

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\  
 Data File : VN063061.D  
 Acq On : 21 Aug 2020 2:29  
 Operator : JC/MD  
 Sample : L3698-01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 S39-0209

Quant Time: Aug 21 06:41:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N081820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 19 06:09:27 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 140818   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 236192   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 239708   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 86846    | 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   | 96609    | 57.89 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 115.78% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 82949    | 53.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.80% |          |
| 50) Toluene-d8              | 10.06 | 98   | 303695   | 51.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.74% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 98989    | 47.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.90%  |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 14) Allyl chloride             | 4.03  | 41   | 1262     | 0.599     | ug/l # | 67     |
| 16) Acetone                    | 3.79  | 43   | 796      | Below Cal | #      | 40     |
| 18) Methyl Acetate             | 4.03  | 43   | 3154     | 1.902     | ug/l # | 52     |
| 24) 1,1-Dichloroethane         | 5.79  | 63   | 1012     | 0.379     | ug/l # | 85     |
| 27) cis-1,2-Dichloroethene     | 6.78  | 96   | 3093     | 1.973     | ug/l   | 84     |
| 31) Cyclohexane                | 7.63  | 56   | 2623     | 1.066     | ug/l # | 1      |
| 32) 1,1,1-Trichloroethane      | 7.53  | 97   | 2782     | 1.266     | ug/l # | 46     |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 10332    | 4.964     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 12848    | 6.114     | ug/l # | 17     |
| 44) Trichloroethene            | 8.80  | 130  | 1655     | 1.008     | ug/l   | 99     |
| 71) Bromoform                  | 12.37 | 173  | 886      | 0.594     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 48129    | 28.511    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 48129    | 78.304    | ug/l # | 15     |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

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MSVOA\_N

ClientSampleId :

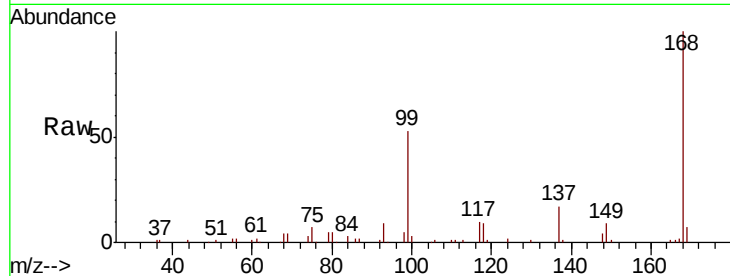
S39-0209

Tot Ion:168 Resp: 140818

Ion Ratio Lower Upper

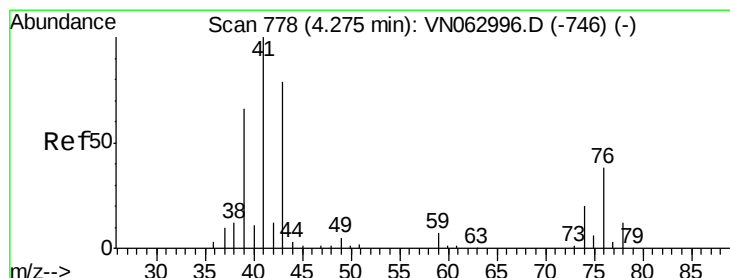
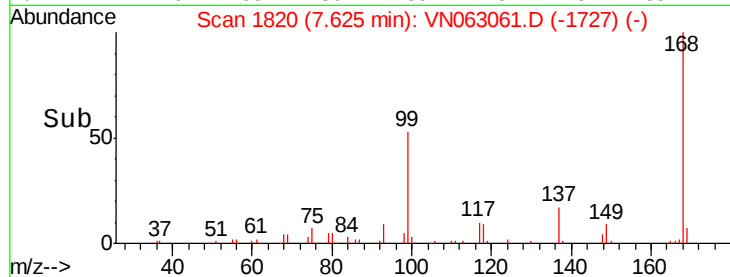
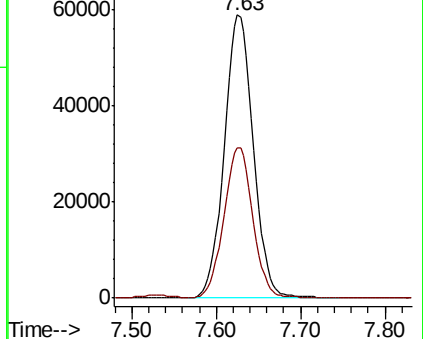
168 100

99 53.1 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#14

Allyl chloride

Concen: 0.599 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.24 min

Lab File: VN063061.D

Acq: 21 Aug 2020 2:29

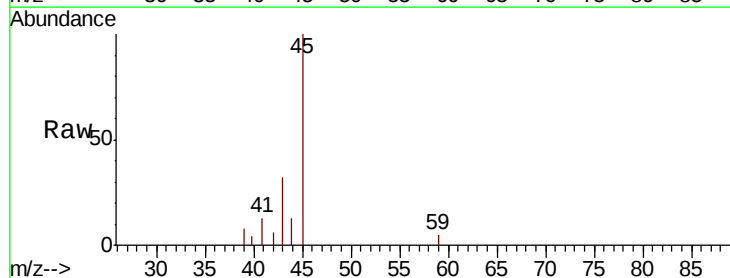
Tgt Ion: 41 Resp: 1262

Ion Ratio Lower Upper

41 100

39 46.7 47.9 71.9#

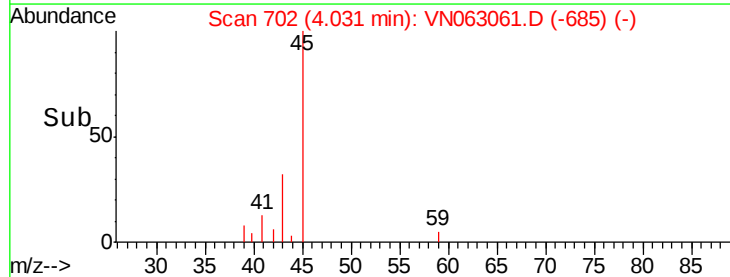
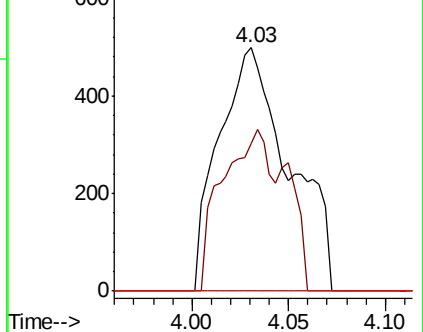
76 0.0 27.0 40.6#

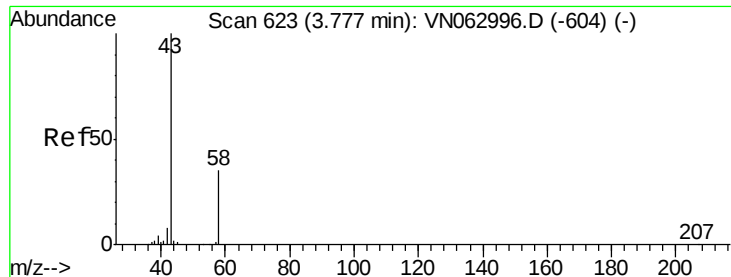


Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN063061.D

Acq: 21 Aug 2020 2:29

Instrument :

MSVOA\_N

ClientSampleId :

