

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN031220\  
 Data File : VN060479.D  
 Acq On : 12 Mar 2020 15:11  
 Operator : JC/MD  
 Sample : PB127467ZHE#16  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB127467ZHE#16

Quant Time: Mar 13 02:05:10 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N022720W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 27 13:52:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 191930   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 320183   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 302489   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 138595   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.00   | 65  | 125285   | 50.88 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.76% |      |
| 35) Dibromofluoromethane    | 7.57   | 113 | 94754    | 63.76 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 127.52% |      |
| 50) Toluene-d8              | 10.08  | 98  | 393324   | 52.29 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.58% |      |
| 62) 4-Bromofluorobenzene    | 12.40  | 95  | 146753   | 51.47 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.94% |      |

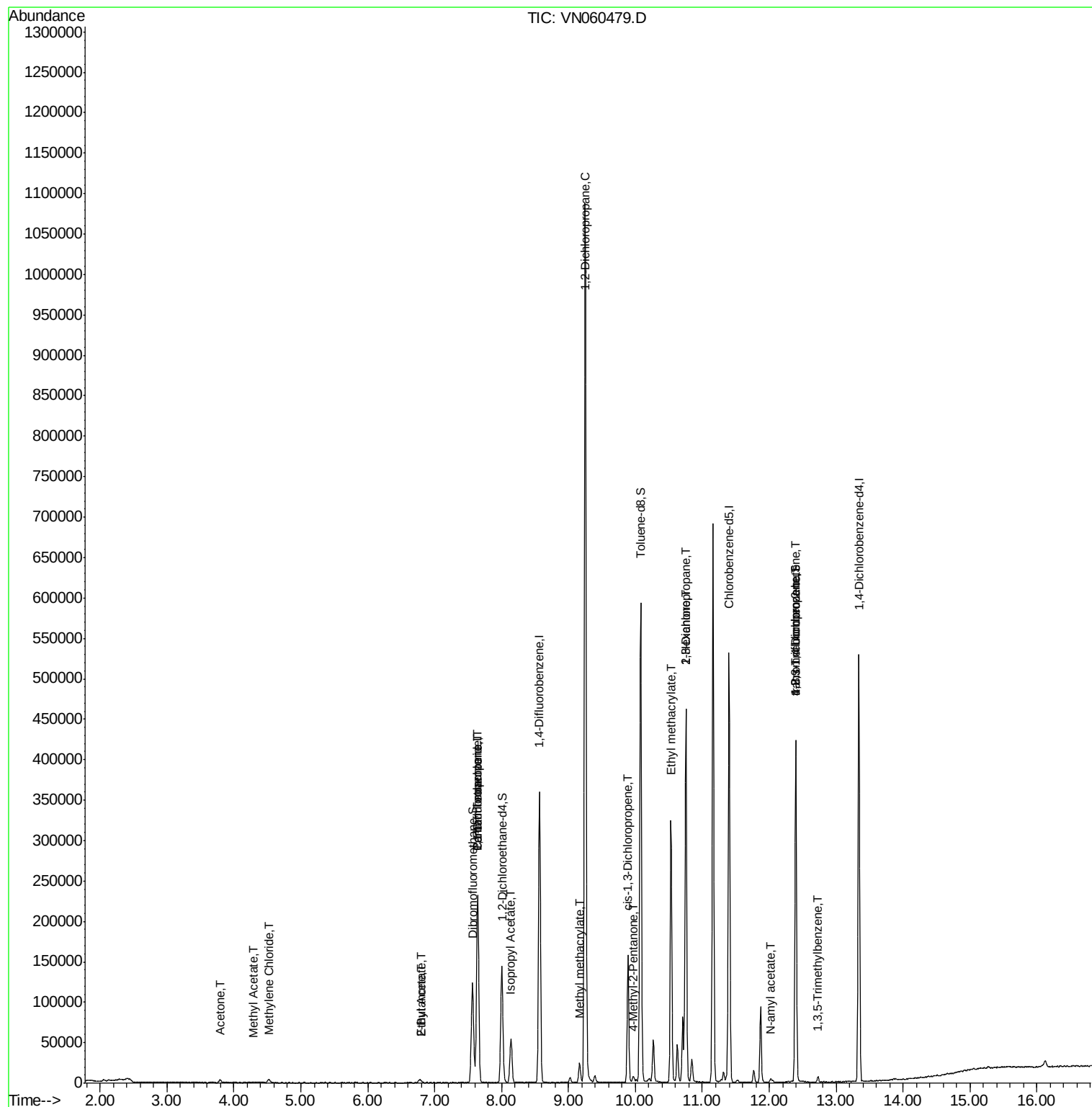
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 3.79  | 43   | 6491     | 8.16      | ug/l   | 94     |
| 18) Methyl Acetate             | 4.30  | 43   | 1916     | 0.72      | ug/l # | 52     |
| 20) Methylene Chloride         | 4.52  | 84   | 3021     | 1.38      | ug/l # | 91     |
| 25) 2-Butanone                 | 6.81  | 43   | 1160     | 0.90      | ug/l # | 49     |
| 31) Cyclohexane                | 7.64  | 56   | 3963     | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 15005    | 4.92      | ug/l # | 49     |
| 37) Ethyl Acetate              | 6.81  | 43   | 1160     | 0.40      | ug/l # | 68     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 18188    | 6.12      | ug/l # | 16     |
| 43) Isopropyl Acetate          | 8.14  | 43   | 65703    | 12.99     | ug/l # | 91     |
| 45) 1,2-Dichloropropane        | 9.25  | 63   | 1199     | 0.52      | ug/l # | 44     |
| 48) Methyl methacrylate        | 9.16  | 41   | 3469     | 1.50      | ug/l # | 13     |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 6029     | 2.10      | ug/l   | 89     |
| 54) cis-1,3-Dichloropropene    | 9.89  | 75   | 28108    | 7.22      | ug/l # | 59     |
| 56) Ethyl methacrylate         | 10.53 | 69   | 723      | 0.22      | ug/l # | 1      |
| 57) 1,3-Dichloropropane        | 10.75 | 76   | 4632     | 1.27      | ug/l # | 42     |
| 59) 2-Hexanone                 | 10.75 | 43   | 68251    | 32.41     | ug/l # | 52     |
| 74) N-amyl acetate             | 12.02 | 43   | 4279     | 0.95      | ug/l # | 44     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 75221    | 24.74     | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 4010     | 0.46      | ug/l   | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 75221    | 68.29     | ug/l # | 8      |
| 95) Naphthalene                | 15.13 | 128  | 30       | Below Cal | #      | 69     |

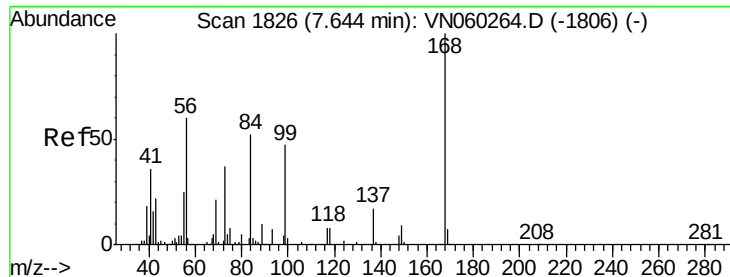
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Feb 27 13:52:50 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060479.D

Acq: 12 Mar 2020 15:11

Instrument :

MSVOA\_N

ClientSampleId :

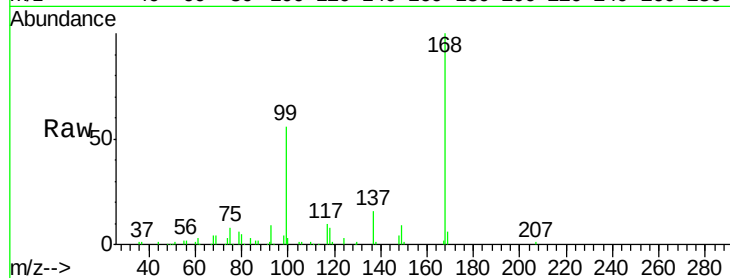
PB127467ZHE#16

Tgt Ion:168 Resp: 191930

Ion Ratio Lower Upper

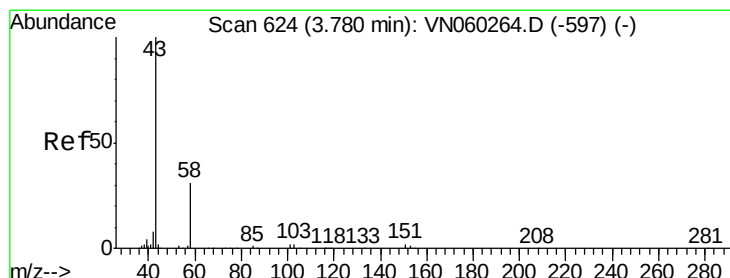
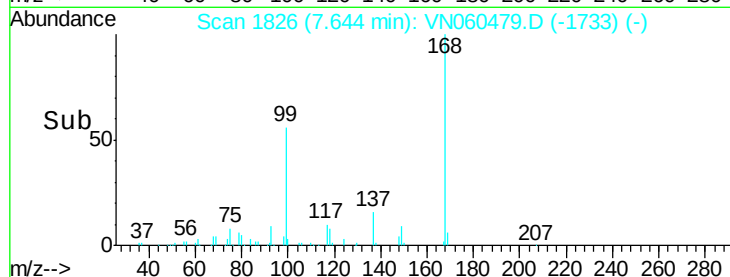
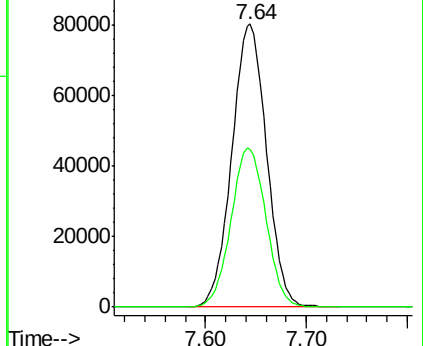
168 100

99 55.7 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 8.16 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060479.D

