

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031920\  
 Data File : VN060635.D  
 Acq On : 19 Mar 2020 14:37  
 Operator : JC/MD  
 Sample : PB127661ZHE#07  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Mar 20 01:49:33 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  | 188424   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 315872   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 293793   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 130958   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 124468   | 48.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 96.24%  |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 93318    | 48.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 97.72%  |          |
| 50) Toluene-d8              | 10.08 | 98   | 388516   | 49.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 99.60%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 144036   | 50.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 100.76% |          |

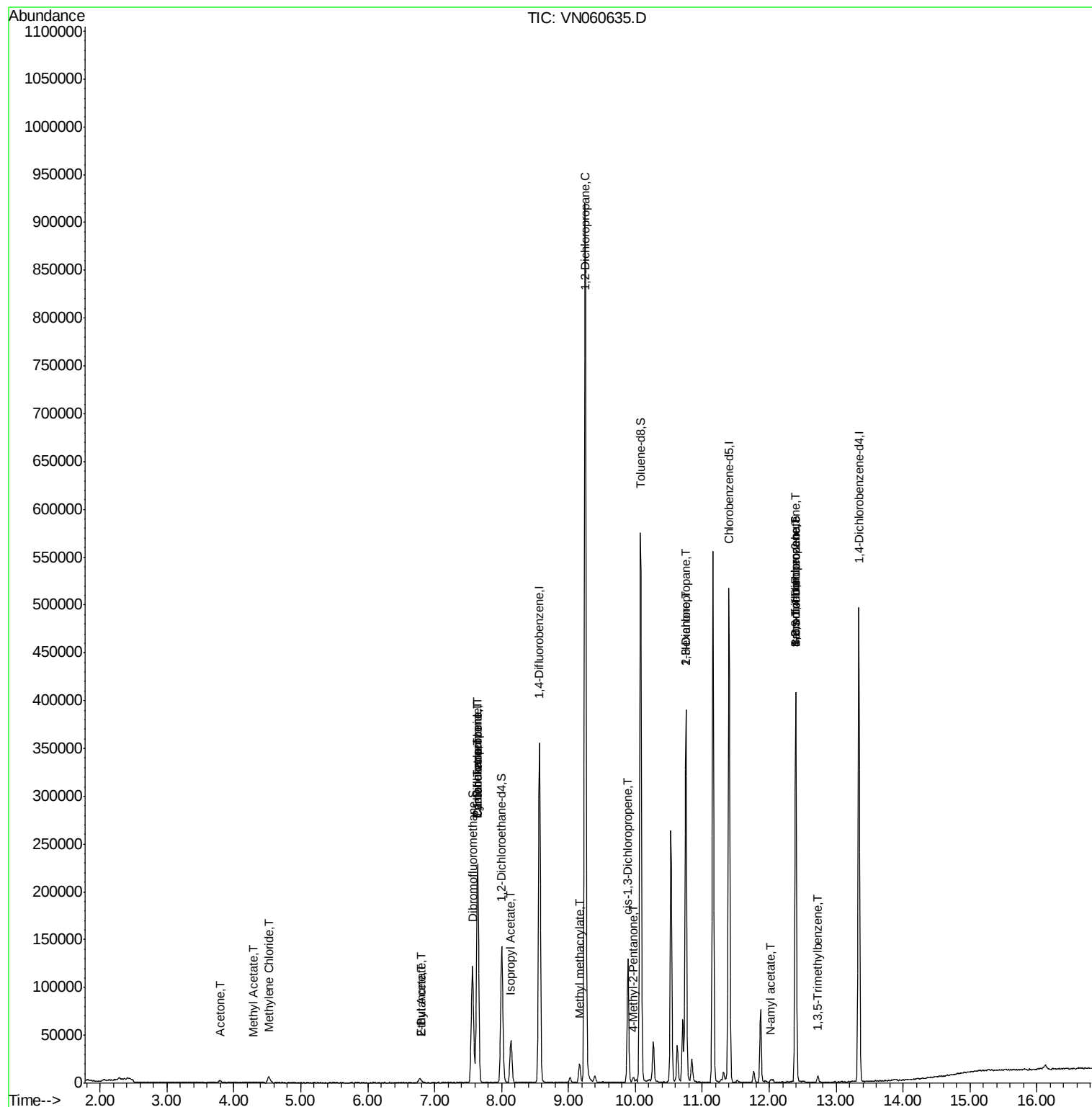
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.79  | 43   | 4392     | 4.794  | ug/l   | 100    |
| 18) Methyl Acetate             | 4.31  | 43   | 1654     | 0.641  | ug/l # | 54     |
| 20) Methylene Chloride         | 4.52  | 84   | 4774     | 2.118  | ug/l   | 88     |
| 25) 2-Butanone                 | 6.82  | 43   | 700      | 0.472  | ug/l # | 50     |
| 31) Cyclohexane                | 7.64  | 56   | 3935     | 0.945  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 14508    | 4.743  | ug/l # | 51     |
| 37) Ethyl Acetate              | 6.82  | 43   | 700      | 0.212  | ug/l # | 70     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 18490    | 6.745  | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.14  | 43   | 54701    | 10.036 | ug/l # | 90     |
| 45) 1,2-Dichloropropane        | 9.25  | 63   | 1016     | 0.417  | ug/l # | 43     |
| 48) Methyl methacrylate        | 9.16  | 41   | 2937     | 1.210  | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 3309     | 1.067  | ug/l   | 98     |
| 54) cis-1,3-Dichloropropene    | 9.89  | 75   | 22939    | 5.947  | ug/l # | 60     |
| 57) 1,3-Dichloropropane        | 10.75 | 76   | 3861     | 1.037  | ug/l # | 42     |
| 59) 2-Hexanone                 | 10.75 | 43   | 57685    | 25.819 | ug/l # | 52     |
| 71) Bromoform                  | 12.39 | 173  | 188      | 1.784  | ug/l # | 29     |
| 74) N-amyl acetate             | 12.02 | 43   | 2724     | 0.600  | ug/l # | 45     |
| 76) 1,2,3-Trichloropropane     | 12.39 | 75   | 73146    | 25.885 | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 4287     | 0.514  | ug/l   | 99     |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 73146    | 66.480 | ug/l # | 13     |

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

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MSVOA\_N  
ClientSampleId :

Quant Time: Mar 20 01:49:33 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 18 08:49:09 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA\_N

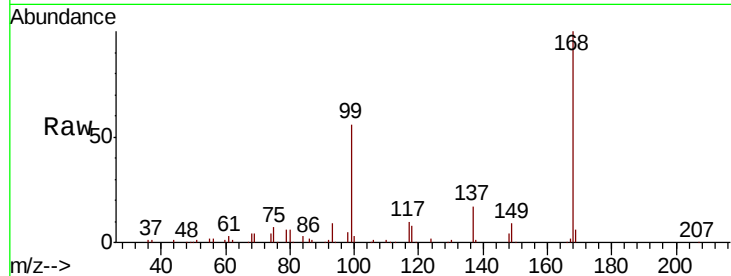
ClientSampled :

Tot Ion:168 Resp: 188424

Ion Ratio Lower Upper

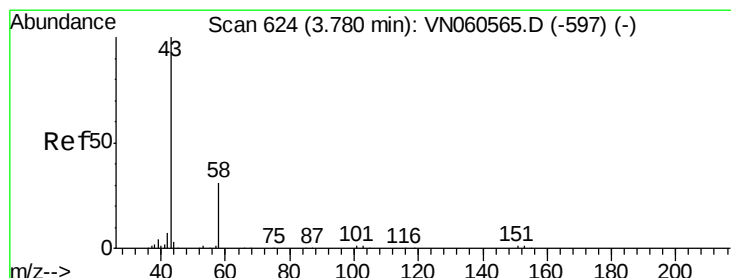
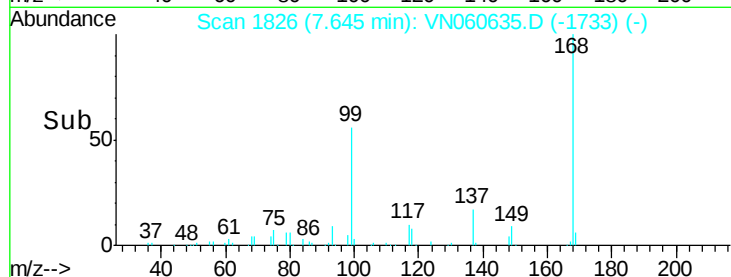
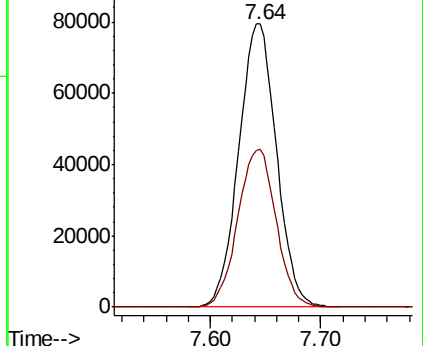
168 100

99 55.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 4.794 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060635.D

