

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051820\  
 Data File : VN061464.D  
 Acq On : 19 May 2020 6:56  
 Operator : JC/MD  
 Sample : L2645-05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: May 19 07:49:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051820W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 18 13:09:55 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 245114   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 454845   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 449803   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 196316   | 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   | 179087   | 48.95  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 97.90%  |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 119036   | 49.96  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 99.92%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 576493   | 52.16  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.32% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 222272   | 53.83  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 107.66% |          |

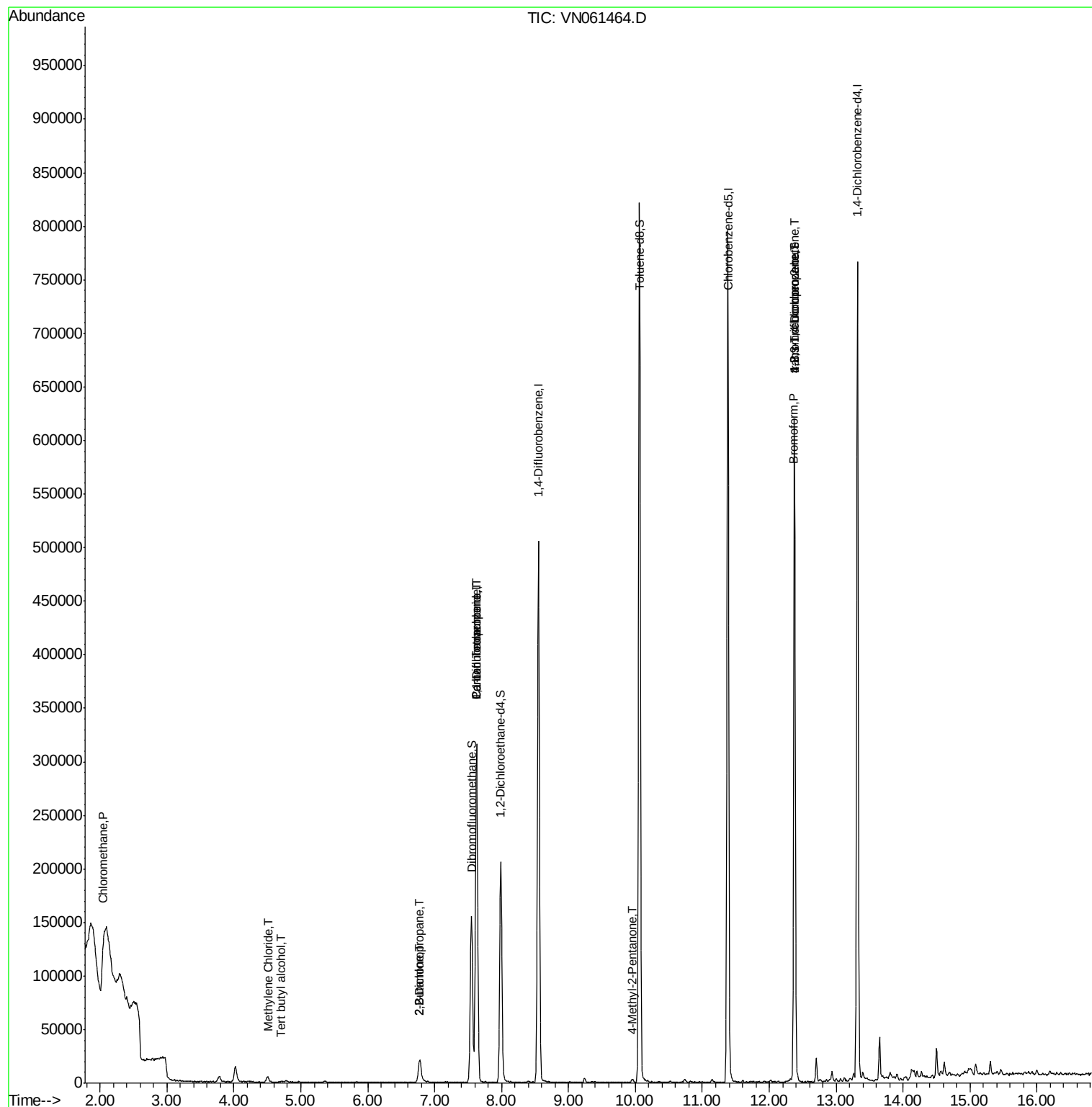
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.03  | 50   | 805      | 0.242     | ug/l   | 97     |
| 5) Bromomethane                | 2.53  | 94   | 196      | Below Cal | #      | 65     |
| 11) Tert butyl alcohol         | 4.72  | 59   | 244      | 0.579     | ug/l # | 73     |
| 13) Acrolein                   | 3.59  | 56   | 34       | Below Cal | #      | 16     |
| 16) Acetone                    | 3.79  | 43   | 9833     | Below Cal |        | 96     |
| 17) Carbon Disulfide           | 4.00  | 76   | 146      | Below Cal | #      | 75     |
| 18) Methyl Acetate             | 4.27  | 43   | 367      | Below Cal | #      | 49     |
| 20) Methylene Chloride         | 4.50  | 84   | 3463     | 1.152     | ug/l   | 96     |
| 25) 2-Butanone                 | 6.78  | 43   | 1345     | 0.808     | ug/l # | 46     |
| 26) 2,2-Dichloropropane        | 6.78  | 77   | 1195     | 0.234     | ug/l # | 54     |
| 31) Cyclohexane                | 7.63  | 56   | 5821     | Below Cal | #      | 14     |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 21323    | 5.014     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 26510    | 6.769     | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 2545     | 0.694     | ug/l # | 79     |
| 71) Bromoform                  | 12.36 | 173  | 148      | 2.076     | ug/l # | 29     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 117325   | 27.852    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 117325   | 73.885    | ug/l # | 12     |

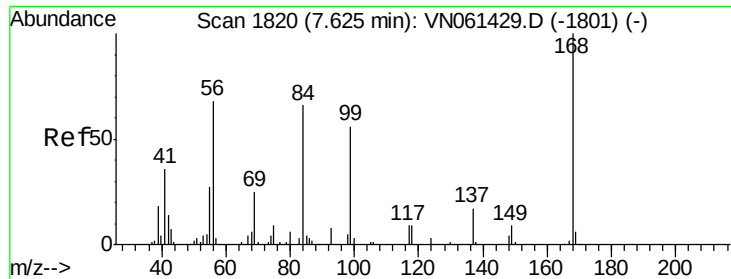
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN051820\  
Data File : VN061464.D  
Acq On : 19 May 2020 6:56  
Operator : JC/MD  
Sample : L2645-05  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: May 19 07:49:14 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N051820W.M  
Quant Title : SW846 8260  
QLast Update : Mon May 18 13:09:55 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

Instrument :

MSVOA\_N

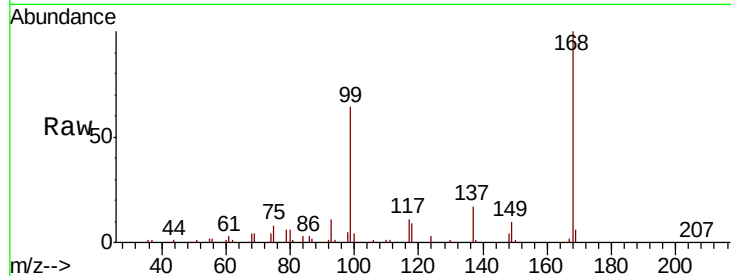
ClientSampleId :

Tot Ion:168 Resp: 245114

Ion Ratio Lower Upper

168 100

99 64.2 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

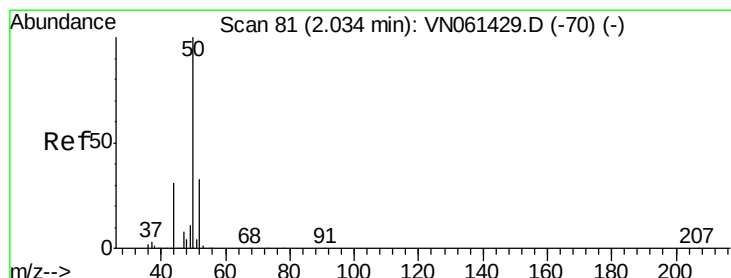
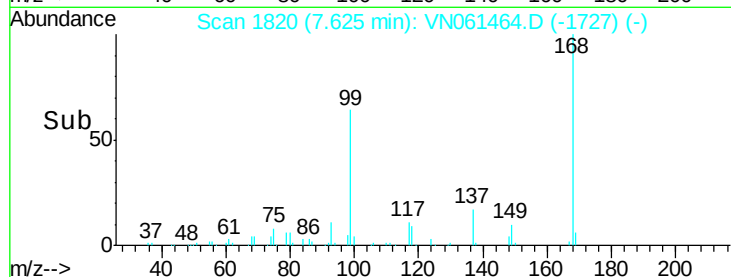
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.242 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN061464.D

