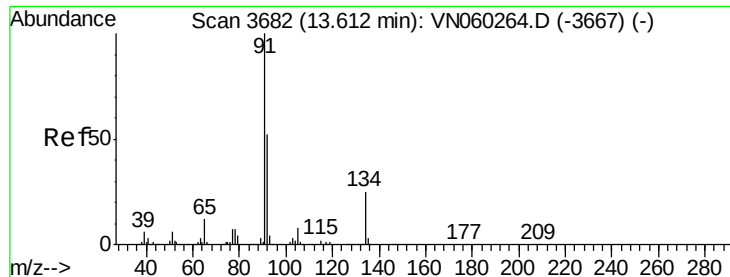
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#

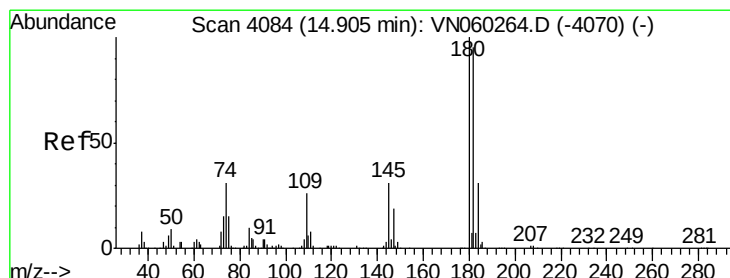
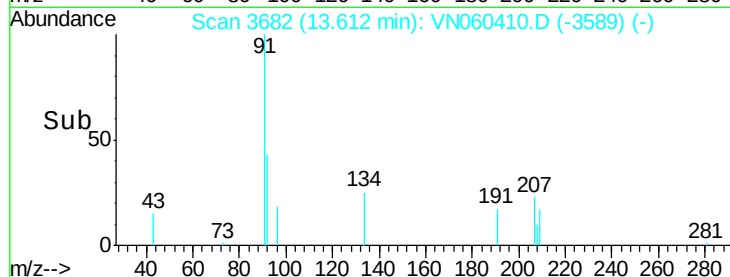
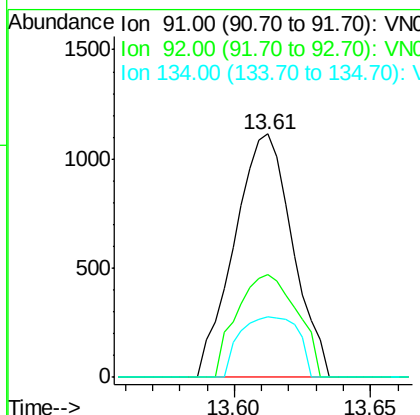
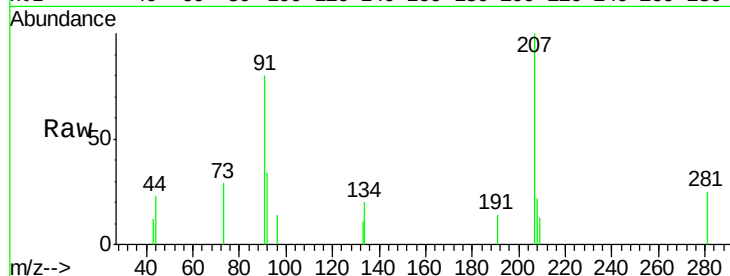




#89  
n-Butylbenzene  
Concen: 0.216 ug/l  
RT: 13.61 min Scan# 3682  
Delta R.T. 0.00 min  
Lab File: VN060410.D  
Acq: 10 Mar 2020 12:45

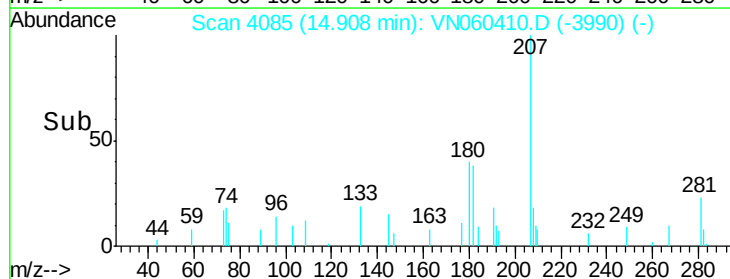
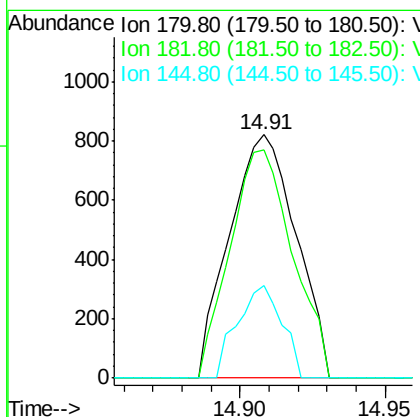
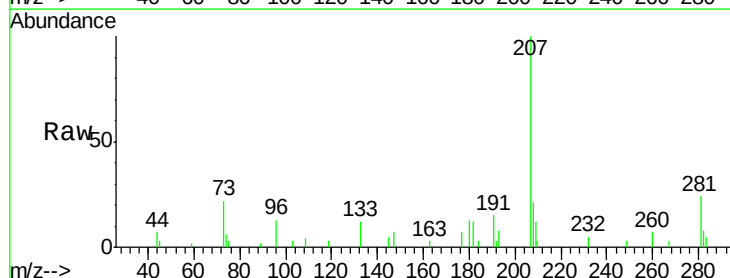
Instrument :  
MSVOA\_N  
ClientSampleId :  
TRIP

