

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060920\  
 Data File : VN061719.D  
 Acq On : 9 Jun 2020 12:30  
 Operator : JC/MD  
 Sample : PB129410TB  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB129410TB

Quant Time: Jun 10 03:01:11 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 29 02:14:10 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 276918   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 462204   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 469757   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 201728   | 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   | 155132   | 47.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.04%  |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 126630   | 54.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.02% |          |
| 50) Toluene-d8              | 10.06 | 98   | 567886   | 52.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.52% |          |
| 62) 4-Bromofluorobenzene    | 12.37 | 95   | 197295   | 49.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.54%  |          |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 2.04  | 50   | 1121     | 0.332  | ug/l # | 71     |
| 5) Bromomethane                | 2.55  | 94   | 1149     | 0.433  | ug/l   | 99     |
| 10) Methyl Iodide              | 3.92  | 142  | 1238     | 0.337  | ug/l # | 66     |
| 16) Acetone                    | 3.78  | 43   | 15447    | 11.062 | ug/l   | 93     |
| 18) Methyl Acetate             | 4.28  | 43   | 1489     | 0.499  | ug/l   | 92     |
| 20) Methylene Chloride         | 4.51  | 84   | 9085     | 1.336  | ug/l   | 90     |
| 25) 2-Butanone                 | 6.80  | 43   | 3370     | 2.155  | ug/l   | 98     |
| 29) Tetrahydrofuran            | 7.17  | 42   | 1527     | 1.481  | ug/l # | 70     |
| 31) Cyclohexane                | 7.62  | 56   | 4651     | 1.000  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 18451    | 4.509  | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 7.62  | 117  | 25965    | 6.579  | ug/l # | 16     |
| 41) Methacrylonitrile          | 7.16  | 41   | 404      | 0.268  | ug/l # | 20     |
| 43) Isopropyl Acetate          | 8.13  | 43   | 66979    | 11.297 | ug/l # | 92     |
| 45) 1,2-Dichloropropane        | 9.24  | 63   | 1568     | 0.523  | ug/l # | 44     |
| 48) Methyl methacrylate        | 9.15  | 41   | 3367     | 1.262  | ug/l # | 5      |
| 49) 1,4-Dioxane                | 9.17  | 88   | 146      | 3.533  | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 6913     | 2.069  | ug/l   | 87     |
| 54) cis-1,3-Dichloropropene    | 9.87  | 75   | 37651    | 7.136  | ug/l # | 62     |
| 57) 1,3-Dichloropropane        | 10.73 | 76   | 6667     | 1.270  | ug/l # | 42     |
| 59) 2-Hexanone                 | 10.73 | 43   | 71885    | 29.957 | ug/l # | 51     |
| 71) Bromoform                  | 12.37 | 173  | 2022     | 0.722  | ug/l # | 1      |
| 74) N-amyl acetate             | 12.04 | 43   | 1325     | 0.286  | ug/l # | 46     |
| 76) 1,2,3-Trichloropropane     | 12.37 | 75   | 96995    | 26.442 | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 4644     | 0.377  | ug/l   | 98     |
| 81) trans-1,4-Dichloro-2-buten | 12.37 | 75   | 96995    | 67.620 | ug/l # | 15     |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 1766     | 0.265  | ug/l   | 90     |
| 88) 1,4-Dichlorobenzene        | 13.26 | 146  | 1766     | 0.260  | ug/l   | 90     |
| 89) n-Butylbenzene             | 13.59 | 91   | 3155     | 0.292  | ug/l   | 89     |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 1837     | 0.289  | ug/l   | 93     |
| 93) 1,2,4-Trichlorobenzene     | 14.89 | 180  | 2876     | 0.773  | ug/l   | 93     |
| 94) Hexachlorobutadiene        | 14.98 | 225  | 1081     | 0.681  | ug/l   | 92     |
| 95) Naphthalene                | 15.11 | 128  | 10547    | 0.932  | ug/l   | 98     |
| 96) 1,2,3-Trichlorobenzene     | 15.29 | 180  | 2828     | 0.773  | ug/l   | 94     |

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
Quant Title : SW846 8260  
QLast Update : Fri May 29 02:14:10 2020  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

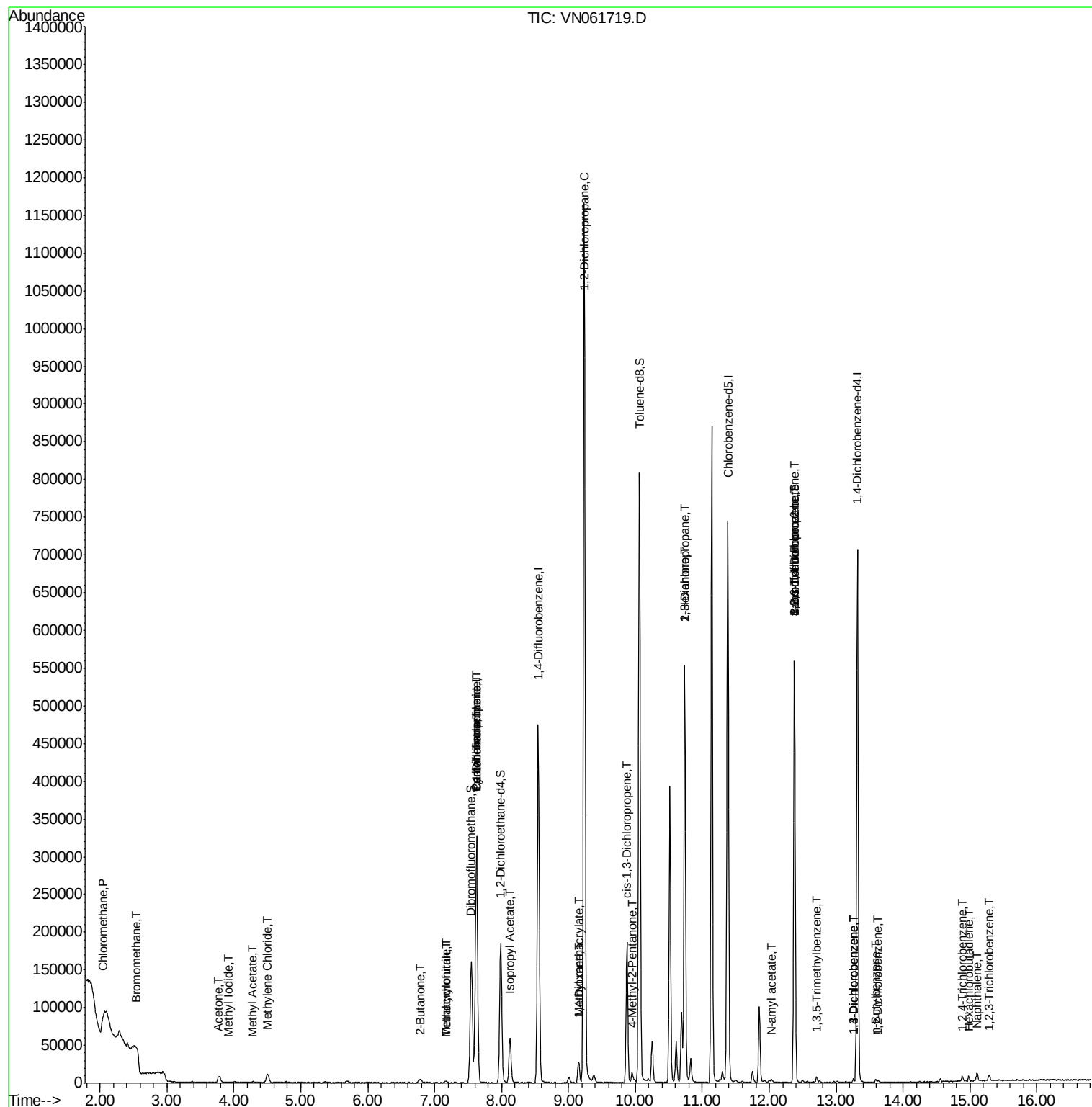
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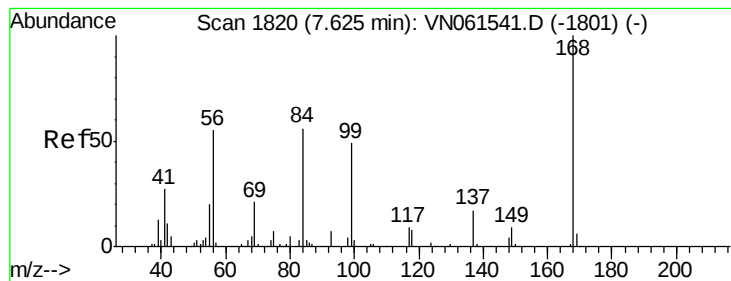
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

Instrument :

MSVOA\_N

ClientSampled :

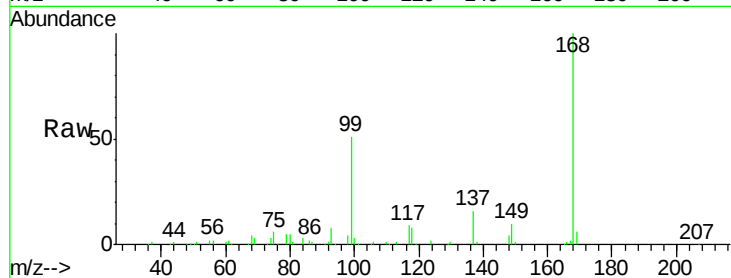
PB129410TB

Tot Ion:168 Resp: 276918

Ion Ratio Lower Upper

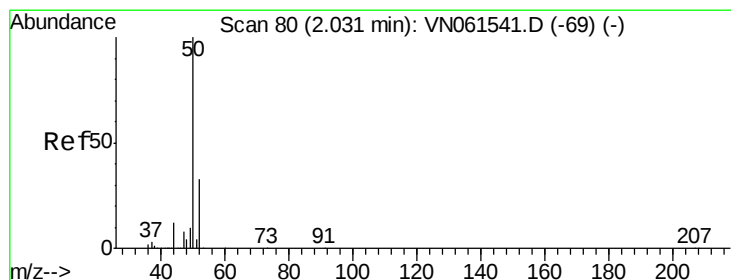
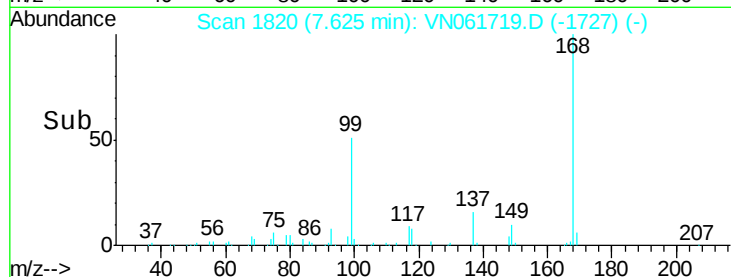
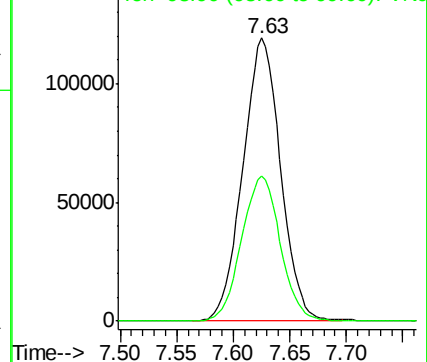
168 100

99 51.1 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.332 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.01 min

Lab File: VN061719.D

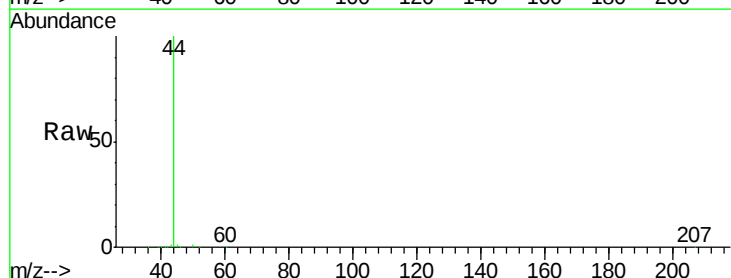
Acq: 9 Jun 2020 12:30

Tgt Ion: 50 Resp: 1121

Ion Ratio Lower Upper

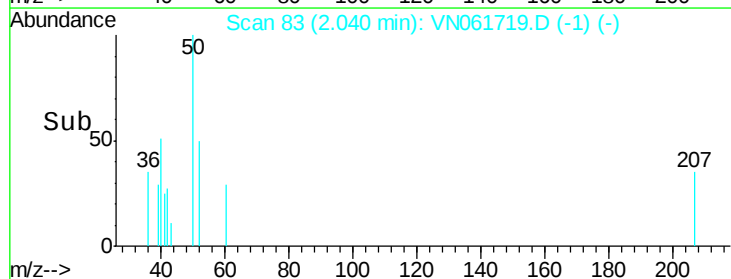
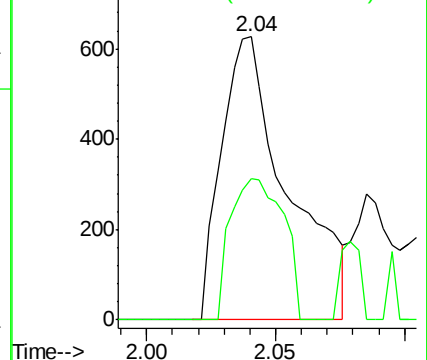
50 100

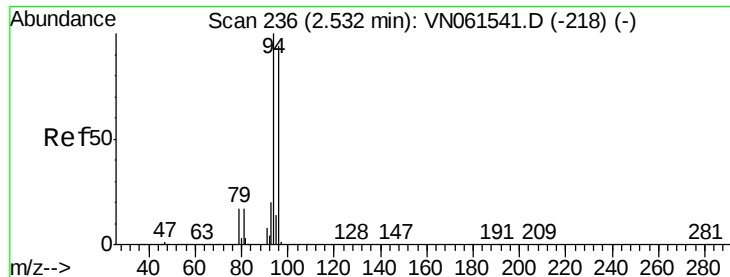
52 49.8 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: 0.433 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

Instrument :

MSVOA\_N

ClientSampleId :

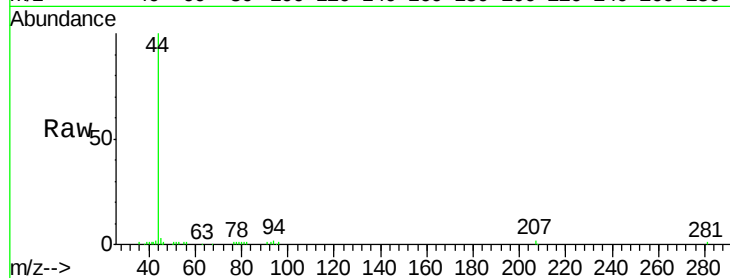
PB129410TB

Tot Ion: 94 Resp: 1149

Ion Ratio Lower Upper

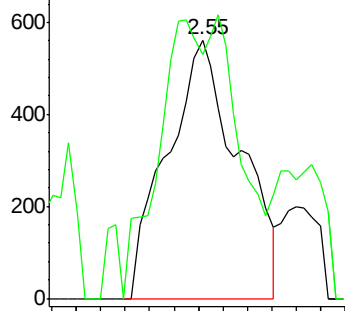
94 100

96 94.3 74.8 112.2

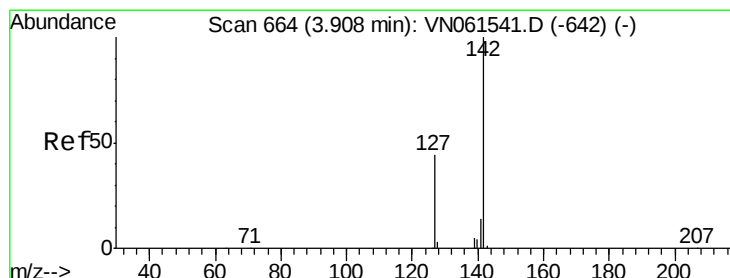
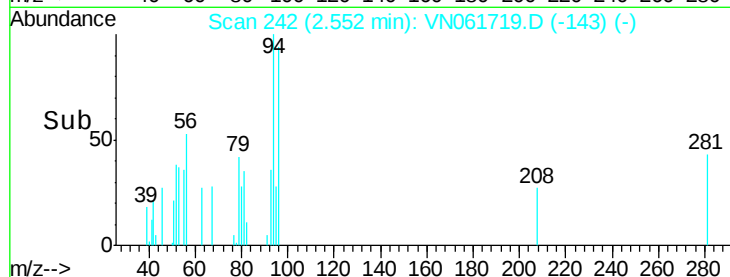


Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



Time-->



#10

Methyl Iodide

Concen: 0.337 ug/l

RT: 3.92 min Scan# 667

Delta R.T. 0.01 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

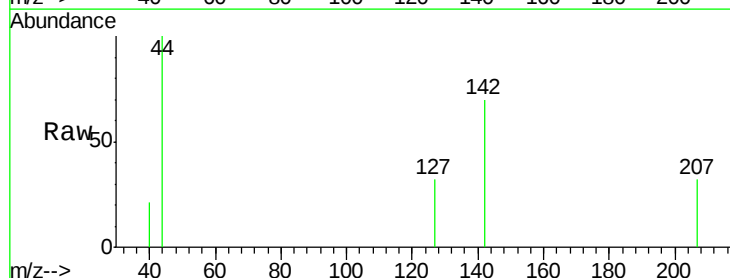
Tgt Ion: 142 Resp: 1238

Ion Ratio Lower Upper

142 100

127 22.8 35.5 53.3#

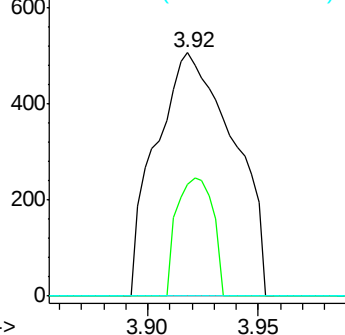
141 0.0 11.5 17.3#



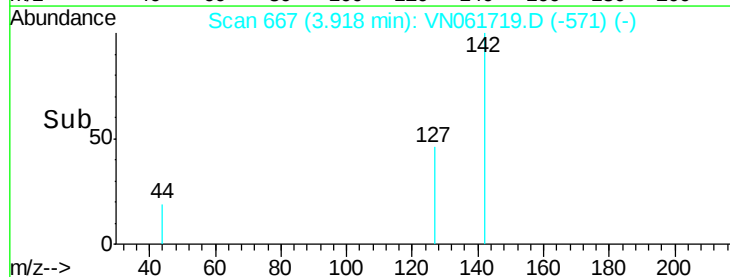
Abundance Ion 141.80 (141.50 to 142.50): V

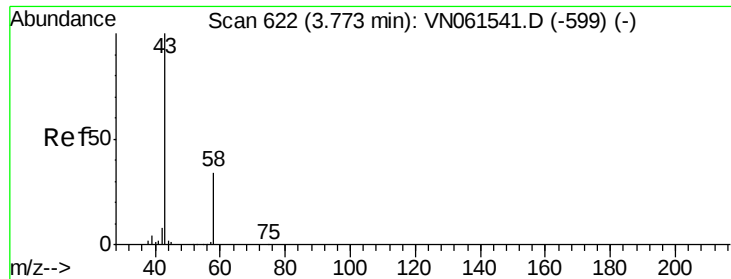
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->

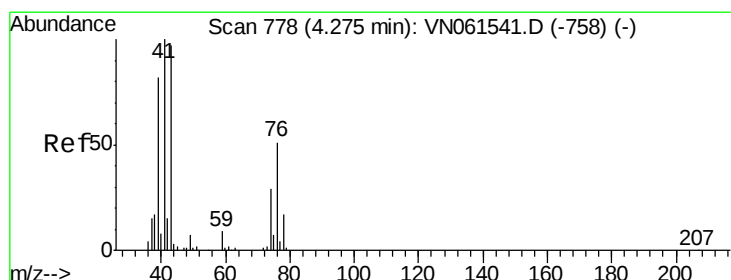
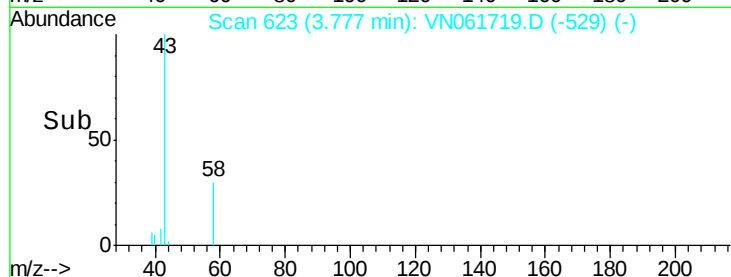
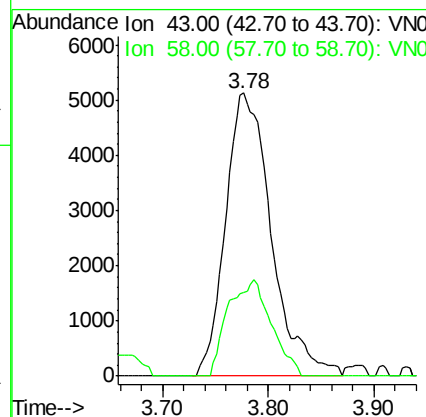
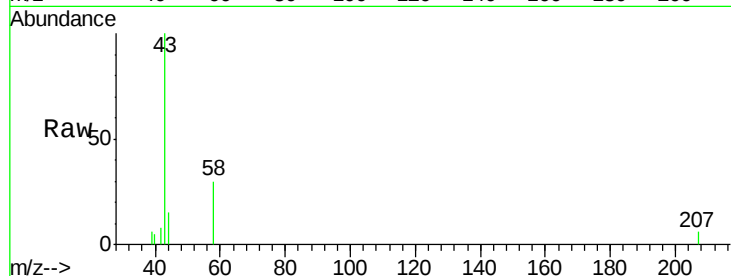




#16  
Acetone  
Concen: 11.062 ug/l  
RT: 3.78 min Scan# 623  
Delta R.T. 0.00 min  
Lab File: VN061719.D  
Acq: 9 Jun 2020 12:30

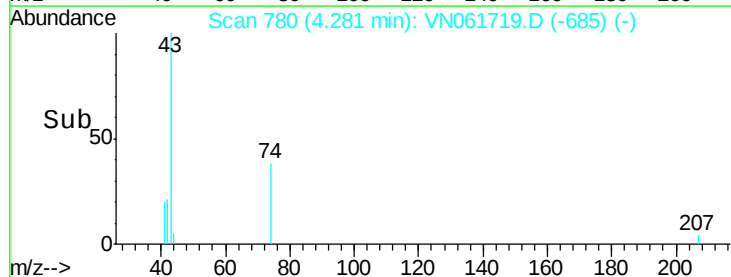
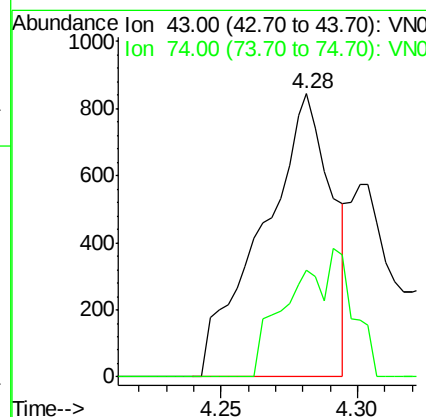
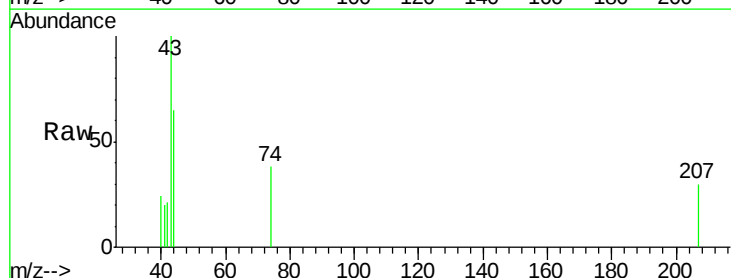
Instrument :  
MSVOA\_N  
ClientSampled :  
PB129410TB

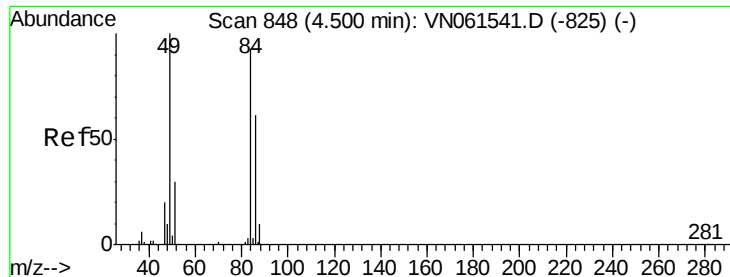
Tot Ion: 43 Resp: 15447  
Ion Ratio Lower Upper  
43 100  
58 29.8 27.2 40.8



#18  
Methyl Acetate  
Concen: 0.499 ug/l  
RT: 4.28 min Scan# 780  
Delta R.T. 0.01 min  
Lab File: VN061719.D  
Acq: 9 Jun 2020 12:30

Tgt Ion: 43 Resp: 1489  
Ion Ratio Lower Upper  
43 100  
74 24.6 23.2 34.8





#20

Methvlene Chloride

Concen: 1.336 ug/l

RT: 4.51 min Scan# 852

Delta R.T. 0.01 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

Instrument :

MSVOA\_N

ClientSampleId :

PB129410TB

Tot Ion: 84 Resp: 9085

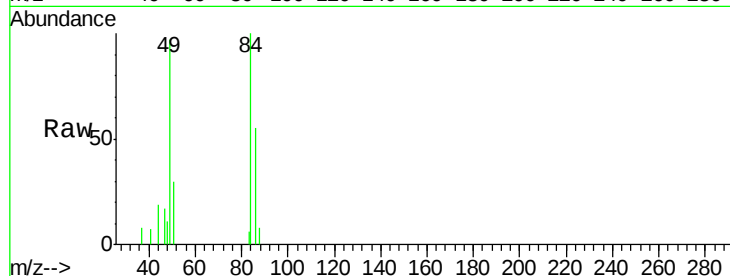
Ion Ratio Lower Upper

84 100

49 96.5 85.8 128.8

51 29.6 26.2 39.2

86 55.3 52.6 78.8

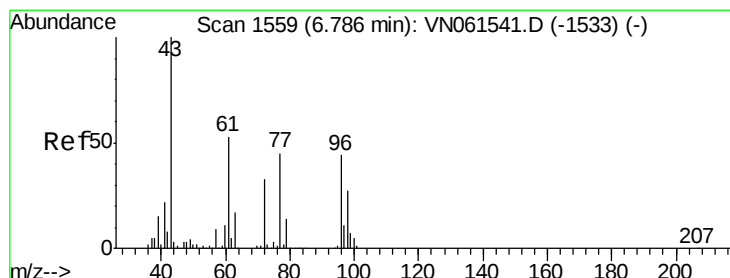
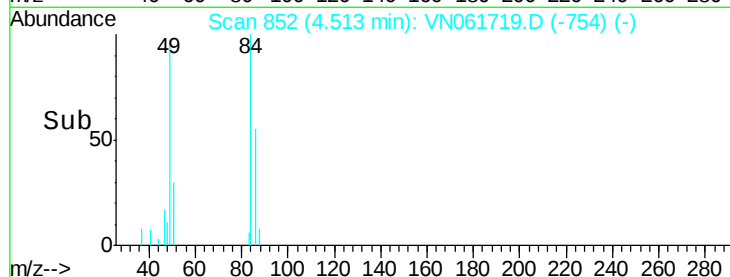
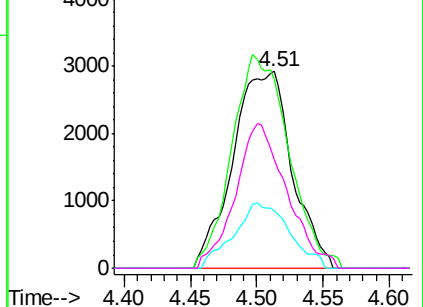


Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 2.155 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.01 min

Lab File: VN061719.D

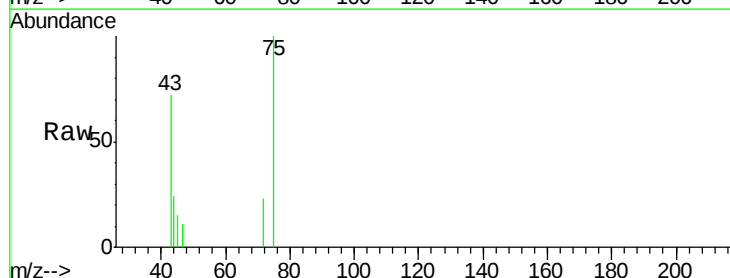
Acq: 9 Jun 2020 12:30

Tgt Ion: 43 Resp: 3370

Ion Ratio Lower Upper

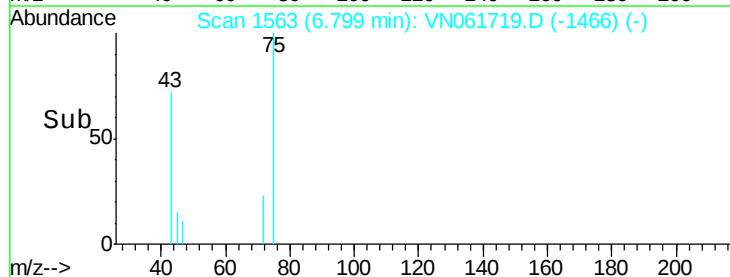
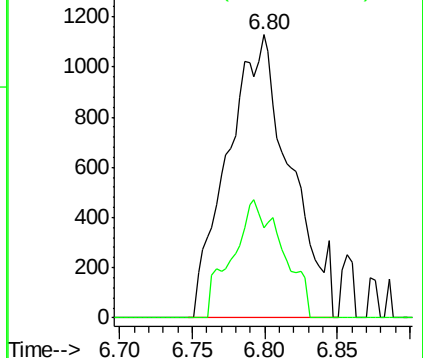
43 100

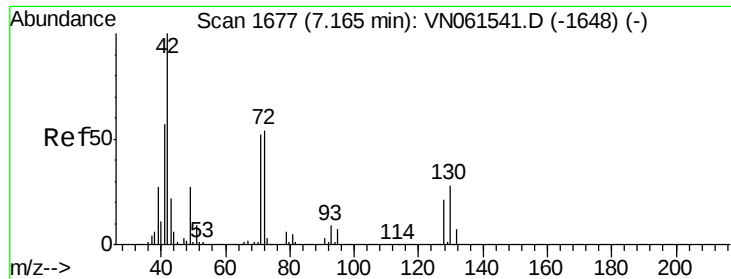
72 31.6 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