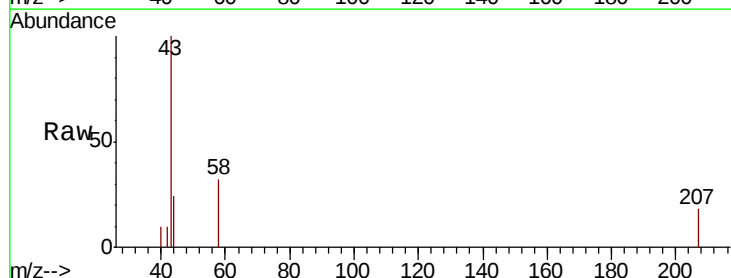
Acq: 19 Mar 2020 14:37

Tgt Ion: 43 Resp: 4392

Ion Ratio Lower Upper

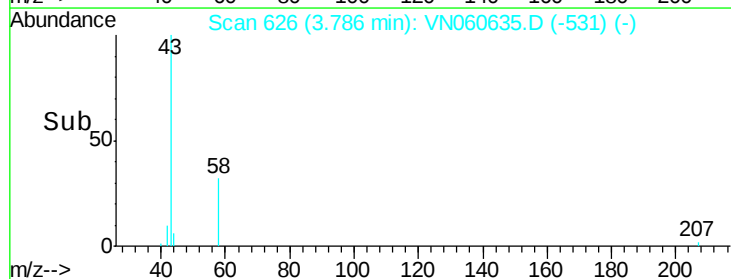
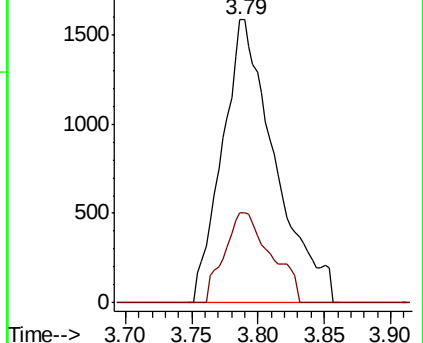
43 100

58 31.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

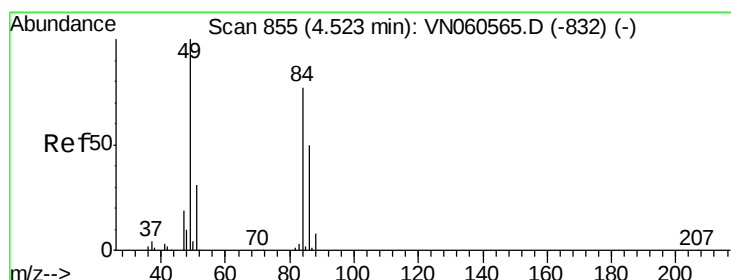
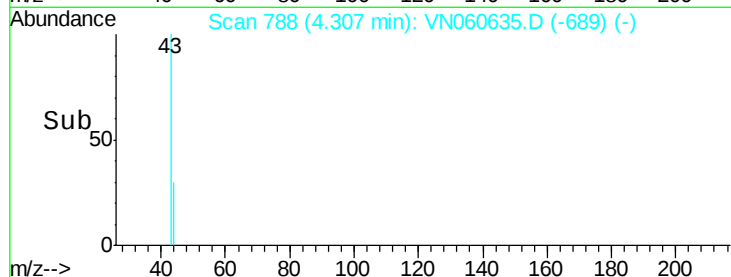
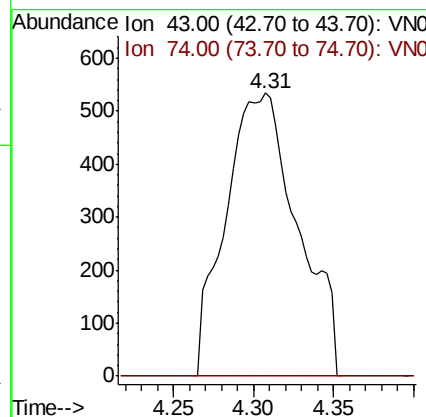
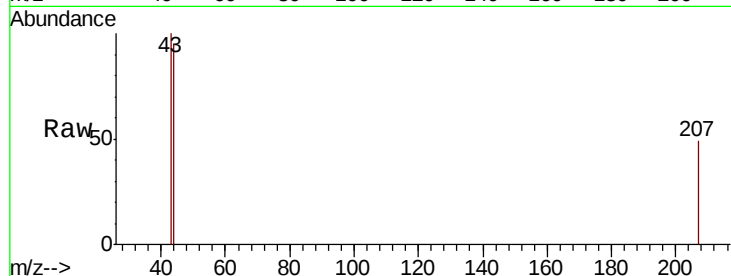




#18  
Methyl Acetate  
Concen: 0.641 ug/l  
RT: 4.31 min Scan# 788  
Delta R.T. 0.02 min  
Lab File: VN060635.D  
Acq: 19 Mar 2020 14:37

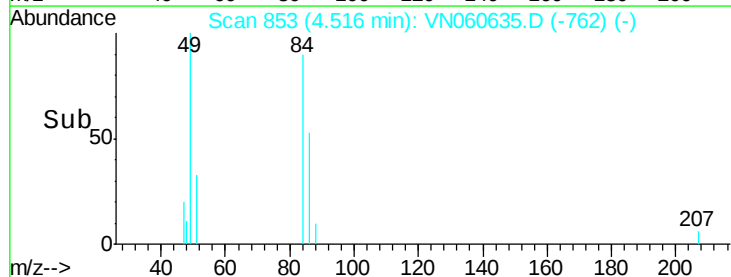
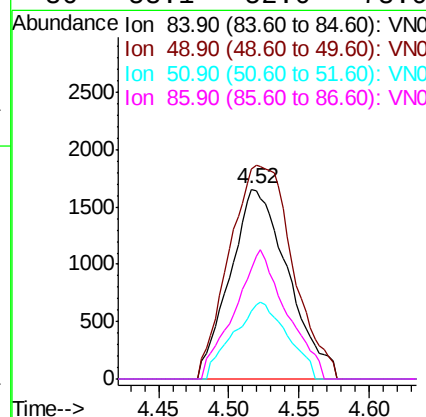
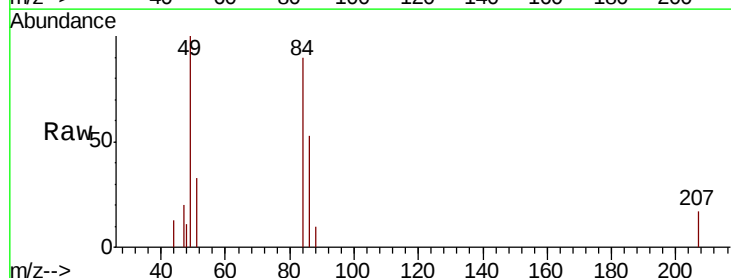
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 43 Resp: 1654  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.5 26.3#



#20  
Methylene Chloride  
Concen: 2.118 ug/l  
RT: 4.52 min Scan# 853  
Delta R.T. -0.01 min  
Lab File: VN060635.D  
Acq: 19 Mar 2020 14:37

Tgt Ion: 84 Resp: 4774  
Ion Ratio Lower Upper  
84 100  
49 110.6 103.3 154.9  
51 36.1 31.6 47.4  
86 58.1 52.0 78.0

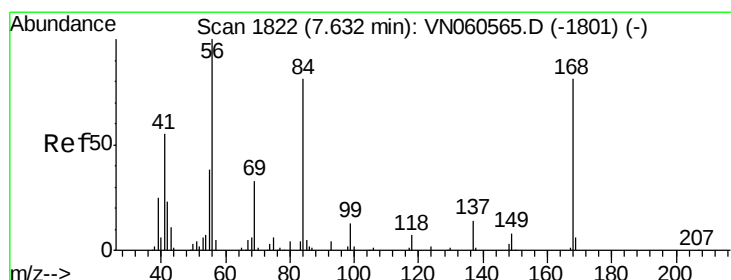
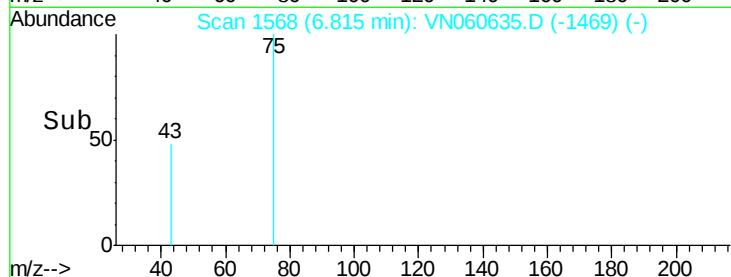
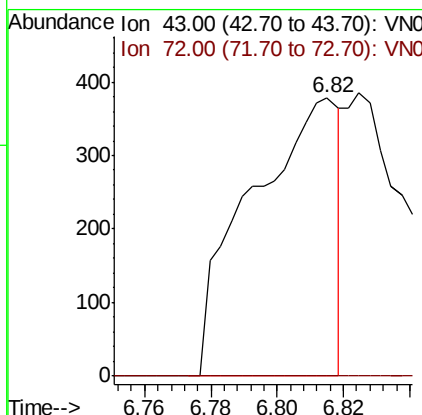
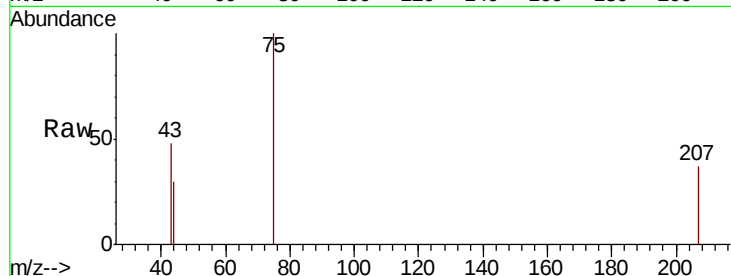




#25  
2-Butanone  
Concen: 0.472 ug/l  
RT: 6.82 min Scan# 1568  
Delta R.T. 0.02 min  
Lab File: VN060635.D  
Acq: 19 Mar 2020 14:37