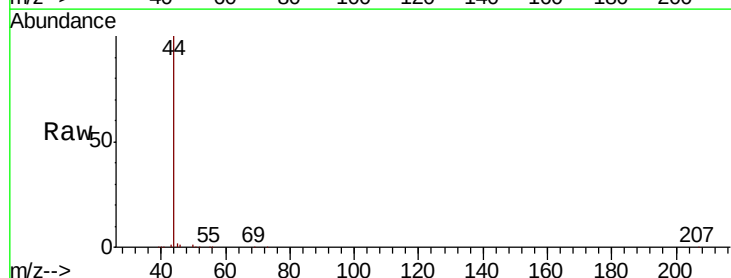
Acq: 19 May 2020 6:56

Tgt Ion: 50 Resp: 805

Ion Ratio Lower Upper

50 100

52 35.1 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

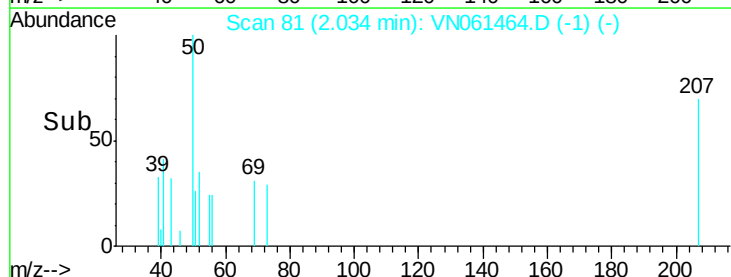
600

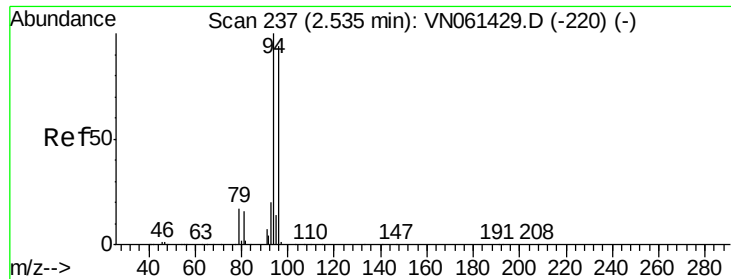
400

200

0

Time--> 2.00 2.02 2.04 2.06





#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 236

Delta R.T. -0.00 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

Instrument :

MSVOA\_N

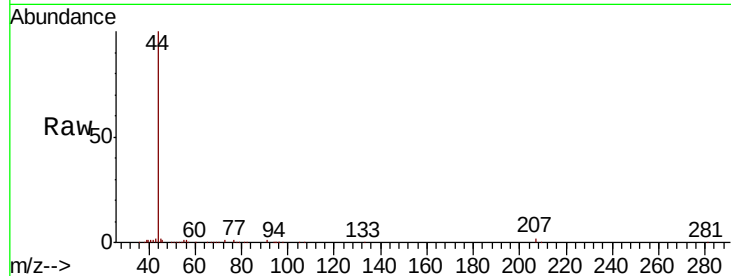
ClientSampled :

Tot Ion: 94 Resp: 196

Ion Ratio Lower Upper

94 100

96 59.7 74.9 112.3#

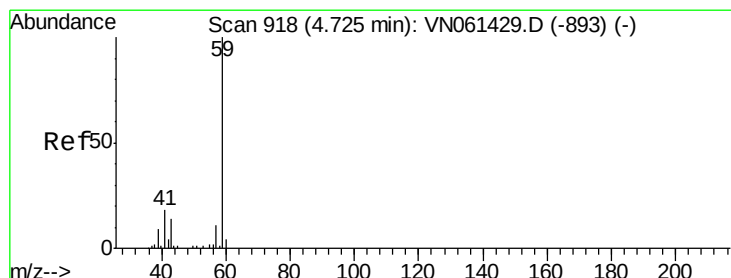
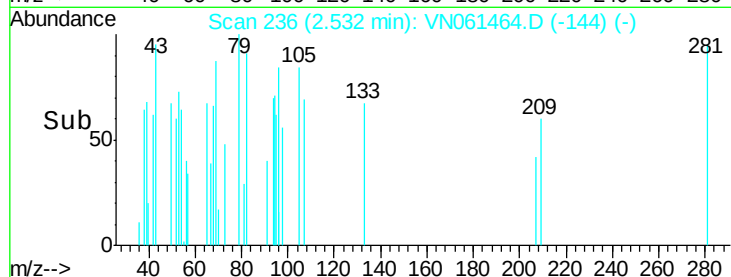


Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.53

Time-->



#11

Tert butyl alcohol

Concen: 0.579 ug/l

RT: 4.72 min Scan# 915

Delta R.T. -0.01 min

Lab File: VN061464.D

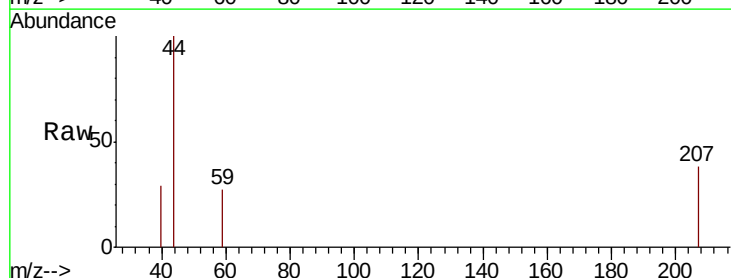
Acq: 19 May 2020 6:56

Tgt Ion: 59 Resp: 244

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#

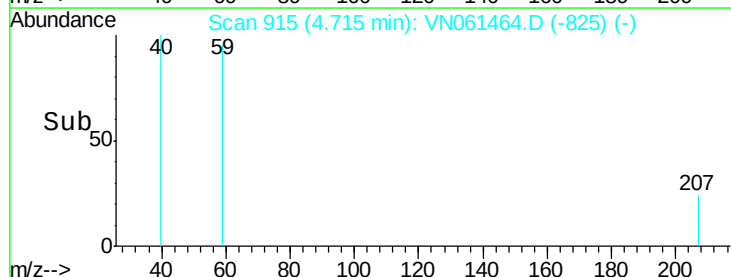


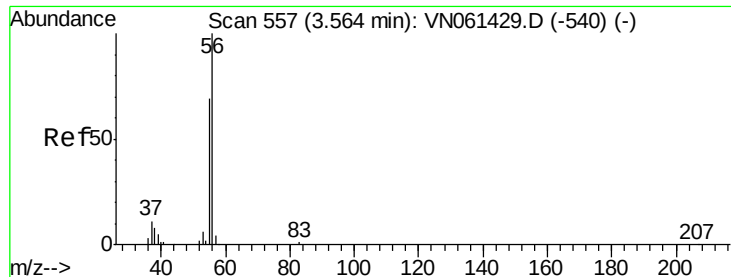
Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.72

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.59 min Scan# 564

Delta R.T. 0.02 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

Instrument :

MSVOA\_N

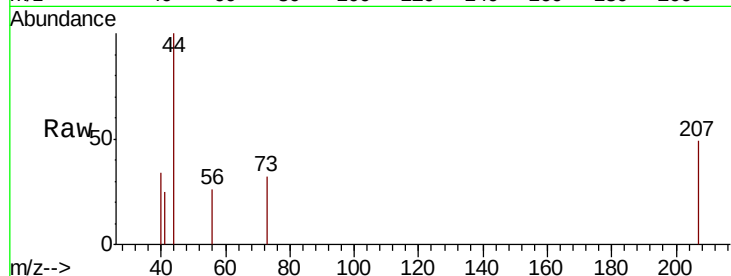
ClientSampled :

Tot Ion: 56 Resp: 34

Ion Ratio Lower Upper

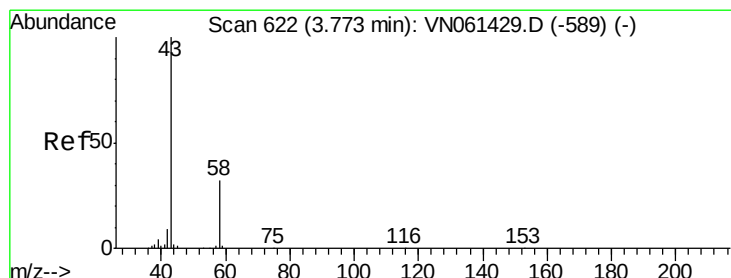
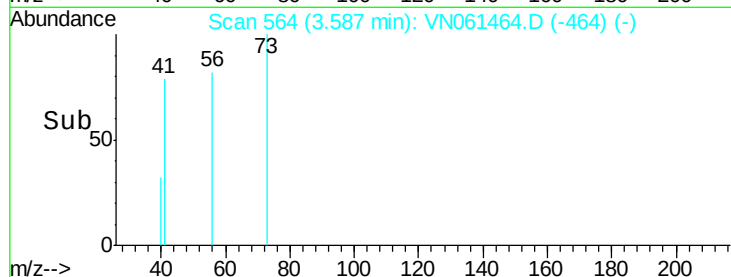
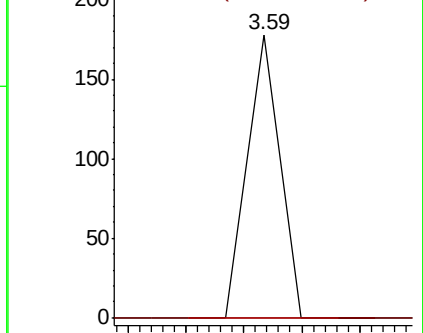
56 100

