

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV050120\  
 Data File : VV015873.D  
 Acq On : 01 May 2020 21:08  
 Operator : SY/MD  
 Sample : L2432-05  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: May 02 00:13:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat May 02 00:06:27 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 136144   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 128998   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 66512    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.31   | 65    | 32525    | 4.57     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 91.40% |
| 7) Chloroethane-d5             | 1.58   | 69    | 30326    | 4.42     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 88.40% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 47023    | 3.02     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 60.40% |
| 20) 2-Butanone-d5              | 3.95   | 46    | 104029   | 45.54    | ug/L | -0.02  |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 91.08% |
| 24) Chloroform-d               | 4.38   | 84    | 68766    | 4.15     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 83.00% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 39114    | 4.22     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 84.40% |
| 32) Benzene-d6                 | 5.08   | 84    | 134044   | 4.35     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.00% |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 44452    | 4.52     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 90.40% |
| 41) Toluene-d8                 | 7.34   | 98    | 120513   | 4.12     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 82.40% |
| 43) trans-1,3-Dichloropropene- | 7.65   | 79    | 13746    | 3.61     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 72.20% |
| 46) 2-Hexanone-d5              | 8.11   | 63    | 83603    | 45.06    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 90.12% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 31335    | 4.28     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 85.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 47826    | 4.23     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 84.60% |

## Target Compounds

|                               |      |     |        |              | Ovalue |
|-------------------------------|------|-----|--------|--------------|--------|
| 8) Chloroethane               | 1.62 | 64  | 719    | 0.102 ug/L # | 53     |
| 12) 1,1-Dichloroethene        | 2.12 | 96  | 563    | 0.071 ug/L # | 1      |
| 14) Carbon disulfide          | 2.31 | 76  | 917    | 0.041 ug/L # | 75     |
| 25) Chloroform                | 4.41 | 83  | 2076   | 0.112 ug/L   | 93     |
| 33) Benzene                   | 5.13 | 78  | 43282  | 1.174 ug/L   | 100    |
| 34) Trichloroethene           | 6.05 | 95  | 10990  | 1.080 ug/L # | 10     |
| 35) Methylcyclohexane         | 6.10 | 83  | 10739  | 0.687 ug/L # | 16     |
| 37) 1,2-Dichloropropane       | 6.10 | 63  | 5840   | 0.623 ug/L # | 86     |
| 39) cis-1,3-Dichloropropene   | 7.02 | 75  | 1218   | 0.093 ug/L # | 76     |
| 42) Toluene                   | 7.41 | 91  | 57903  | 1.470 ug/L   | 99     |
| 44) trans-1,3-Dichloropropene | 7.65 | 75  | 748    | 0.068 ug/L   | 99     |
| 48) 2-Hexanone                | 8.11 | 43  | 12477  | 2.878 ug/L # | 71     |
| 52) Ethylbenzene              | 9.03 | 91  | 449058 | 9.853 ug/L   | 99     |
| 53) m,p-xylene                | 9.16 | 106 | 225546 | 13.512 ug/L  | 99     |
| 54) o-xylene                  | 9.57 | 106 | 142122 | 8.799 ug/L   | 94     |
| 55) Styrene                   | 9.57 | 104 | 15066  | 0.550 ug/L # | 1      |
| 56) Isopropylbenzene          | 9.95 | 105 | 31193  | 0.688 ug/L   | 98     |

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ALS Vial : 27 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: May 02 00:13:29 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat May 02 00:06:27 2020  
Response via : Initial Calibration