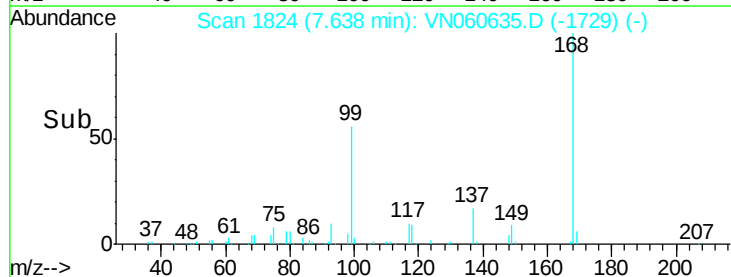
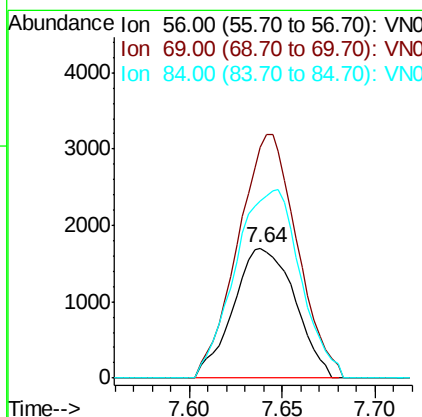
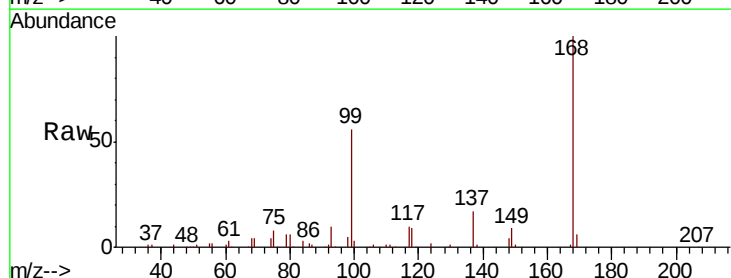
Instrument :  
MSVOA\_N  
ClientSampleId :

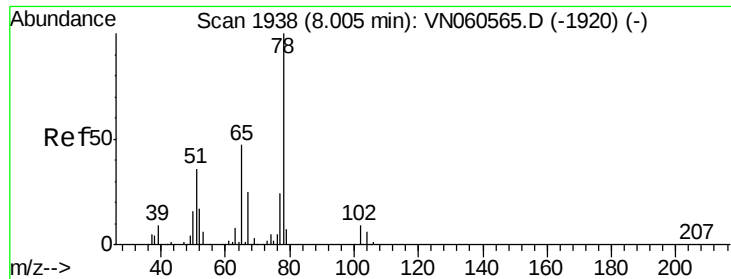
Tot Ion: 43 Resp: 700  
Ion Ratio Lower Upper  
43 100  
72 0.0 20.4 30.6#



#31  
Cyclohexane  
Concen: 0.945 ug/l  
RT: 7.64 min Scan# 1824  
Delta R.T. 0.01 min  
Lab File: VN060635.D  
Acq: 19 Mar 2020 14:37

Tgt Ion: 56 Resp: 3935  
Ion Ratio Lower Upper  
56 100  
69 177.8 26.6 40.0#  
84 136.3 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 48.120 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

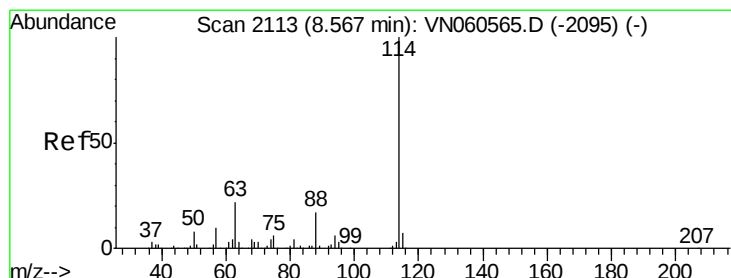
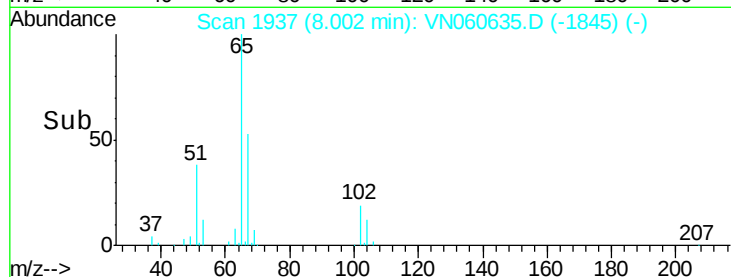
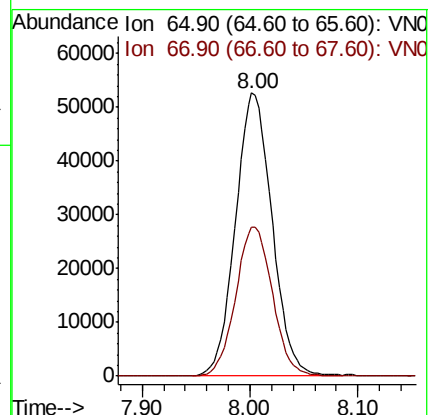
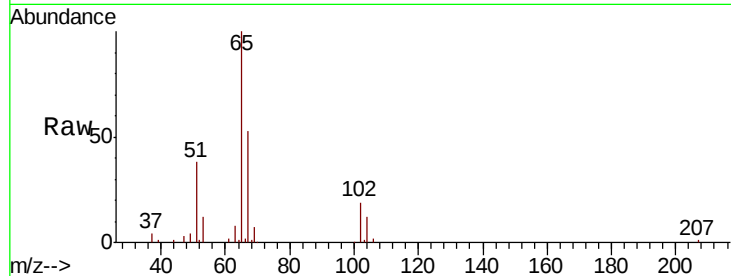
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 65 Resp: 124468

Ion Ratio Lower Upper

65 100

67 52.9 0.0 107.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

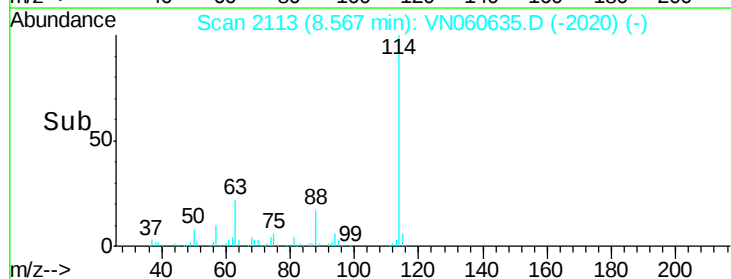
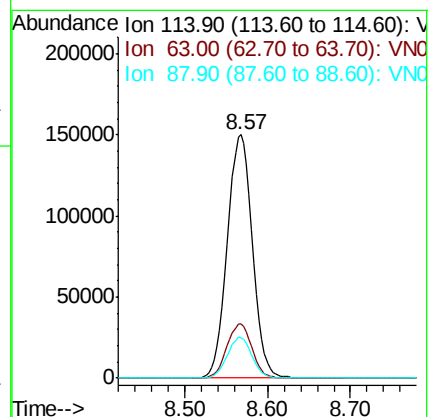
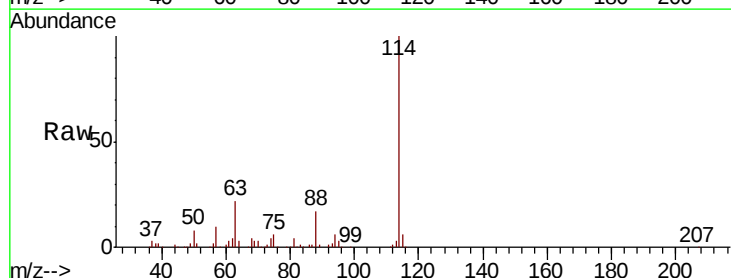
Tgt Ion: 114 Resp: 315872

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.8

88 16.7 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.858 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :  
MSVOA\_N  
ClientSampleId :

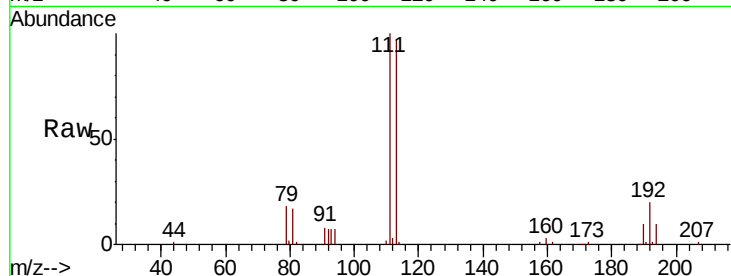
Tot Ion:113 Resp: 93318

Ion Ratio Lower Upper

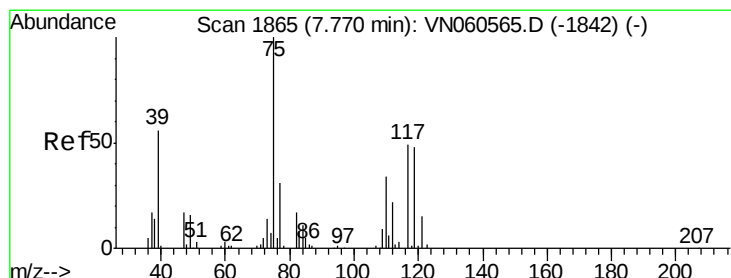
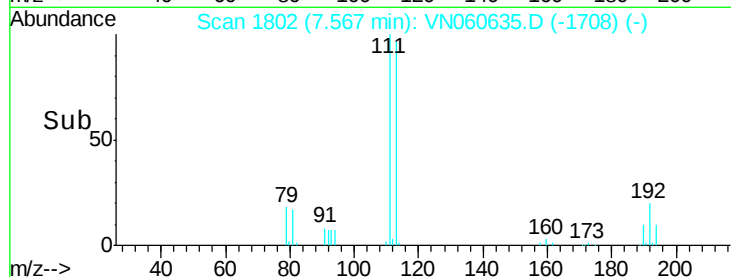
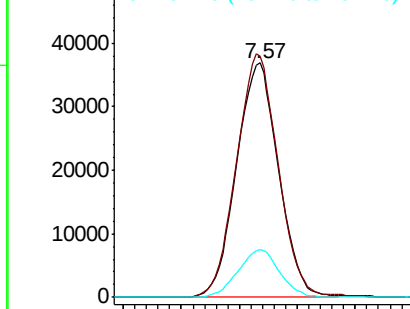
113 100

111 103.2 82.9 124.3

192 20.1 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: 4.743 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