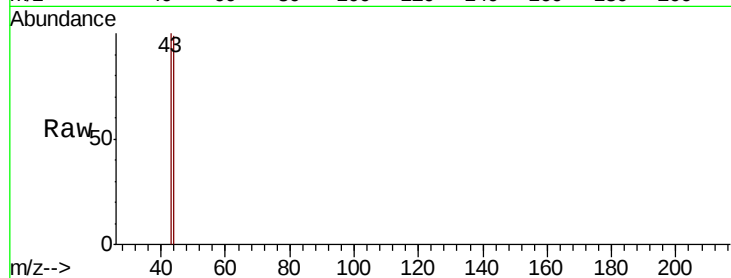
S39-0209

Tot Ion: 43 Resp: 796

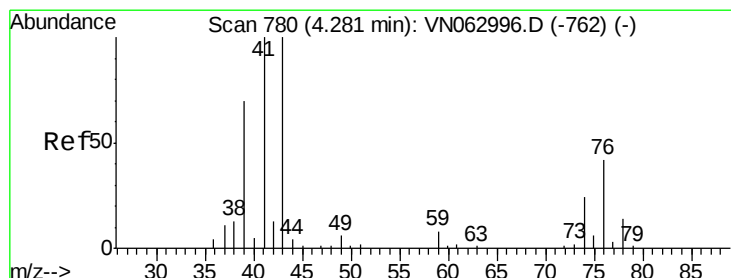
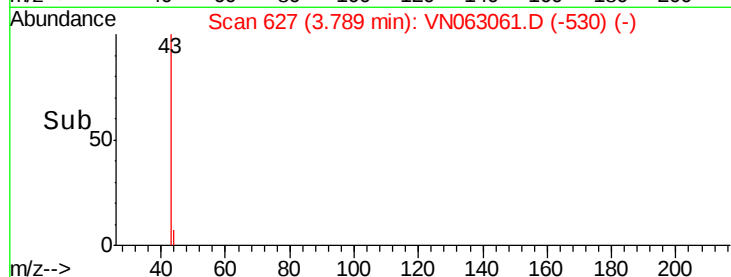
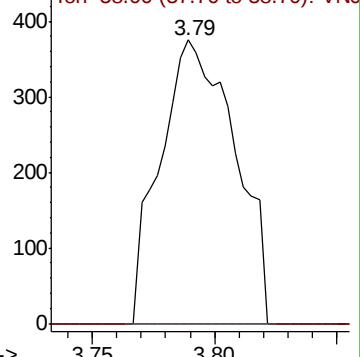
Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-604) (-)



#18

Methyl Acetate

Concen: 1.902 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.25 min

Lab File: VN063061.D

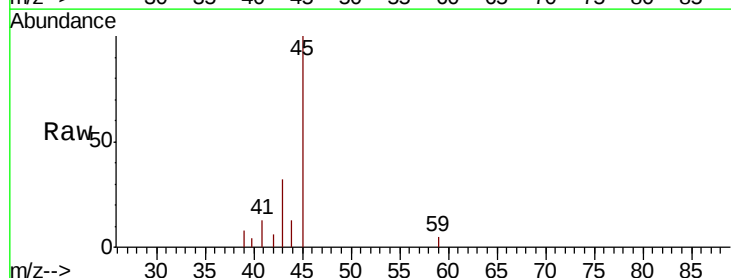
Acq: 21 Aug 2020 2:29

Tgt Ion: 43 Resp: 3154

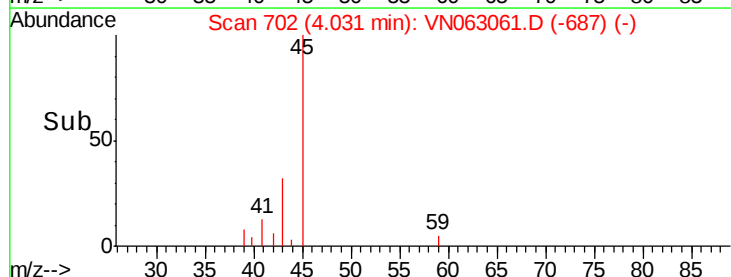
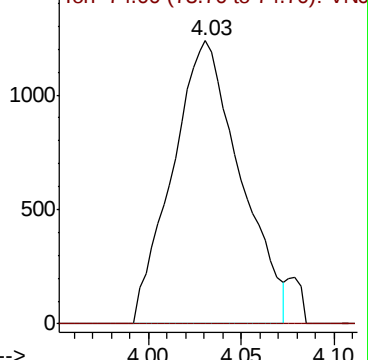
Ion Ratio Lower Upper

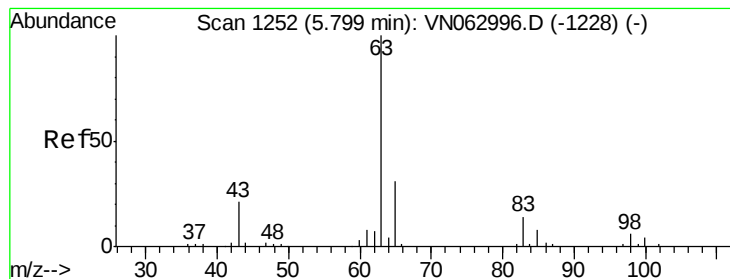
43 100

74 0.0 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-762) (-)





#24

1,1-Dichloroethane

Concen: 0.379 ug/l

RT: 5.79 min Scan# 1250

Delta R.T. -0.01 min

Lab File: VN063061.D

Acq: 21 Aug 2020 2:29

Instrument :

MSVOA\_N

ClientSampled :

S39-0209

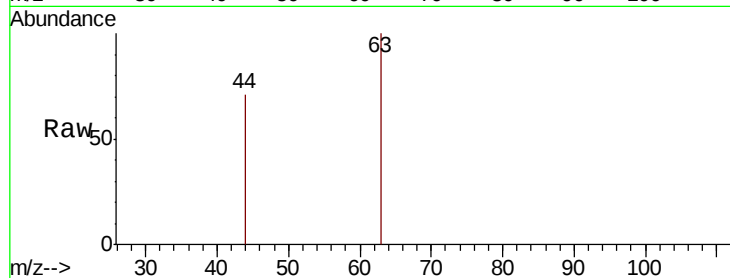
Tot Ion: 63 Resp: 1012

Ion Ratio Lower Upper

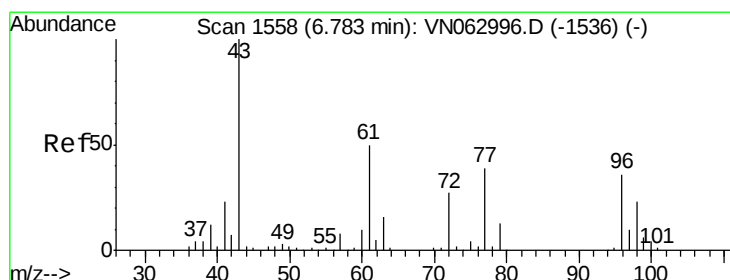
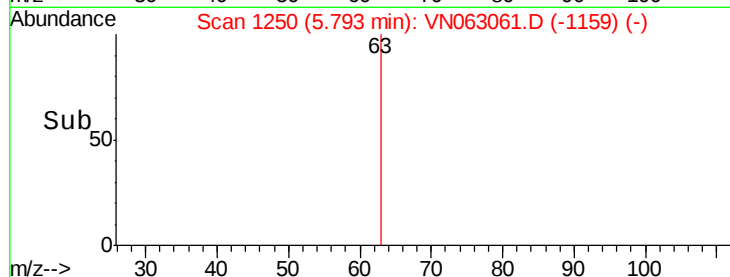
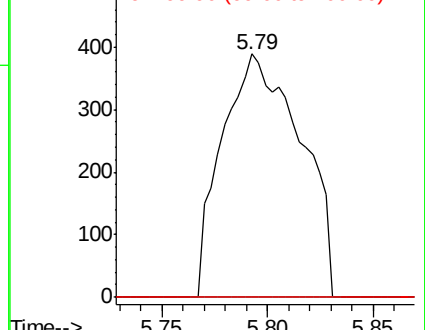
63 100