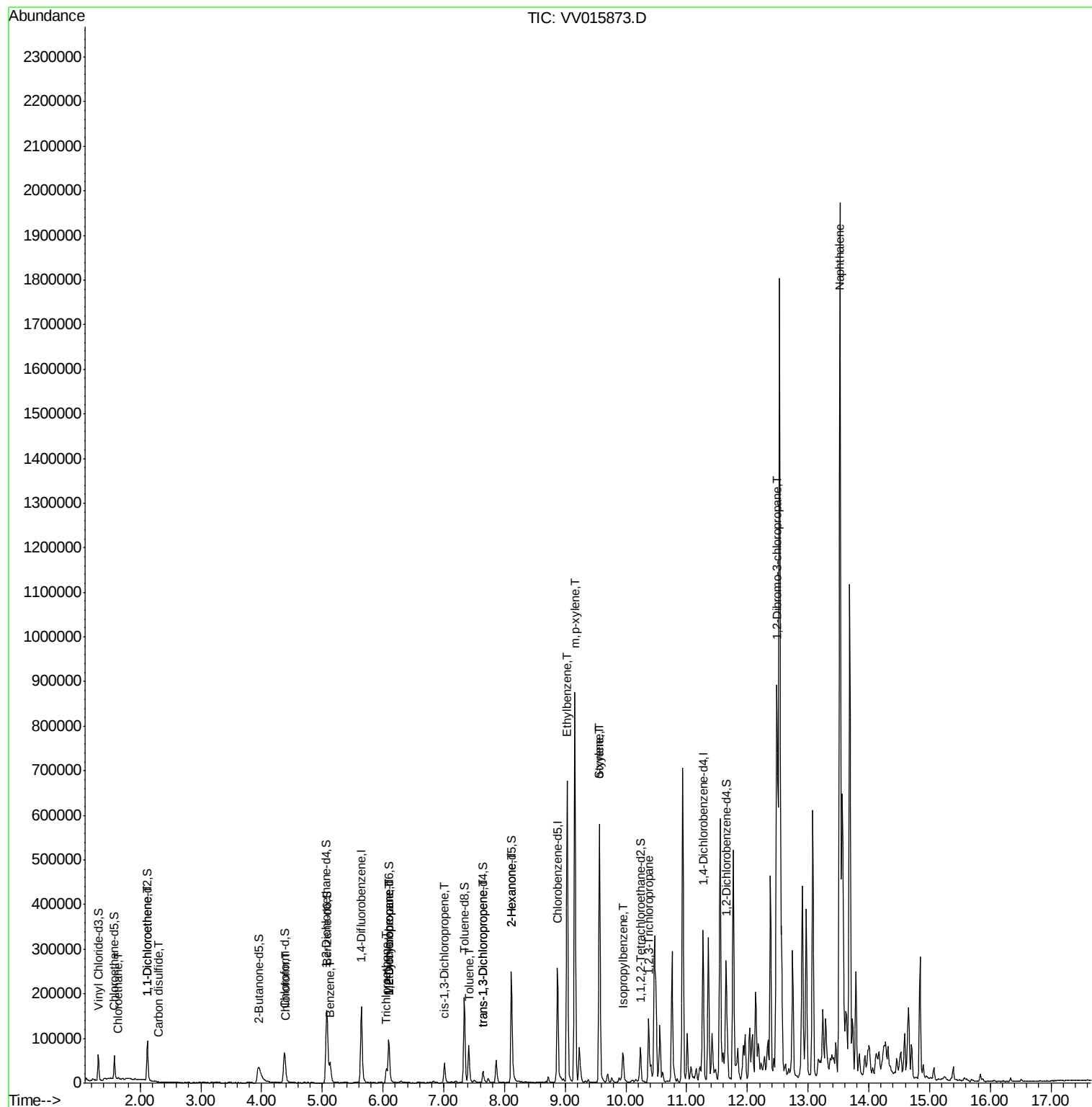
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 59) 1,2,3-Trichloropropane     | 10.38 | 75   | 815      | 0.136  | ug/L # | 1        |
| 66) 1,2-Dibromo-3-chloropropan | 12.48 | 75   | 22913    | 18.473 | ug/L # | 11       |
| 69) Naphthalene                | 13.52 | 128  | 1270038  | 49.563 | ug/L   | 98       |

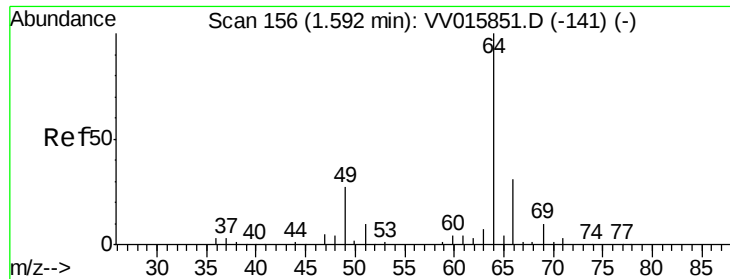
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV050120\  
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ClientSampleId :

Quant Time: May 02 00:13:29 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
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#8