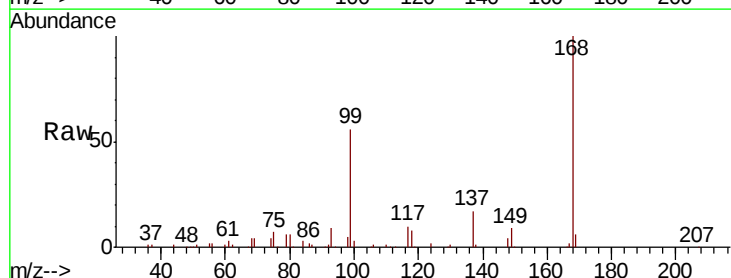
Tgt Ion: 75 Resp: 14508

Ion Ratio Lower Upper

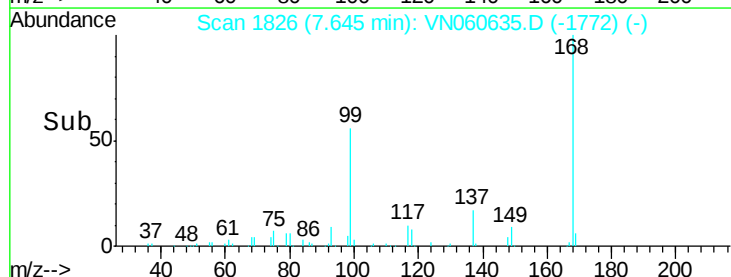
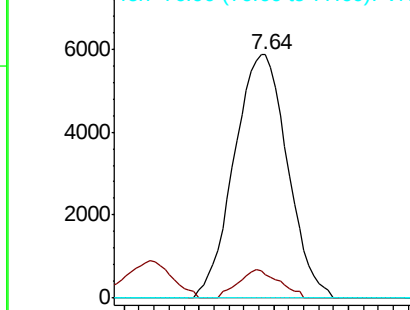
75 100

110 8.9 16.9 50.6#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): V  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): V

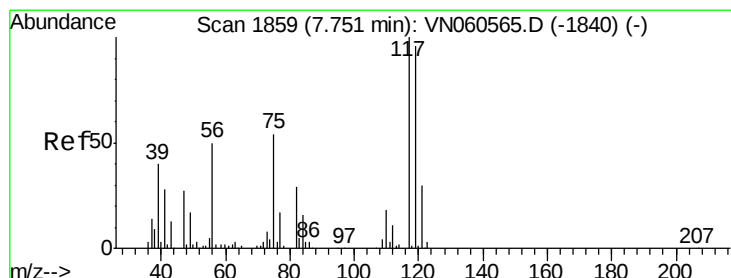
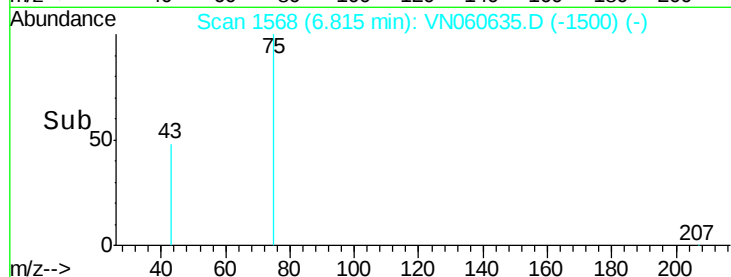
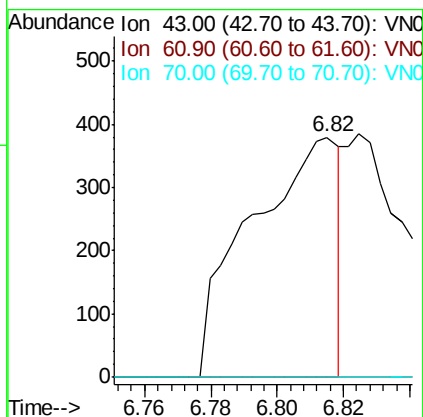
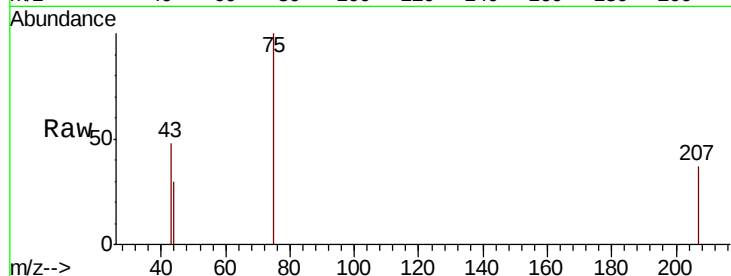




#37  
Ethyl Acetate  
Concen: 0.212 ug/l  
RT: 6.82 min Scan# 1568  
Delta R.T. -0.08 min  
Lab File: VN060635.D  
Acq: 19 Mar 2020 14:37

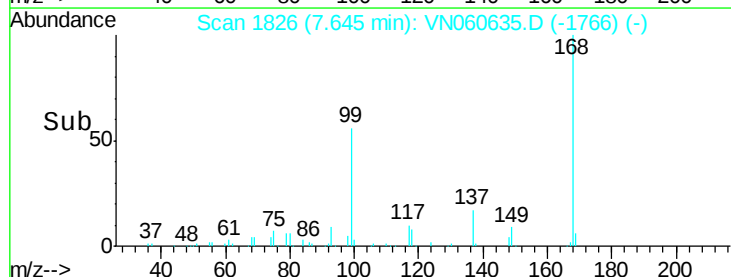
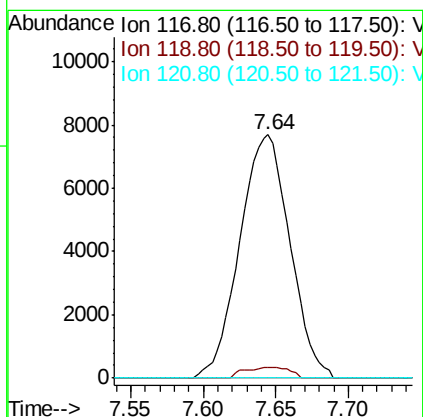
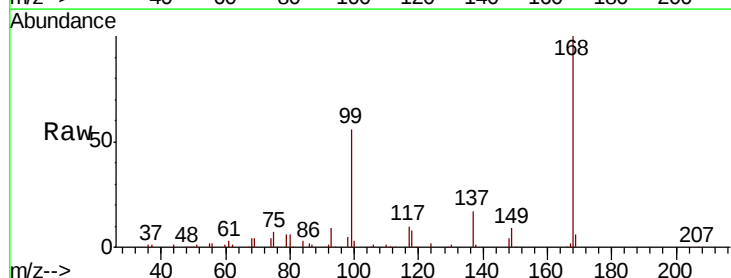
Instrument :  
MSVOA\_N  
ClientSampled :

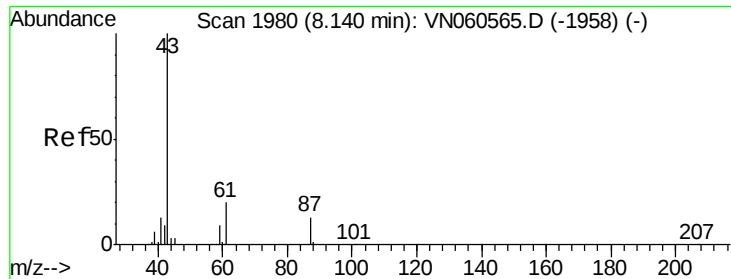
Tot Ion: 43 Resp: 700  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.6 15.8#  
70 0.0 7.9 11.9#



#38  
Carbon Tetrachloride  
Concen: 6.745 ug/l  
RT: 7.64 min Scan# 1826  
Delta R.T. -0.11 min  
Lab File: VN060635.D  
Acq: 19 Mar 2020 14:37

Tgt Ion: 117 Resp: 18490  
Ion Ratio Lower Upper  
117 100  
119 4.6 76.2 114.2#  
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 10.036 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA\_N

ClientSampleId :

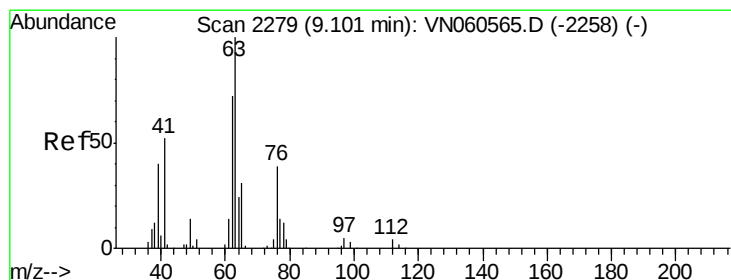
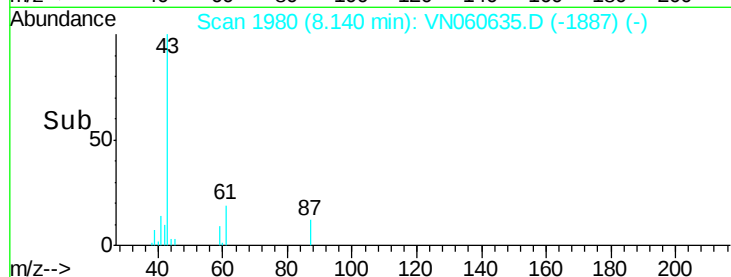
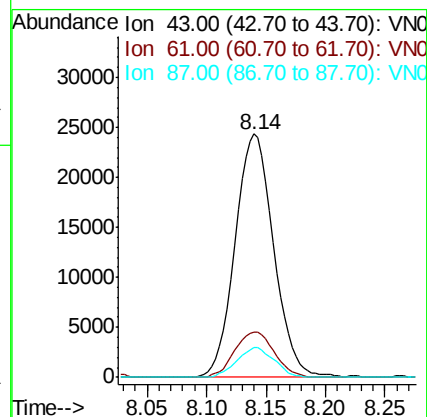
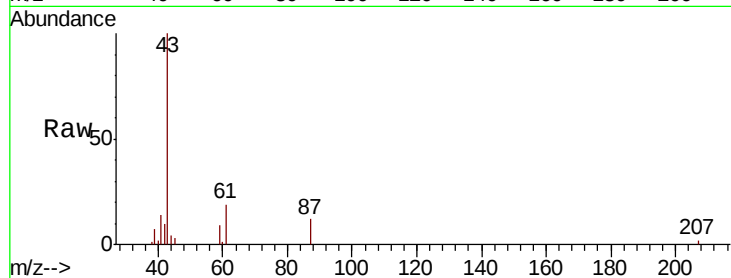
Tot Ion: 43 Resp: 54701