98 0.0 2.9 8.7#

100 0.0 2.0 5.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0  
Ion 97.90 (97.60 to 98.60): VN0  
Ion 99.90 (99.60 to 100.60): VN0



#27

cis-1,2-Dichloroethene

Concen: 1.973 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VN063061.D

Acq: 21 Aug 2020 2:29

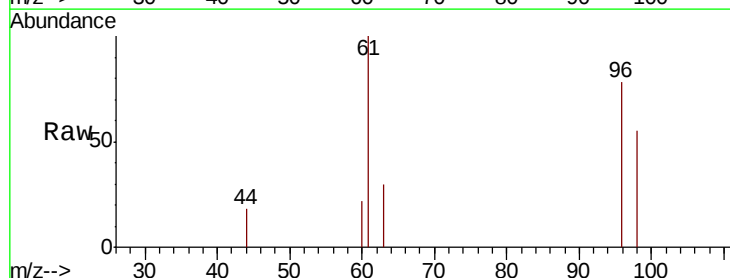
Tgt Ion: 96 Resp: 3093

Ion Ratio Lower Upper

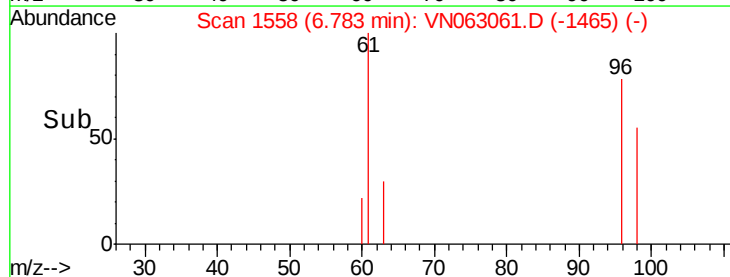
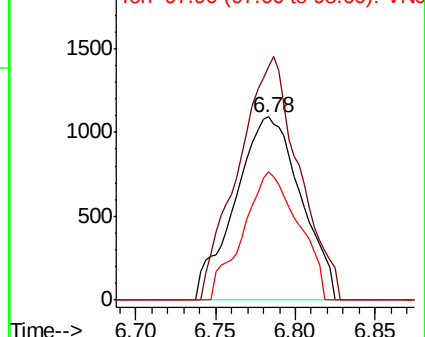
96 100

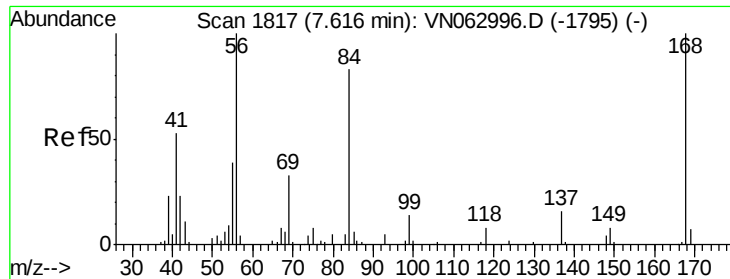
61 122.4 0.0 292.8

98 59.1 0.0 130.6



Abundance Ion 95.90 (95.60 to 96.60): VN0  
Ion 60.90 (60.60 to 61.60): VN0  
Ion 97.90 (97.60 to 98.60): VN0

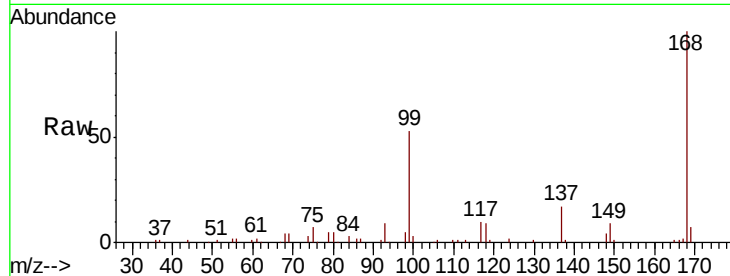




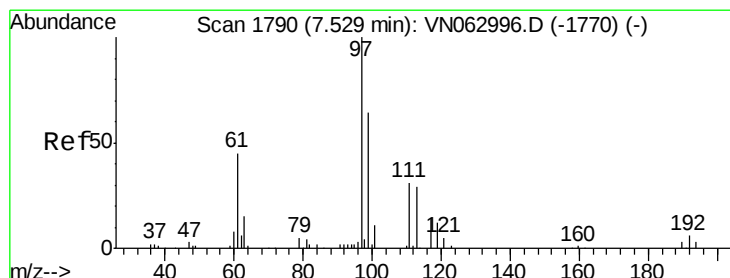
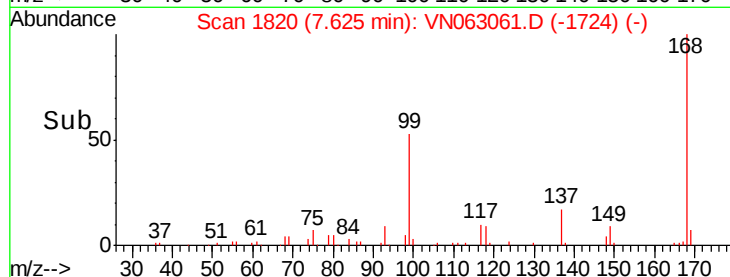
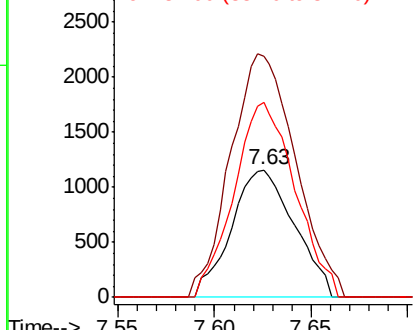
#31  
Cyclohexane  
Concen: 1.066 ug/l  
RT: 7.63 min Scan# 1820  
Delta R.T. 0.01 min  
Lab File: VN063061.D  
Acq: 21 Aug 2020 2:29

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S39-0209

Tot Ion: 56 Resp: 2623  
Ion Ratio Lower Upper  
56 100  
69 189.1 26.6 40.0#  
84 152.9 66.4 99.6#

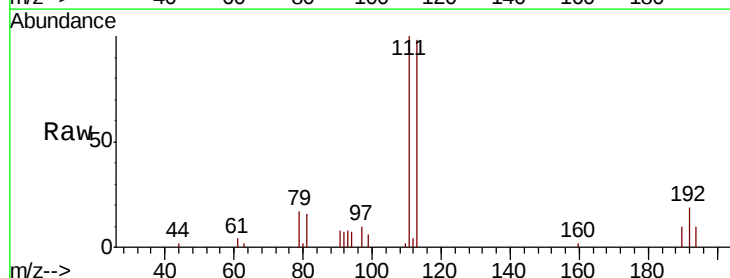


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

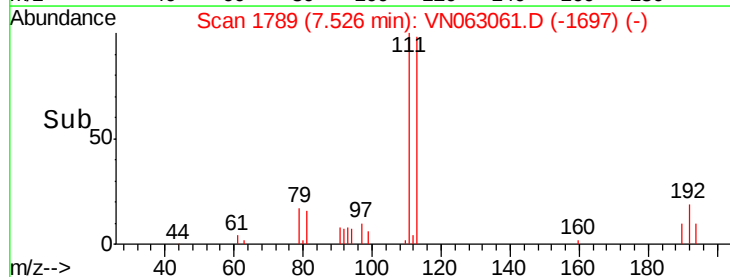
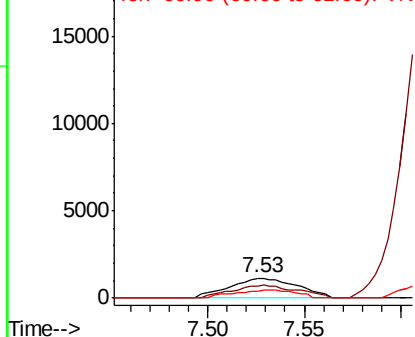