55 0.0 54.8 82.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN061464.D

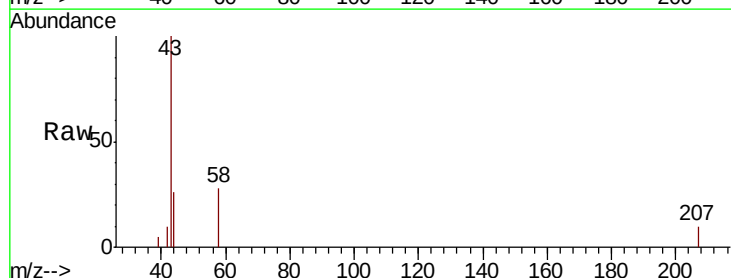
Acq: 19 May 2020 6:56

Tgt Ion: 43 Resp: 9833

Ion Ratio Lower Upper

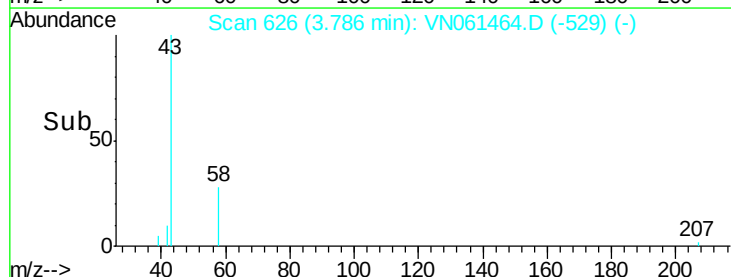
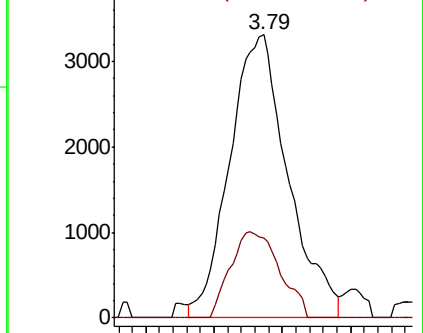
43 100

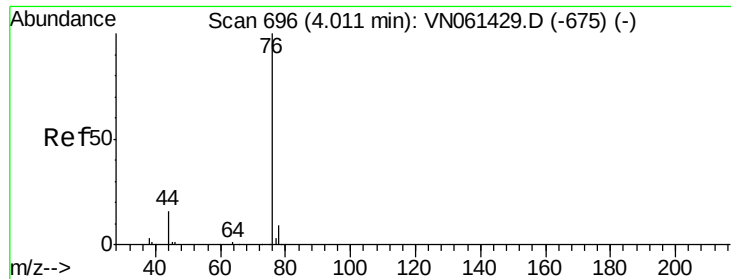
58 29.7 25.6 38.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

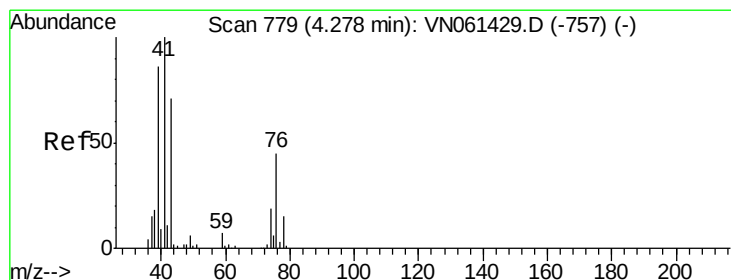
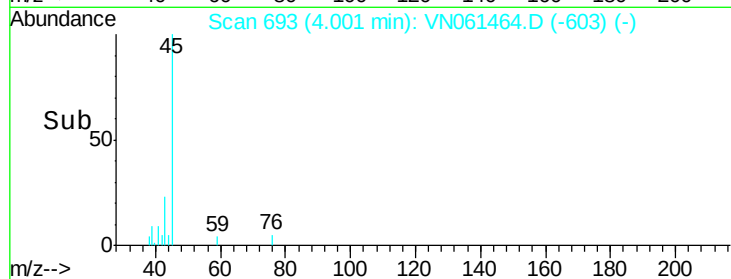
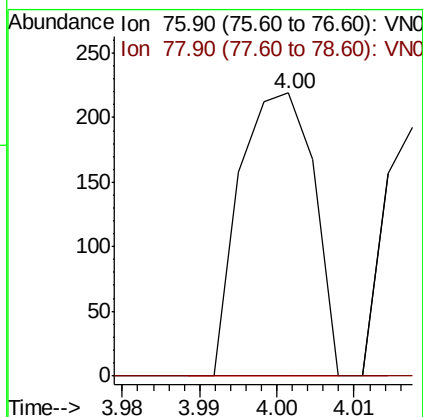
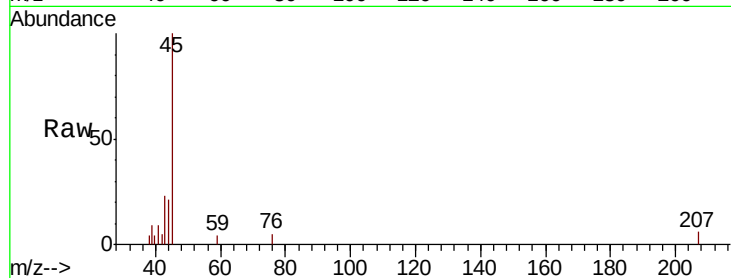




#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 4.00 min Scan# 693  
Delta R.T. -0.01 min  
Lab File: VN061464.D  
Acq: 19 May 2020 6:56

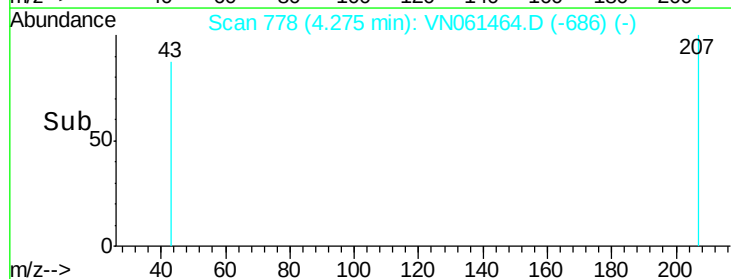
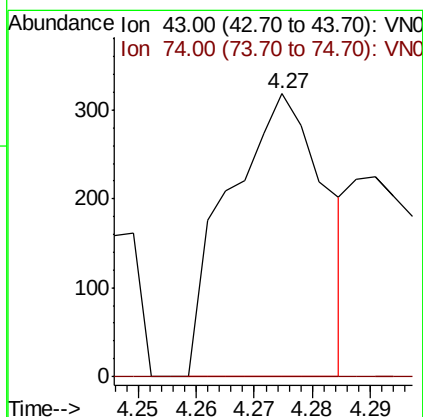
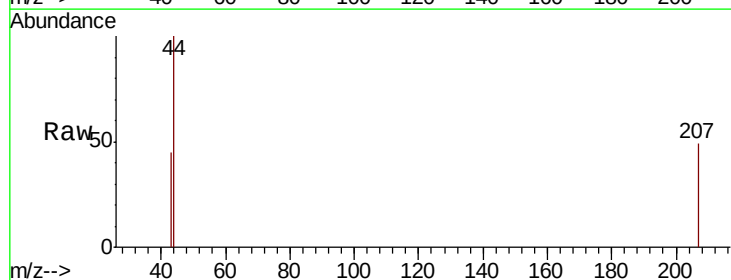
Instrument :  
MSVOA\_N  
ClientSampleId :

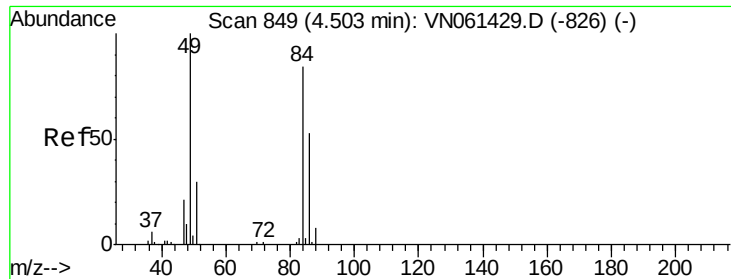
Tot Ion: 76 Resp: 146  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.27 min Scan# 778  
Delta R.T. -0.00 min  
Lab File: VN061464.D  
Acq: 19 May 2020 6:56

Tgt Ion: 43 Resp: 367  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.8 31.2#

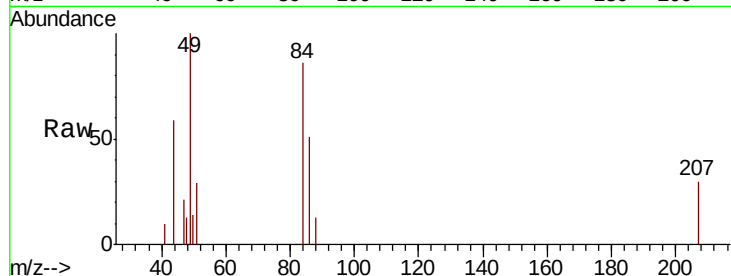




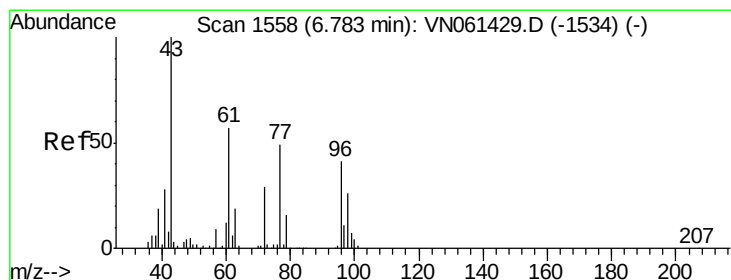
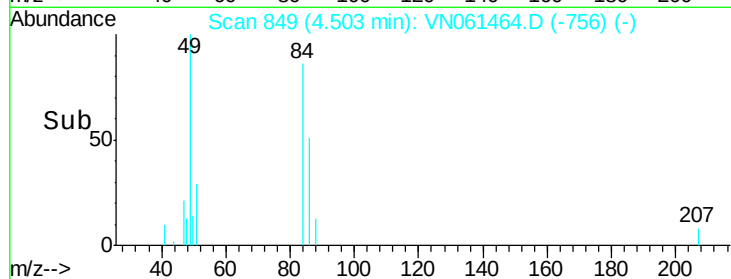
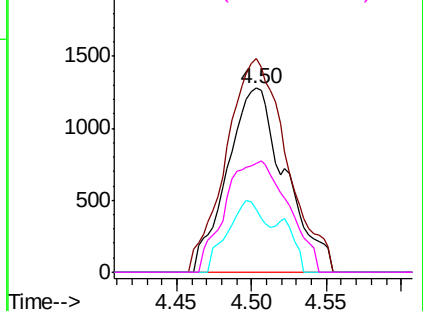
#20  
Methylene Chloride  
Concen: 1.152 ug/l  
RT: 4.50 min Scan# 849  
Delta R.T. -0.00 min  
Lab File: VN061464.D  
Acq: 19 May 2020 6:56