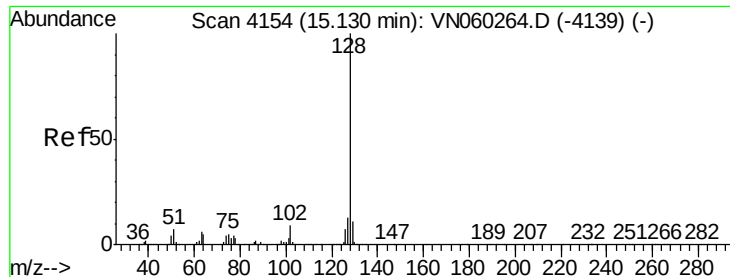
Tgt Ion: 91 Resp: 1647  
Ion Ratio Lower Upper  
91 100  
92 43.9 26.0 78.0  
134 25.0 12.7 38.1



#93  
1,2,4-Trichlorobenzene  
Concen: 0.607 ug/l  
RT: 14.91 min Scan# 4085  
Delta R.T. 0.00 min  
Lab File: VN060410.D  
Acq: 10 Mar 2020 12:45

Tgt Ion: 180 Resp: 1307  
Ion Ratio Lower Upper  
180 100  
182 88.1 47.8 143.3  
145 25.6 15.4 46.1

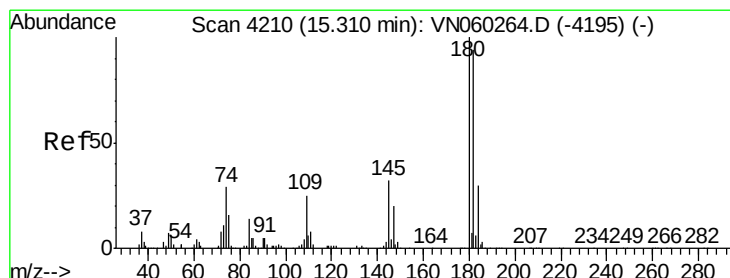
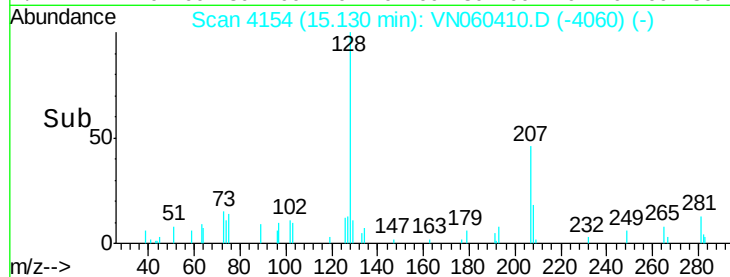
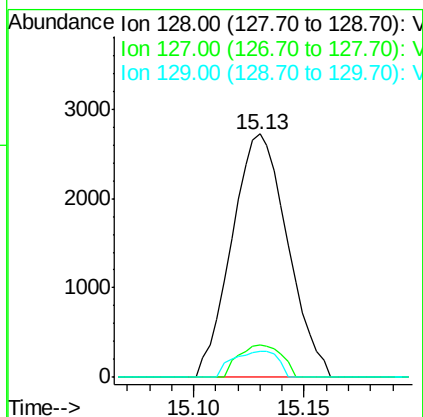
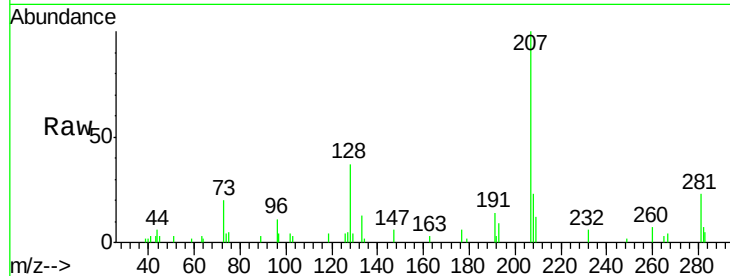




#95  
Naphthalene  
Concen: 0.373 ug/l  
RT: 15.13 min Scan# 4154  
Delta R.T. 0.00 min  
Lab File: VN060410.D  
Acq: 10 Mar 2020 12:45

Instrument :  
MSVOA\_N  
ClientSampled :  
TRIP

Tgt Ion:128 Resp: 4756  
Ion Ratio Lower Upper  
128 100  
127 10.3 10.4 15.6#  
129 8.7 8.6 13.0



#96  
1,2,3-Trichlorobenzene  
Concen: 0.424 ug/l  
RT: 15.31 min Scan# 4210  
Delta R.T. 0.00 min  
Lab File: VN060410.D  
Acq: 10 Mar 2020 12:45

Tgt Ion:180 Resp: 1431  
Ion Ratio Lower Upper  
180 100  
182 83.9 47.3 142.0  
145 33.5 16.2 48.5