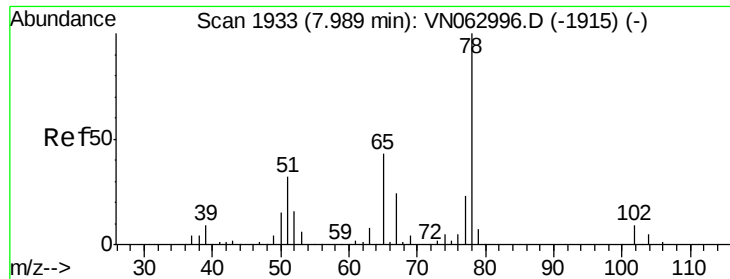
#32  
1,1,1-Trichloroethane  
Concen: 1.266 ug/l  
RT: 7.53 min Scan# 1789  
Delta R.T. -0.00 min  
Lab File: VN063061.D  
Acq: 21 Aug 2020 2:29

Tgt Ion: 97 Resp: 2782  
Ion Ratio Lower Upper  
97 100  
99 0.0 52.0 78.0#  
61 36.3 36.2 54.4



Abundance Ion 96.90 (96.60 to 97.60): VN0  
Ion 98.90 (98.60 to 99.60): VN0  
Ion 60.90 (60.60 to 61.60): VN0

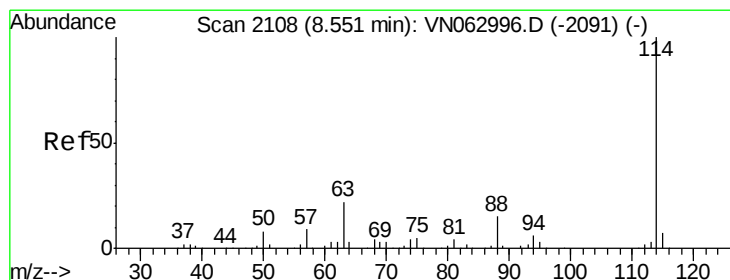
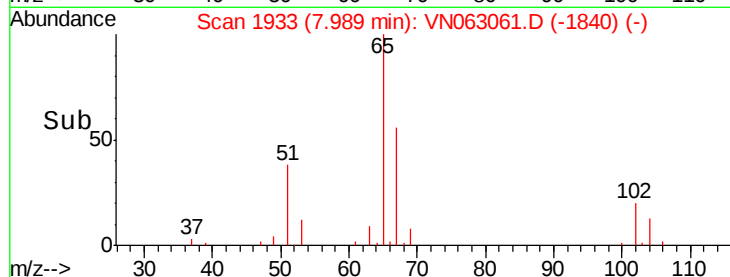
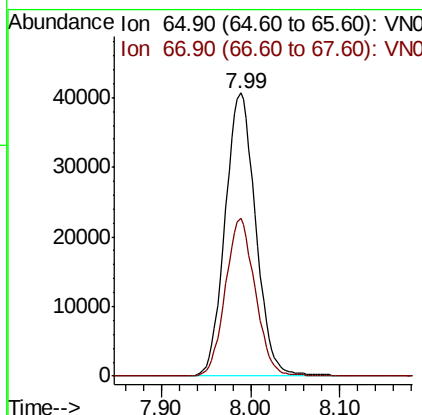
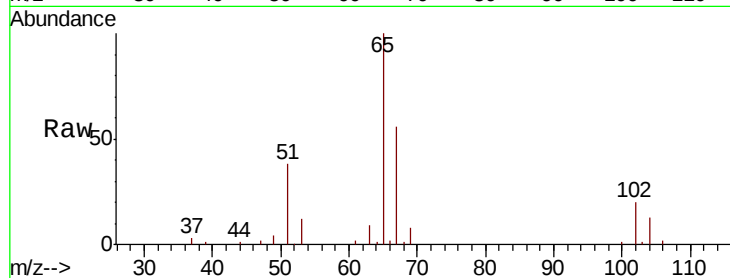




#33  
 1,2-Dichloroethane-d4  
 Concen: 57.886 ug/l  
 RT: 7.99 min Scan# 1933  
 Delta R.T. 0.00 min  
 Lab File: VN063061.D  
 Acq: 21 Aug 2020 2:29

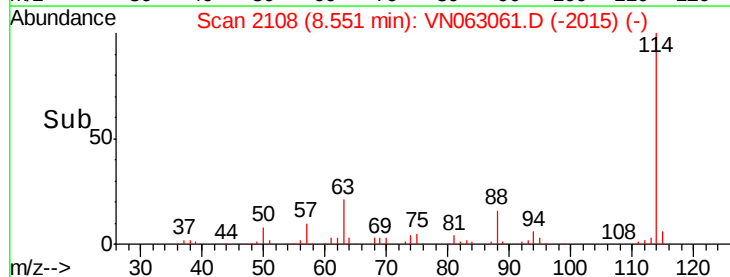
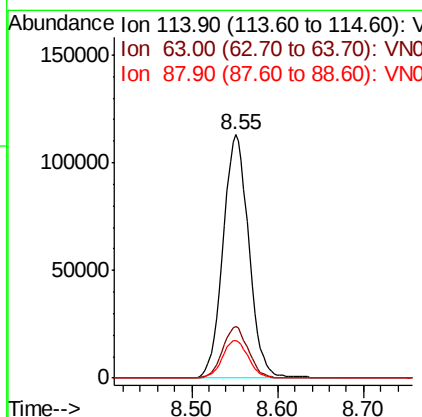
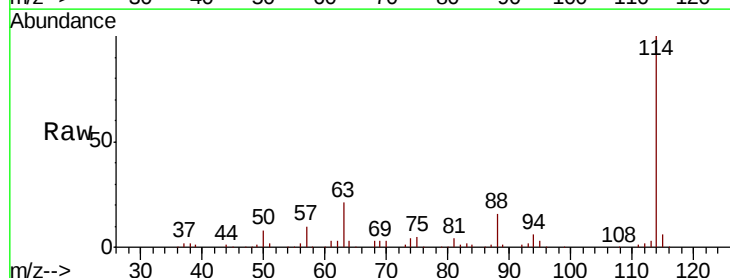
Instrument :  
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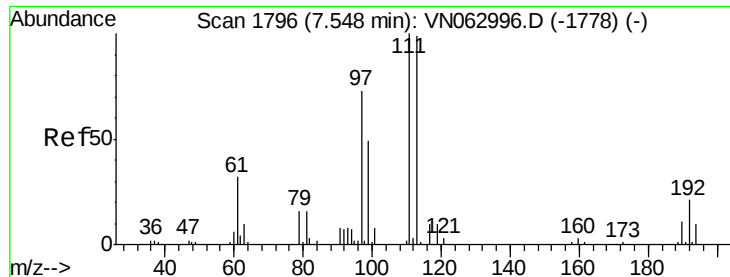
Tot Ion: 65 Resp: 96609  
 Ion Ratio Lower Upper  
 65 100  
 67 54.3 0.0 112.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. 0.00 min  
 Lab File: VN063061.D  
 Acq: 21 Aug 2020 2:29