Chloroethane

Concen: 0.102 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.03 min

Lab File: VV015873.D

Acq: 01 May 2020 21:08

Instrument :

MSVOA\_V

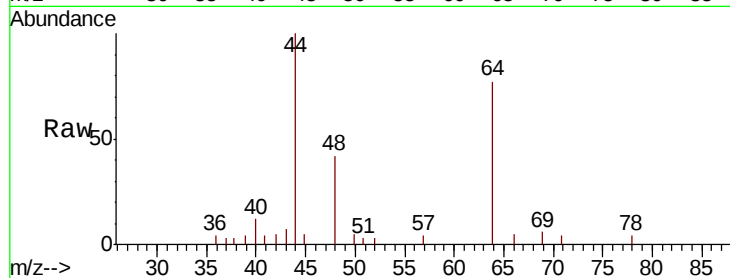
ClientSampleId :

Tot Ion: 64 Resp: 719

Ion Ratio Lower Upper

64 100

66 5.9 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

1.62

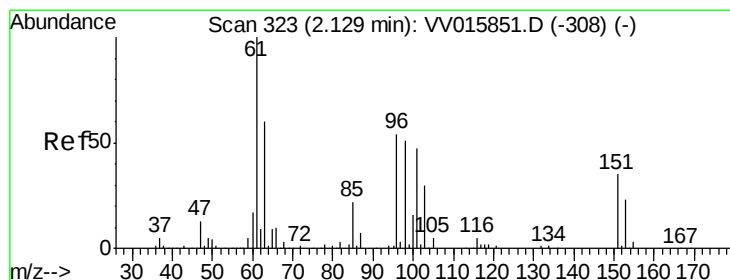
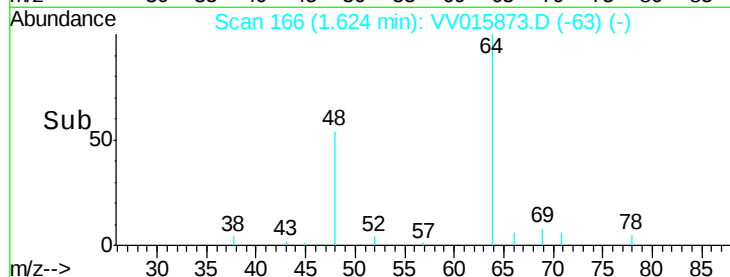
3000