Instrument :  
MSVOA\_N  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 3463  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 115.9 | 95.3  | 142.9 |
| 51       | 34.1  | 29.0  | 43.6  |
| 86       | 58.8  | 50.2  | 75.2  |

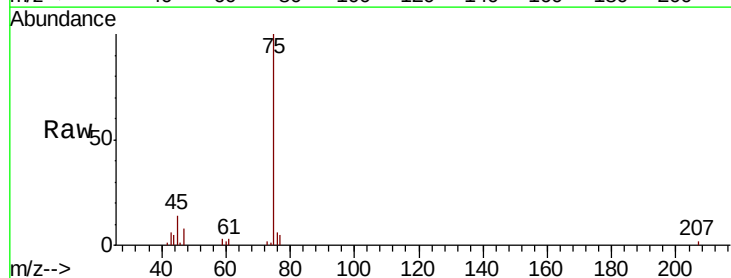


Abundance Ion 83.90 (83.60 to 84.60): VN0  
Ion 48.90 (48.60 to 49.60): VN0  
Ion 50.90 (50.60 to 51.60): VN0  
Ion 85.90 (85.60 to 86.60): VN0

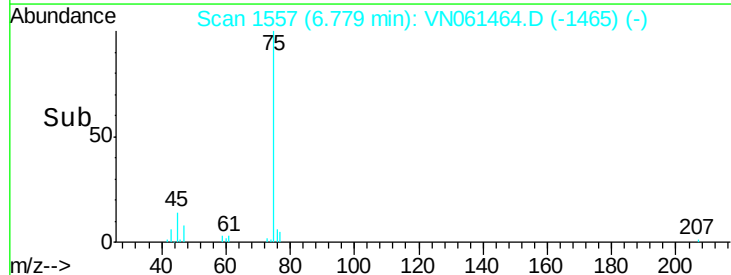
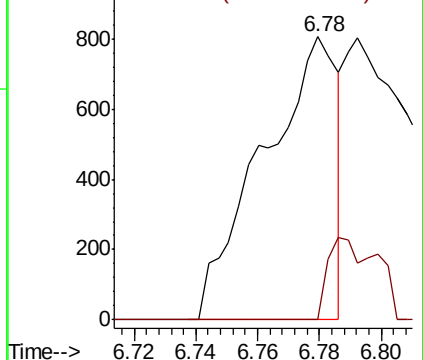


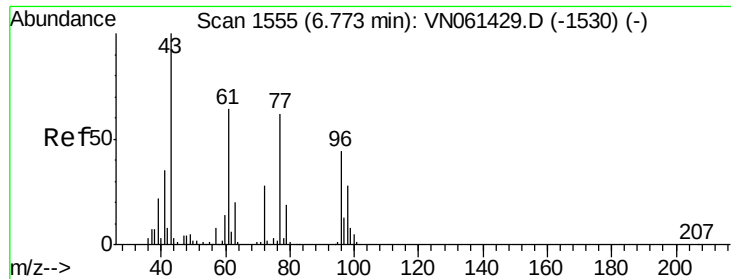
#25  
2-Butanone  
Concen: 0.808 ug/l  
RT: 6.78 min Scan# 1557  
Delta R.T. -0.00 min  
Lab File: VN061464.D  
Acq: 19 May 2020 6:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1345  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 23.0  | 34.6# |



Abundance Ion 43.00 (42.70 to 43.70): VN0  
Ion 72.00 (71.70 to 72.70): VN0

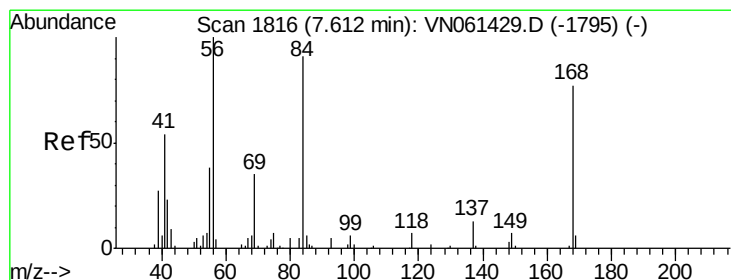
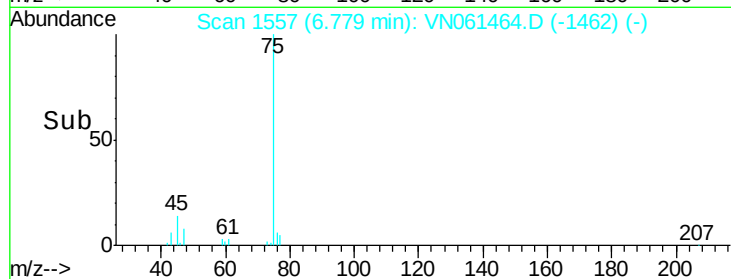
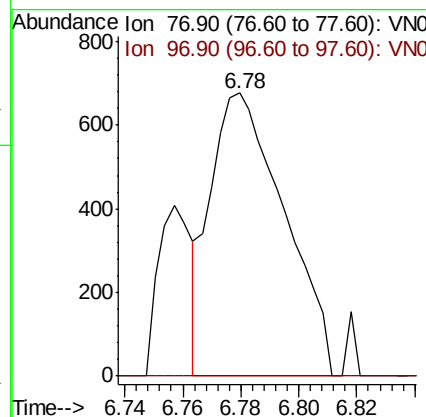
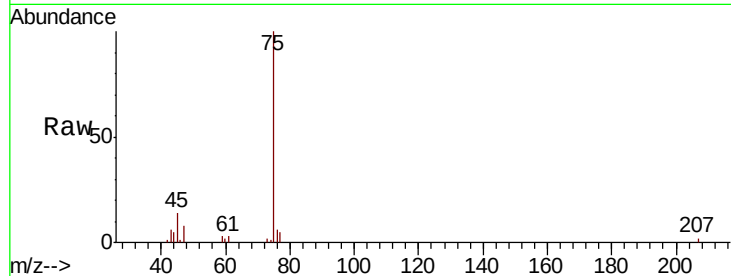




#26  
 2,2-Dichloropropane  
 Concen: 0.234 ug/l  
 RT: 6.78 min Scan# 1557  
 Delta R.T. 0.01 min  
 Lab File: VN061464.D  
 Acq: 19 May 2020 6:56

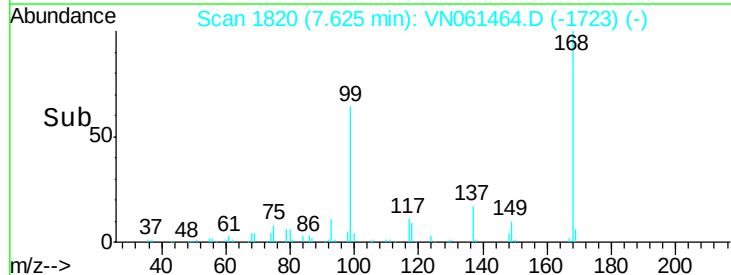
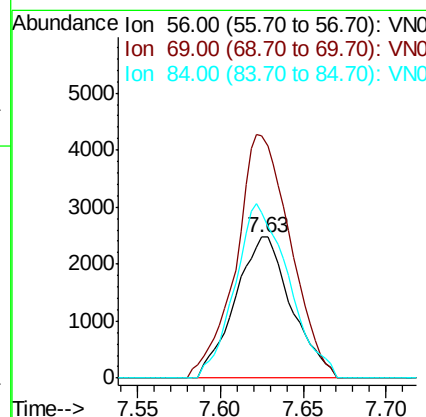
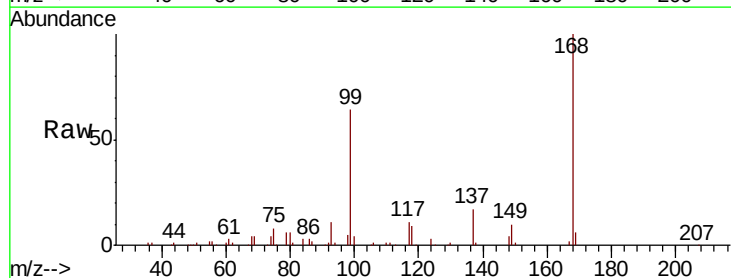
Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion: 77 Resp: 1195  
 Ion Ratio Lower Upper  
 77 100  
 97 0.0 10.9 32.9#