Tgt Ion: 114 Resp: 236192  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 43.2  
 88 15.6 0.0 30.6

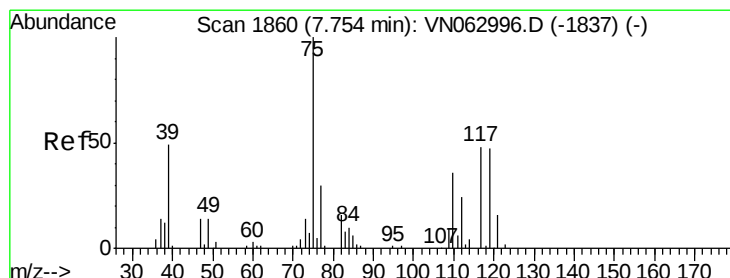
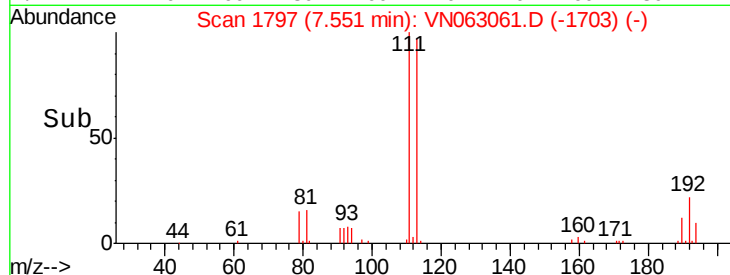
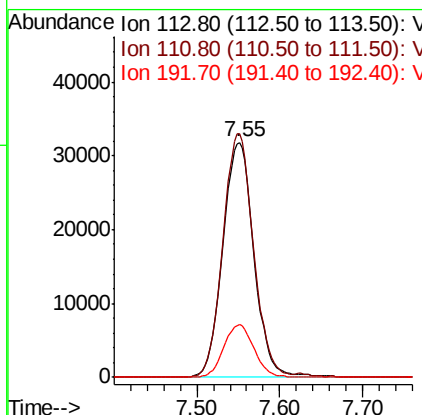
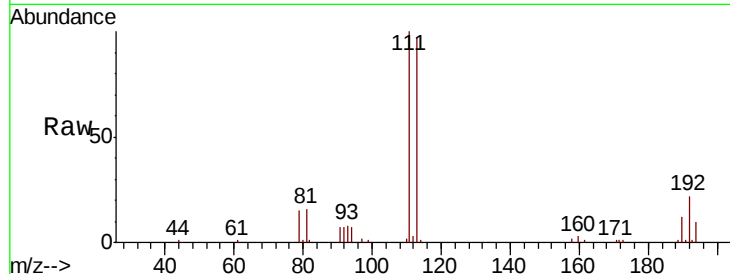




#35  
 Dibromofluoromethane  
 Concen: 53.897 ug/l  
 RT: 7.55 min Scan# 1797  
 Delta R.T. 0.00 min  
 Lab File: VN063061.D  
 Acq: 21 Aug 2020 2:29

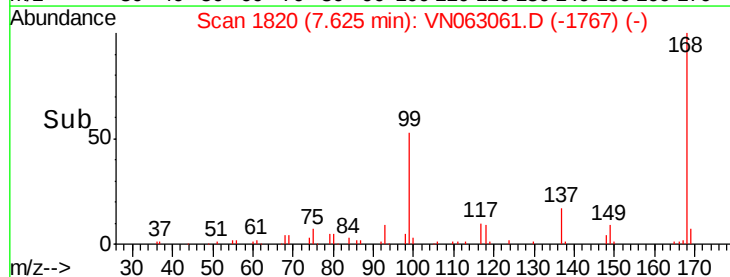
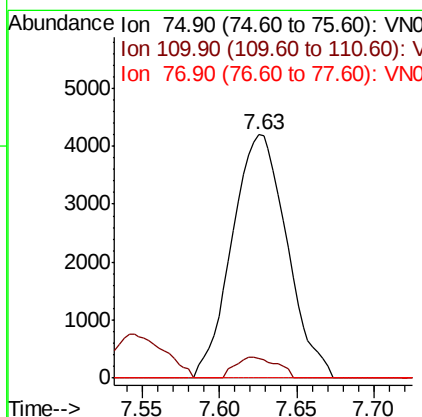
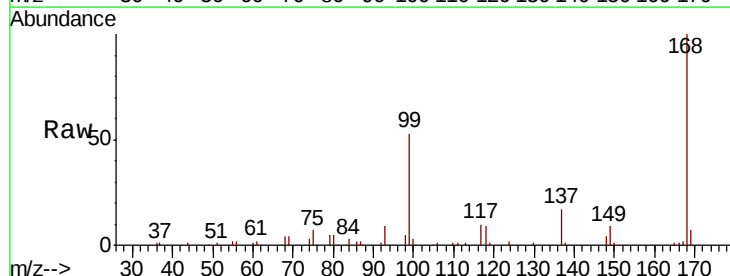
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 S39-0209

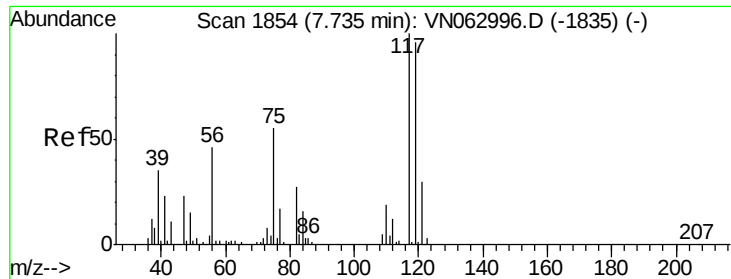
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.7 | 81.7  | 122.5 |
| 192     | 21.7  | 17.5  | 26.3  |



#36  
 1,1-Dichloropropene  
 Concen: 4.964 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.13 min  
 Lab File: VN063061.D  
 Acq: 21 Aug 2020 2:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 6.4   | 17.5  | 52.6# |
| 77      | 0.0   | 24.2  | 36.4# |





#38

Carbon Tetrachloride

Concen: 6.114 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN063061.D

Acq: 21 Aug 2020 2:29

Instrument :

MSVOA\_N

ClientSampled :