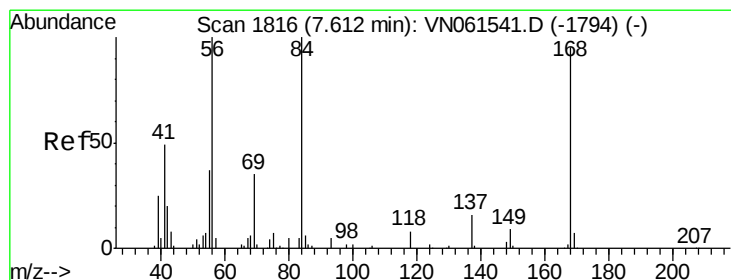
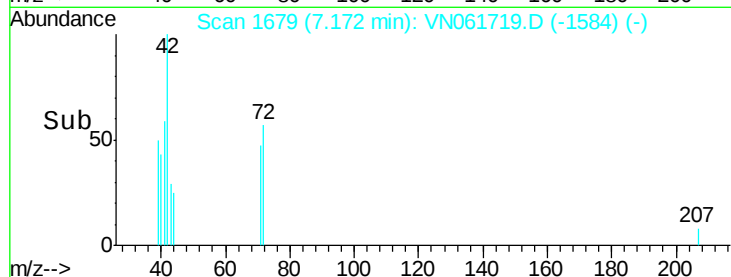
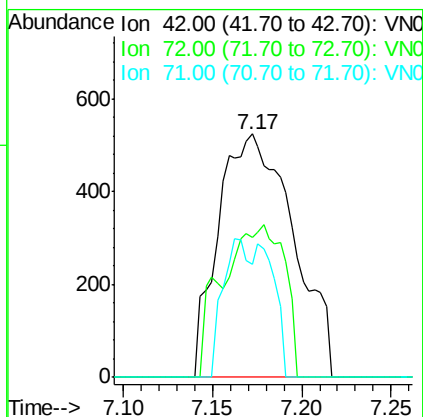
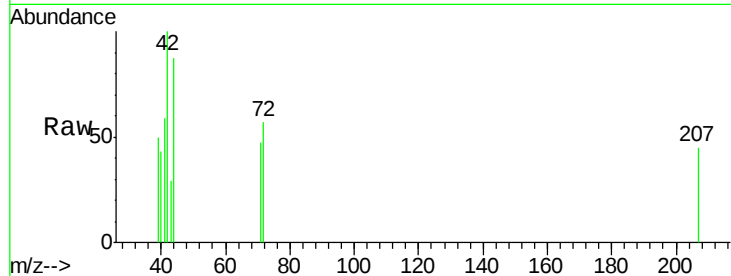




#29  
Tetrahydrofuran  
Concen: 1.481 ug/l  
RT: 7.17 min Scan# 1679  
Delta R.T. 0.01 min  
Lab File: VN061719.D  
Acq: 9 Jun 2020 12:30

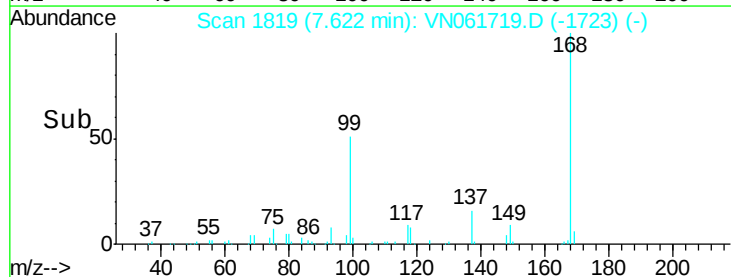
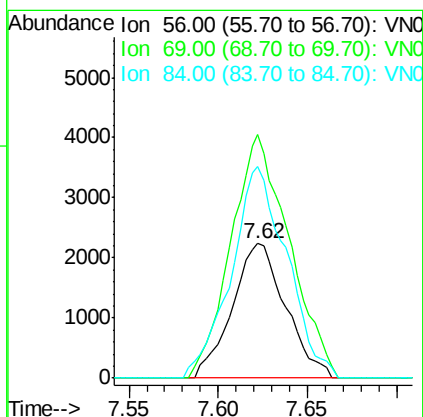
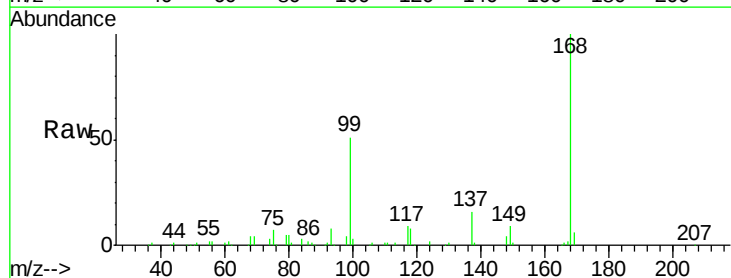
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB129410TB

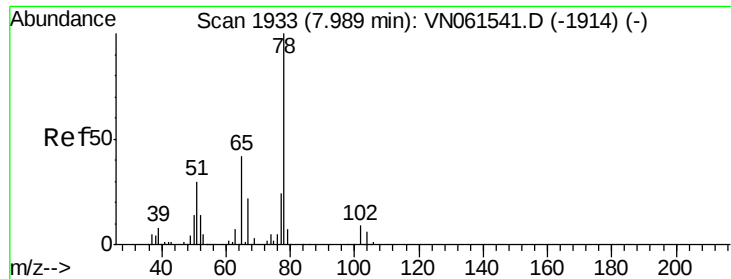
Tot Ion: 42 Resp: 1527  
Ion Ratio Lower Upper  
42 100  
72 41.8 43.6 65.4#  
71 21.4 41.2 61.8#



#31  
Cyclohexane  
Concen: 1.000 ug/l  
RT: 7.62 min Scan# 1819  
Delta R.T. 0.01 min  
Lab File: VN061719.D  
Acq: 9 Jun 2020 12:30

Tgt Ion: 56 Resp: 4651  
Ion Ratio Lower Upper  
56 100  
69 181.1 27.8 41.8#  
84 157.2 79.9 119.9#

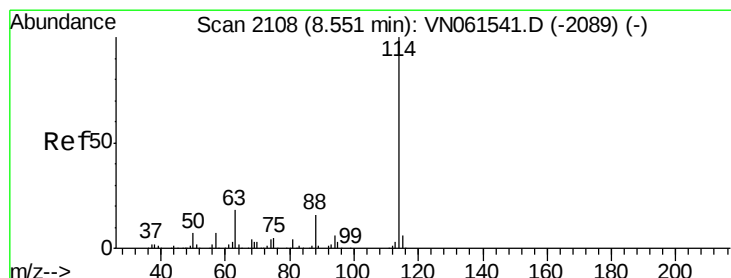
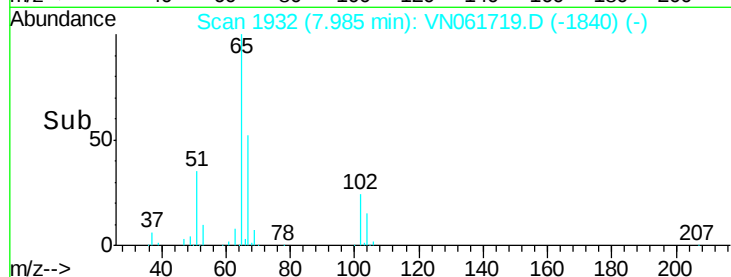
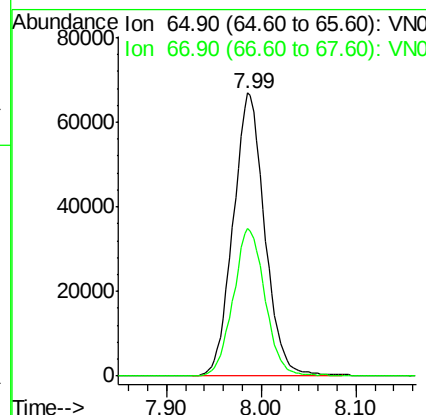
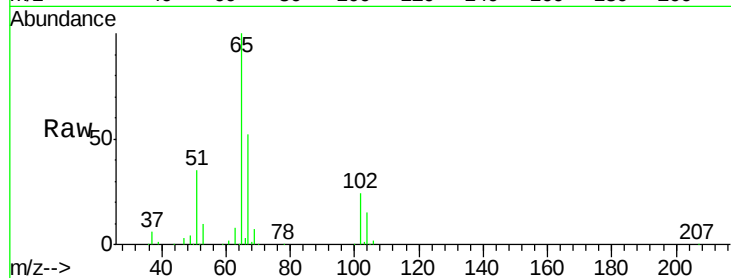




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.020 ug/l  
 RT: 7.99 min Scan# 1932  
 Delta R.T. -0.00 min  
 Lab File: VN061719.D  
 Acq: 9 Jun 2020 12:30

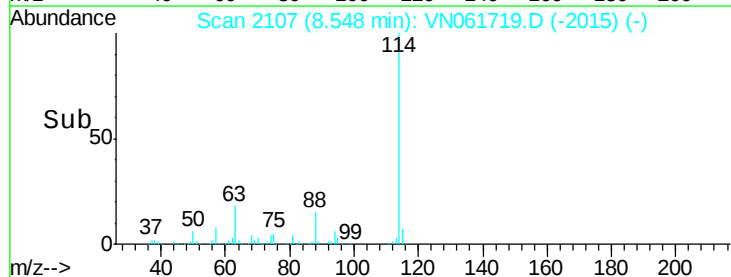
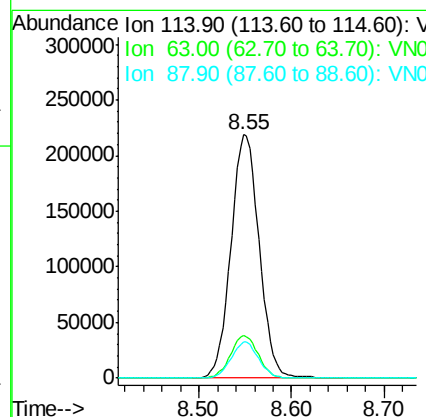
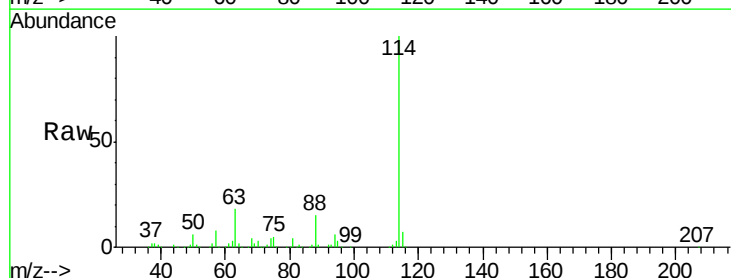
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB129410TB

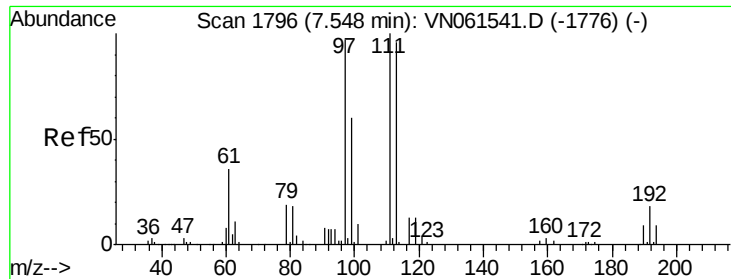
Tot Ion: 65 Resp: 155132  
 Ion Ratio Lower Upper  
 65 100  
 67 52.3 0.0 104.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2107  
 Delta R.T. -0.00 min  
 Lab File: VN061719.D  
 Acq: 9 Jun 2020 12:30

Tgt Ion: 114 Resp: 462204  
 Ion Ratio Lower Upper  
 114 100  
 63 17.6 0.0 35.8  
 88 14.9 0.0 31.0

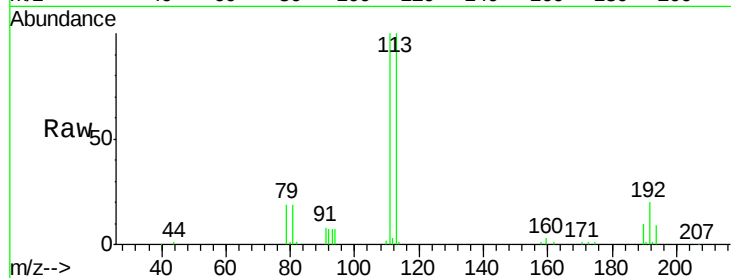




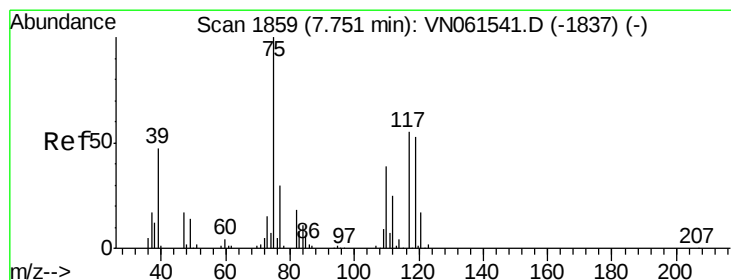
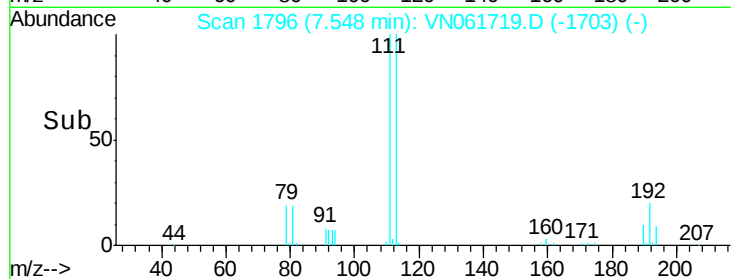
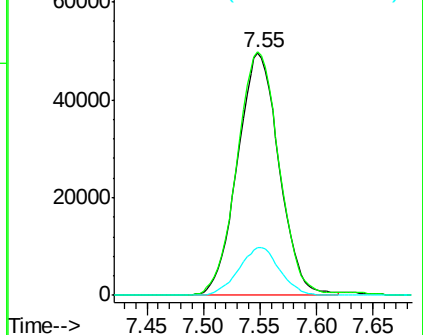
#35  
 Dibromofluoromethane  
 Concen: 54.007 ug/l  
 RT: 7.55 min Scan# 1796  
 Delta R.T. 0.00 min  
 Lab File: VN061719.D  
 Acq: 9 Jun 2020 12:30

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB129410TB

Tot Ion:113 Resp: 126630  
 Ion Ratio Lower Upper  
 113 100  
 111 102.1 83.4 125.0  
 192 19.5 15.4 23.2