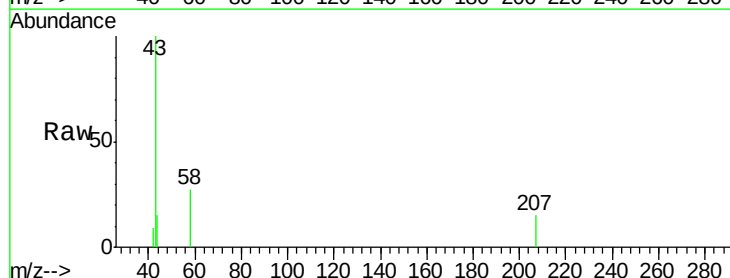
Acq: 12 Mar 2020 15:11

Tgt Ion: 43 Resp: 6491

Ion Ratio Lower Upper

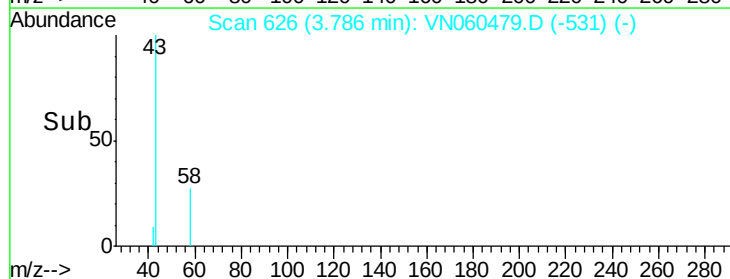
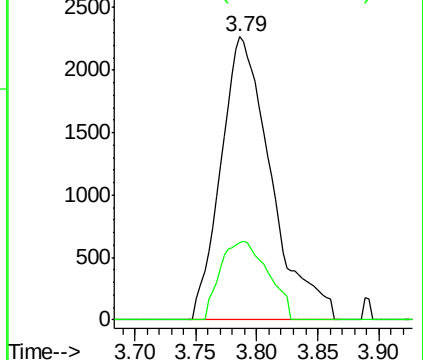
43 100

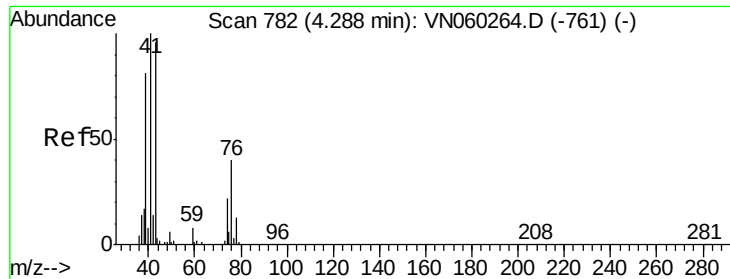
58 27.2 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

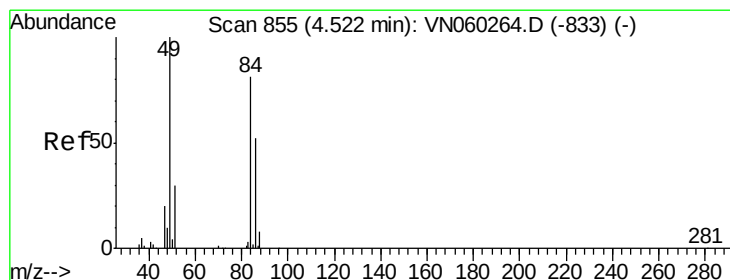
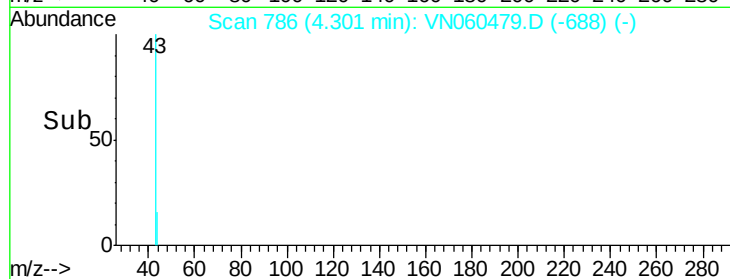
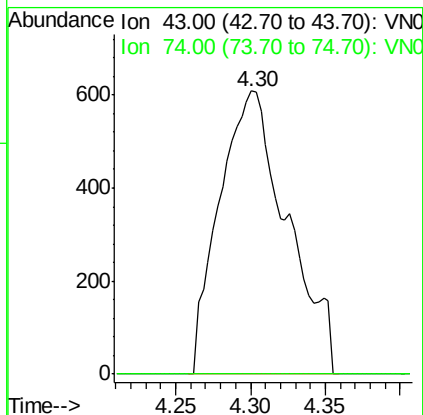
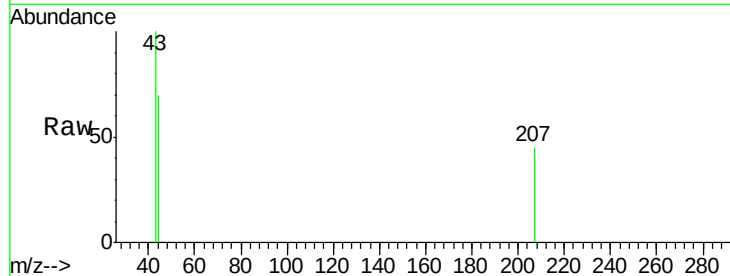




#18  
Methyl Acetate  
Concen: 0.72 ug/l  
RT: 4.30 min Scan# 786  
Delta R.T. 0.01 min  
Lab File: VN060479.D  
Acq: 12 Mar 2020 15:11

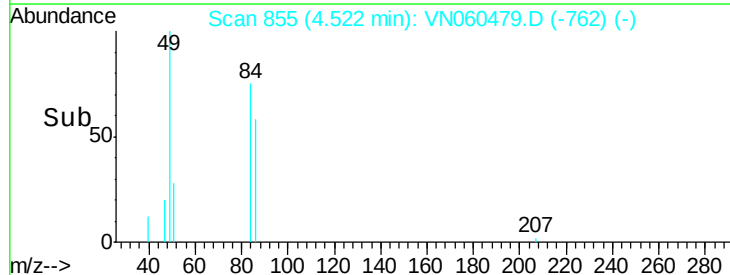
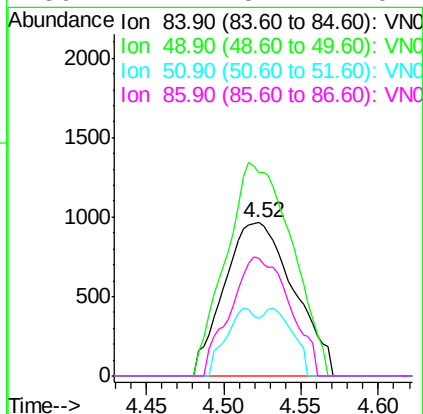
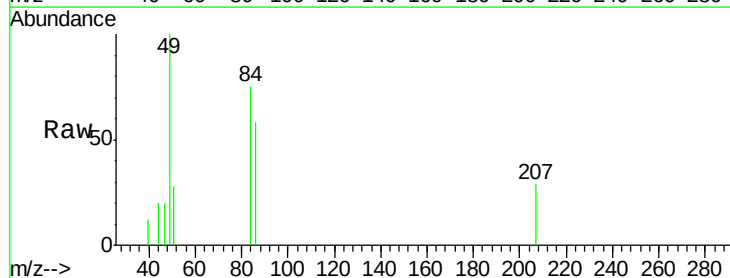
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB127467ZHE#16

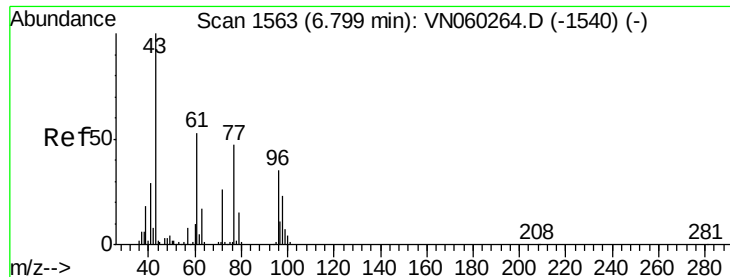
Tgt Ion: 43 Resp: 1916  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.8 28.2#



#20  
Methylene Chloride  
Concen: 1.38 ug/l  
RT: 4.52 min Scan# 855  
Delta R.T. -0.00 min  
Lab File: VN060479.D  
Acq: 12 Mar 2020 15:11

Tgt Ion: 84 Resp: 3021  
Ion Ratio Lower Upper  
84 100  
49 132.7 99.3 148.9  
51 37.7 30.1 45.1  
86 77.1 51.1 76.7#





#25

2-Butanone

Concen: 0.90 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060479.D

Acq: 12 Mar 2020 15:11

Instrument :

MSVOA\_N

ClientSampleId :

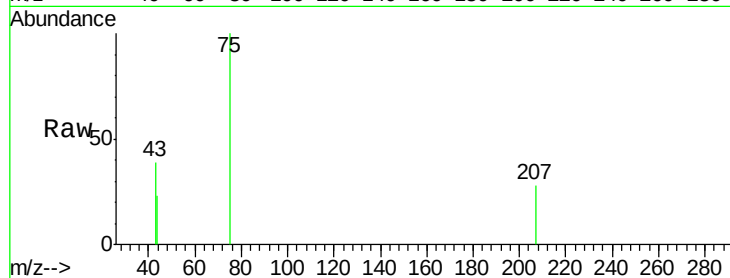
PB127467ZHE#16

Tgt Ion: 43 Resp: 1160

Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.81

400

300

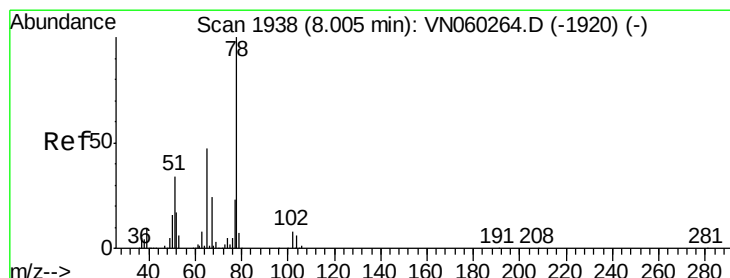
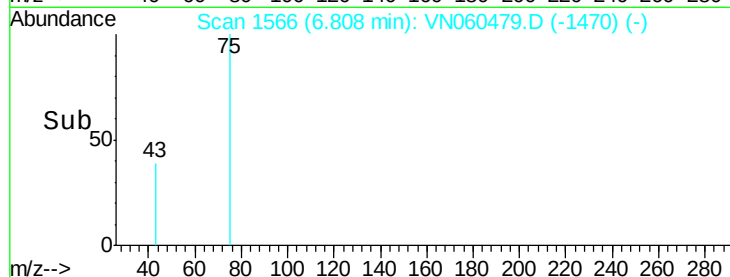
200