S39-0209

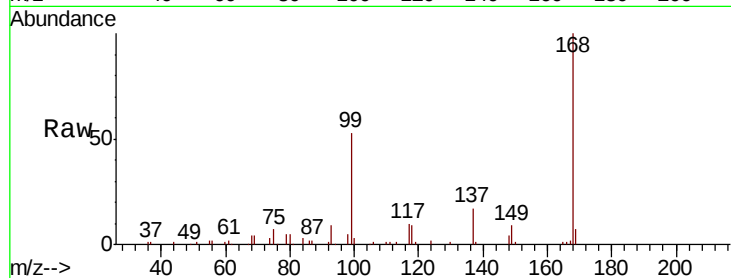
Tot Ion:117 Resp: 12848

Ion Ratio Lower Upper

117 100

119 6.3 76.2 114.4#

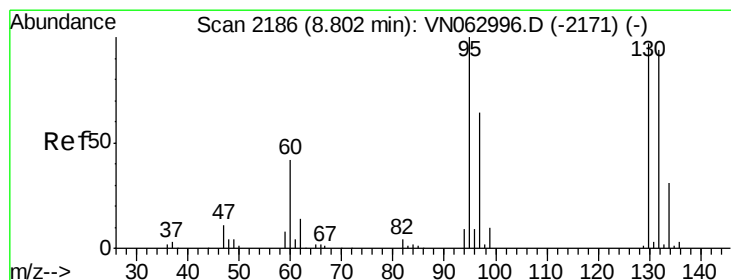
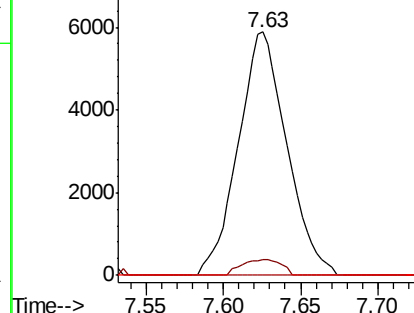
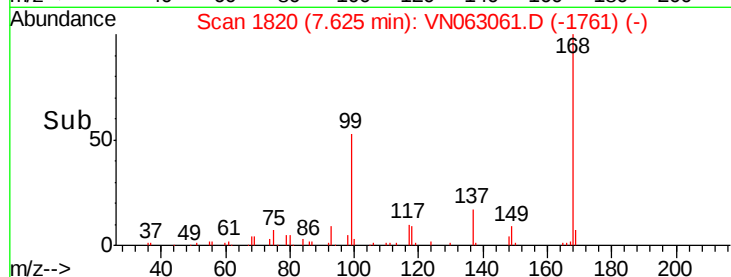
121 0.0 24.2 36.2#



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



#44

Trichloroethene

Concen: 1.008 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VN063061.D

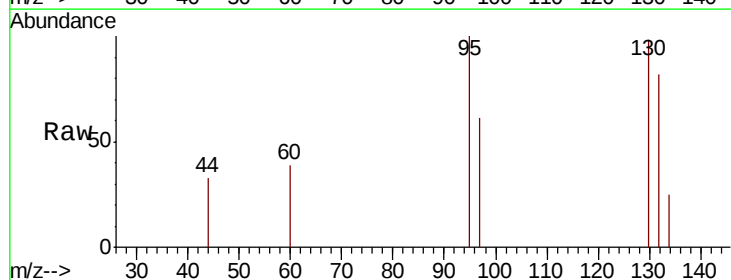
Acq: 21 Aug 2020 2:29

Tgt Ion:130 Resp: 1655

Ion Ratio Lower Upper

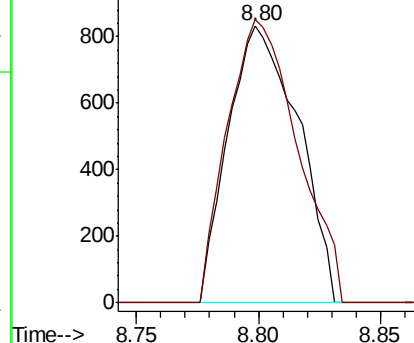
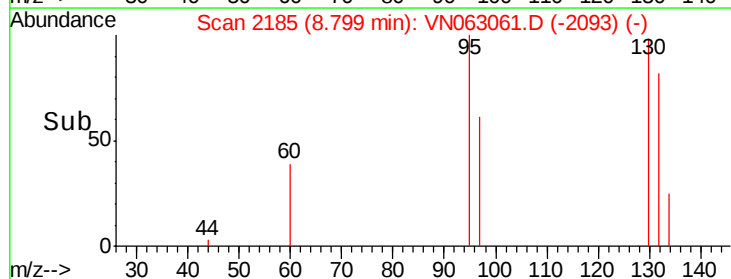
130 100

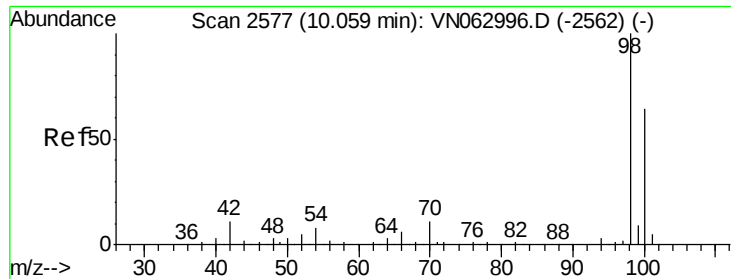
95 102.2 0.0 205.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 51.374 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN063061.D

Acq: 21 Aug 2020 2:29

Instrument :

MSVOA\_N

ClientSampleId :

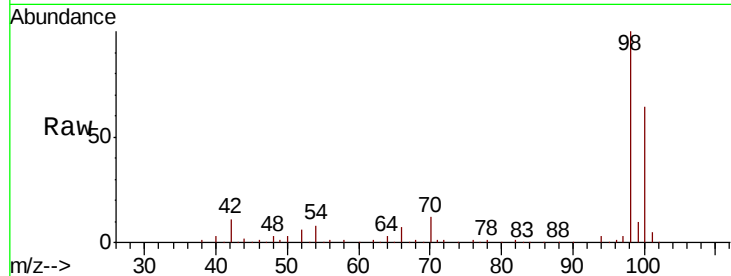
S39-0209

Tot Ion: 98 Resp: 303695

Ion Ratio Lower Upper

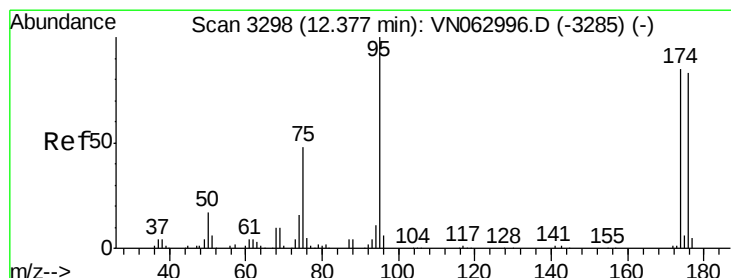
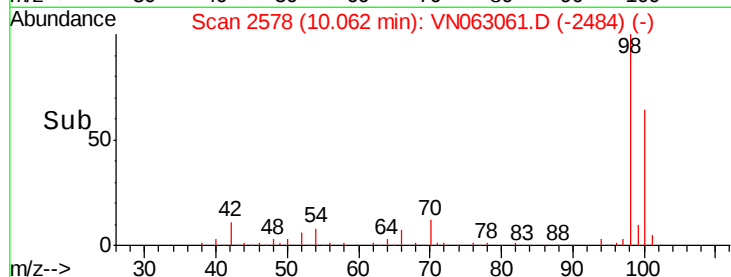
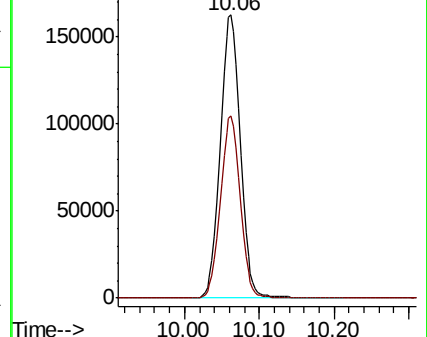
98 100

100 63.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062996.D (-2562) (-)

Ion 100.00 (99.70 to 100.70): VN062996.D (-2562) (-)