Ion Ratio Lower Upper

43 100

61 19.1 20.7 31.1#

87 11.7 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.417 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060635.D

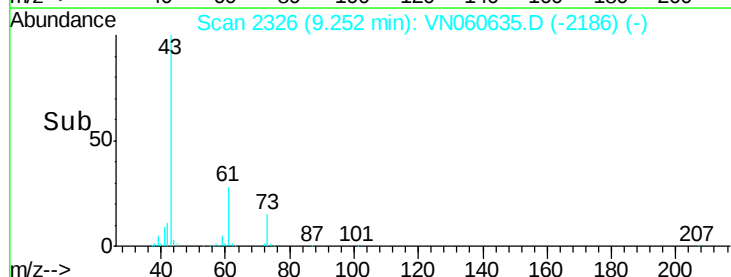
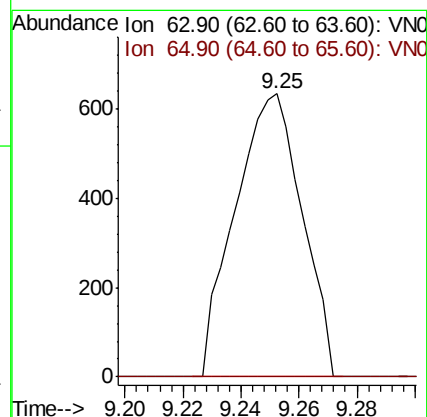
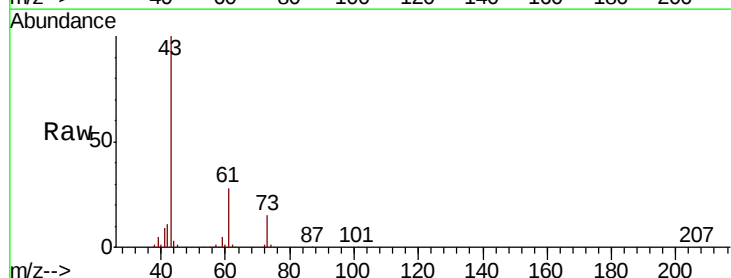
Acq: 19 Mar 2020 14:37

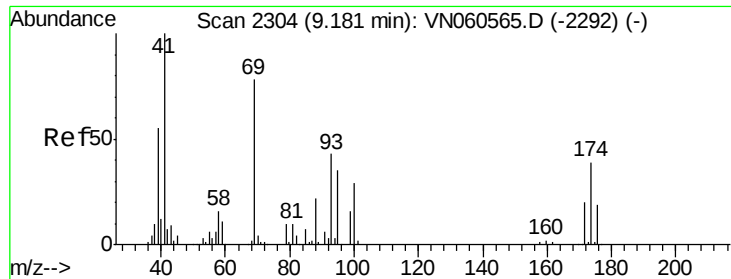
Tgt Ion: 63 Resp: 1016

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

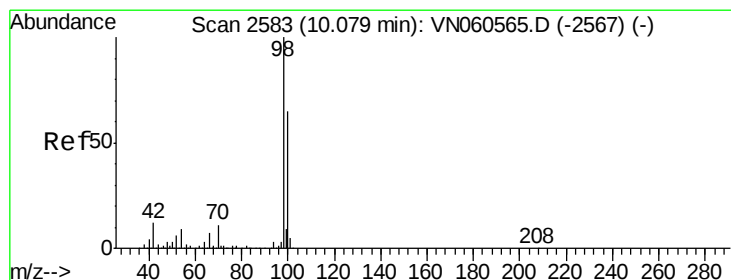
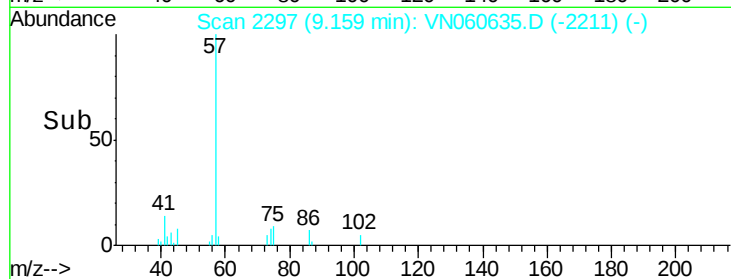
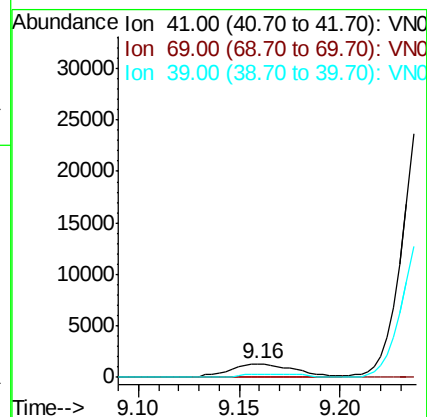
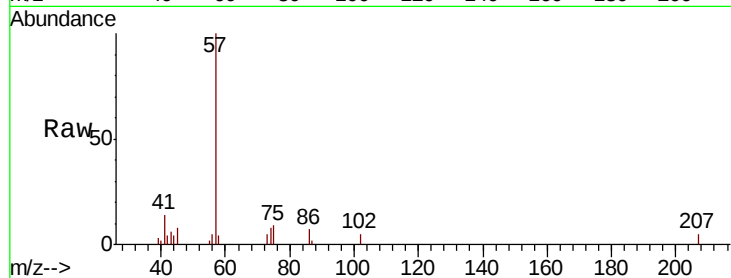




#48  
Methvl methacrylate  
Concen: 1.210 ug/l  
RT: 9.16 min Scan# 2297  
Delta R.T. -0.02 min  
Lab File: VN060635.D  
Acq: 19 Mar 2020 14:37

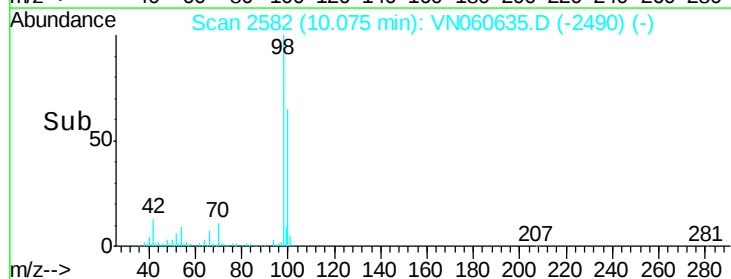
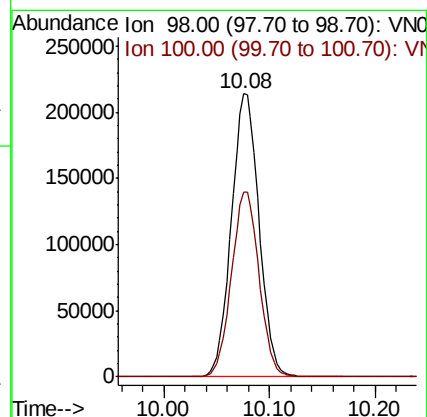
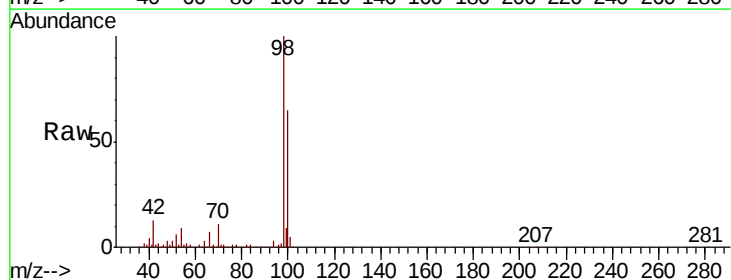
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 41 Resp: 2937  
Ion Ratio Lower Upper  
41 100  
69 0.0 65.4 98.0#  
39 0.0 44.0 66.0#



#50  
Toluene-d8  
Concen: 49.800 ug/l  
RT: 10.08 min Scan# 2582  
Delta R.T. -0.00 min  
Lab File: VN060635.D  
Acq: 19 Mar 2020 14:37

Tgt Ion: 98 Resp: 388516  
Ion Ratio Lower Upper  
98 100  
100 65.2 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.067 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA\_N

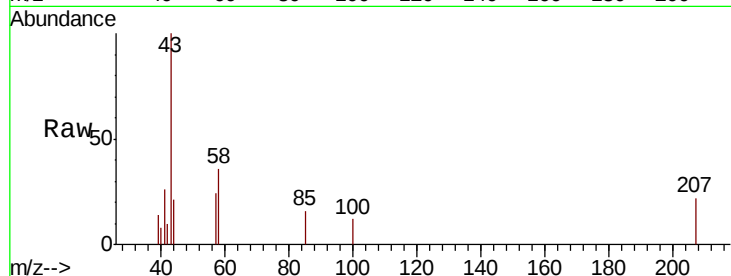
ClientSampled :