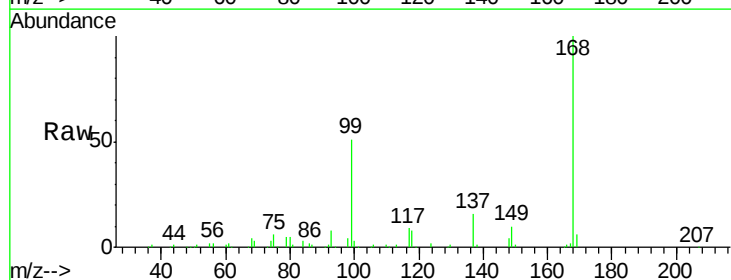


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

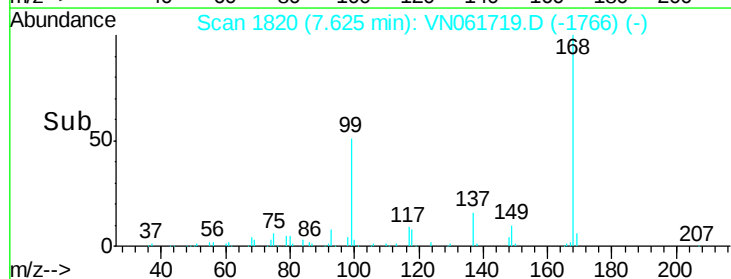
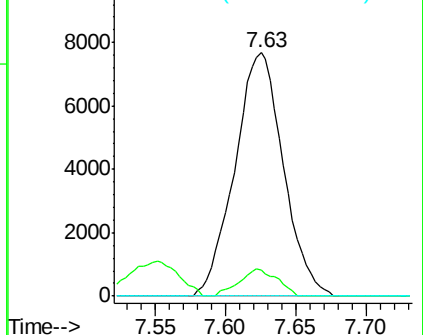


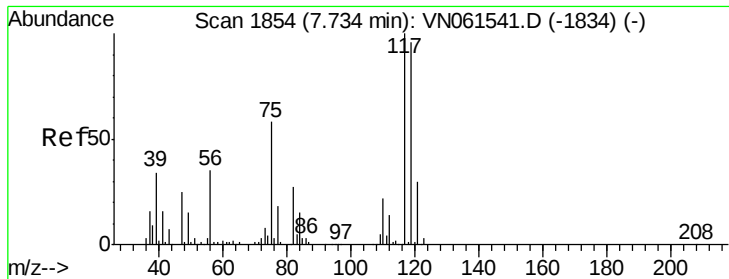
#36  
 1,1-Dichloropropene  
 Concen: 4.509 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.13 min  
 Lab File: VN061719.D  
 Acq: 9 Jun 2020 12:30

Tgt Ion: 75 Resp: 18451  
 Ion Ratio Lower Upper  
 75 100  
 110 8.7 19.5 58.5#  
 77 0.0 24.7 37.1#



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





#38

Carbon Tetrachloride

Concen: 6.579 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

Instrument :

MSVOA\_N

ClientSampled :

PB129410TB

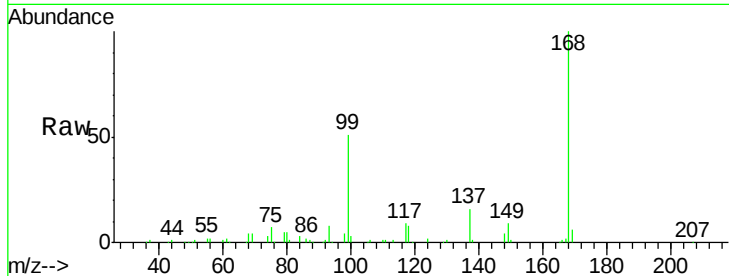
Tot Ion:117 Resp: 25965

Ion Ratio Lower Upper

117 100

119 5.0 76.5 114.7#

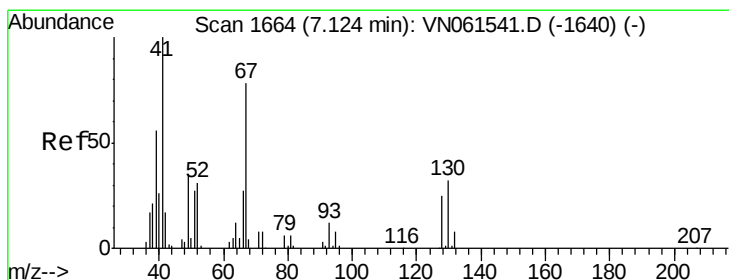
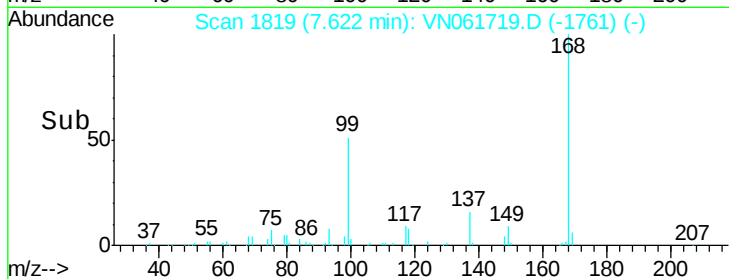
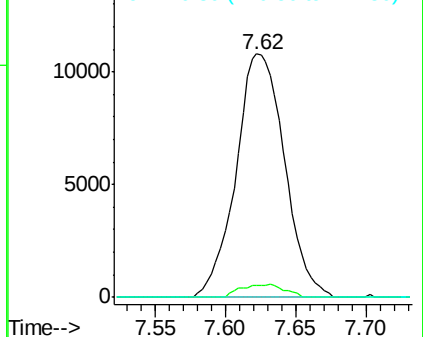
121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 0.268 ug/l

RT: 7.16 min Scan# 1675

Delta R.T. 0.04 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

Tgt Ion: 41 Resp: 404

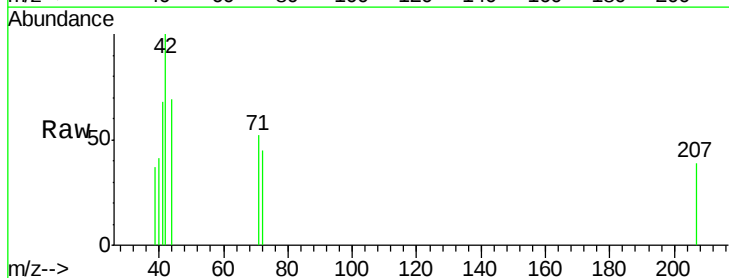
Ion Ratio Lower Upper

41 100

39 31.7 53.8 80.6#

67 0.0 91.1 136.7#

52 0.0 36.0 54.0#

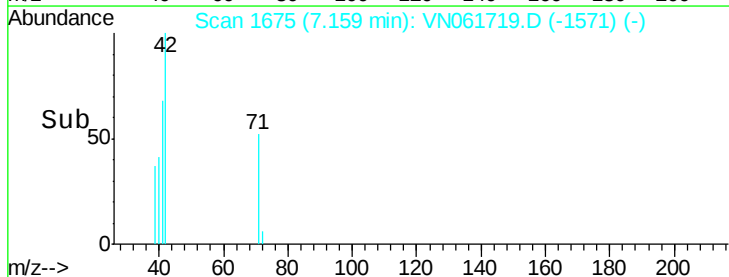
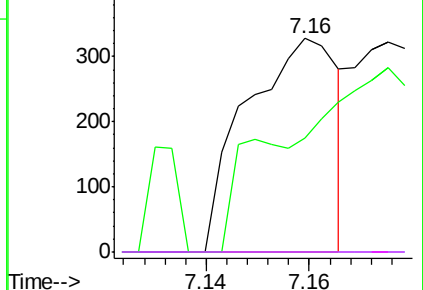


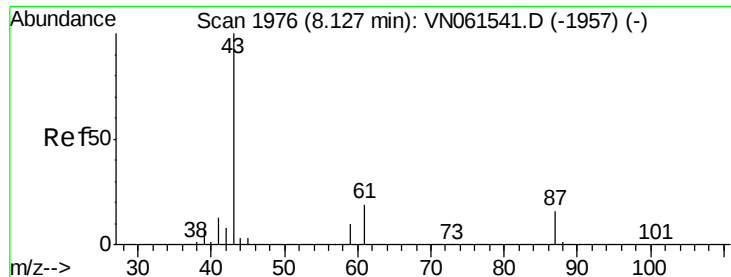
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 11.297 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

Instrument :

MSVOA\_N

ClientSampleId :

PB129410TB

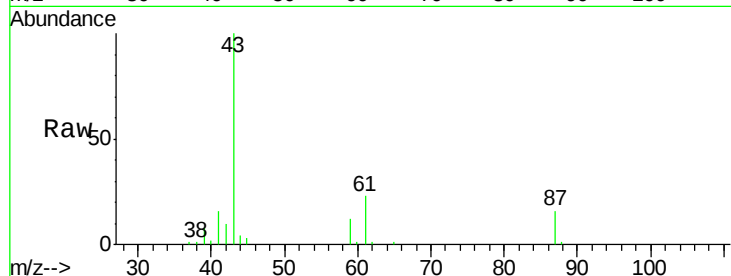
Tot Ion: 43 Resp: 66979

Ion Ratio Lower Upper

43 100

61 22.8 23.6 35.4#

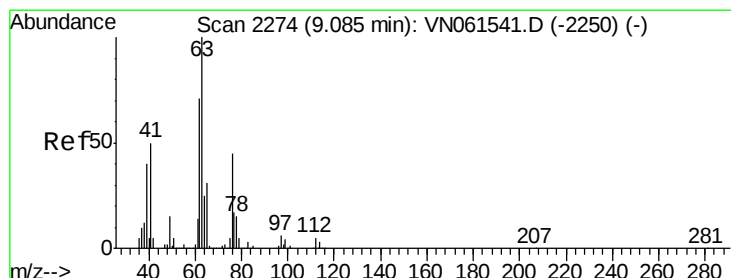
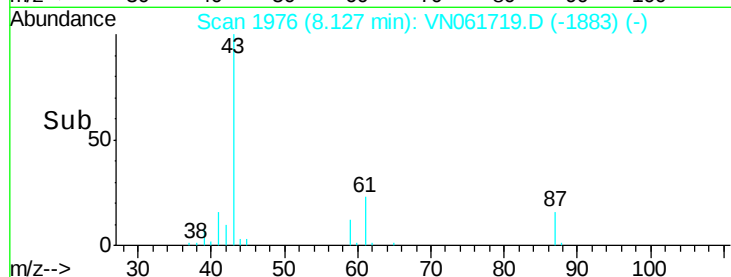
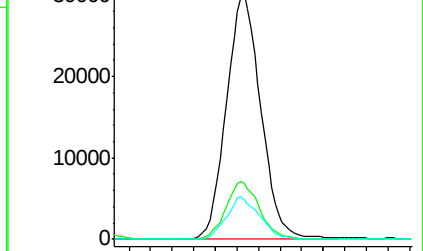
87 16.4 13.0 19.6



Abundance Ion 43.00 (42.70 to 43.70): VN061719.D (-1883) (-)

Ion 61.00 (60.70 to 61.70): VN061719.D (-1883) (-)

Ion 87.00 (86.70 to 87.70): VN061719.D (-1883) (-)



#45

1,2-Dichloropropane

Concen: 0.523 ug/l

RT: 9.24 min Scan# 2322

Delta R.T. 0.15 min

Lab File: VN061719.D

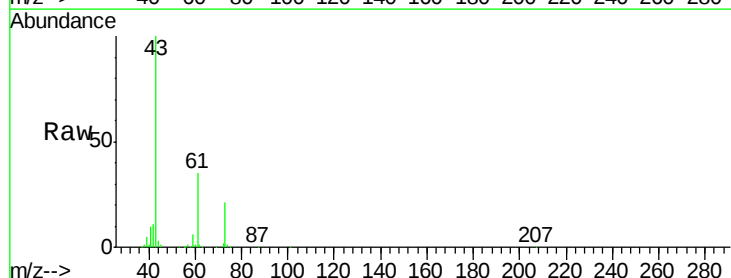
Acq: 9 Jun 2020 12:30

Tgt Ion: 63 Resp: 1568

Ion Ratio Lower Upper

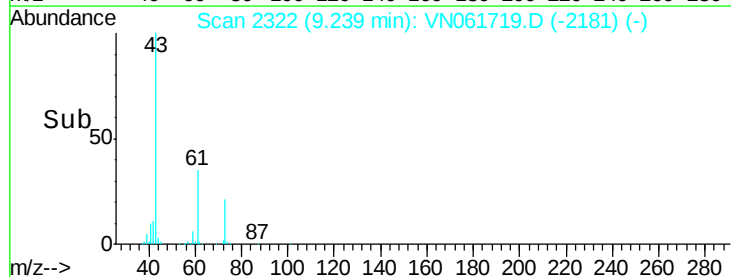
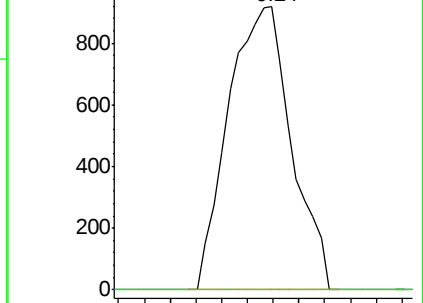
63 100

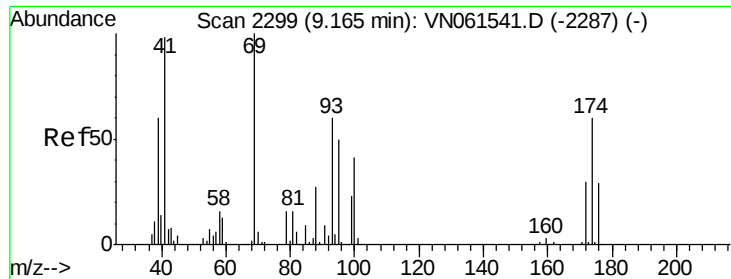
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN061719.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN061719.D (-2181) (-)

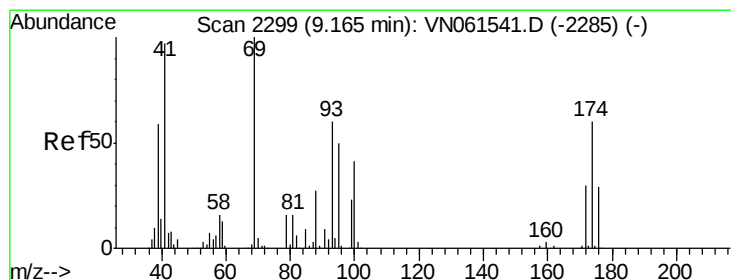
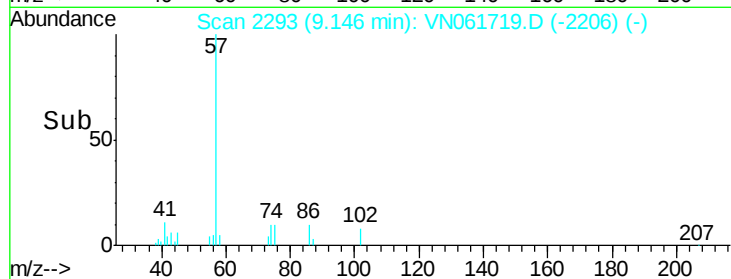
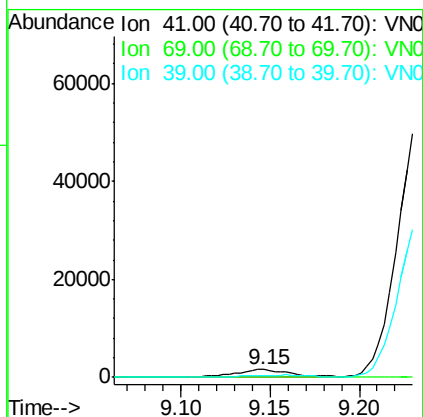
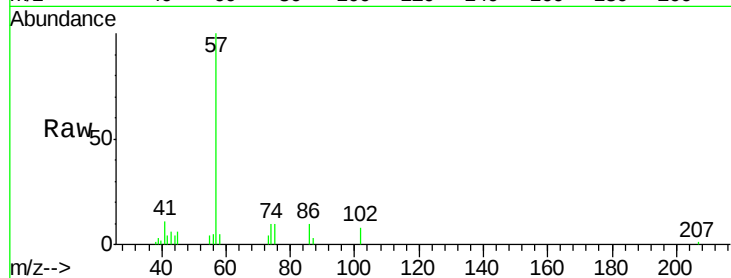