2000

1000

0

Time-->



#12

1,1-Dichloroethene

Concen: 0.071 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV015873.D

Acq: 01 May 2020 21:08

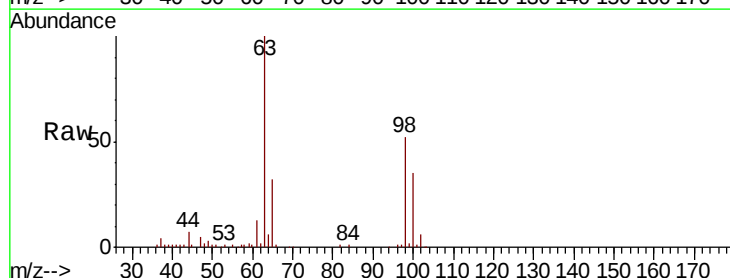
Tgt Ion: 96 Resp: 563

Ion Ratio Lower Upper

96 100

61 1088.1 130.1 241.7#

63 8495.6 91.4 169.8#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

40000

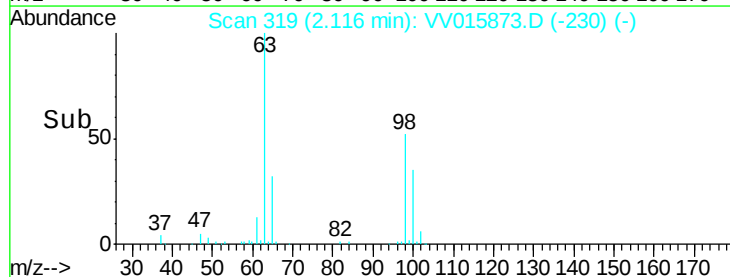
30000

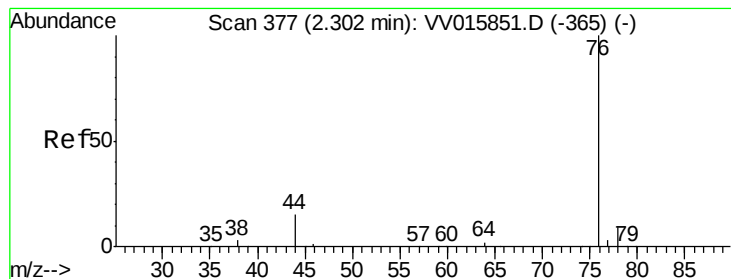
20000

10000

0

Time-->





#14

Carbon disulfide

Concen: 0.041 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.01 min

Lab File: VV015873.D

Acq: 01 May 2020 21:08

Instrument :

MSVOA\_V

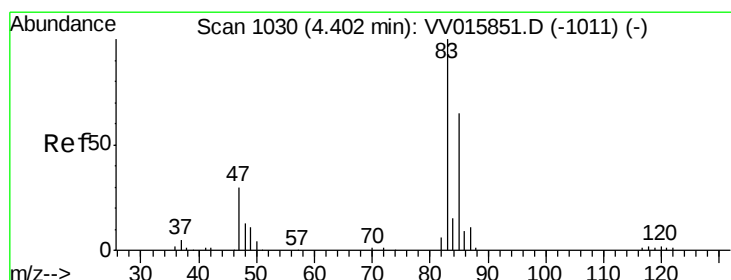
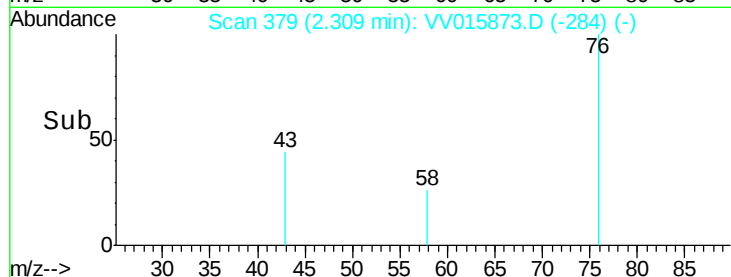
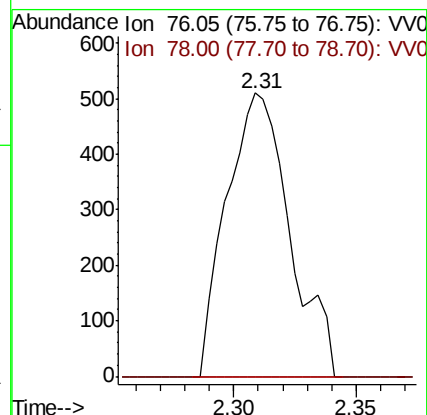
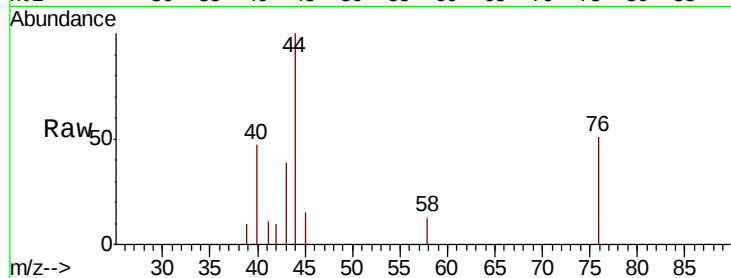
ClientSampleId :