100

0

6.75 6.80 6.85

Time-->



#33

1,2-Dichloroethane-d4

Concen: 50.88 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060479.D

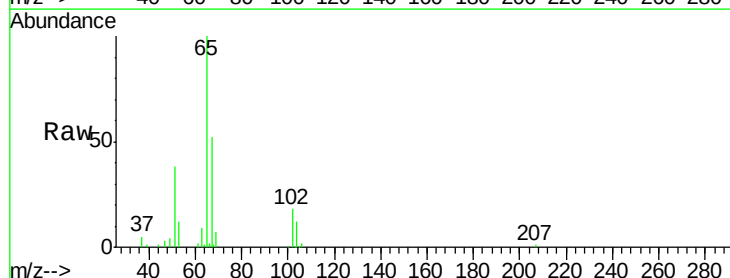
Acq: 12 Mar 2020 15:11

Tgt Ion: 65 Resp: 125285

Ion Ratio Lower Upper

65 100

67 52.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.00

60000

50000

40000

30000

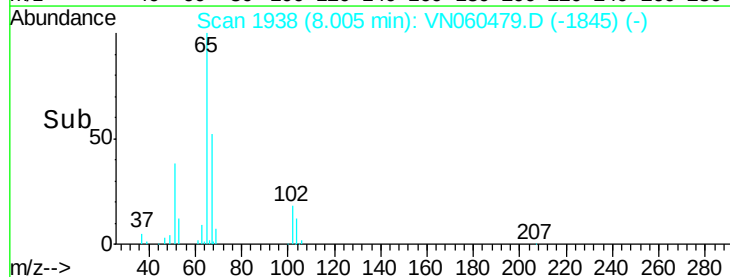
20000

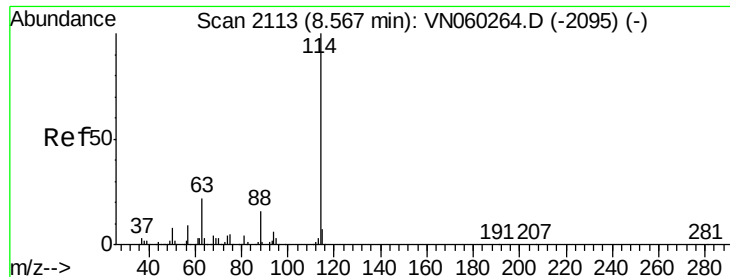
10000

0

7.90 8.00 8.10

Time-->

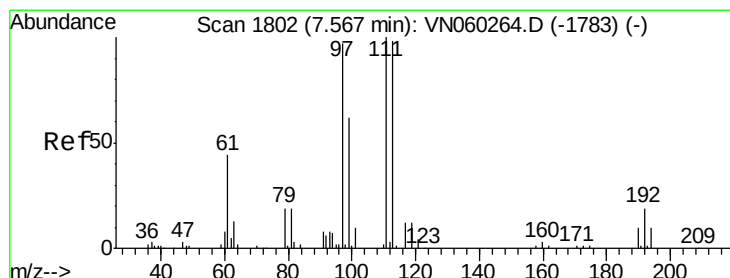
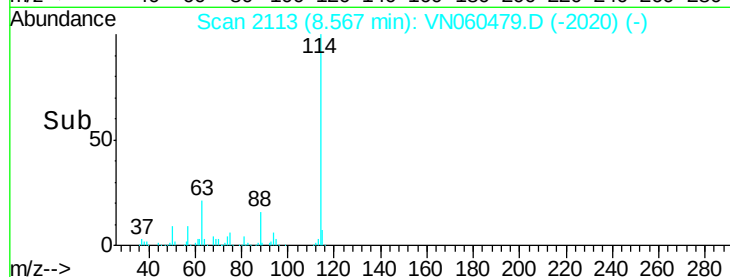
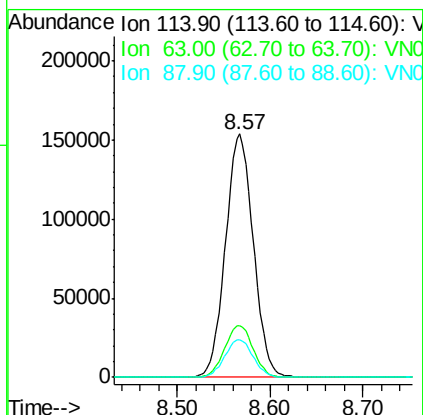
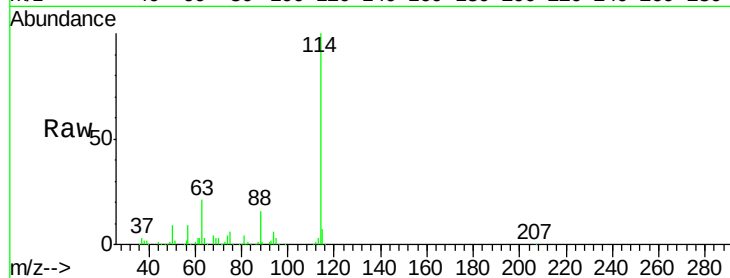




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.57 min Scan# 2113  
Delta R.T. -0.00 min  
Lab File: VN060479.D  
Acq: 12 Mar 2020 15:11

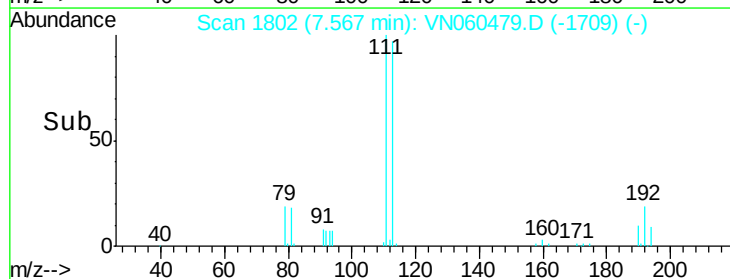
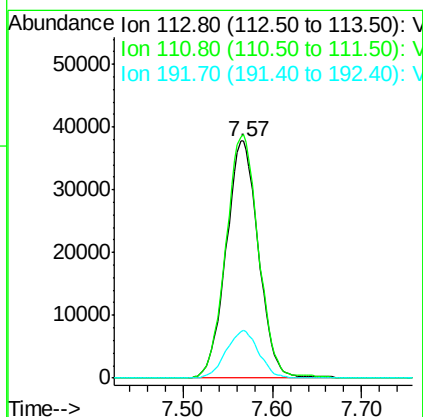
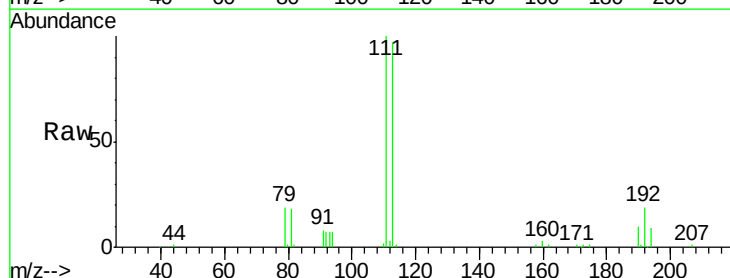
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB127467ZHE#16

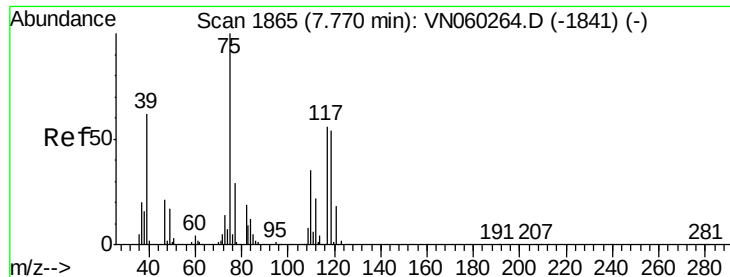
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.3  | 0.0   | 43.2  |
| 88      | 15.6  | 0.0   | 31.6  |



#35  
Dibromofluoromethane  
Concen: 63.76 ug/l  
RT: 7.57 min Scan# 1802  
Delta R.T. 0.00 min  
Lab File: VN060479.D  
Acq: 12 Mar 2020 15:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.9 | 82.4  | 123.6 |
| 192     | 20.0  | 16.2  | 24.2  |





#36

1,1-Dichloropropene

Concen: 4.92 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060479.D

Acq: 12 Mar 2020 15:11

Instrument :

MSVOA\_N

ClientSampleId :

PB127467ZHE#16

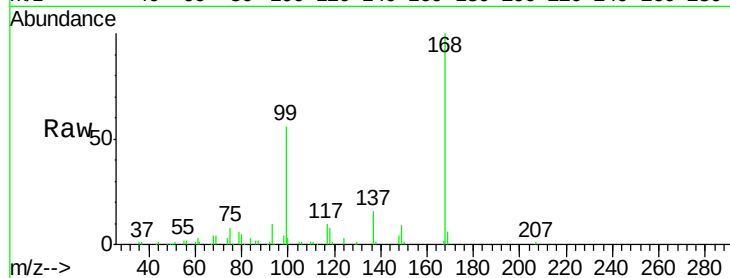
Tgt Ion: 75 Resp: 15005

Ion Ratio Lower Upper

75 100

110 7.5 17.3 52.0#

77 0.0 24.2 36.2#

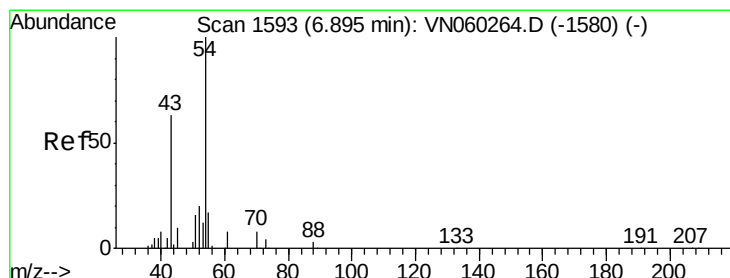
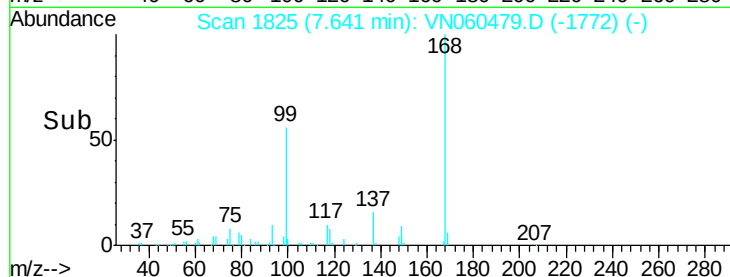