#48  
Methvl methacrylate  
Concen: 1.262 ug/l  
RT: 9.15 min Scan# 2293  
Delta R.T. -0.02 min  
Lab File: VN061719.D  
Acq: 9 Jun 2020 12:30

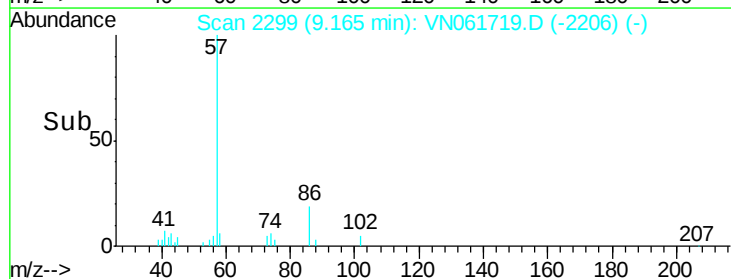
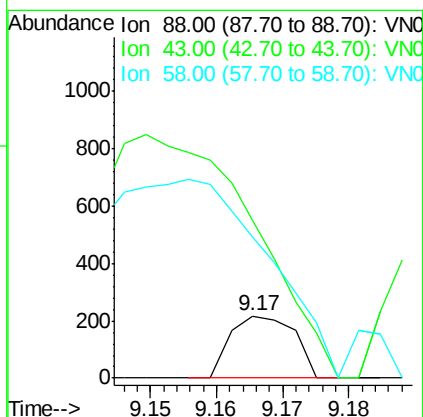
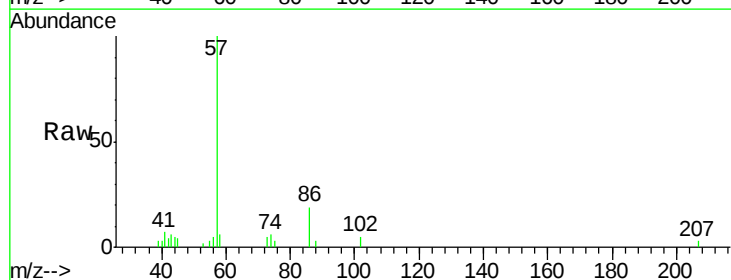
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB129410TB

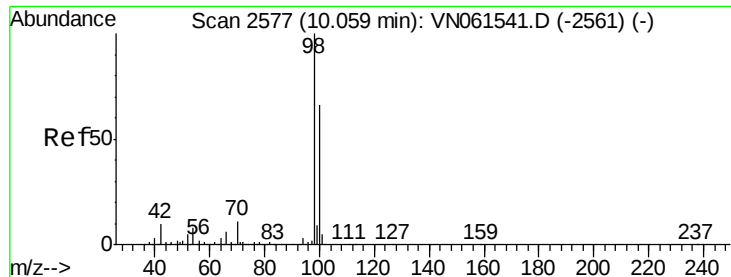
Tot Ion: 41 Resp: 3367  
Ion Ratio Lower Upper  
41 100  
69 0.0 83.9 125.9#  
39 0.0 52.1 78.1#



#49  
1,4-Dioxane  
Concen: 3.533 ug/l  
RT: 9.17 min Scan# 2299  
Delta R.T. 0.00 min  
Lab File: VN061719.D  
Acq: 9 Jun 2020 12:30

Tgt Ion: 88 Resp: 146  
Ion Ratio Lower Upper  
88 100  
43 0.0 23.1 34.7#  
58 890.4 48.3 72.5#





#50

Toluene-d8

Concen: 52.265 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

Instrument :

MSVOA\_N

ClientSampleId :

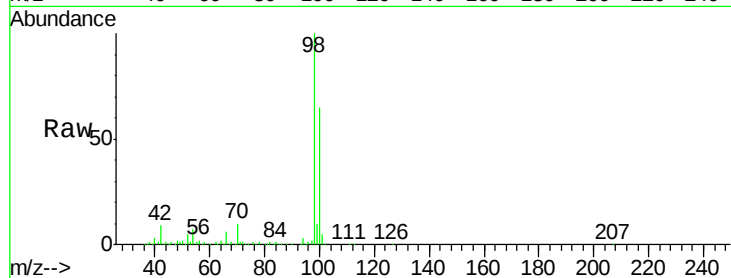
PB129410TB

Tot Ion: 98 Resp: 567886

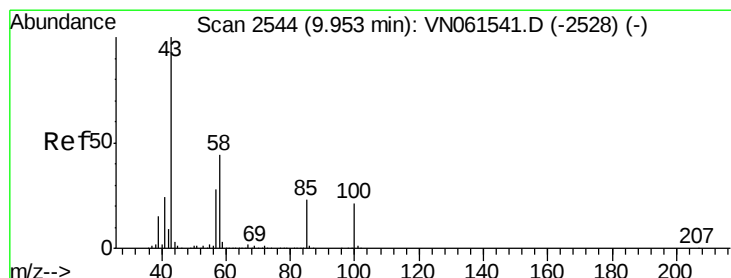
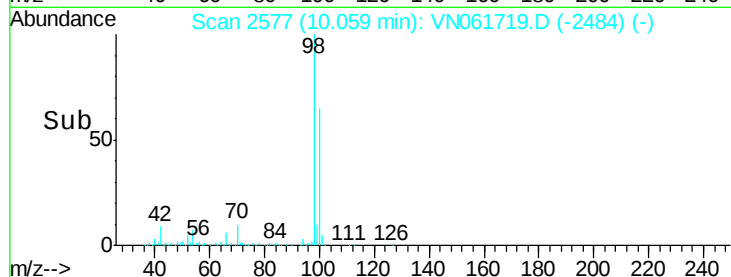
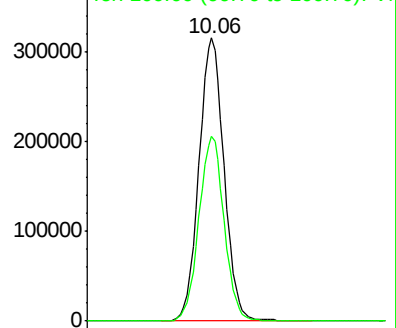
Ion Ratio Lower Upper

98 100

100 65.5 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061541.D (-2561) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.069 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN061719.D

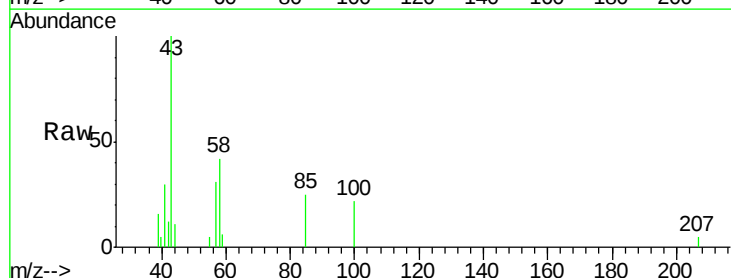
Acq: 9 Jun 2020 12:30

Tgt Ion: 43 Resp: 6913

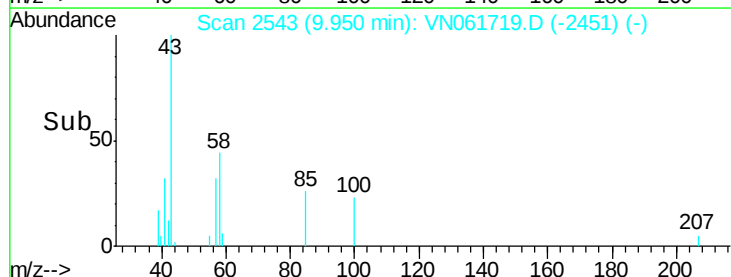
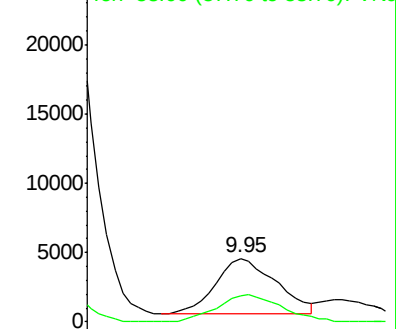
Ion Ratio Lower Upper

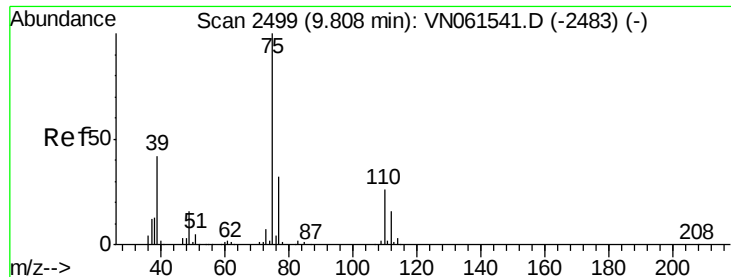
43 100

58 52.2 35.0 52.6



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-2528) (-)





#54

cis-1,3-Dichloropropene

Concen: 7.136 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

Instrument :

MSVOA\_N

ClientSampleId :

PB129410TB

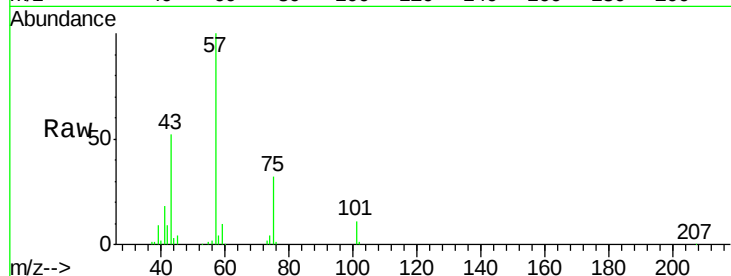
Tot Ion: 75 Resp: 37651

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

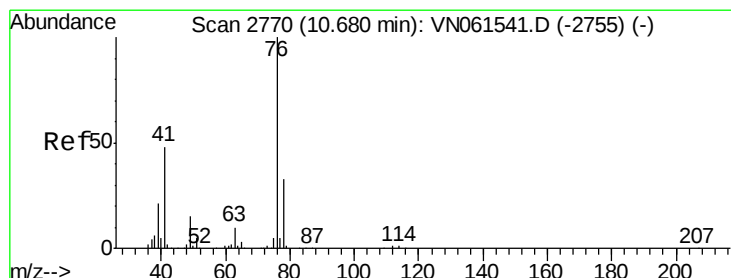
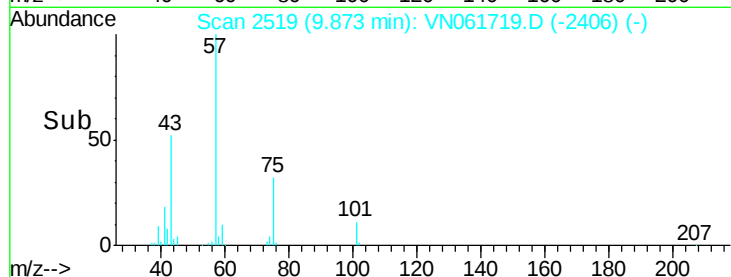
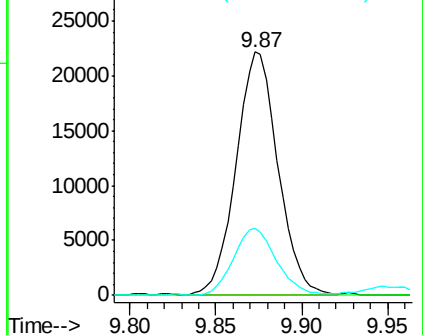
39 27.3 33.8 50.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.270 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.05 min

Lab File: VN061719.D

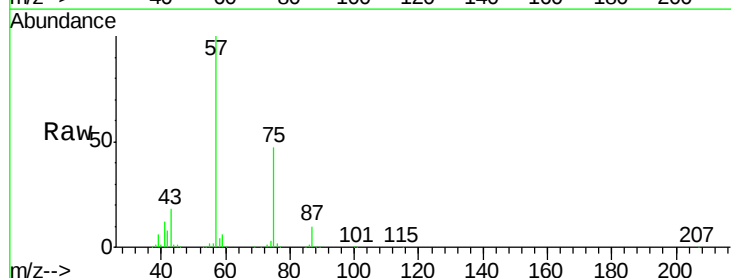
Acq: 9 Jun 2020 12:30

Tgt Ion: 76 Resp: 6667

Ion Ratio Lower Upper

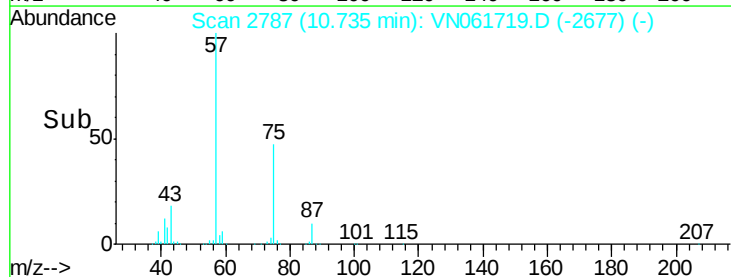
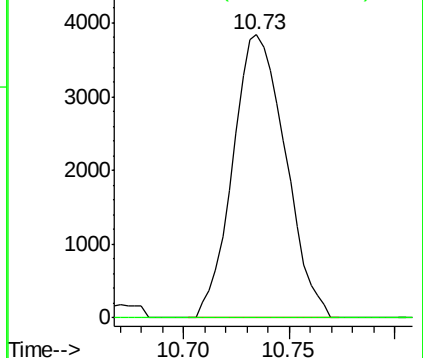
76 100

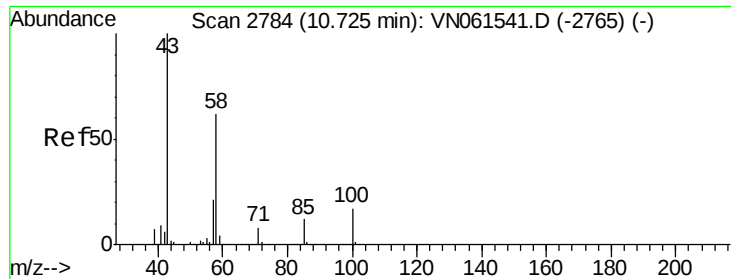
78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