Tot Ion: 43 Resp: 3309

Ion Ratio Lower Upper

43 100

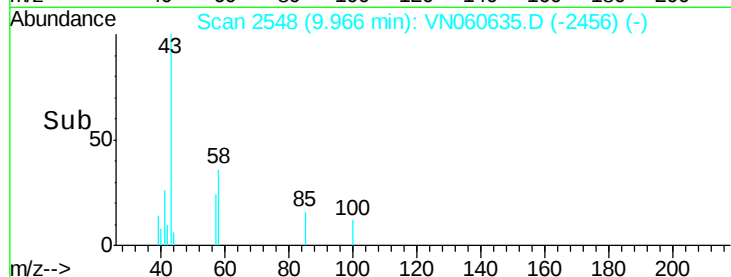
58 39.5 30.8 46.2



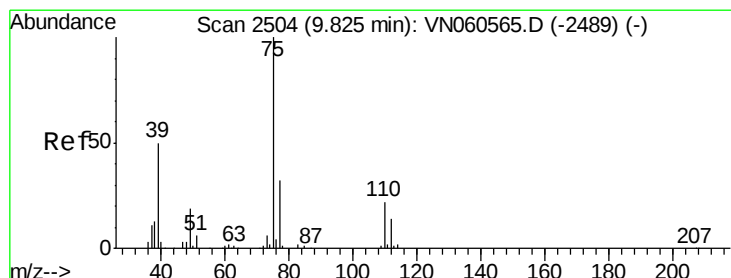
Abundance Ion 43.00 (42.70 to 43.70): VN060635.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060635.D (-2456) (-)

Time-->



Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.947 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

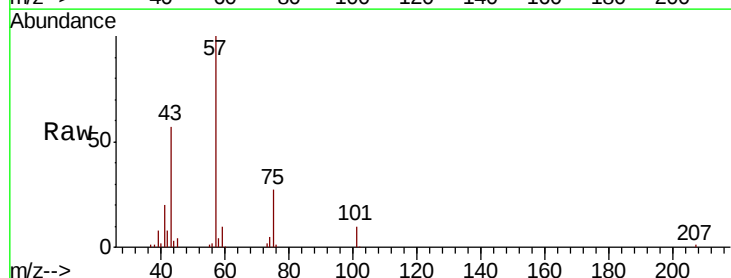
Tgt Ion: 75 Resp: 22939

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 29.9 40.2 60.4#

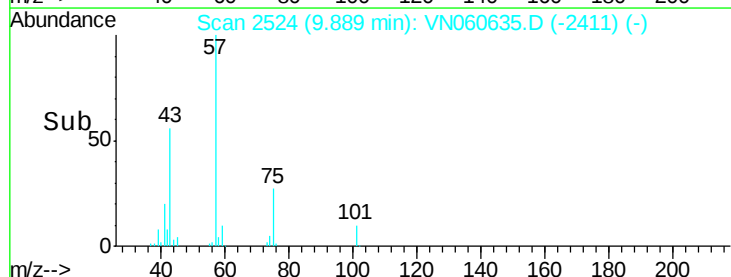


Abundance Ion 74.90 (74.60 to 75.60): VN060635.D (-2411) (-)

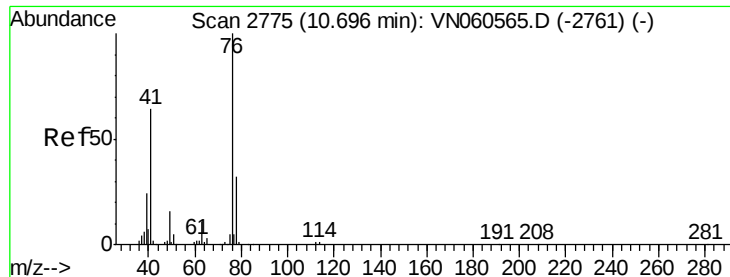
Ion 76.90 (76.60 to 77.60): VN060635.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060635.D (-2411) (-)

Time-->



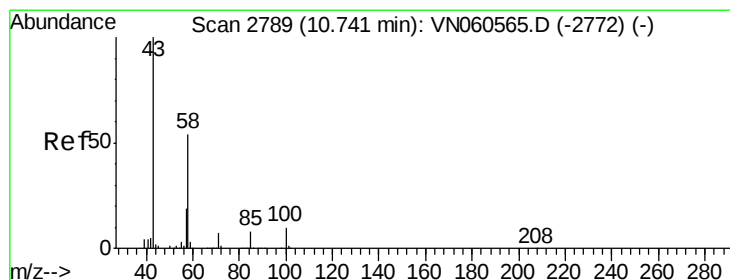
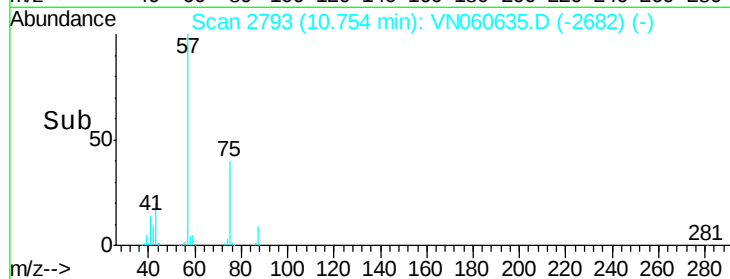
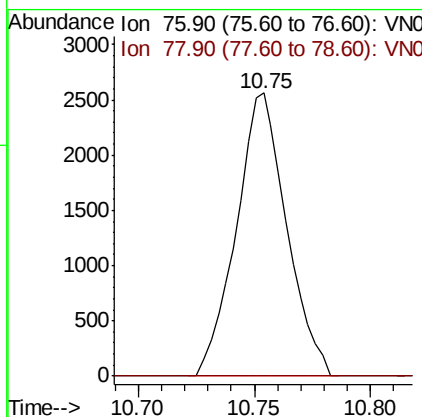
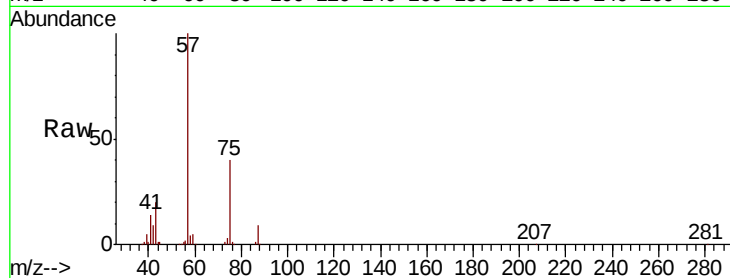
Time-->



#57  
 1,3-Dichloropropane  
 Concen: 1.037 ug/l  
 RT: 10.75 min Scan# 2793  
 Delta R.T. 0.06 min  
 Lab File: VN060635.D  
 Acq: 19 Mar 2020 14:37

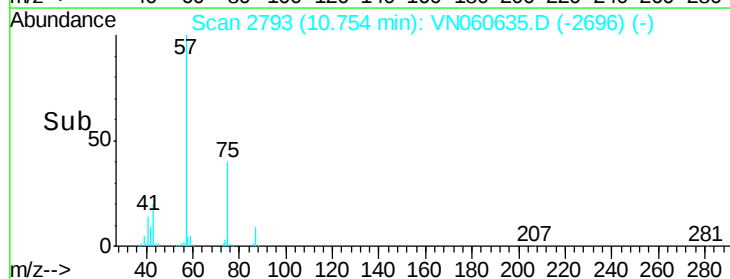
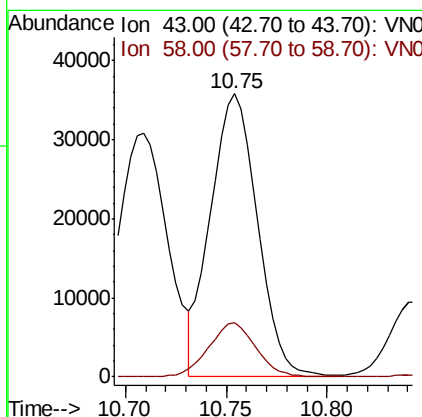
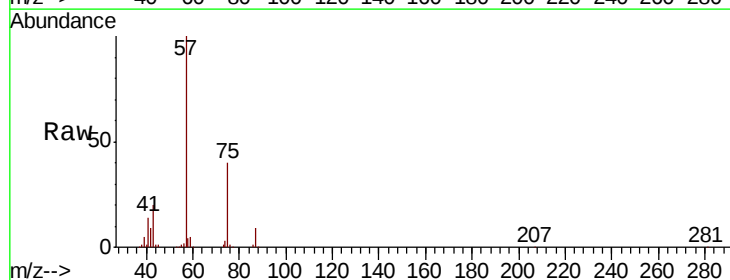
Instrument :  
 MSVOA\_N  
 ClientSampleId :

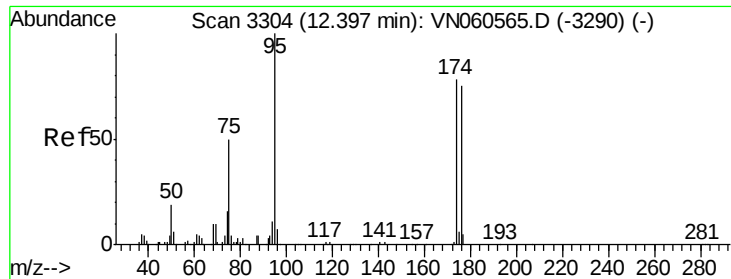
Tot Ion: 76 Resp: 3861  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 25.8 38.6#



#59  
 2-Hexanone  
 Concen: 25.819 ug/l  
 RT: 10.75 min Scan# 2793  
 Delta R.T. 0.01 min  
 Lab File: VN060635.D  
 Acq: 19 Mar 2020 14:37