Abundance Ion 74.90 (74.60 to 75.60): VN060479.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060479.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060479.D (-1772) (-)

Time-->



#37

Ethyl Acetate

Concen: 0.40 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.09 min

Lab File: VN060479.D

Acq: 12 Mar 2020 15:11

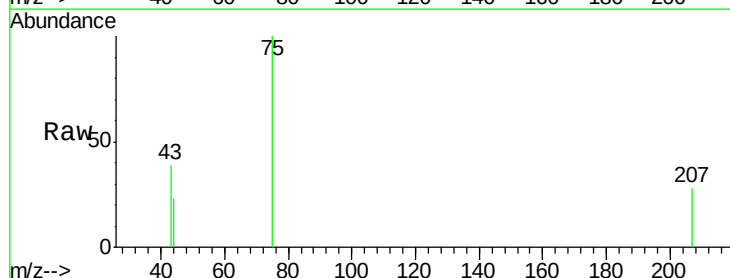
Tgt Ion: 43 Resp: 1160

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#

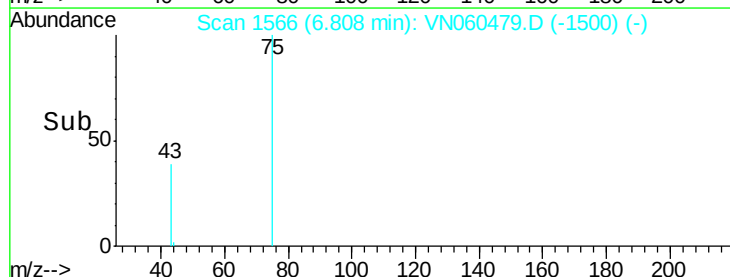


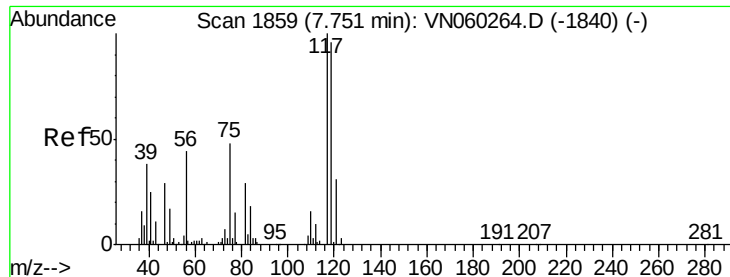
Abundance Ion 43.00 (42.70 to 43.70): VN060479.D (-1500) (-)

Ion 60.90 (60.60 to 61.60): VN060479.D (-1500) (-)

Ion 70.00 (69.70 to 70.70): VN060479.D (-1500) (-)

Time-->

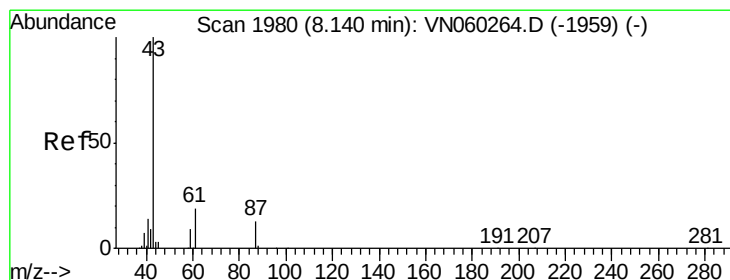
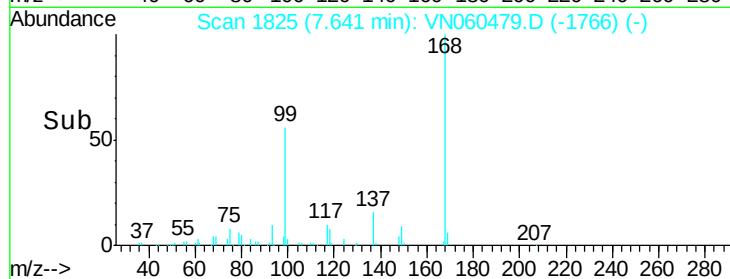
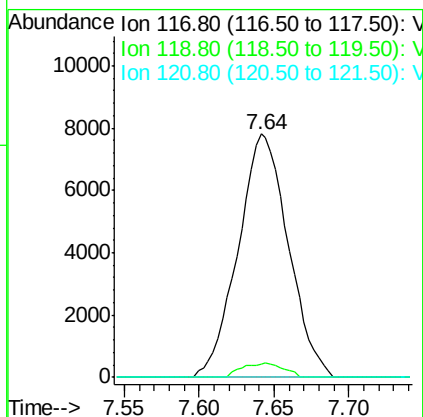
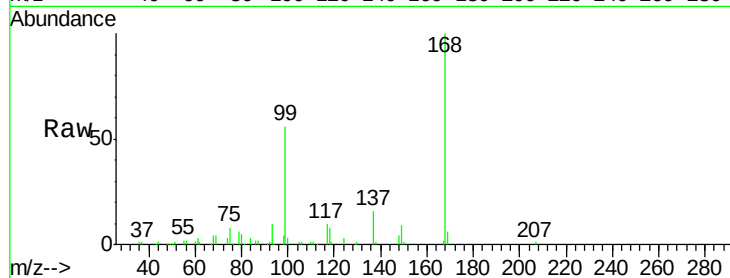




#38  
Carbon Tetrachloride  
Concen: 6.12 ug/l  
RT: 7.64 min Scan# 1825  
Delta R.T. -0.11 min  
Lab File: VN060479.D  
Acq: 12 Mar 2020 15:11

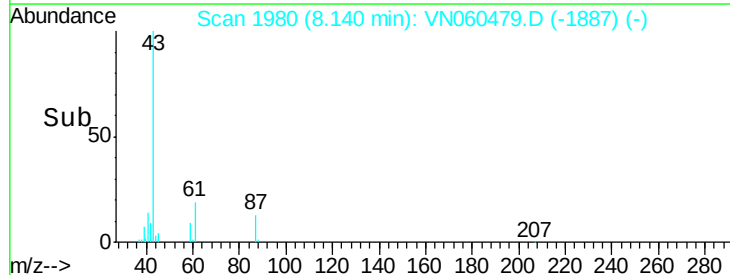
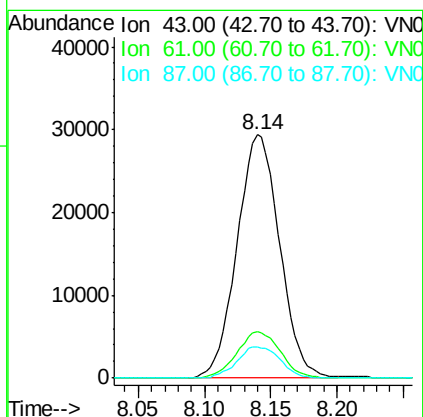
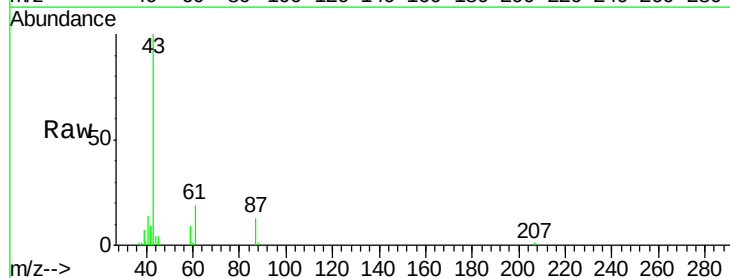
Instrument :  
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ClientSampleId :  
PB127467ZHE#16

Tgt Ion:117 Resp: 18188  
Ion Ratio Lower Upper  
117 100  
119 5.6 76.7 115.1#  
121 0.0 24.5 36.7#

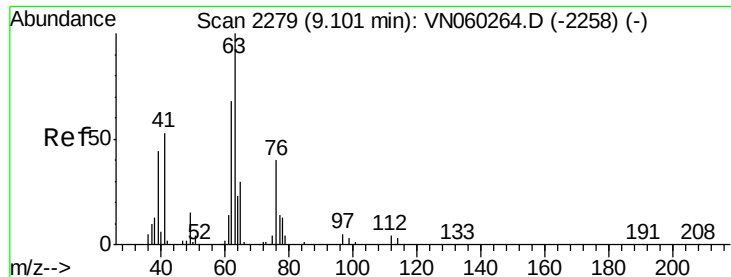


#43  
Isopropyl Acetate  
Concen: 12.99 ug/l  
RT: 8.14 min Scan# 1980  
Delta R.T. -0.00 min  
Lab File: VN060479.D  
Acq: 12 Mar 2020 15:11

Tgt Ion: 43 Resp: 65703  
Ion Ratio Lower Upper  
43 100  
61 19.3 20.9 31.3#  
87 12.9 10.6 16.0