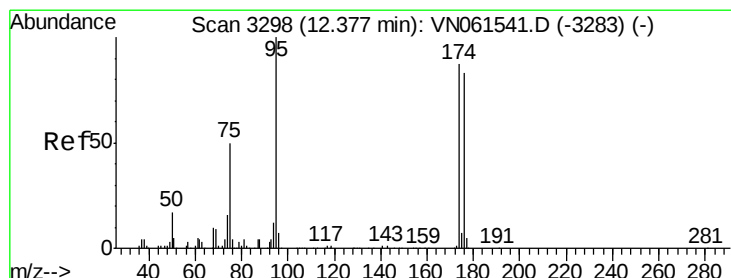
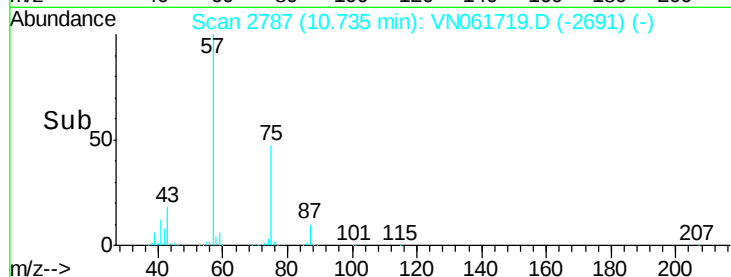
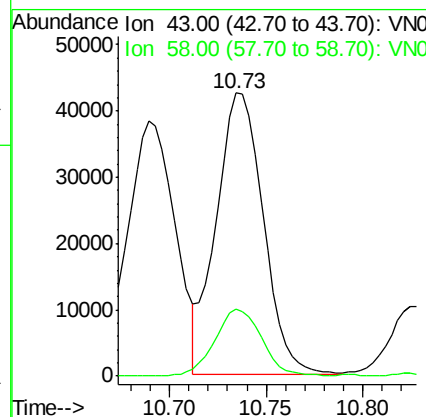
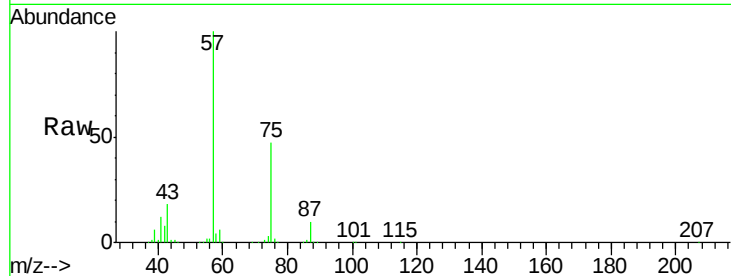




#59  
2-Hexanone  
Concen: 29.957 ug/l  
RT: 10.73 min Scan# 2787  
Delta R.T. 0.01 min  
Lab File: VN061719.D  
Acq: 9 Jun 2020 12:30

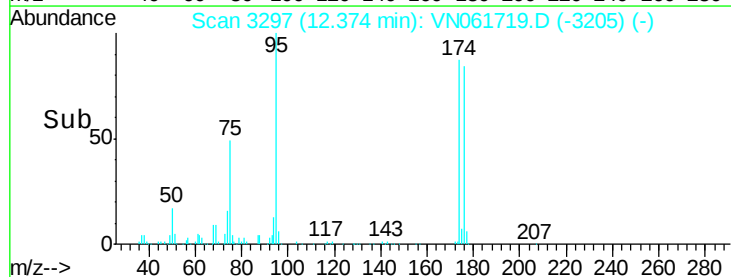
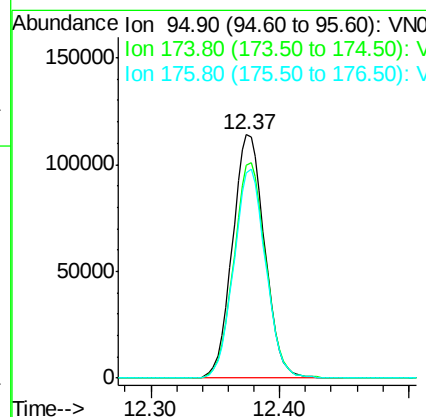
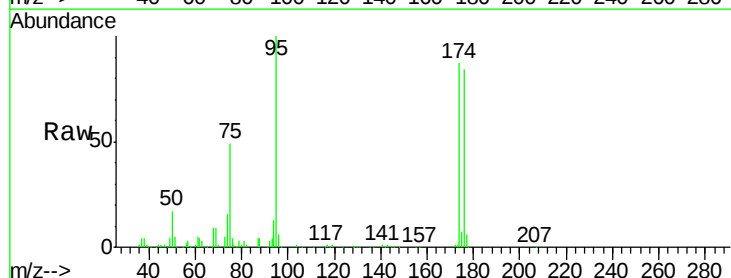
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB129410TB

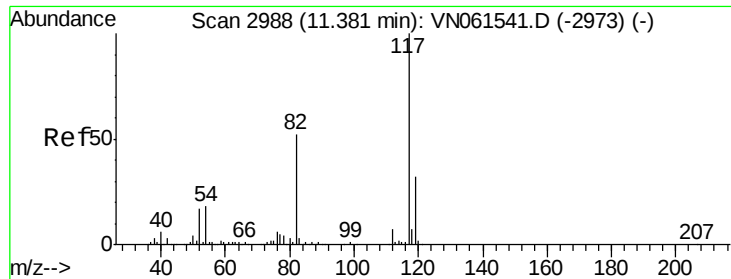
Tot Ion: 43 Resp: 71885  
Ion Ratio Lower Upper  
43 100  
58 23.8 30.7 92.1#



#62  
4-Bromofluorobenzene  
Concen: 49.770 ug/l  
RT: 12.37 min Scan# 3297  
Delta R.T. -0.00 min  
Lab File: VN061719.D  
Acq: 9 Jun 2020 12:30

Tgt Ion: 95 Resp: 197295  
Ion Ratio Lower Upper  
95 100  
174 88.0 0.0 172.8  
176 84.8 0.0 164.8

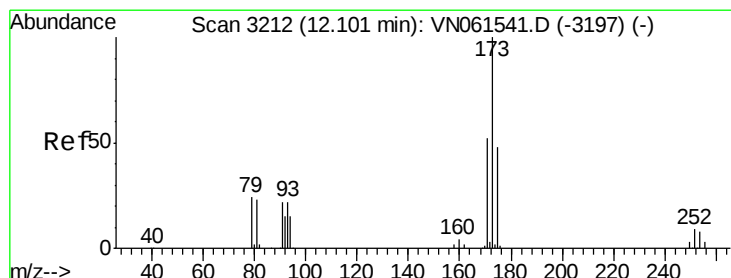
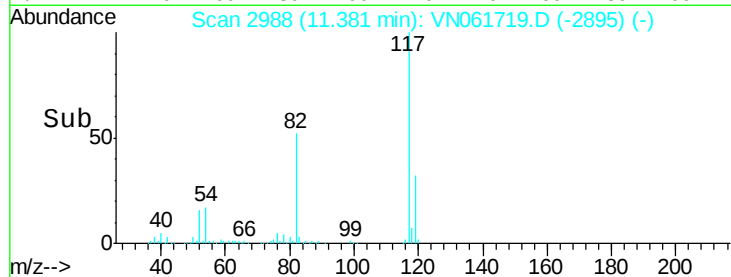
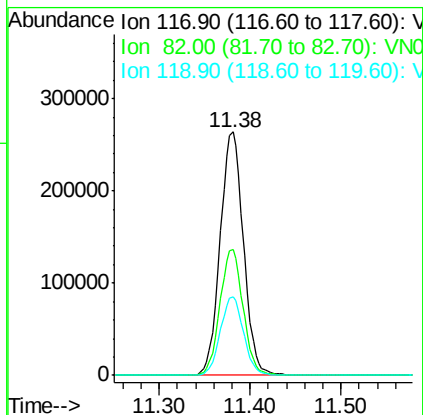
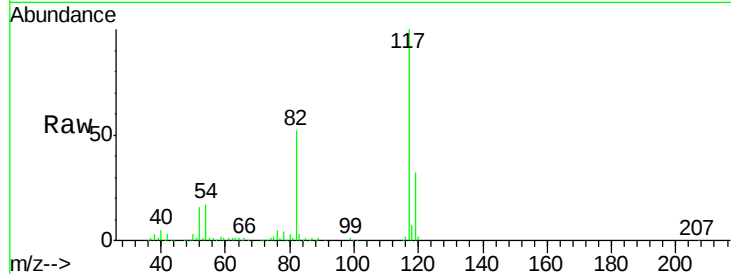




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. 0.00 min  
Lab File: VN061719.D  
Acq: 9 Jun 2020 12:30

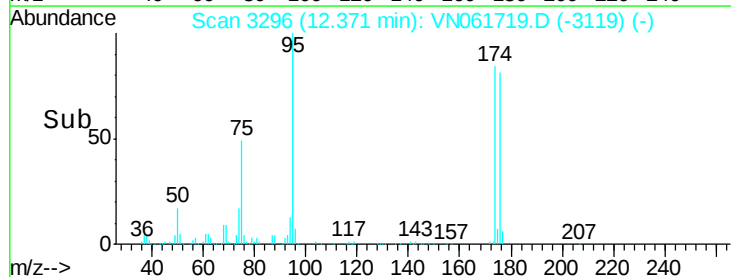
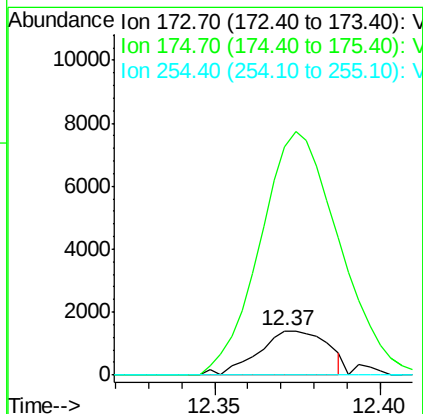
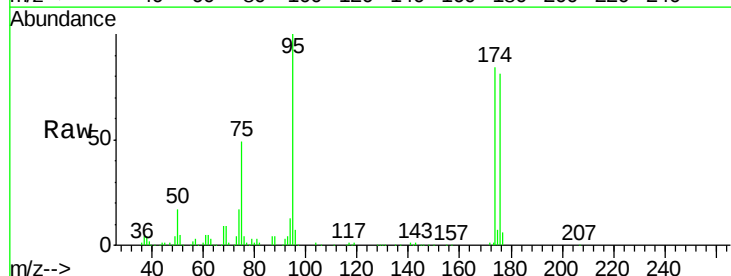
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB129410TB

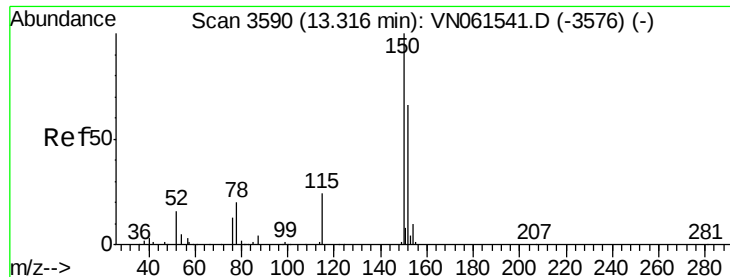
Tot Ion:117 Resp: 469757  
Ion Ratio Lower Upper  
117 100  
82 51.6 41.5 62.3  
119 32.2 25.6 38.4



#71  
Bromoform  
Concen: 0.722 ug/l  
RT: 12.37 min Scan# 3296  
Delta R.T. 0.27 min  
Lab File: VN061719.D  
Acq: 9 Jun 2020 12:30

Tgt Ion:173 Resp: 2022  
Ion Ratio Lower Upper  
173 100  
175 547.3 24.4 73.2#  
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: VN061719.D

Acq: 9 Jun 2020 12:30

Instrument :

MSVOA\_N

ClientSampleId :

PB129410TB

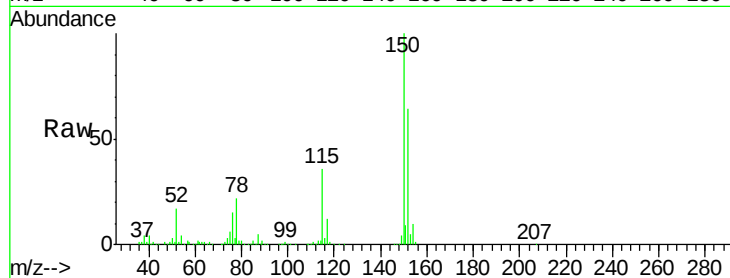
Tot Ion:152 Resp: 201728

Ion Ratio Lower Upper

152 100

115 56.7 28.0 84.0

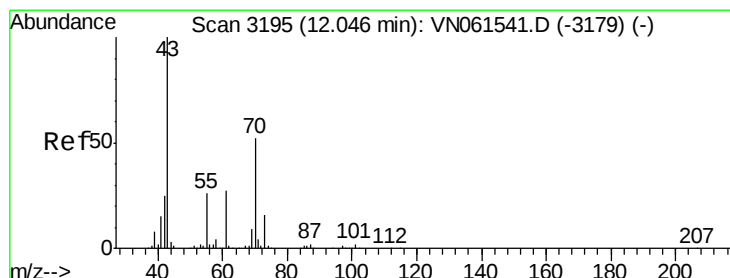
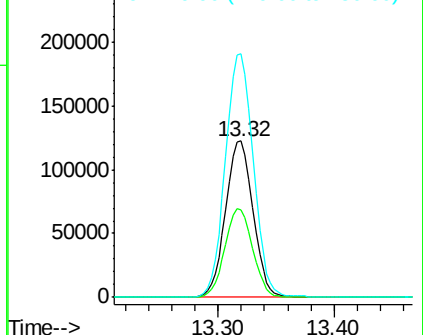
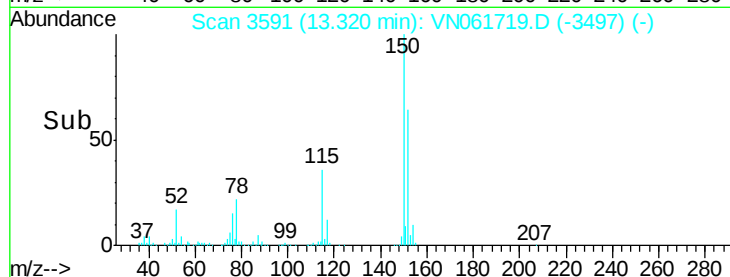
150 157.7 0.0 344.0



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-ethyl acetate

Concen: 0.286 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

Tgt Ion: 43 Resp: 1325

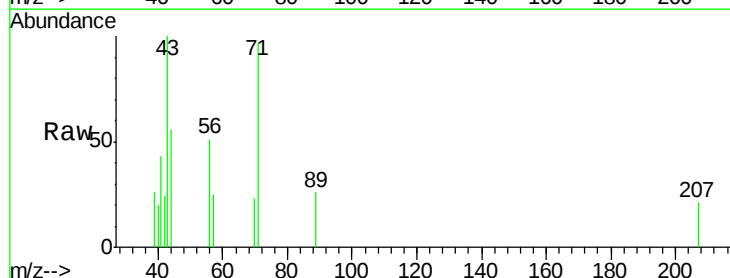
Ion Ratio Lower Upper

43 100

70 12.0 40.5 60.7#

55 0.0 20.6 31.0#

61 0.0 21.8 32.6#

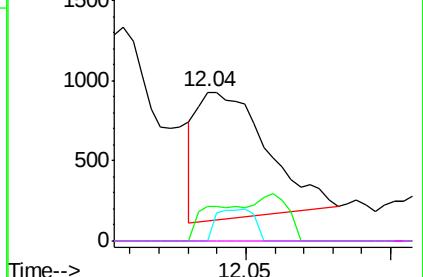
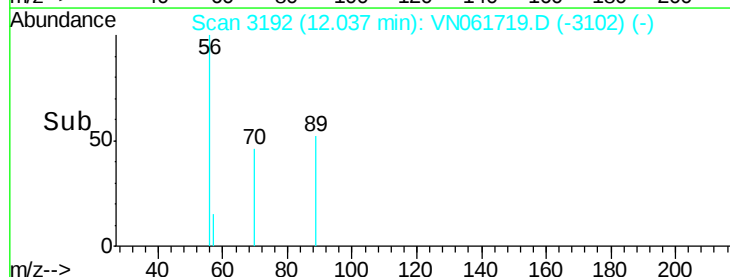