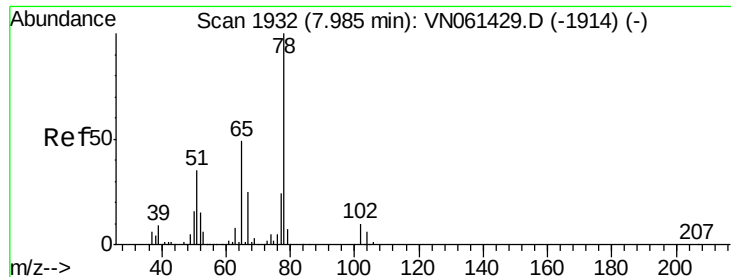


#31  
 Cyclohexane  
 Concen: Below Cal  
 RT: 7.63 min Scan# 1820  
 Delta R.T. 0.01 min  
 Lab File: VN061464.D  
 Acq: 19 May 2020 6:56

Tgt Ion: 56 Resp: 5821  
 Ion Ratio Lower Upper  
 56 100  
 69 171.9 27.8 41.6#  
 84 117.6 72.7 109.1#



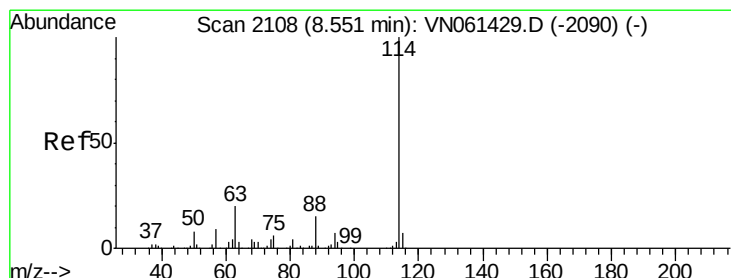
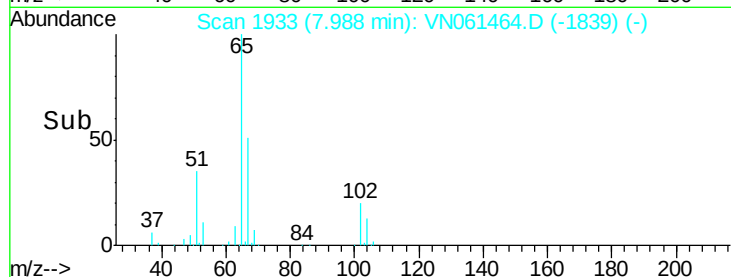
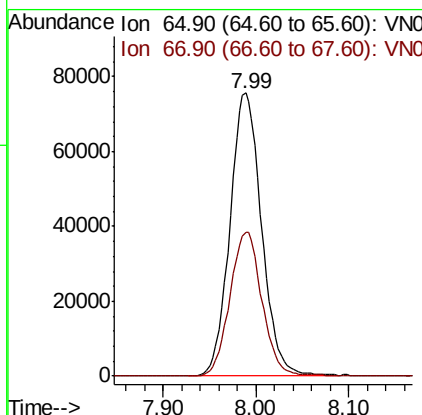
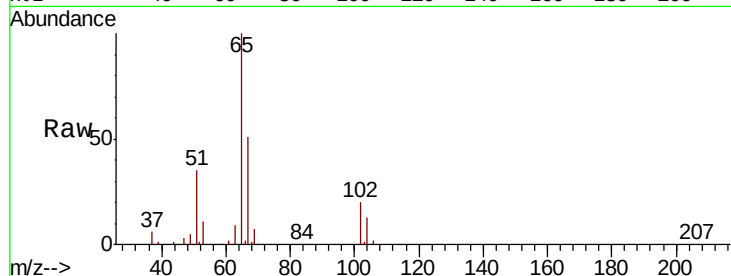




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.955 ug/l  
 RT: 7.99 min Scan# 1933  
 Delta R.T. 0.00 min  
 Lab File: VN061464.D  
 Acq: 19 May 2020 6:56

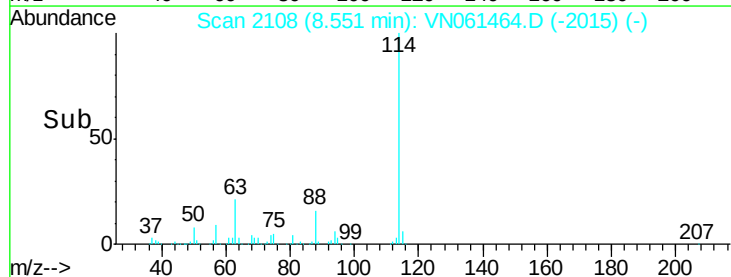
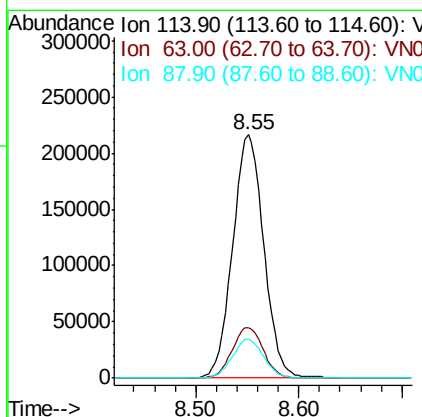
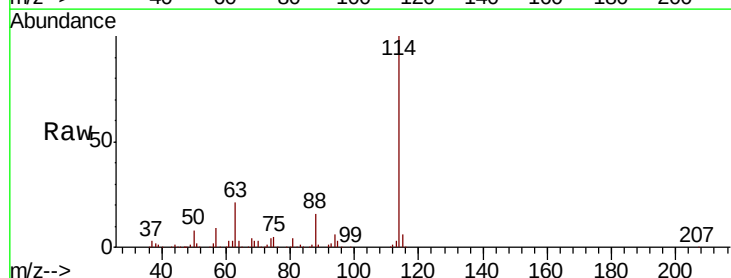
Instrument :  
 MSVOA\_N  
 ClientSampleId :

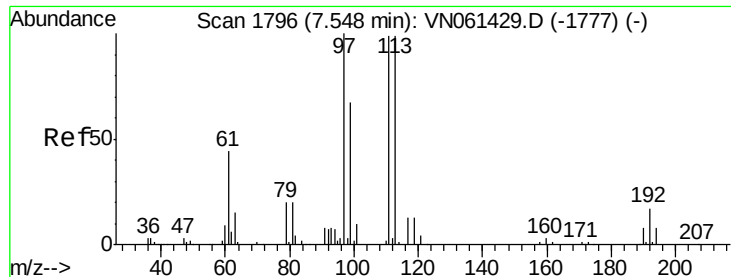
Tot Ion: 65 Resp: 179087  
 Ion Ratio Lower Upper  
 65 100  
 67 51.3 0.0 101.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN061464.D  
 Acq: 19 May 2020 6:56

Tgt Ion: 114 Resp: 454845  
 Ion Ratio Lower Upper  
 114 100  
 63 20.9 0.0 40.8  
 88 15.9 0.0 30.8

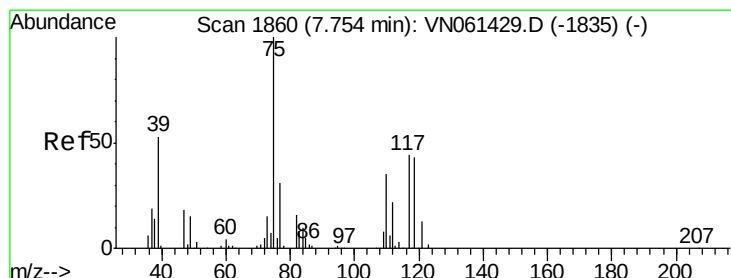
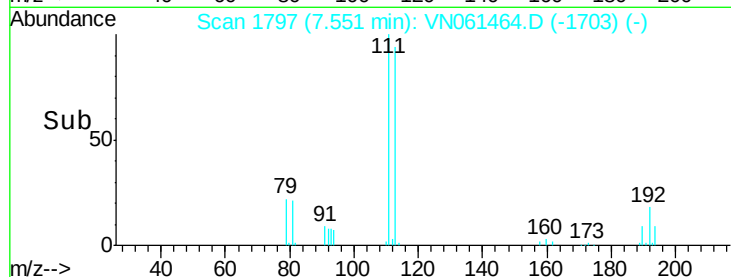
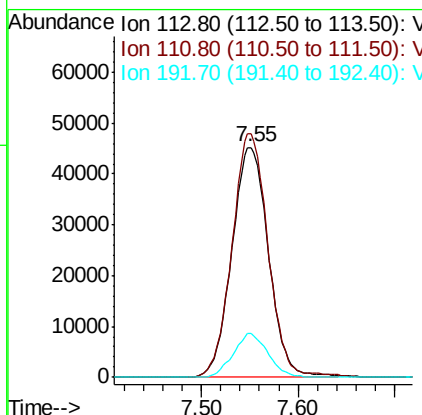
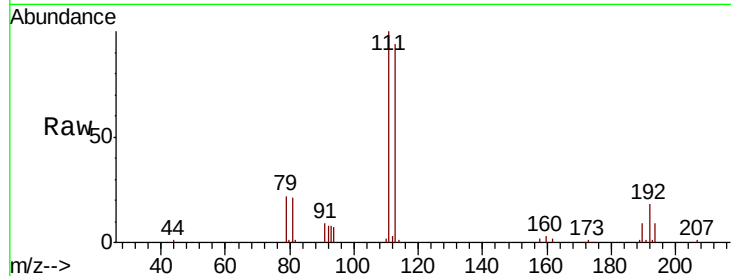