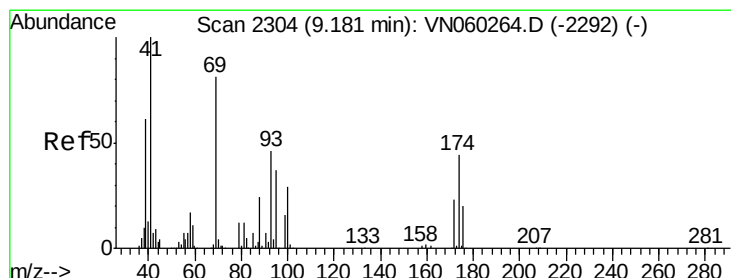
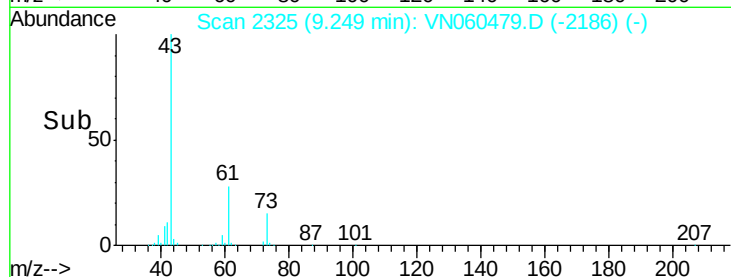
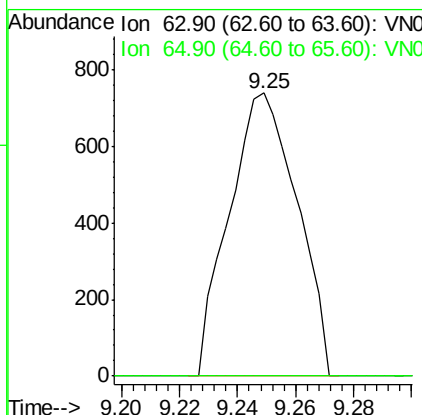
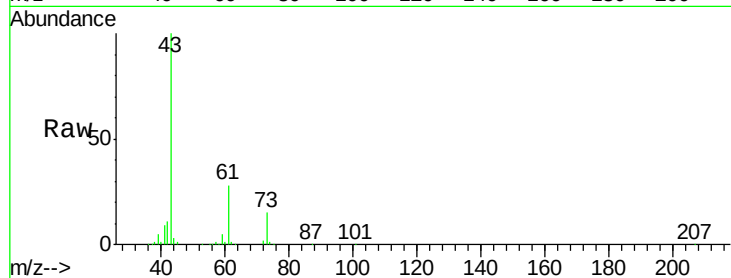




#45  
1,2-Dichloropropane  
Concen: 0.52 ug/l  
RT: 9.25 min Scan# 2325  
Delta R.T. 0.15 min  
Lab File: VN060479.D  
Acq: 12 Mar 2020 15:11

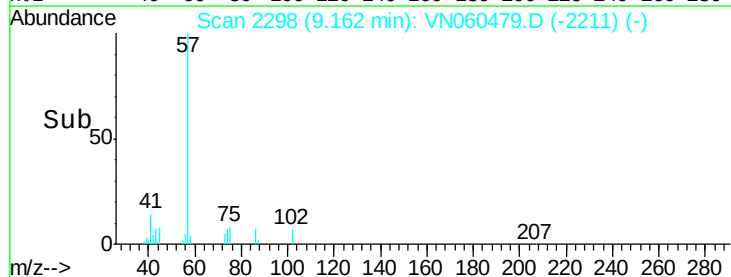
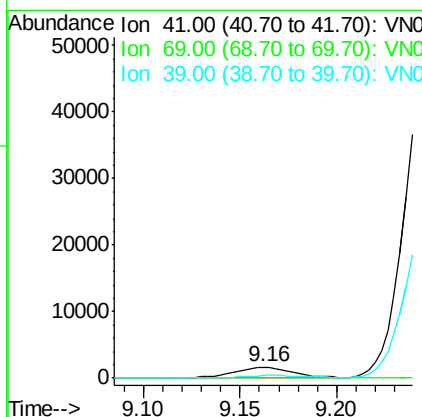
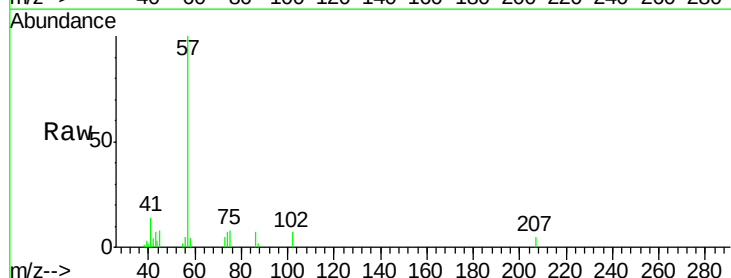
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB127467ZHE#16

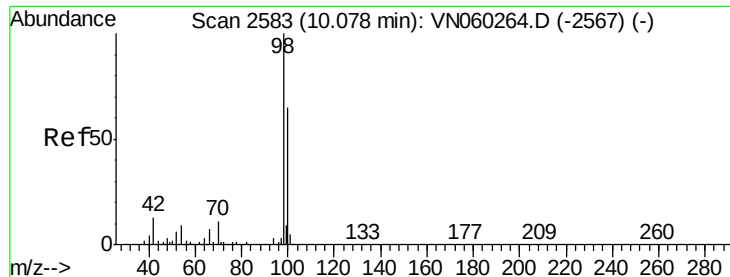
Tgt Ion: 63 Resp: 1199  
Ion Ratio Lower Upper  
63 100  
65 0.0 24.4 36.6#



#48  
Methyl methacrylate  
Concen: 1.50 ug/l  
RT: 9.16 min Scan# 2298  
Delta R.T. -0.02 min  
Lab File: VN060479.D  
Acq: 12 Mar 2020 15:11

Tgt Ion: 41 Resp: 3469  
Ion Ratio Lower Upper  
41 100  
69 0.0 66.7 100.1#  
39 0.0 50.1 75.1#





#50

Toluene-d8

Concen: 52.29 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060479.D

Acq: 12 Mar 2020 15:11

Instrument :

MSVOA\_N

ClientSampleId :

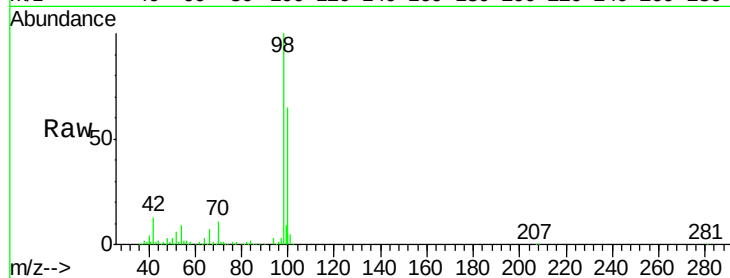
PB127467ZHE#16

Tgt Ion: 98 Resp: 393324

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

250000

200000

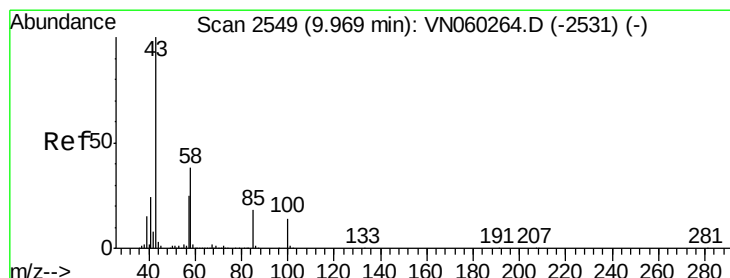
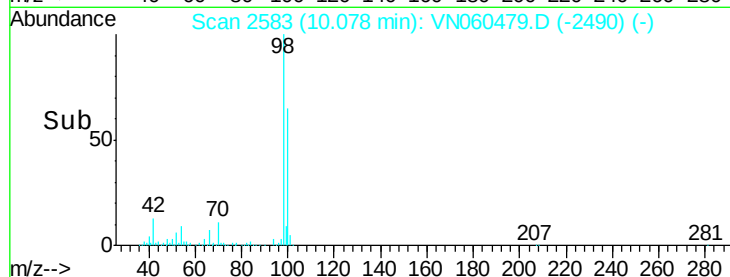
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.10 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060479.D