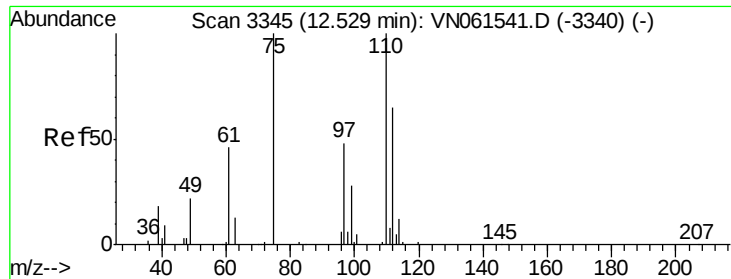
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 26.442 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

Instrument :

MSVOA\_N

ClientSampled :

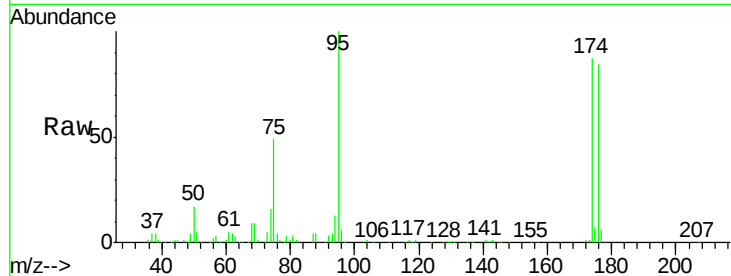
PB129410TB

Tot Ion: 75 Resp: 96995

Ion Ratio Lower Upper

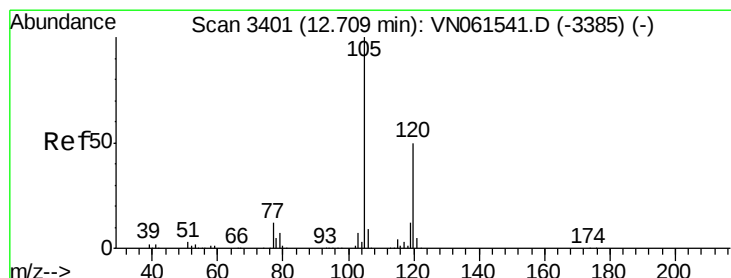
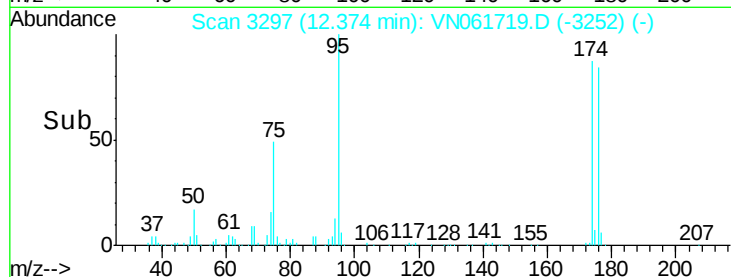
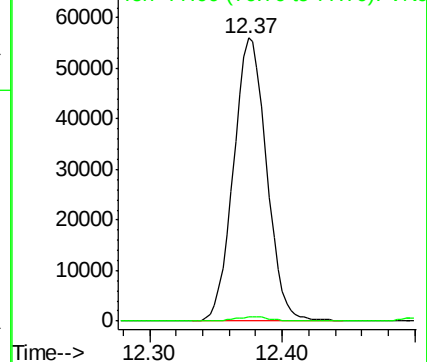
75 100

77 1.5 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: 0.377 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN061719.D

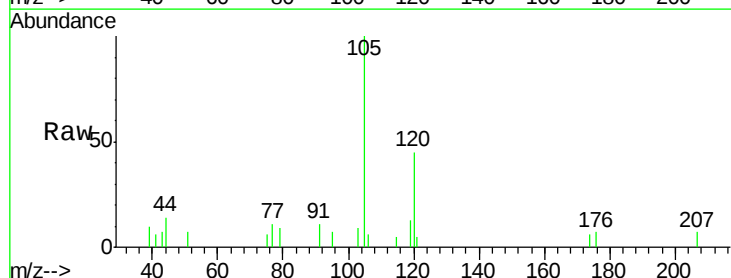
Acq: 9 Jun 2020 12:30

Tgt Ion: 105 Resp: 4644

Ion Ratio Lower Upper

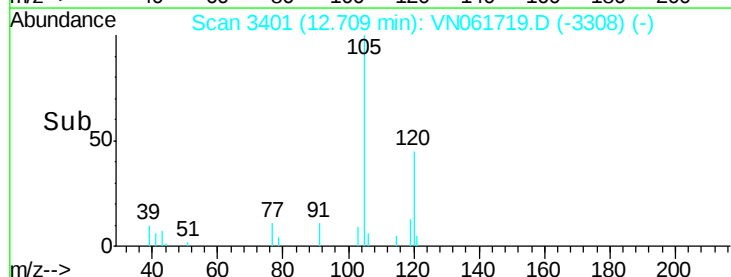
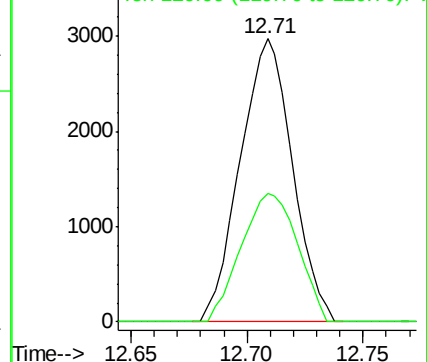
105 100

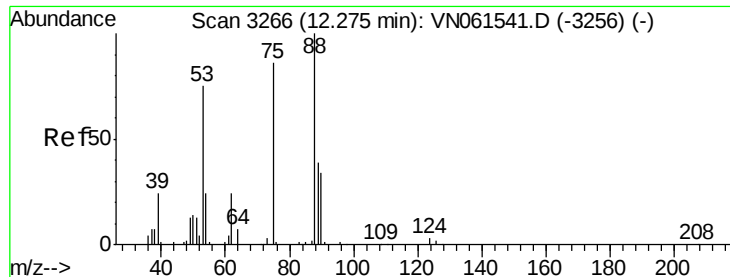
120 48.9 25.1 75.2



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: 67.620 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

Instrument :

MSVOA\_N

ClientSampleId :

PB129410TB

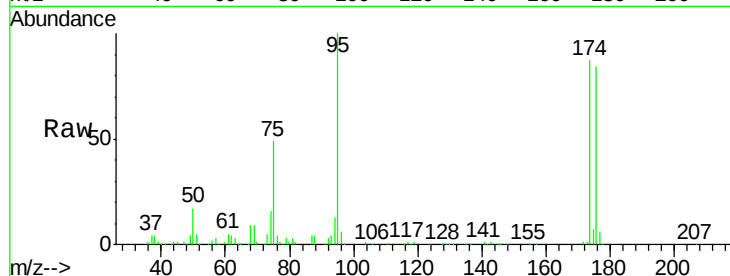
Tot Ion: 75 Resp: 96995

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

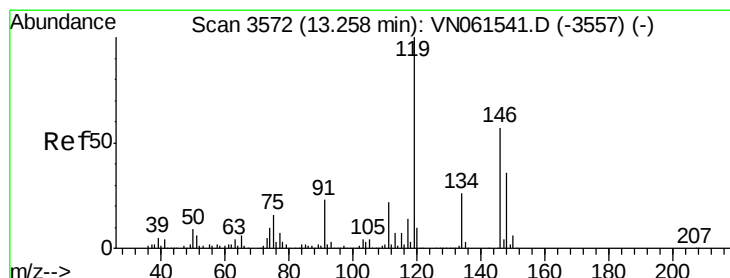
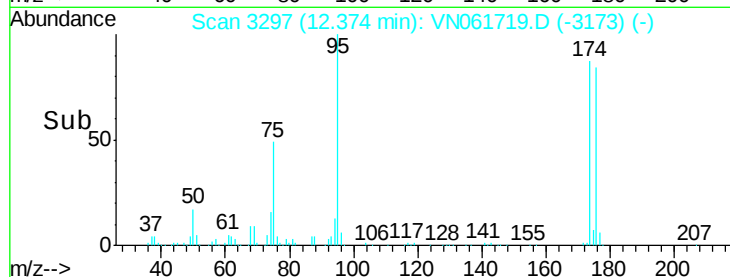
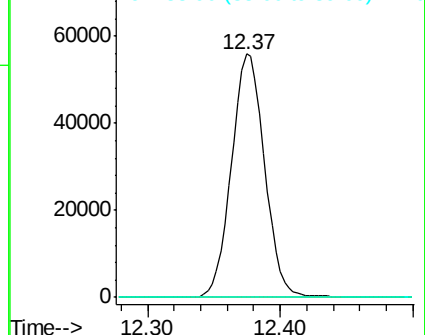
89 0.0 37.1 55.7#



Abundance Ion 74.90 (74.60 to 75.60): VN061719.D (-3297) (-)

Ion 53.00 (52.70 to 53.70): VN061719.D (-3297) (-)

Ion 88.90 (88.60 to 89.60): VN061719.D (-3297) (-)



#87

1,3-Dichlorobenzene

Concen: 0.265 ug/l

RT: 13.26 min Scan# 3571

Delta R.T. -0.00 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

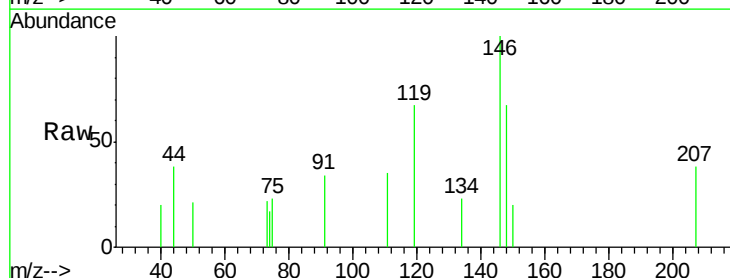
Tgt Ion: 146 Resp: 1766

Ion Ratio Lower Upper

146 100

111 30.5 19.2 57.6

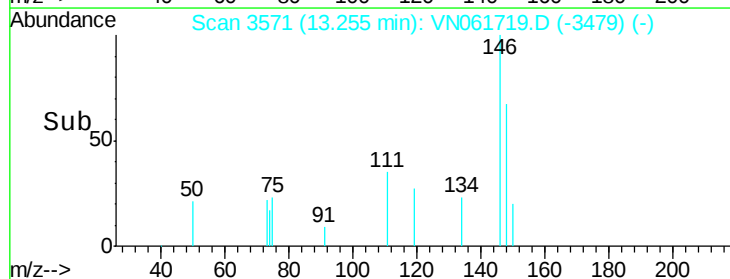
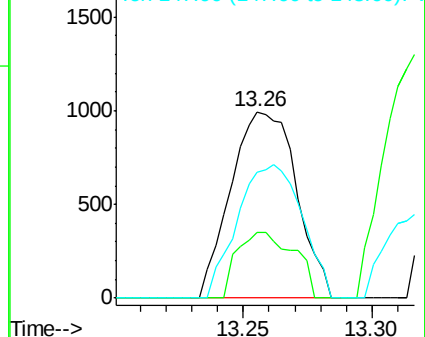
148 70.3 31.7 95.1

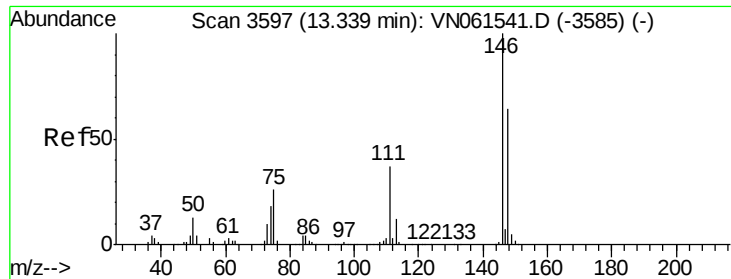


Abundance Ion 145.90 (145.60 to 146.60): VN061719.D (-3572) (-)

Ion 110.90 (110.60 to 111.60): VN061719.D (-3572) (-)

Ion 147.90 (147.60 to 148.60): VN061719.D (-3572) (-)

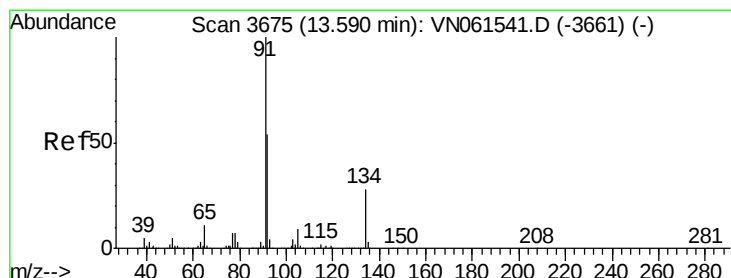
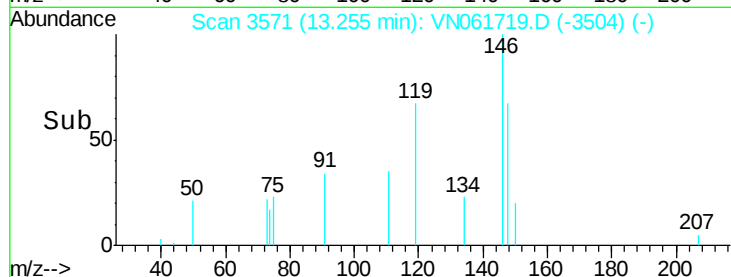
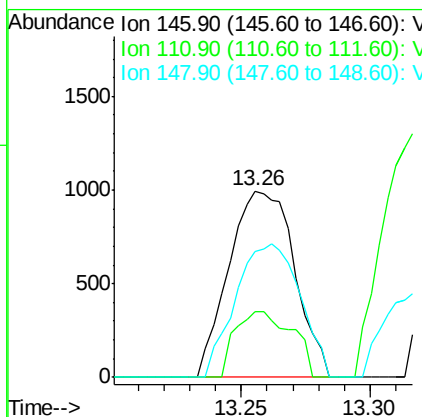
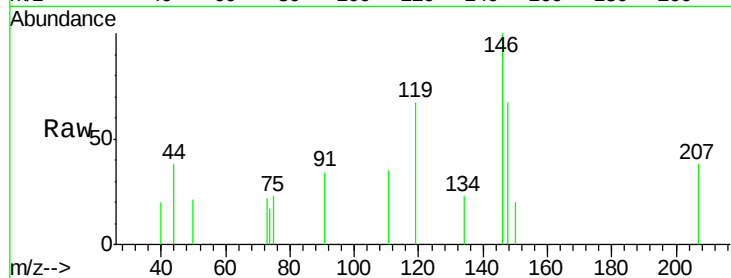




#88  
 1,4-Dichlorobenzene  
 Concen: 0.260 ug/l  
 RT: 13.26 min Scan# 3571  
 Delta R.T. -0.08 min  
 Lab File: VN061719.D  
 Acq: 9 Jun 2020 12:30