#35  
 Dibromofluoromethane  
 Concen: 49.956 ug/l  
 RT: 7.55 min Scan# 1797  
 Delta R.T. 0.00 min  
 Lab File: VN061464.D  
 Acq: 19 May 2020 6:56

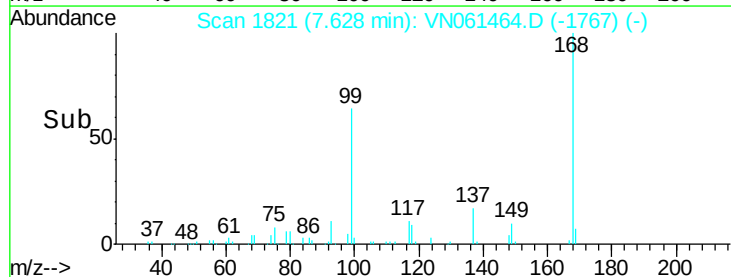
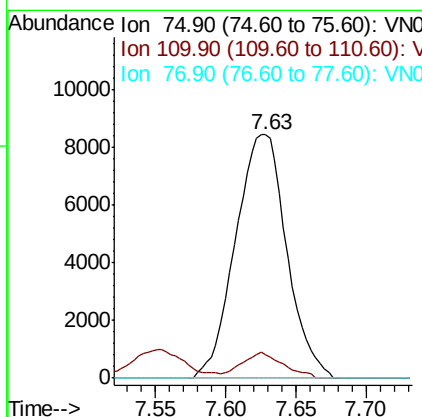
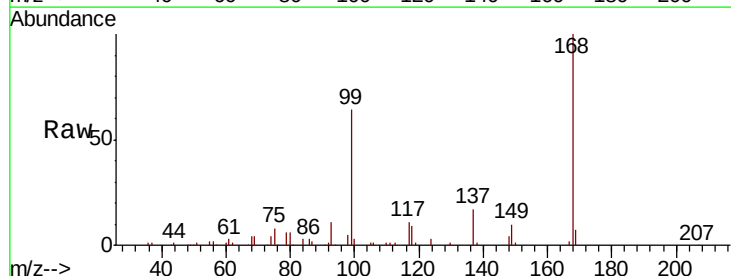
Instrument :  
 MSVOA\_N  
 ClientSampleId :

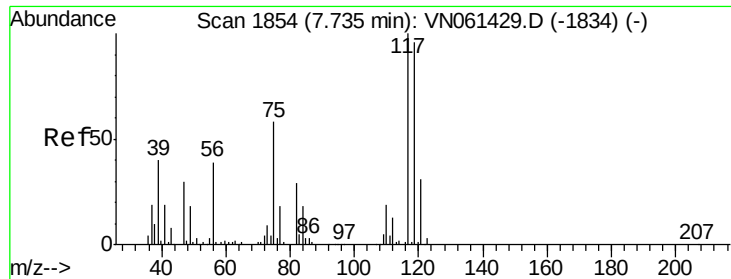
Tot Ion:113 Resp: 119036  
 Ion Ratio Lower Upper  
 113 100  
 111 104.2 80.6 121.0  
 192 17.9 13.2 19.8



#36  
 1,1-Dichloropropene  
 Concen: 5.014 ug/l  
 RT: 7.63 min Scan# 1821  
 Delta R.T. -0.13 min  
 Lab File: VN061464.D  
 Acq: 19 May 2020 6:56

Tgt Ion: 75 Resp: 21323  
 Ion Ratio Lower Upper  
 75 100  
 110 8.6 17.3 51.9#  
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.769 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

Instrument :

MSVOA\_N

ClientSampleId :

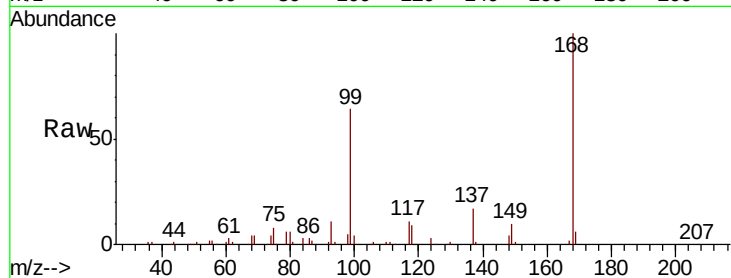
Tot Ion:117 Resp: 26510

Ion Ratio Lower Upper

117 100

119 4.4 77.0 115.6#

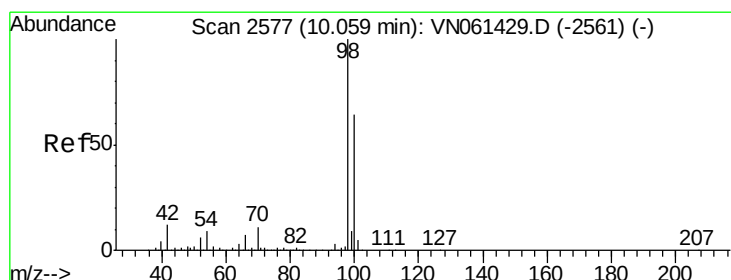
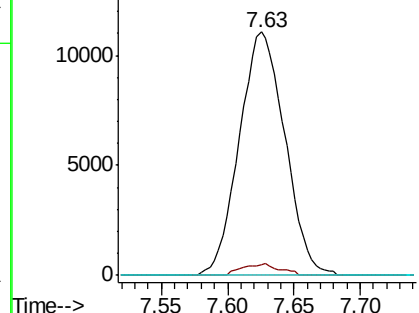
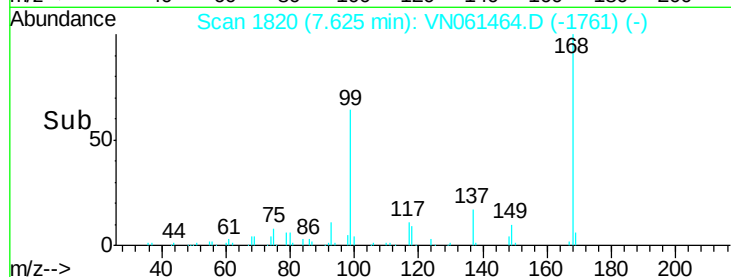
121 0.0 24.7 37.1#



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: 52.162 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN061464.D

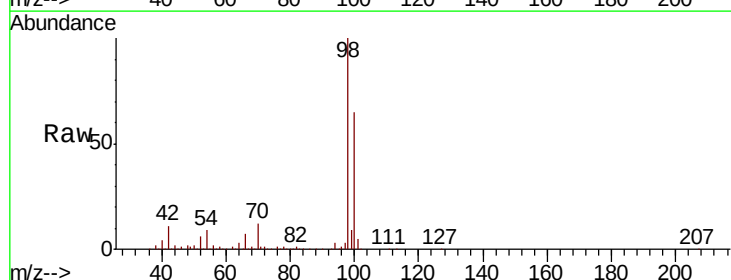
Acq: 19 May 2020 6:56

Tgt Ion: 98 Resp: 576493

Ion Ratio Lower Upper

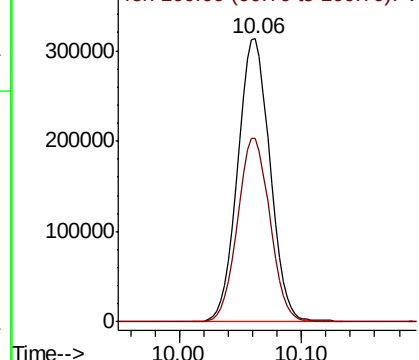
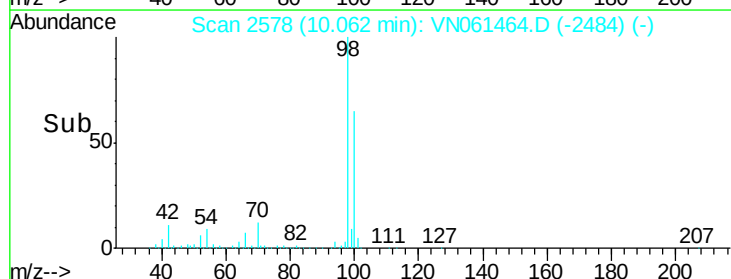
98 100

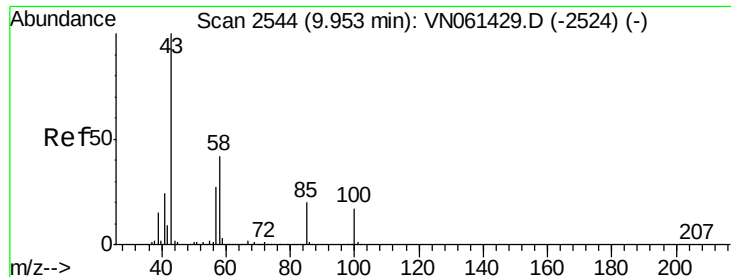
100 65.1 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