Tgt Ion: 43 Resp: 57685  
 Ion Ratio Lower Upper  
 43 100  
 58 19.1 26.7 80.1#

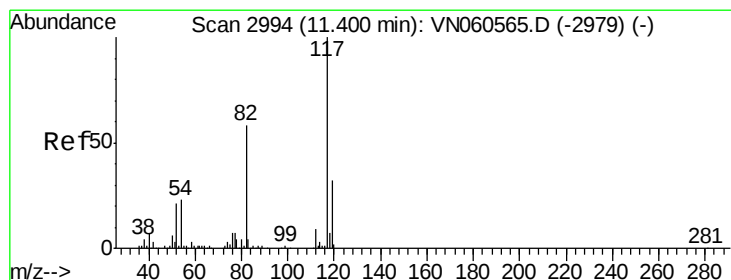
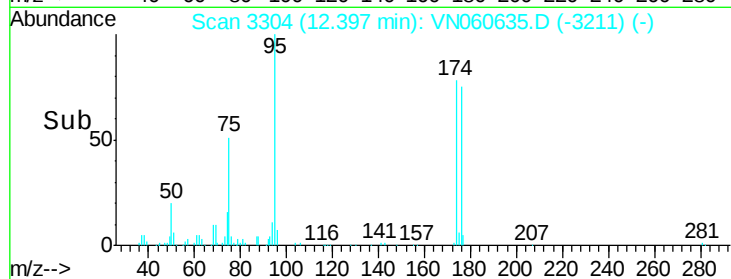
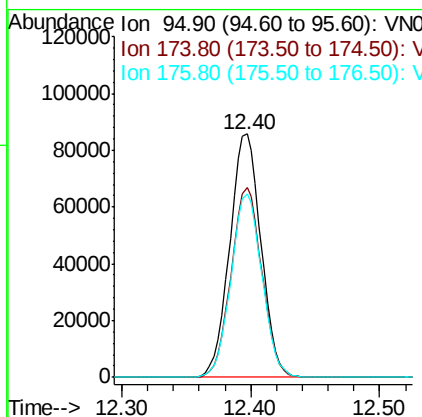
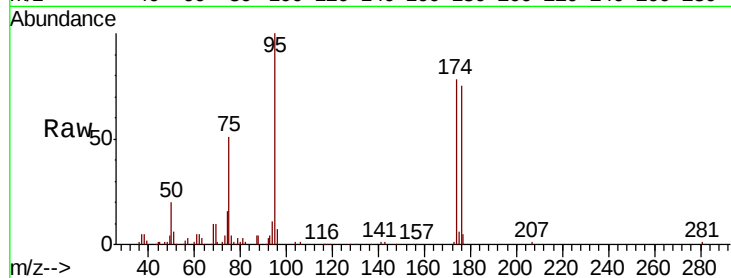




#62  
4-Bromofluorobenzene  
Concen: 50.377 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. 0.00 min  
Lab File: VN060635.D  
Acq: 19 Mar 2020 14:37

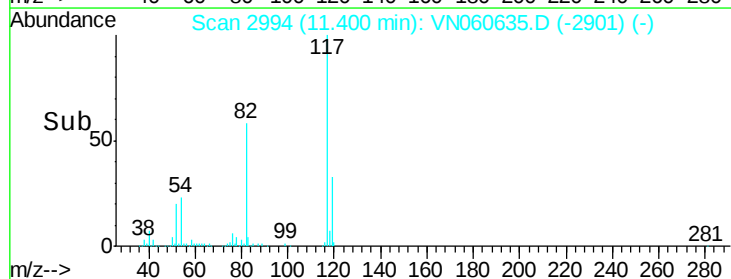
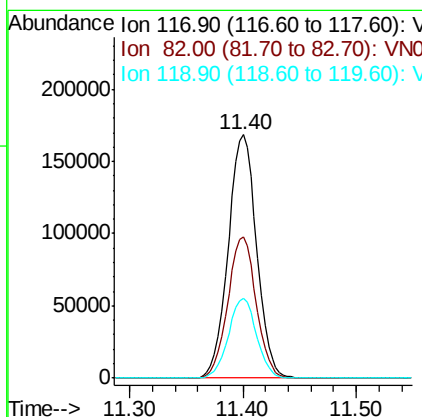
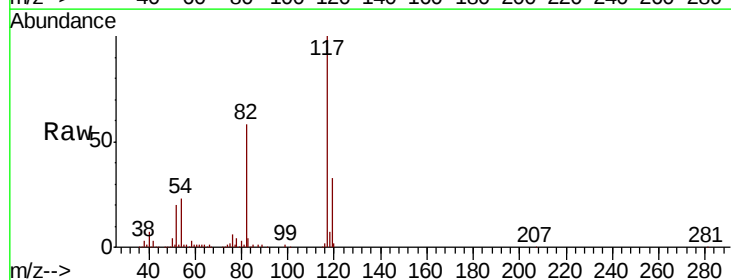
Instrument :  
MSVOA\_N  
ClientSampled :

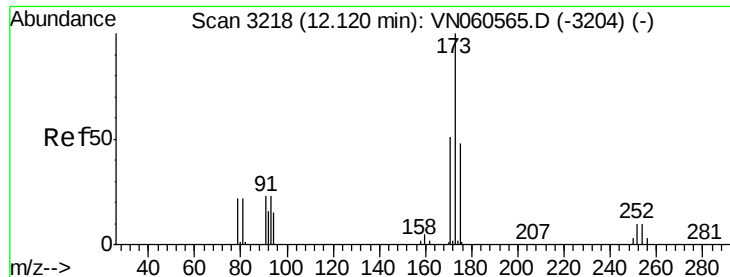
Tot Ion: 95 Resp: 144036  
Ion Ratio Lower Upper  
95 100  
174 77.2 0.0 157.6  
176 74.9 0.0 150.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. 0.00 min  
Lab File: VN060635.D  
Acq: 19 Mar 2020 14:37

Tgt Ion: 117 Resp: 293793  
Ion Ratio Lower Upper  
117 100  
82 57.8 46.7 70.1  
119 32.6 25.5 38.3





#71

Bromoform

Concen: 1.784 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.27 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA\_N

ClientSampleId :

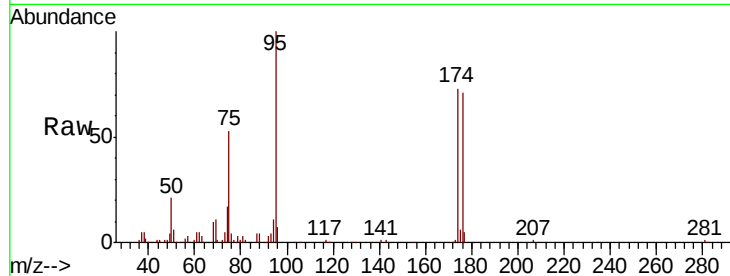
Tot Ion:173 Resp: 188

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.4#

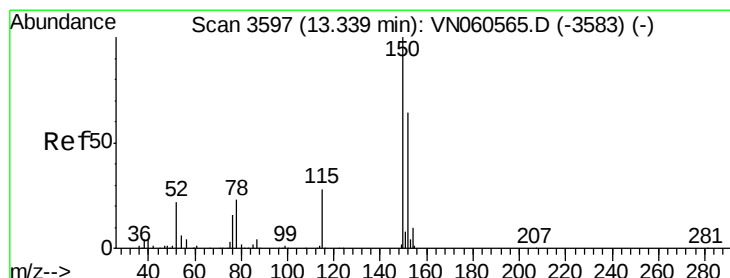
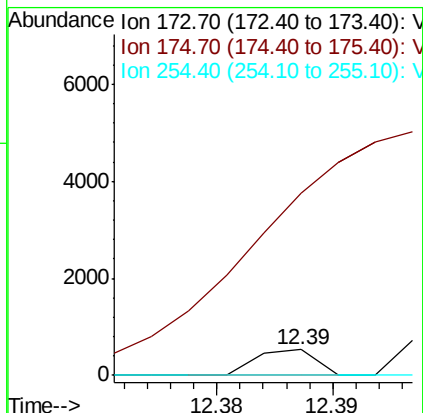
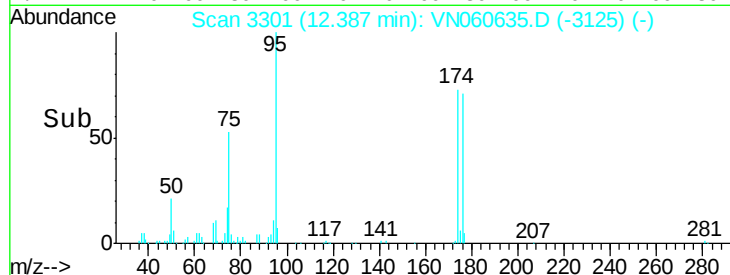
254 0.0 0.0 0.0



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: VN060635.D

Acq: 19 Mar 2020 14:37

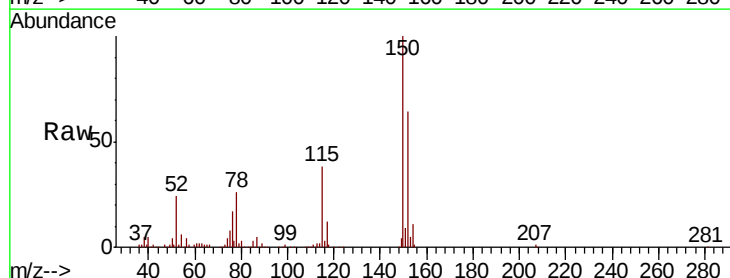
Tgt Ion:152 Resp: 130958

Ion Ratio Lower Upper

152 100

115 59.4 30.2 90.6

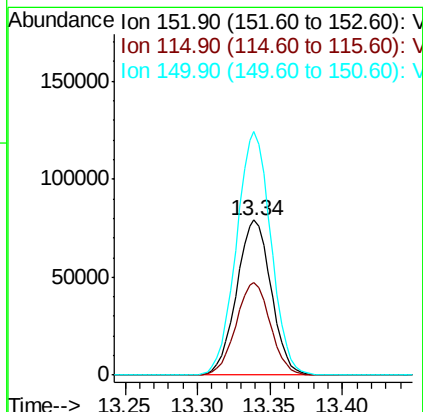
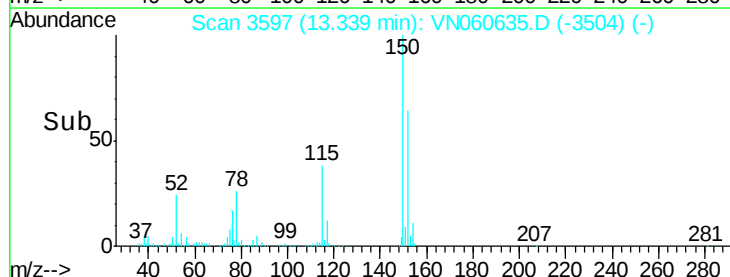
150 157.0 0.0 350.2