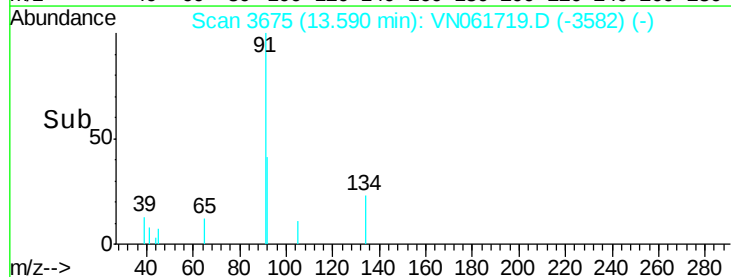
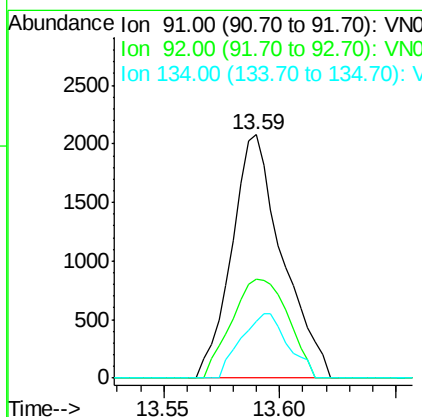
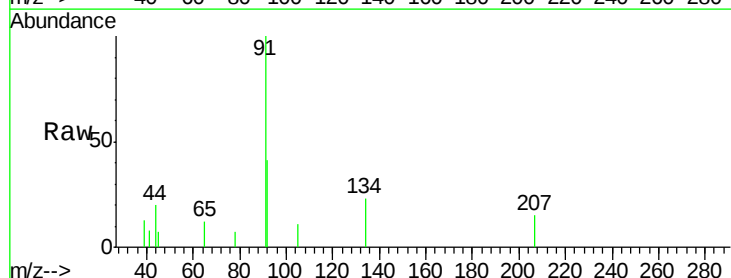
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB129410TB

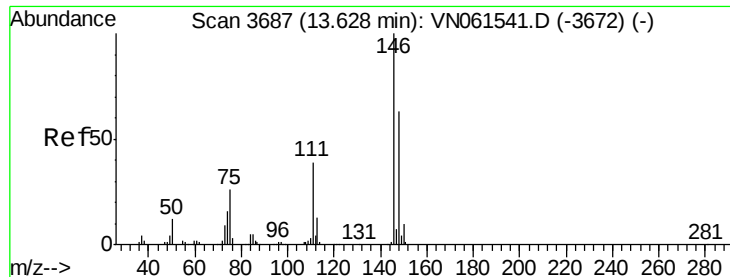
Tot Ion:146 Resp: 1766  
 Ion Ratio Lower Upper  
 146 100  
 111 30.5 18.9 56.9  
 148 70.3 31.8 95.3



#89  
 n-Butylbenzene  
 Concen: 0.292 ug/l  
 RT: 13.59 min Scan# 3675  
 Delta R.T. 0.00 min  
 Lab File: VN061719.D  
 Acq: 9 Jun 2020 12:30

Tgt Ion: 91 Resp: 3155  
 Ion Ratio Lower Upper  
 91 100  
 92 45.3 27.2 81.6  
 134 24.7 14.0 42.0

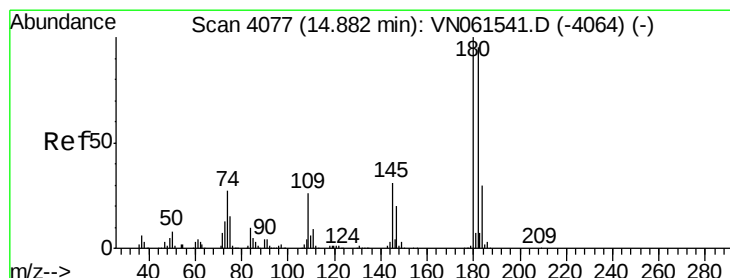
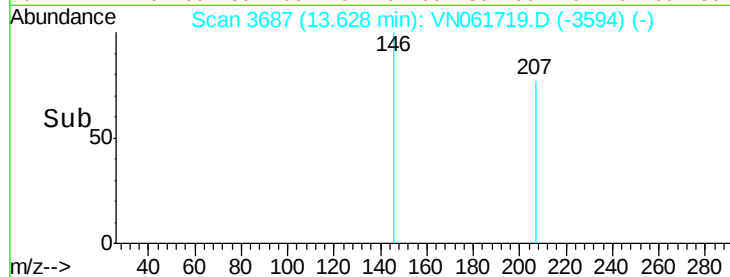
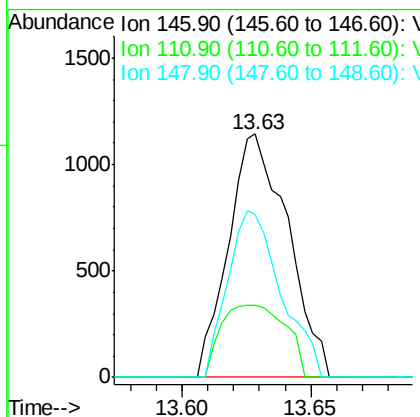
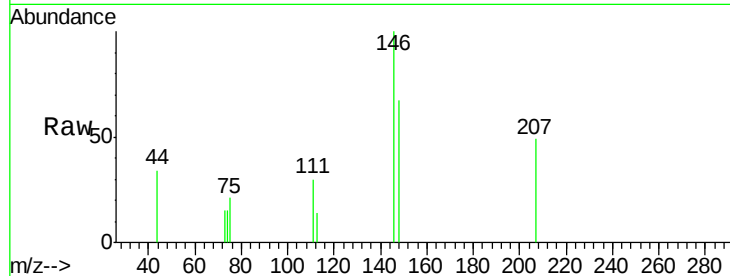




#91  
 1,2-Dichlorobenzene  
 Concen: 0.289 ug/l  
 RT: 13.63 min Scan# 3687  
 Delta R.T. 0.00 min  
 Lab File: VN061719.D  
 Acq: 9 Jun 2020 12:30

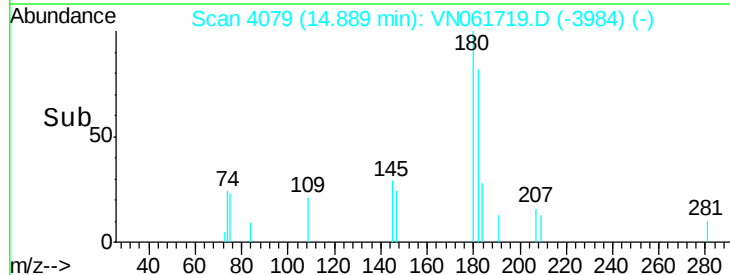
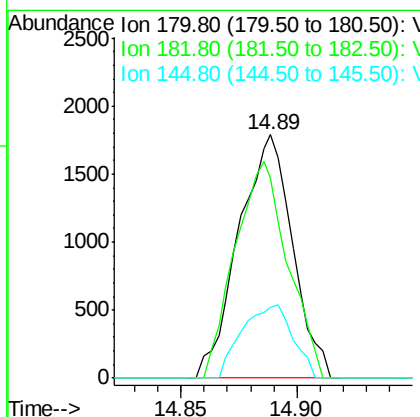
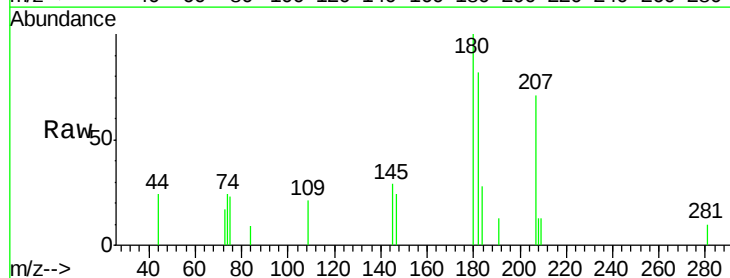
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 PB129410TB

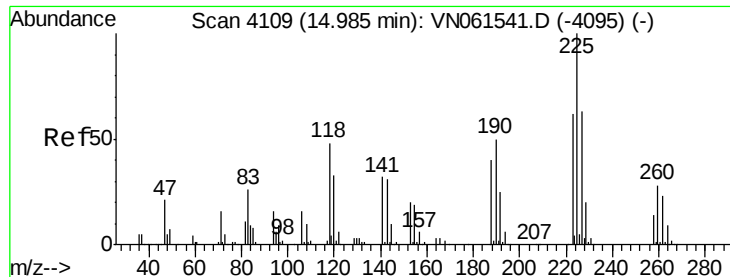
Tot Ion:146 Resp: 1837  
 Ion Ratio Lower Upper  
 146 100  
 111 32.3 20.1 60.2  
 148 61.1 31.9 95.5



#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.773 ug/l  
 RT: 14.89 min Scan# 4079  
 Delta R.T. 0.01 min  
 Lab File: VN061719.D  
 Acq: 9 Jun 2020 12:30

Tgt Ion:180 Resp: 2876  
 Ion Ratio Lower Upper  
 180 100  
 182 87.6 47.8 143.3  
 145 28.3 15.5 46.5





#94

Hexachlorobutadiene

Concen: 0.681 ug/l

RT: 14.98 min Scan# 4108

Delta R.T. -0.00 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

Instrument :

MSVOA\_N

ClientSampled :

PB129410TB

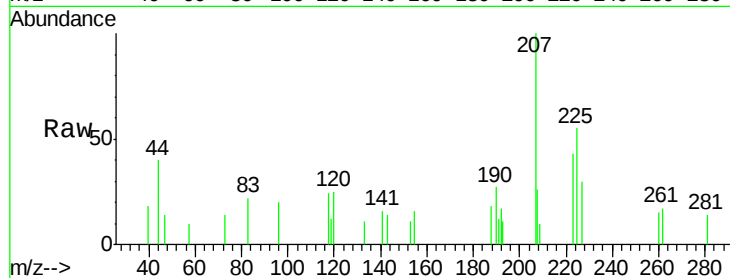
Tot Ion:225 Resp: 1081

Ion Ratio Lower Upper

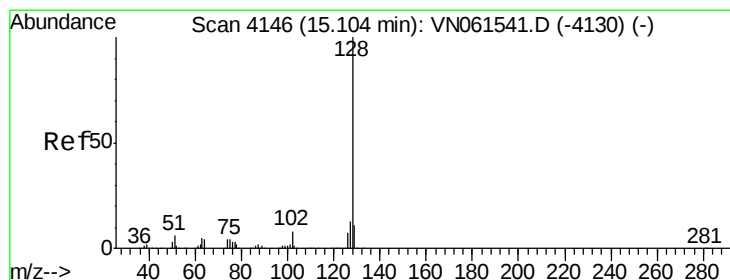
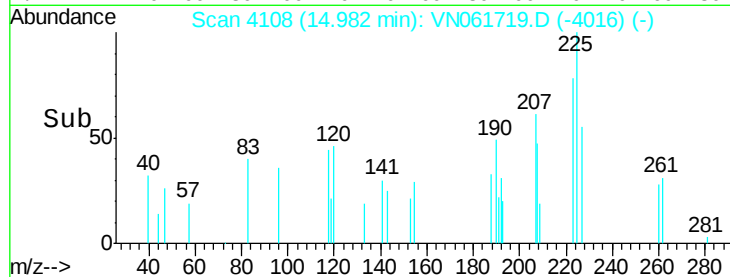
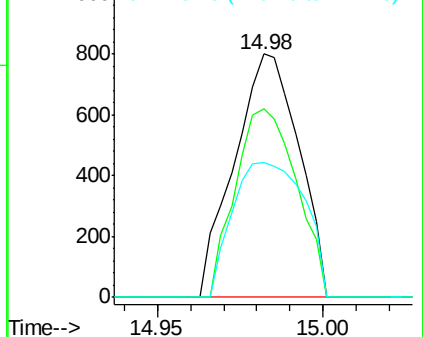
225 100

223 73.6 31.9 95.5

227 61.9 31.9 95.9



Abundance Ion 224.70 (224.40 to 225.40): V  
Ion 222.70 (222.40 to 223.40): V  
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.932 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN061719.D

Acq: 9 Jun 2020 12:30

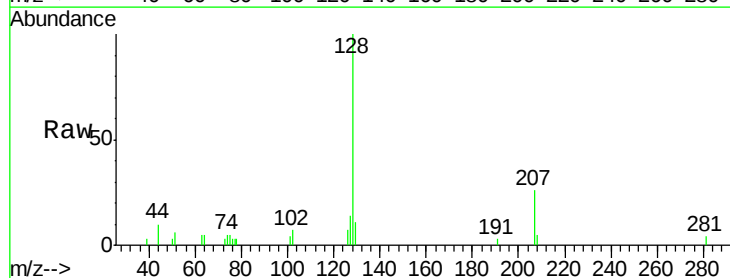
Tgt Ion:128 Resp: 10547

Ion Ratio Lower Upper

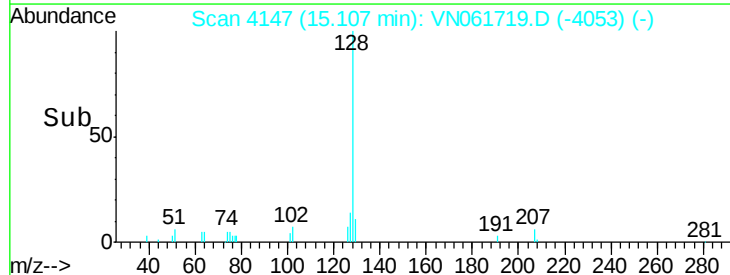
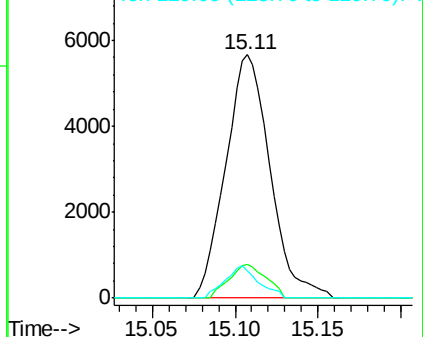
128 100

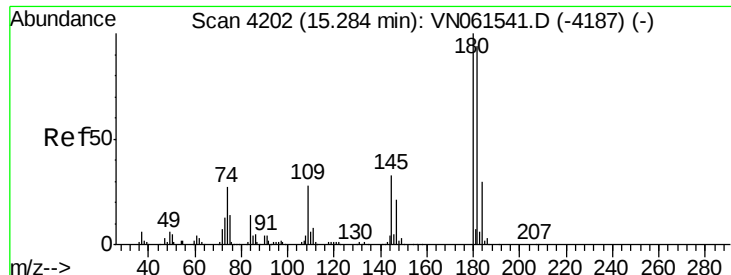
127 11.6 10.0 15.0

129 10.2 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

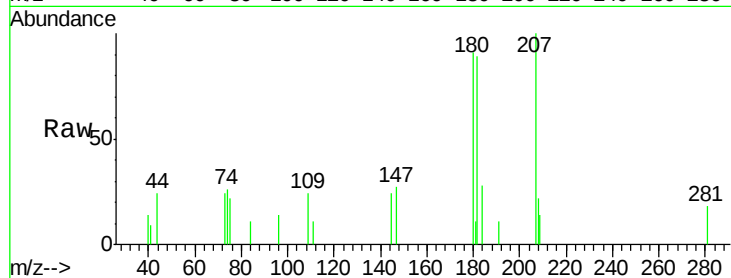




#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.773 ug/l  
 RT: 15.29 min Scan# 4203  
 Delta R.T. 0.00 min  
 Lab File: VN061719.D  
 Acq: 9 Jun 2020 12:30

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB129410TB

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 98.0  | 47.1  | 141.3 |
| 145     | 26.4  | 16.3  | 48.9  |



Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.90 (144.60 to 145.60): V