#62

4-Bromofluorobenzene

Concen: 47.453 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN063061.D

Acq: 21 Aug 2020 2:29

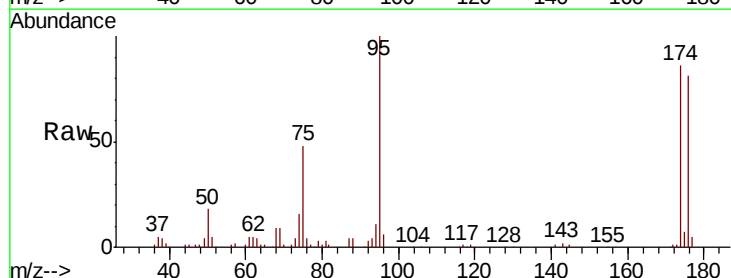
Tgt Ion: 95 Resp: 98989

Ion Ratio Lower Upper

95 100

174 86.9 0.0 170.8

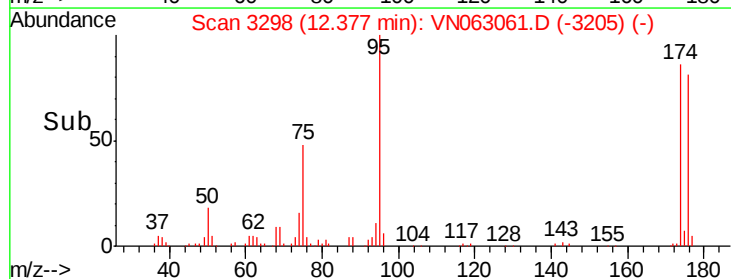
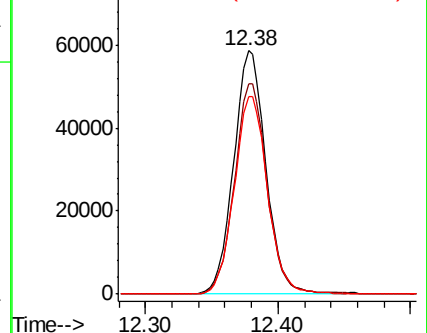
176 83.7 0.0 164.8

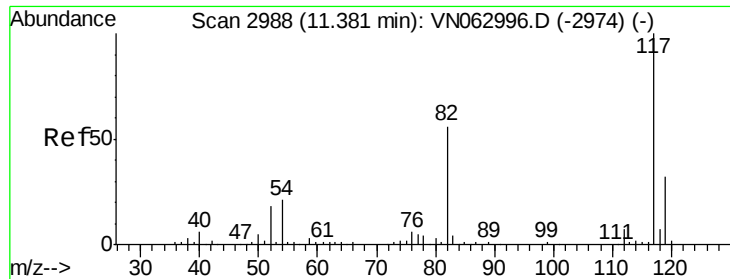


Abundance Ion 94.90 (94.60 to 95.60): VN062996.D (-3285) (-)

Ion 173.80 (173.50 to 174.50): VN062996.D (-3285) (-)

Ion 175.80 (175.50 to 176.50): VN062996.D (-3285) (-)





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN063061.D

Acq: 21 Aug 2020 2:29

Instrument :

MSVOA\_N

ClientSampleId :

S39-0209

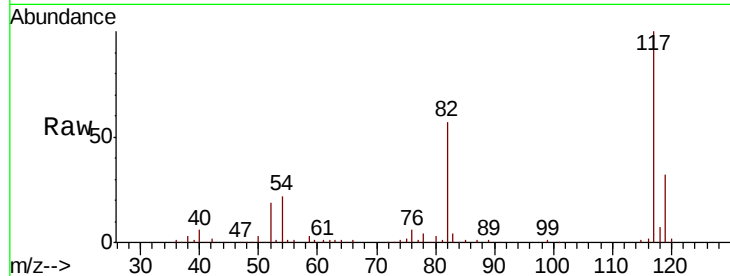
Tot Ion:117 Resp: 239708

Ion Ratio Lower Upper

117 100

82 56.7 44.5 66.7

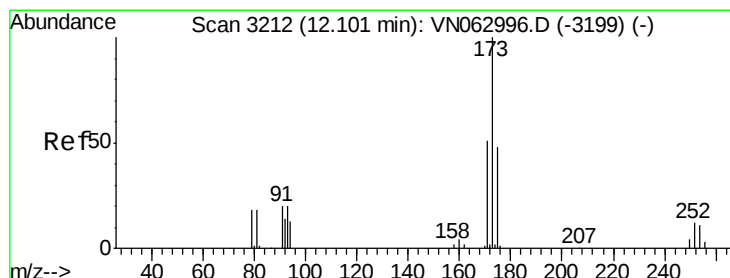
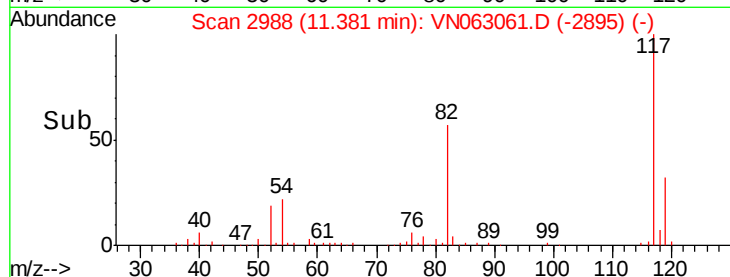
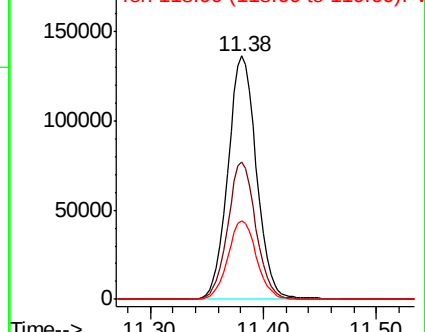
119 32.4 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.594 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN063061.D

Acq: 21 Aug 2020 2:29

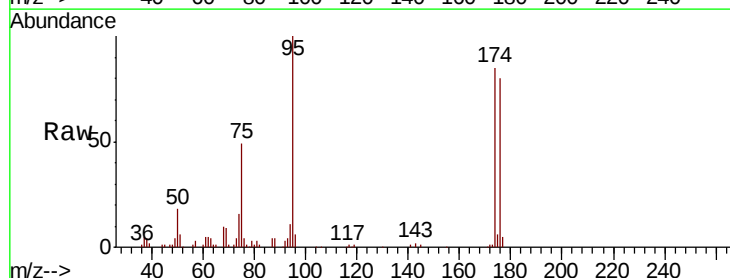
Tgt Ion:173 Resp: 886

Ion Ratio Lower Upper

173 100

175 592.6 24.3 72.8#

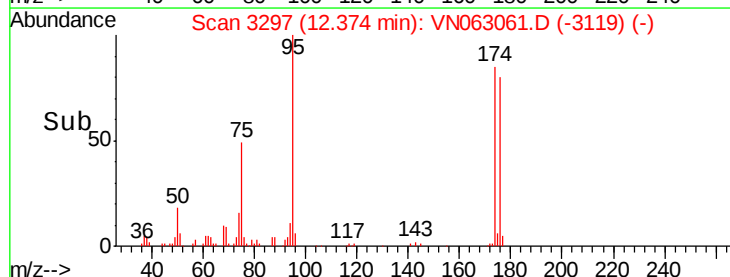
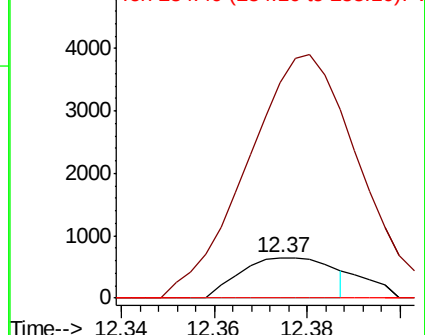
254 0.0 0.0 0.0