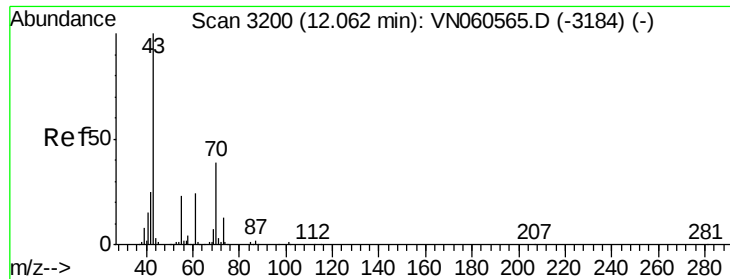


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.600 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion: 43 Resp: 2724

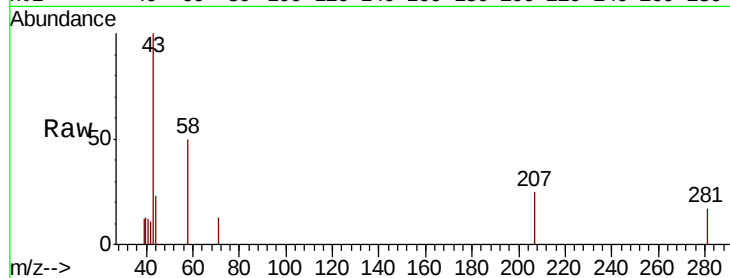
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

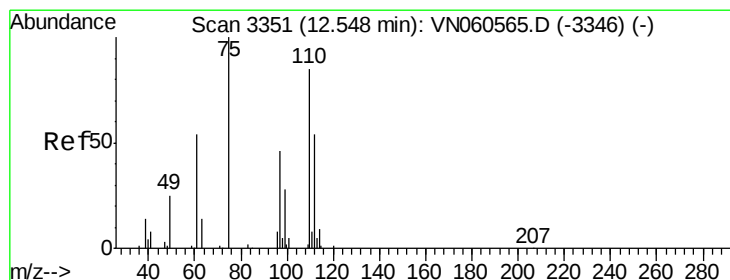
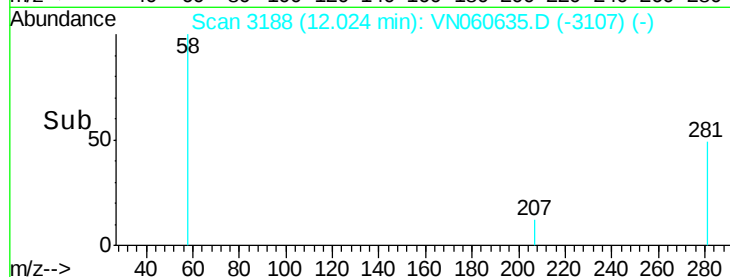
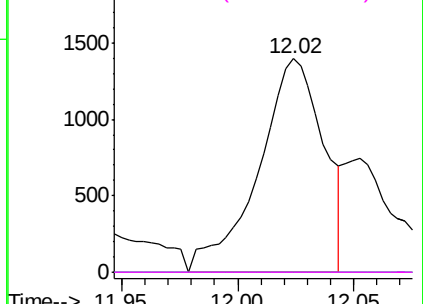


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.885 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060635.D

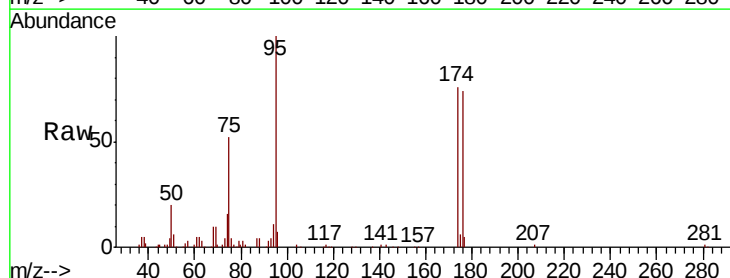
Acq: 19 Mar 2020 14:37

Tgt Ion: 75 Resp: 73146

Ion Ratio Lower Upper

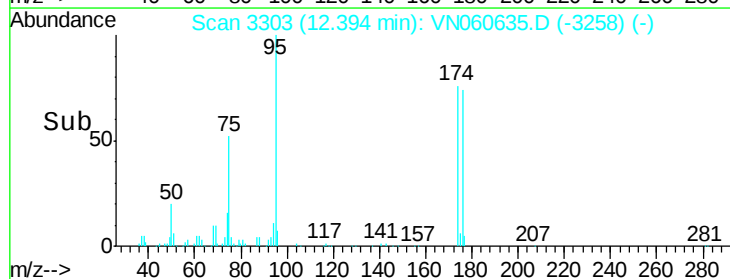
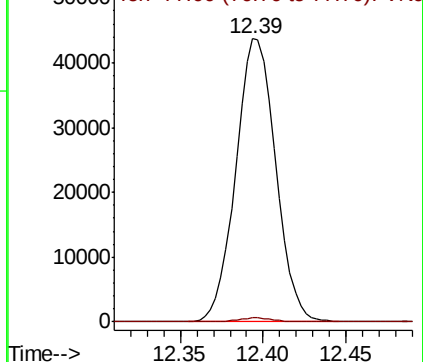
75 100

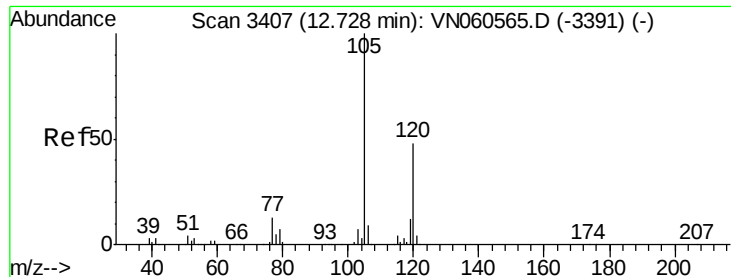
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.514 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

Instrument :

MSVOA\_N

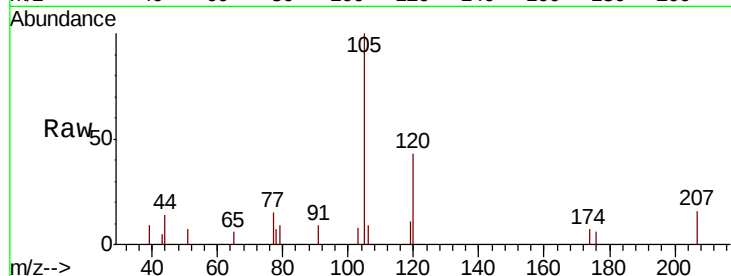
ClientSampleId :

Tot Ion:105 Resp: 4287

Ion Ratio Lower Upper

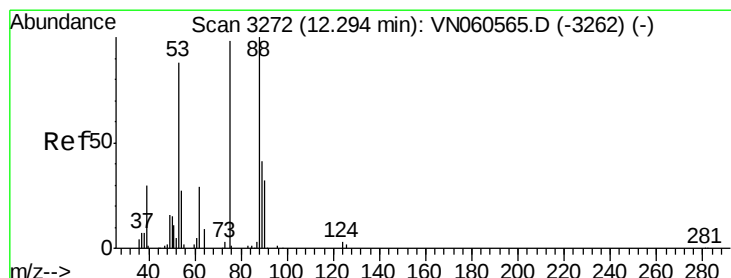
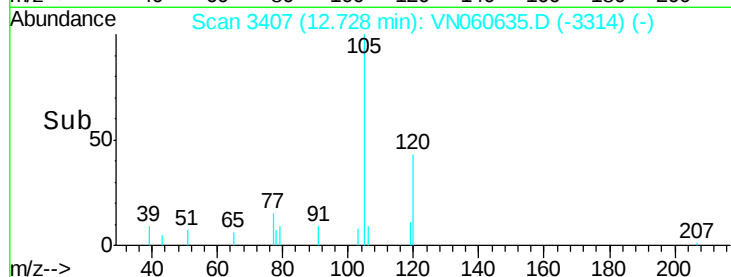
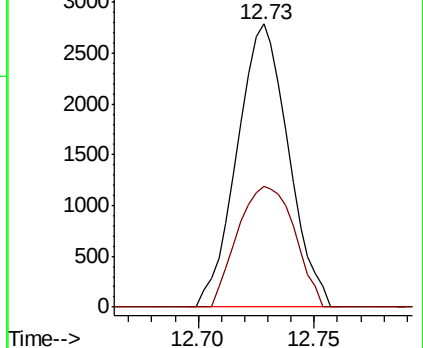
105 100

120 47.4 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 66.480 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060635.D

Acq: 19 Mar 2020 14:37

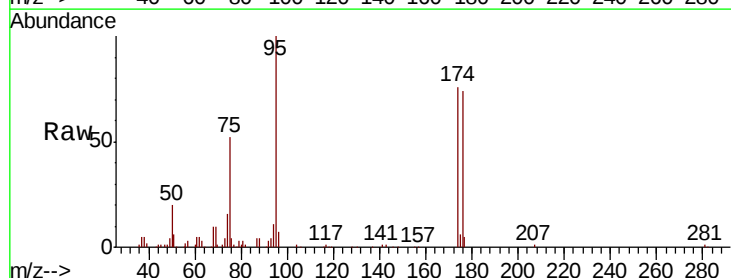
Tgt Ion: 75 Resp: 73146

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