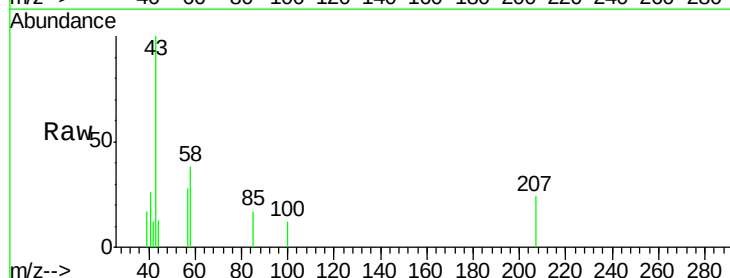
Acq: 12 Mar 2020 15:11

Tgt Ion: 43 Resp: 6029

Ion Ratio Lower Upper

43 100

58 31.6 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

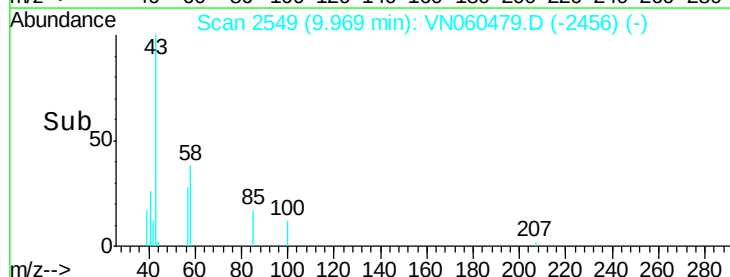
15000

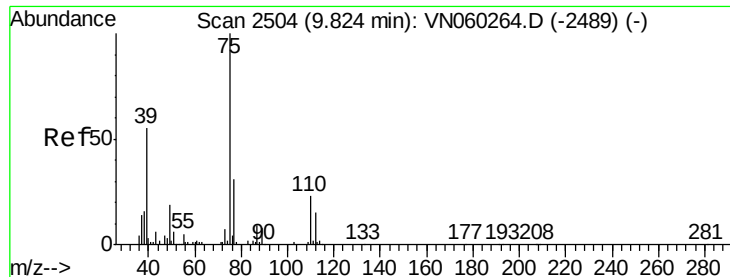
10000

5000

0

Time-->

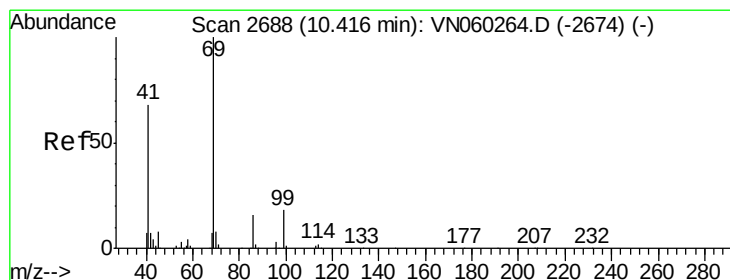
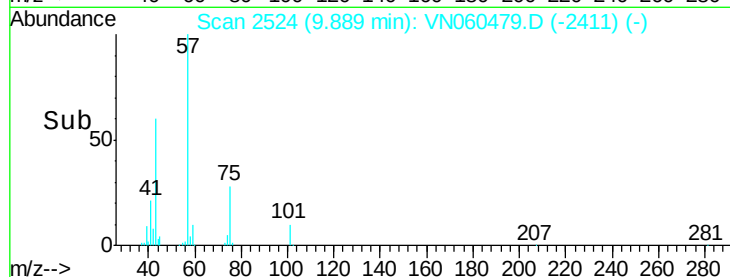
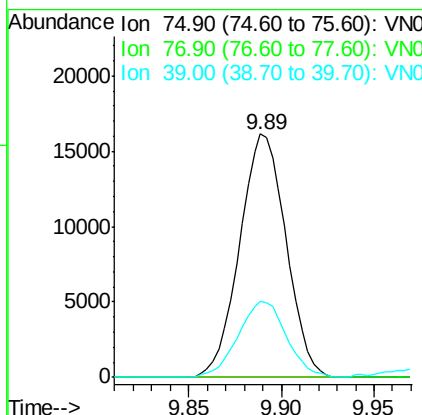
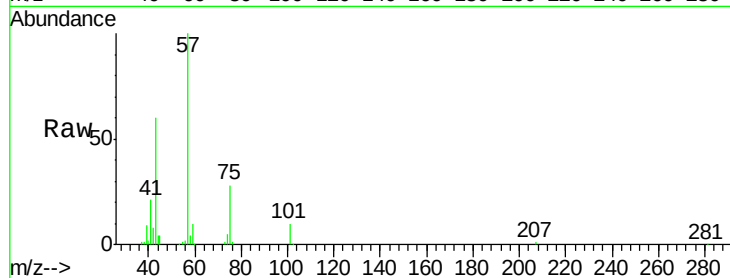




#54  
 cis-1,3-Dichloropropene  
 Concen: 7.22 ug/l  
 RT: 9.89 min Scan# 2524  
 Delta R.T. 0.06 min  
 Lab File: VN060479.D  
 Acq: 12 Mar 2020 15:11

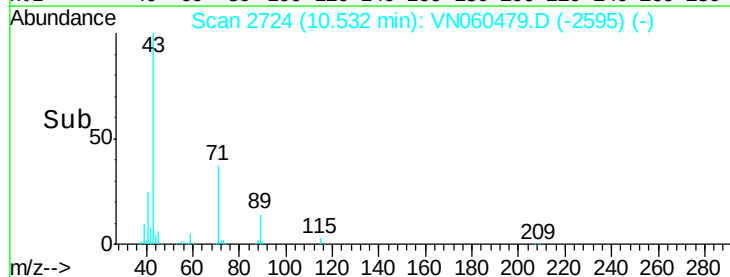
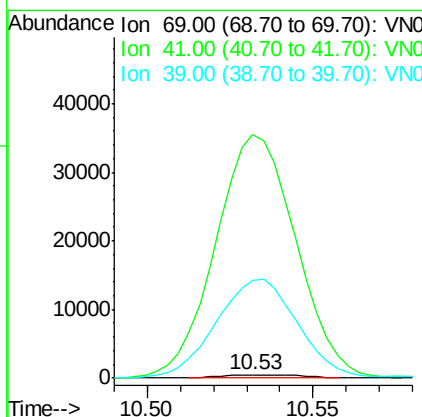
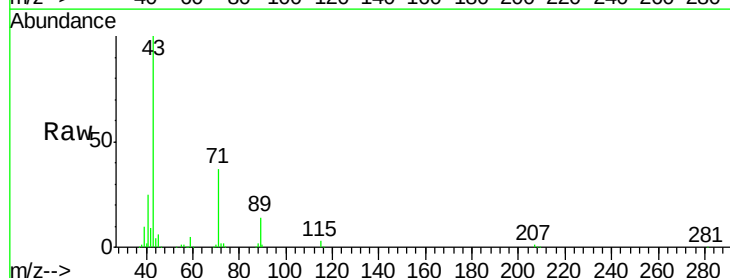
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB127467ZHE#16

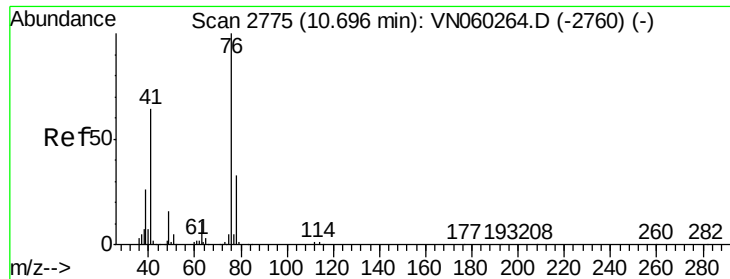
Tgt Ion: 75 Resp: 28108  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 24.8 37.2#  
 39 31.0 43.8 65.8#



#56  
 Ethyl methacrylate  
 Concen: 0.22 ug/l  
 RT: 10.53 min Scan# 2724  
 Delta R.T. 0.12 min  
 Lab File: VN060479.D  
 Acq: 12 Mar 2020 15:11

Tgt Ion: 69 Resp: 723  
 Ion Ratio Lower Upper  
 69 100  
 41 8313.4 54.1 81.1#  
 39 3414.9 32.5 48.7#





#57

1,3-Dichloropropane

Concen: 1.27 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060479.D

Acq: 12 Mar 2020 15:11

Instrument :

MSVOA\_N

ClientSampleId :

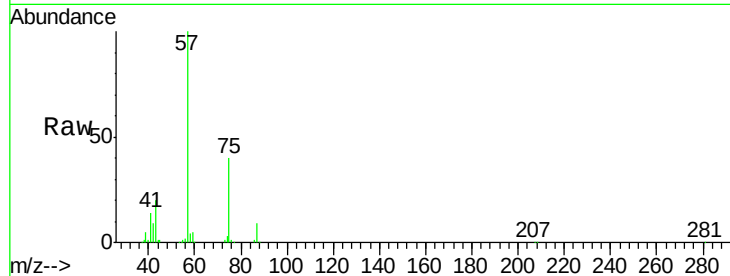
PB127467ZHE#16

Tgt Ion: 76 Resp: 4632

Ion Ratio Lower Upper

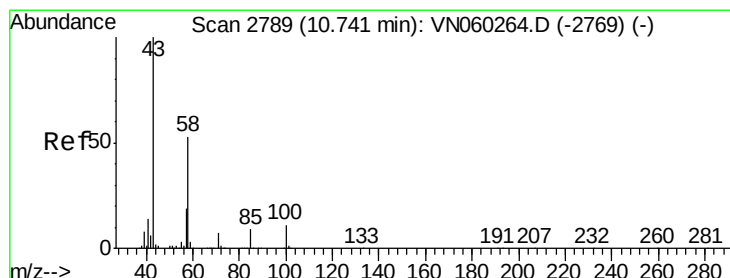
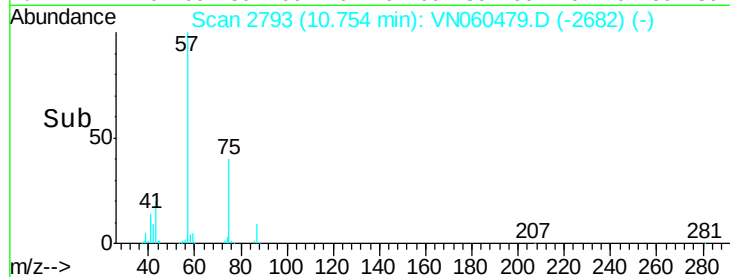
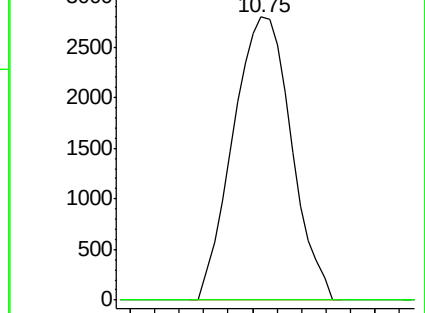
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 32.41 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060479.D

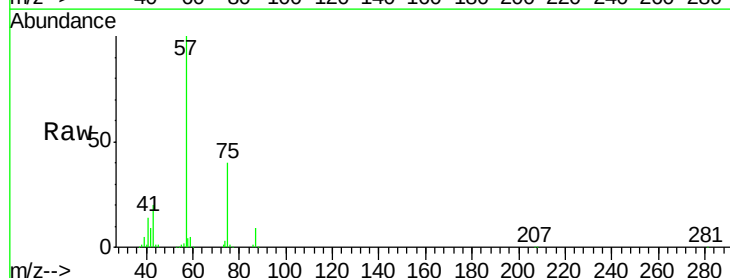
Acq: 12 Mar 2020 15:11

Tgt Ion: 43 Resp: 68251

Ion Ratio Lower Upper

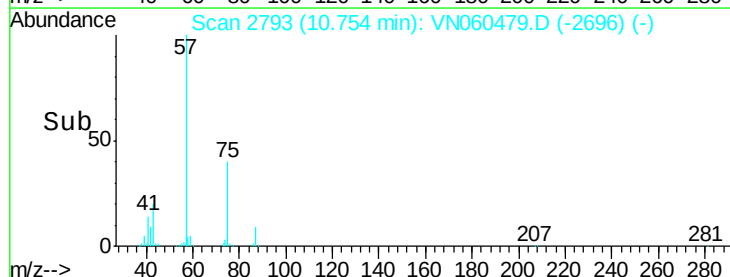
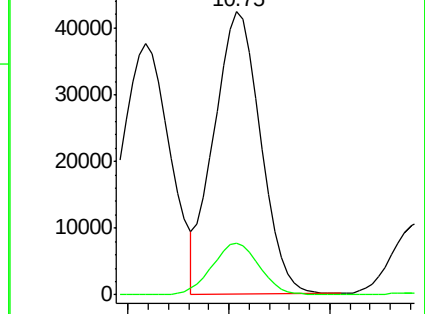
43 100