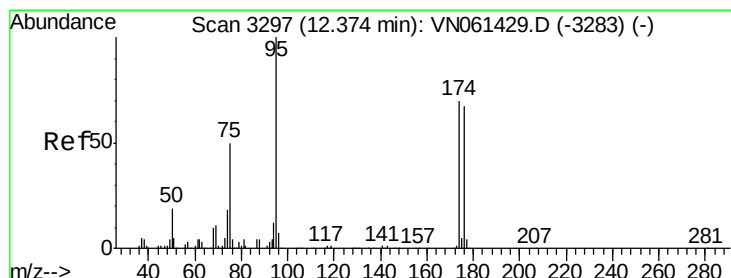
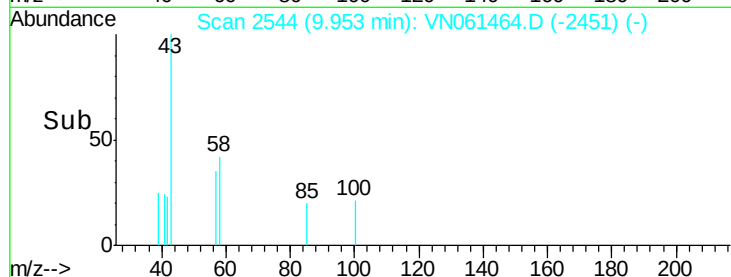
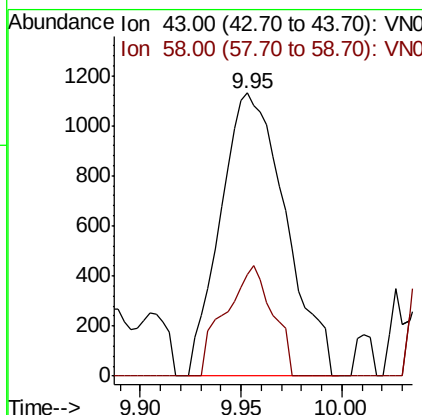
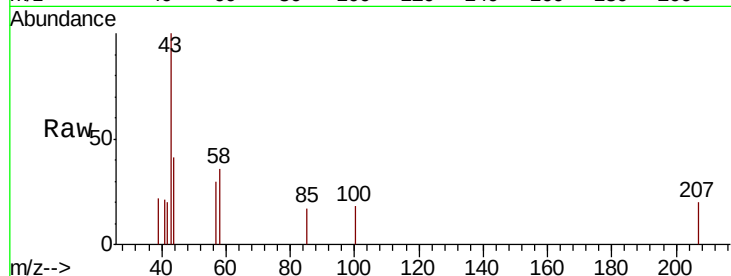




#51  
 4-Methyl-2-Pentanone  
 Concen: 0.694 ug/l  
 RT: 9.95 min Scan# 2544  
 Delta R.T. -0.00 min  
 Lab File: VN061464.D  
 Acq: 19 May 2020 6:56

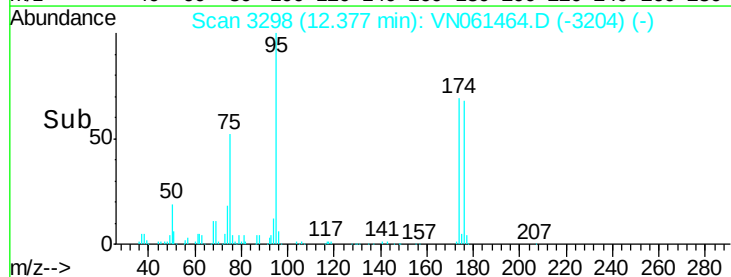
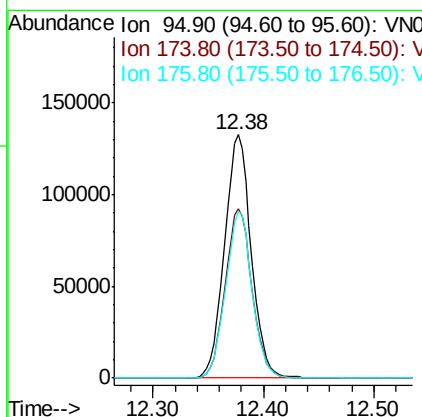
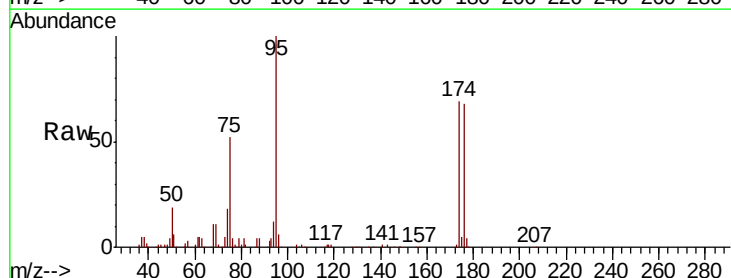
Instrument :  
 MSVOA\_N  
 ClientSampled :

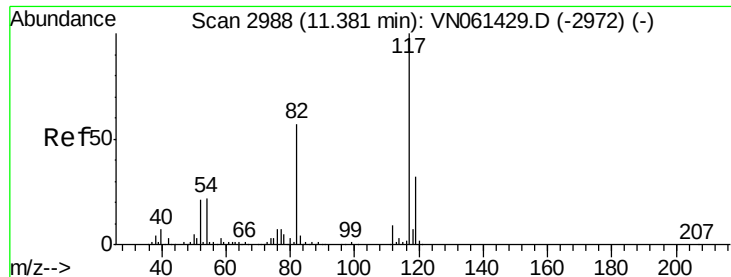
Tot Ion: 43 Resp: 2545  
 Ion Ratio Lower Upper  
 43 100  
 58 28.3 33.4 50.2#



#62  
 4-Bromofluorobenzene  
 Concen: 53.830 ug/l  
 RT: 12.38 min Scan# 3298  
 Delta R.T. 0.00 min  
 Lab File: VN061464.D  
 Acq: 19 May 2020 6:56

Tgt Ion: 95 Resp: 222272  
 Ion Ratio Lower Upper  
 95 100  
 174 70.0 0.0 141.2  
 176 68.2 0.0 137.6

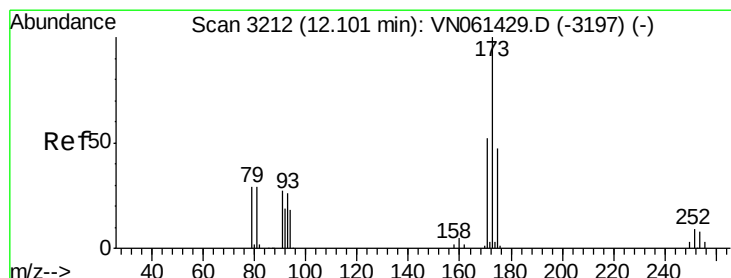
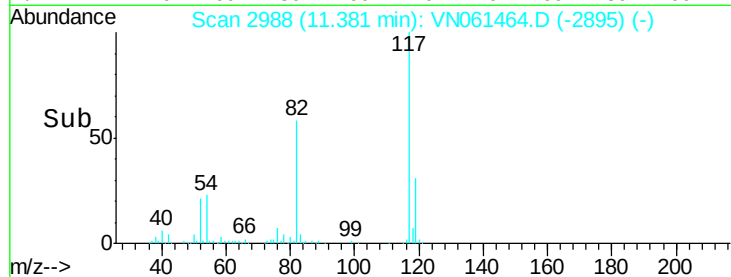
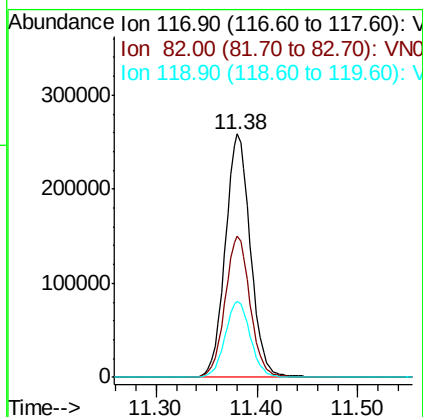
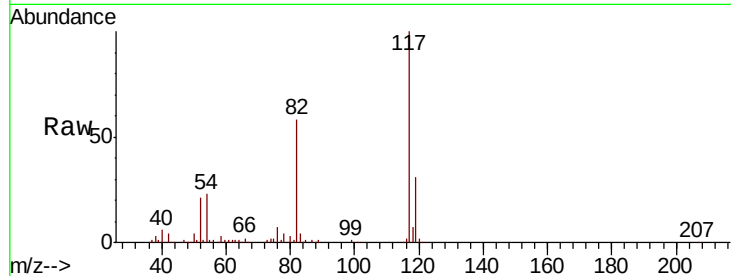




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. -0.00 min  
Lab File: VN061464.D  
Acq: 19 May 2020 6:56

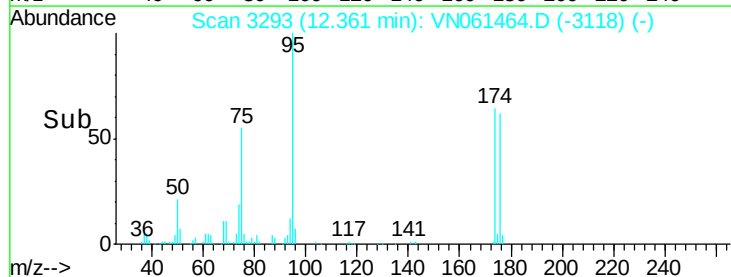
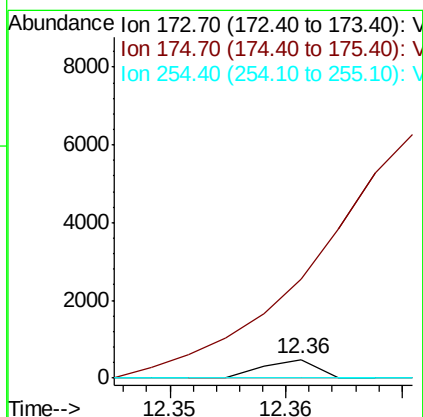
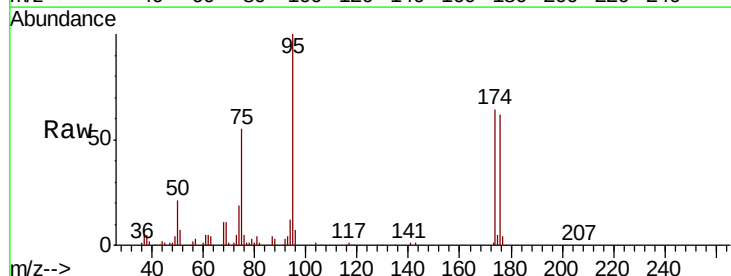
Instrument :  
MSVOA\_N  
ClientSampleId :