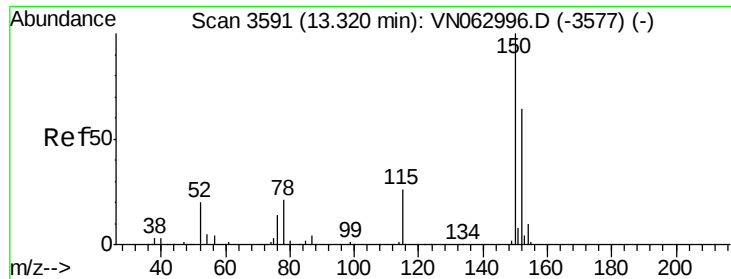


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3591

Delta R.T. 0.00 min

Lab File: VN063061.D

Acq: 21 Aug 2020 2:29

Instrument :

MSVOA\_N

ClientSampleId :

S39-0209

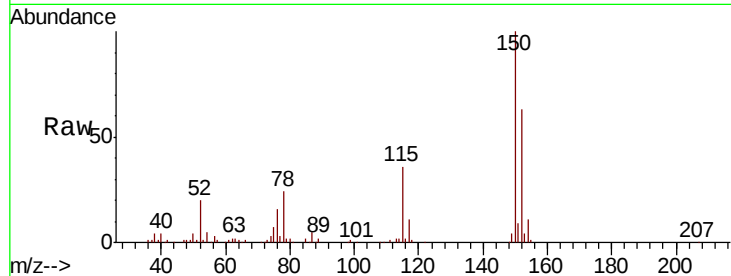
Tot Ion:152 Resp: 86846

Ion Ratio Lower Upper

152 100

115 56.3 28.7 86.3

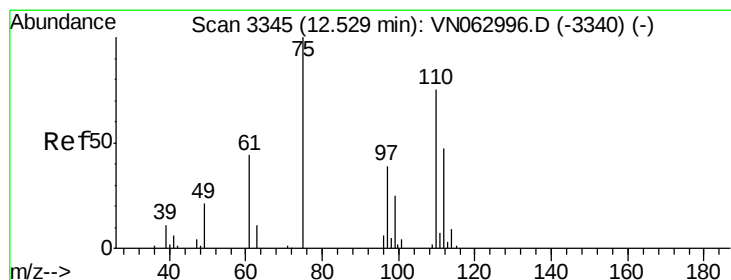
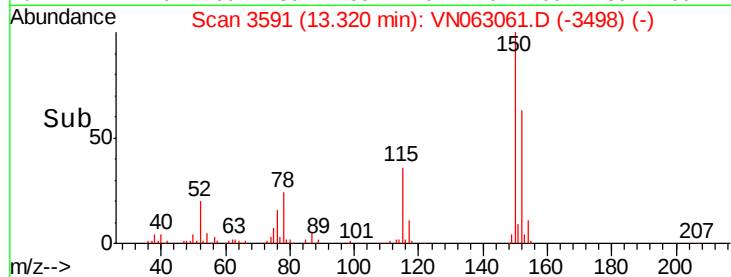
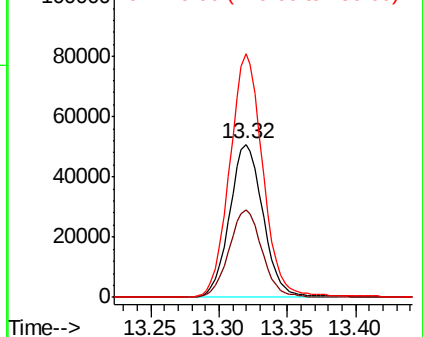
150 156.7 0.0 348.8



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: 28.511 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN063061.D

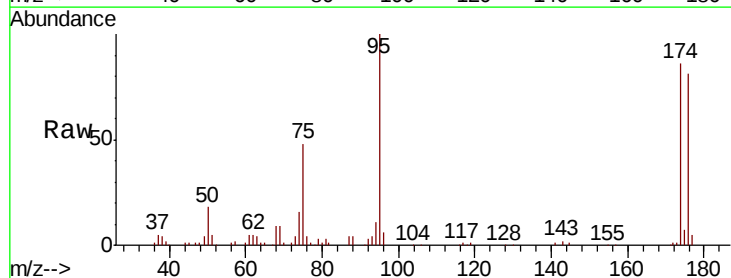
Acq: 21 Aug 2020 2:29

Tgt Ion: 75 Resp: 48129

Ion Ratio Lower Upper

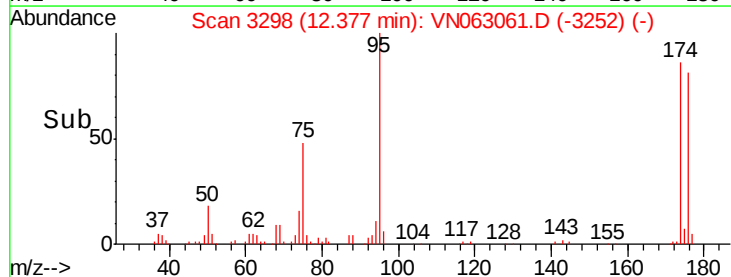
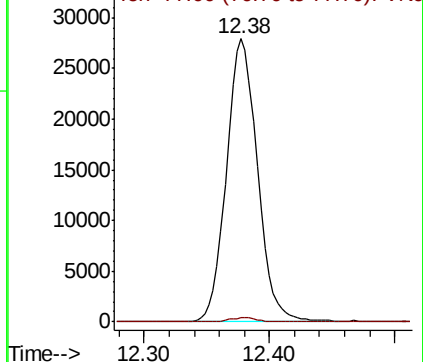
75 100

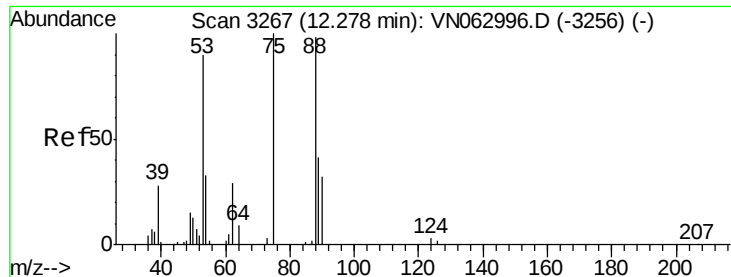
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 78.304 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN063061.D

Acq: 21 Aug 2020 2:29

Instrument :

MSVOA\_N

ClientSampleId :

S39-0209

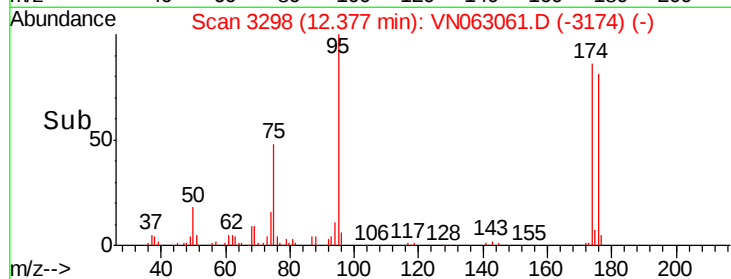
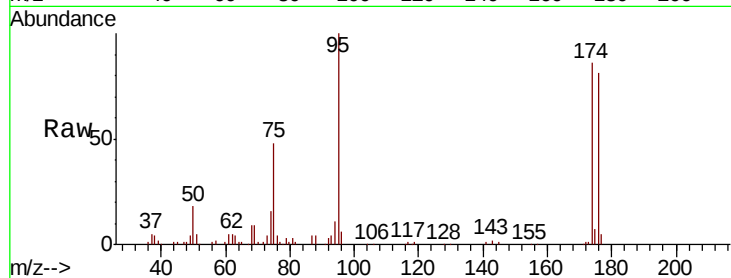
Tot Ion: 75 Resp: 48129

Ion Ratio Lower Upper

75 100

53 0.0 69.2 103.8#

89 0.0 34.2 51.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