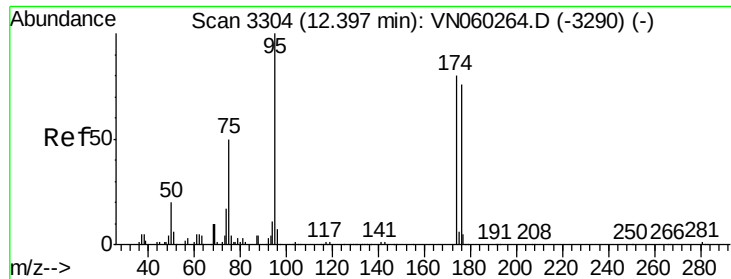
58 18.6 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

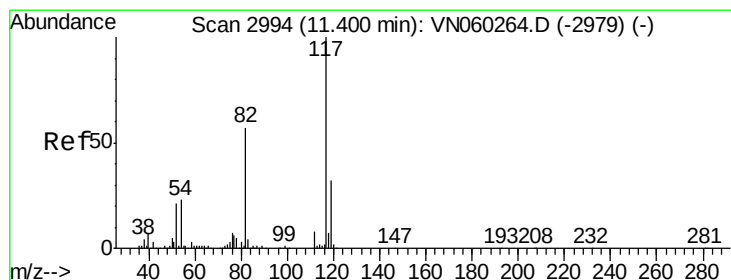
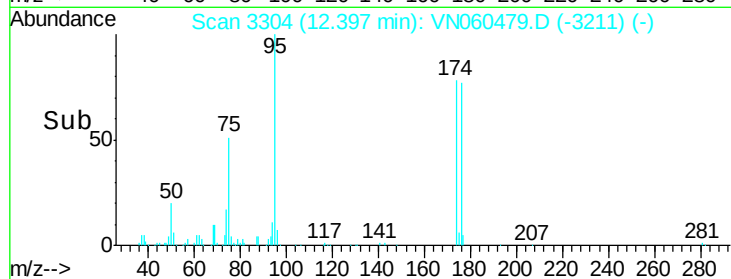
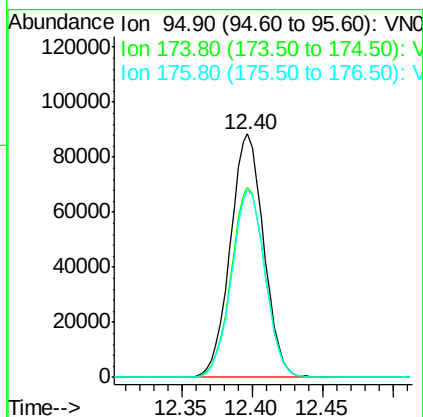
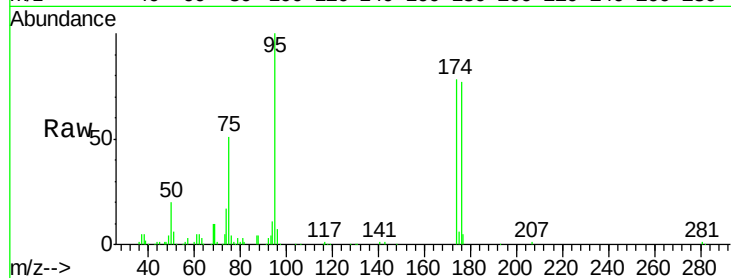




#62  
4-Bromofluorobenzene  
Concen: 51.47 ug/l  
RT: 12.40 min Scan# 3304  
Delta R.T. 0.00 min  
Lab File: VN060479.D  
Acq: 12 Mar 2020 15:11

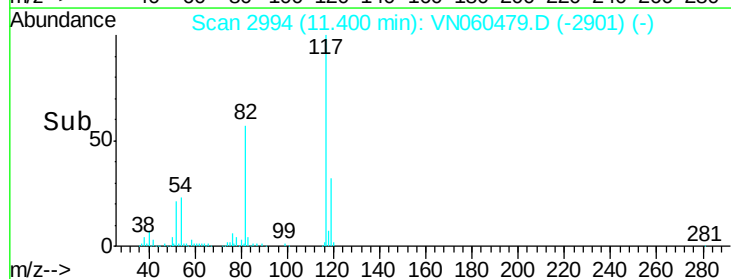
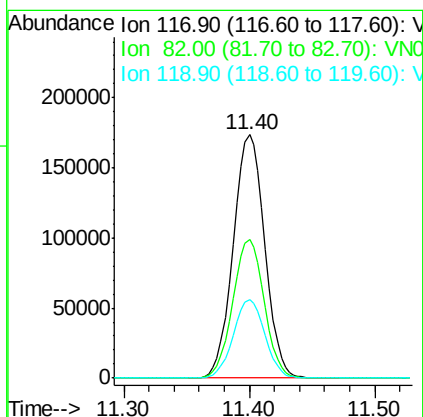
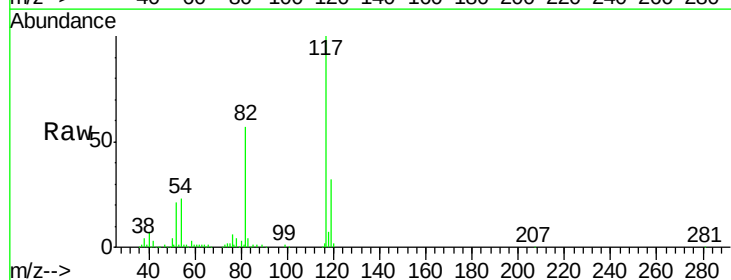
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB127467ZHE#16

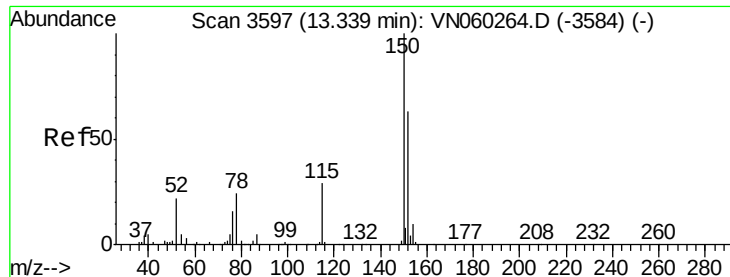
Tgt Ion: 95 Resp: 146753  
Ion Ratio Lower Upper  
95 100  
174 79.3 0.0 159.2  
176 77.2 0.0 153.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. -0.00 min  
Lab File: VN060479.D  
Acq: 12 Mar 2020 15:11

Tgt Ion: 117 Resp: 302489  
Ion Ratio Lower Upper  
117 100  
82 56.8 45.8 68.6  
119 32.0 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060479.D

Acq: 12 Mar 2020 15:11

Instrument :

MSVOA\_N

ClientSampleId :

PB127467ZHE#16

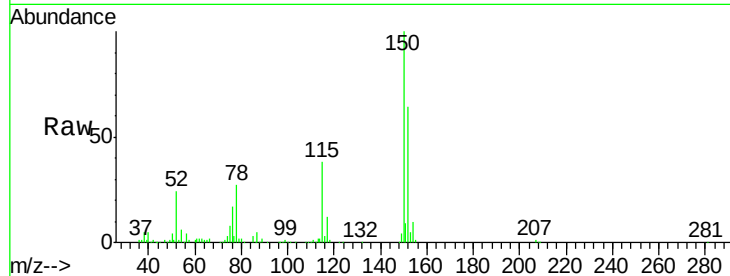
Tgt Ion:152 Resp: 138595

Ion Ratio Lower Upper

152 100

115 60.0 30.0 90.0

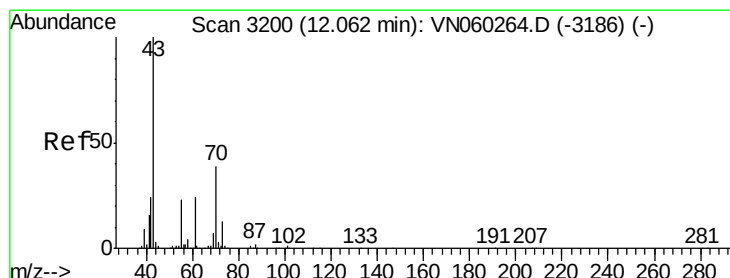
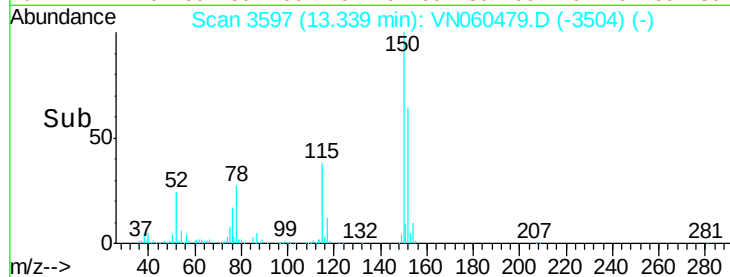
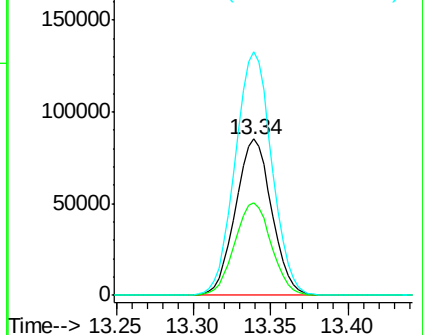
150 158.0 0.0 349.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.95 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060479.D

Acq: 12 Mar 2020 15:11

Tgt Ion: 43 Resp: 4279

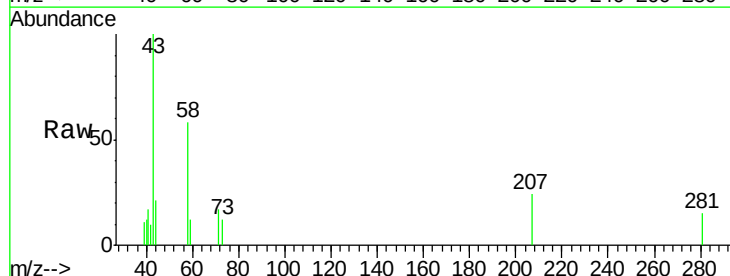
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