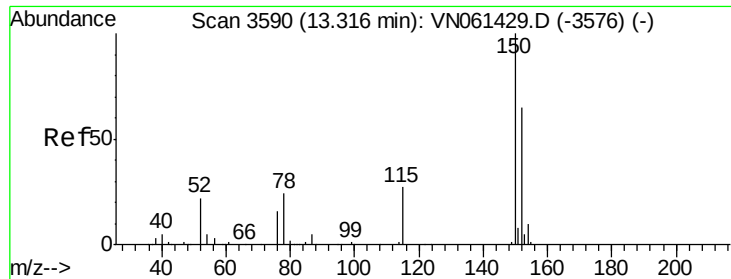
Tot Ion:117 Resp: 449803  
Ion Ratio Lower Upper  
117 100  
82 58.0 45.2 67.8  
119 31.2 25.3 37.9



#71  
Bromoform  
Concen: 2.076 ug/l  
RT: 12.36 min Scan# 3293  
Delta R.T. 0.26 min  
Lab File: VN061464.D  
Acq: 19 May 2020 6:56

Tgt Ion:173 Resp: 148  
Ion Ratio Lower Upper  
173 100  
175 0.0 23.9 71.8#  
254 0.0 0.0 0.0



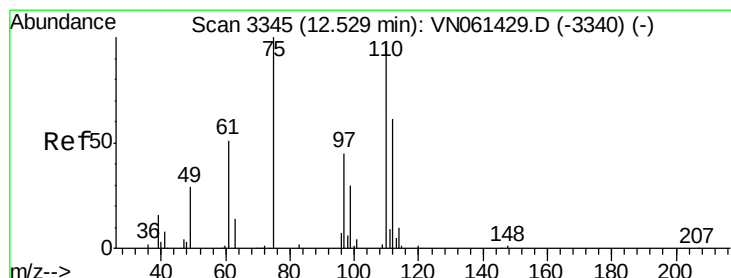
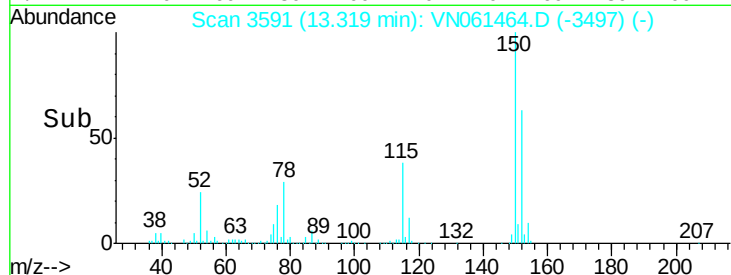
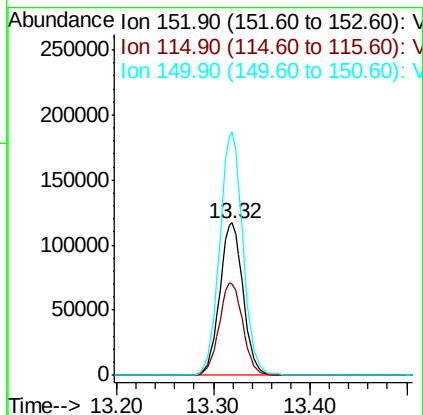
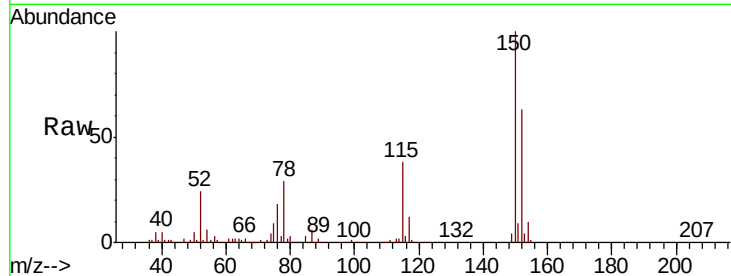


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.32 min Scan# 3591  
Delta R.T. 0.00 min  
Lab File: VN061464.D  
Acq: 19 May 2020 6:56

Instrument :  
MSVOA\_N  
ClientSampleId :

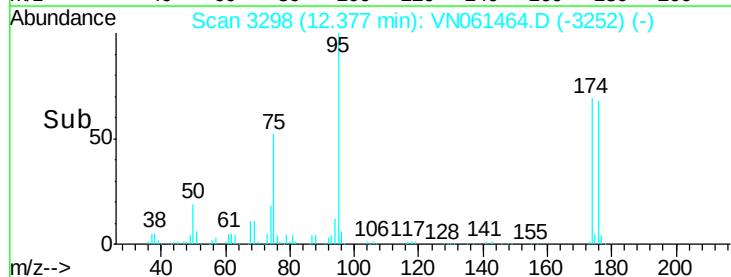
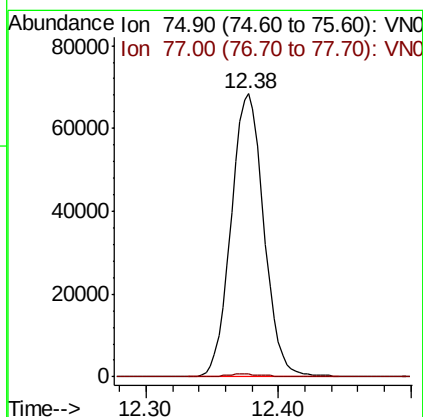
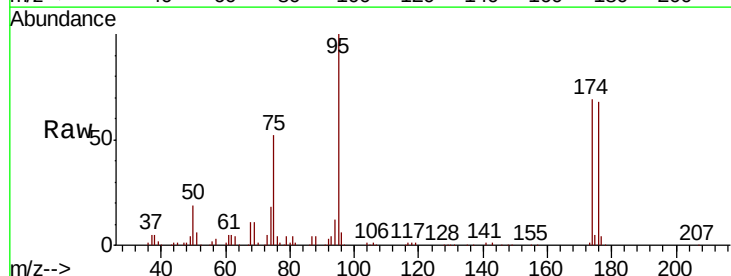
Tot Ion:152 Resp: 196316  
Ion Ratio Lower Upper  
152 100  
115 61.3 30.9 92.5  
150 158.0 0.0 349.2

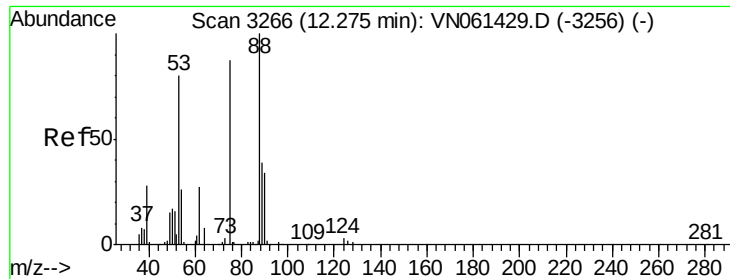


#76

1,2,3-Trichloropropane  
Concen: 27.852 ug/l  
RT: 12.38 min Scan# 3298  
Delta R.T. -0.15 min  
Lab File: VN061464.D  
Acq: 19 May 2020 6:56

Tgt Ion: 75 Resp: 117325  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 73.885 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061464.D

Acq: 19 May 2020 6:56

Instrument :

MSVOA\_N

ClientSampleId :

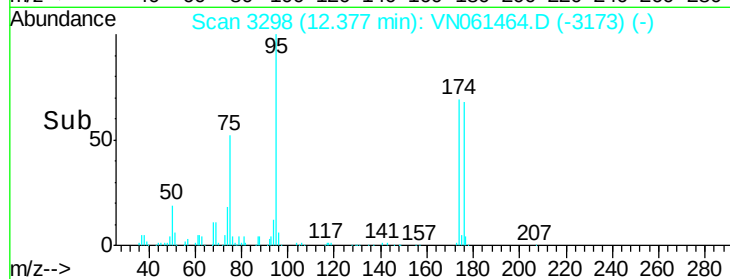
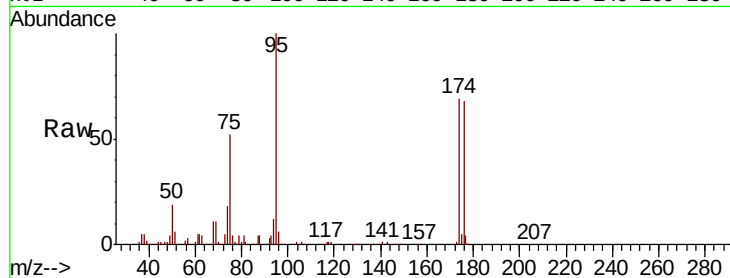
Tot Ion: 75 Resp: 117325

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

89 0.0 38.2 57.4#



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