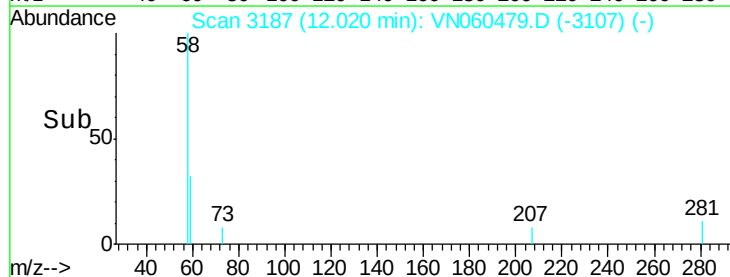
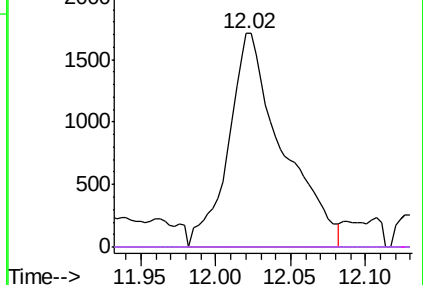


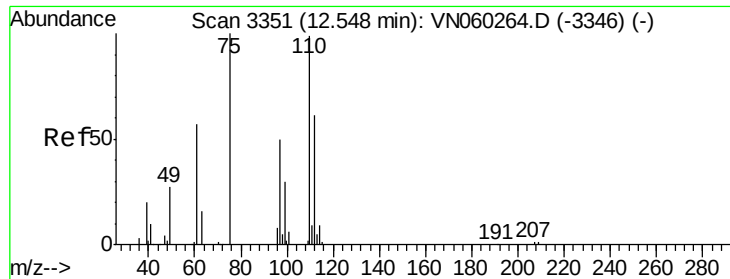
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 24.74 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060479.D

Acq: 12 Mar 2020 15:11

Instrument :

MSVOA\_N

ClientSampleId :

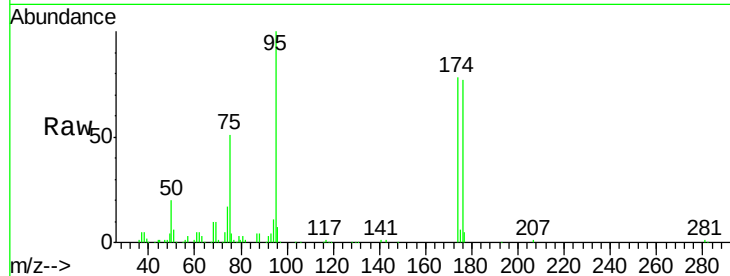
PB127467ZHE#16

Tgt Ion: 75 Resp: 75221

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#

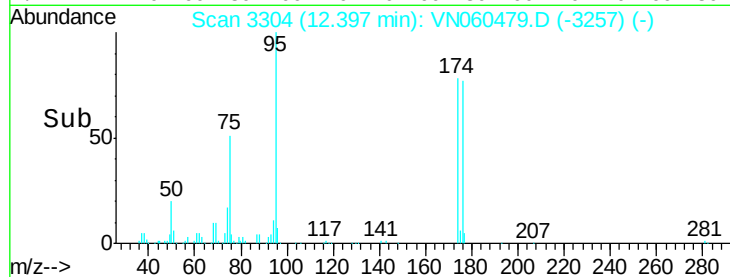


Abundance Ion 74.90 (74.60 to 75.60): VN060479.D (-3257) (-)

Ion 77.00 (76.70 to 77.70): VN060479.D (-3257) (-)

12.40

Time-->

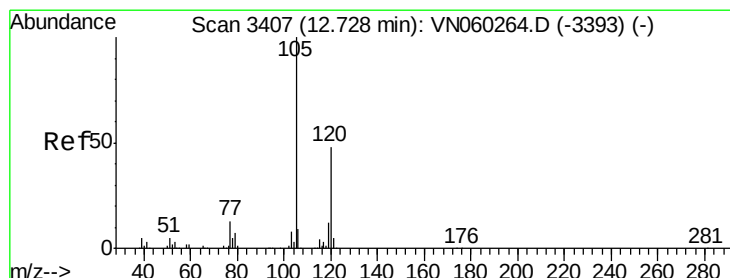


Abundance Ion 105.00 (104.70 to 105.70): VN060479.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN060479.D (-3314) (-)

12.73

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.46 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060479.D

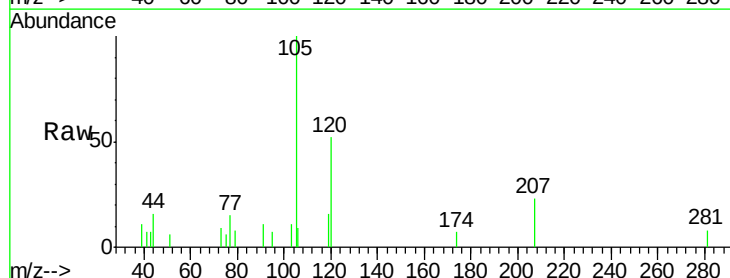
Acq: 12 Mar 2020 15:11

Tgt Ion: 105 Resp: 4010

Ion Ratio Lower Upper

105 100

120 48.3 24.1 72.4

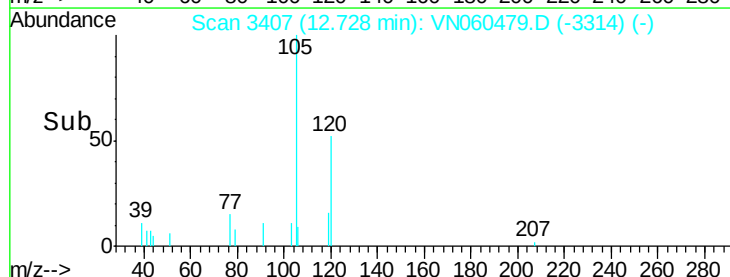


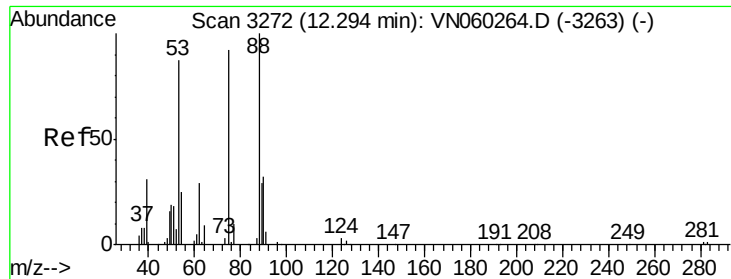
Abundance Ion 105.00 (104.70 to 105.70): VN060479.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN060479.D (-3314) (-)

12.73

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 68.29 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060479.D

Acq: 12 Mar 2020 15:11

Instrument :

MSVOA\_N

ClientSampleId :

PB127467ZHE#16

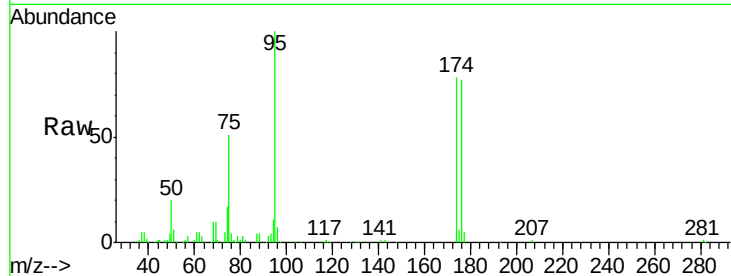
Tgt Ion: 75 Resp: 75221

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

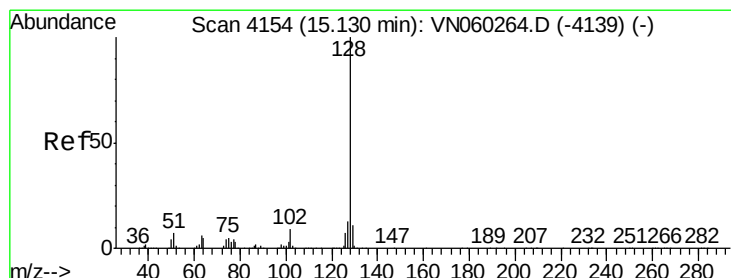
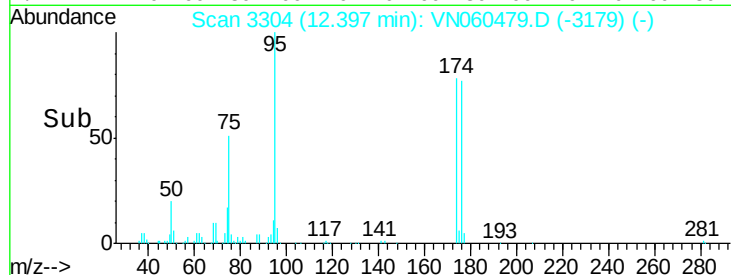
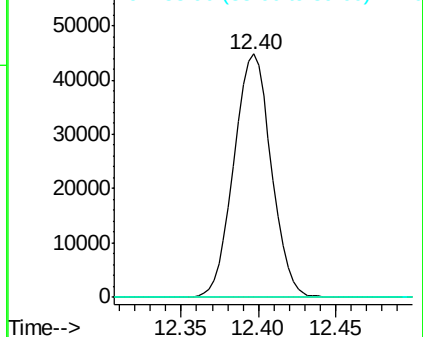
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060479.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060479.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060479.D (-3179) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN060479.D

Acq: 12 Mar 2020 15:11

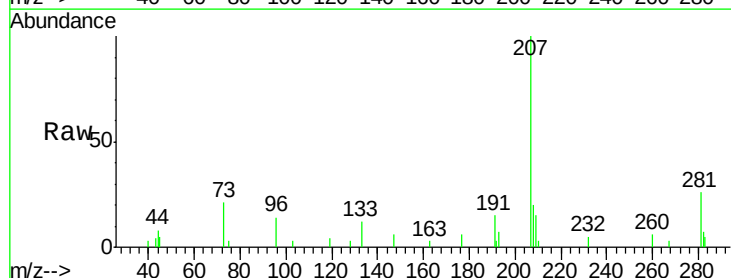
Tgt Ion: 128 Resp: 30

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN060479.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN060479.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN060479.D (-4060) (-)