Tot Ion: 76 Resp: 917

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



#25

Chloroform

Concen: 0.112 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VV015873.D

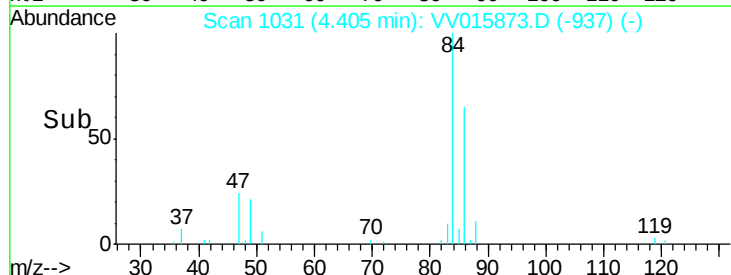
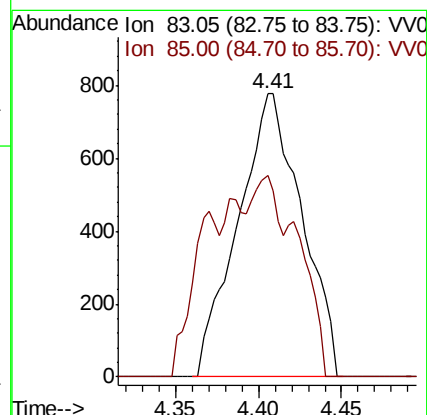
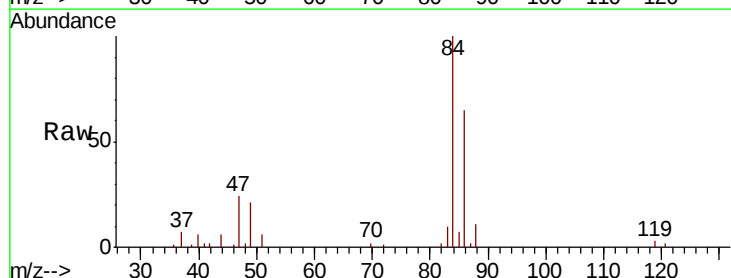
Acq: 01 May 2020 21:08

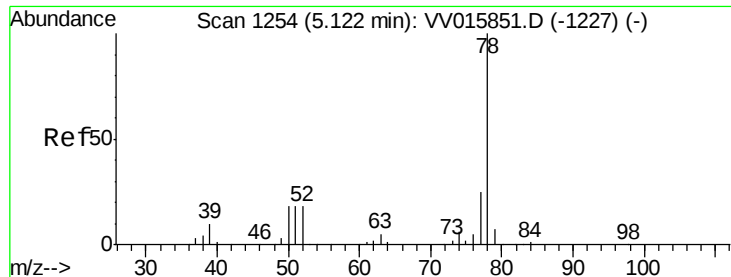
Tgt Ion: 83 Resp: 2076

Ion Ratio Lower Upper

83 100

85 71.3 46.1 85.5





#33

Benzene

Concen: 1.174 ug/L

RT: 5.13 min Scan# 1256

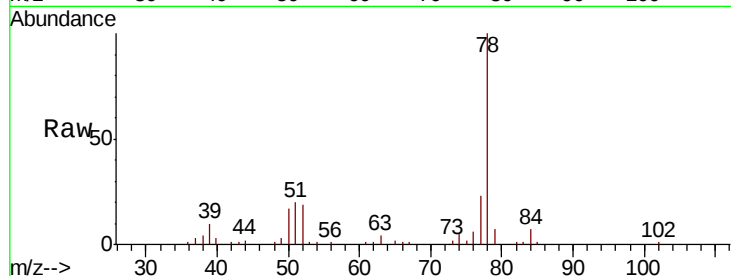
Delta R.T. 0.01 min

Lab File: VV015873.D

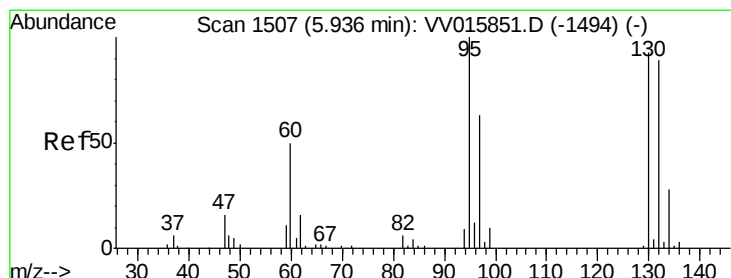
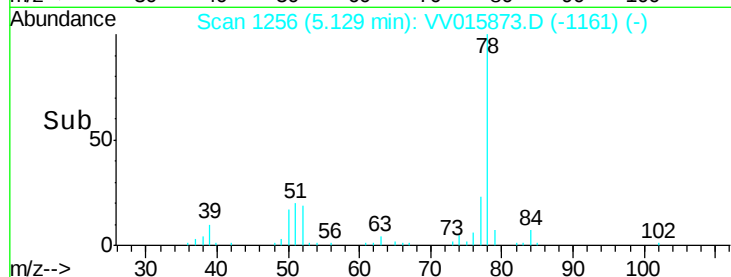
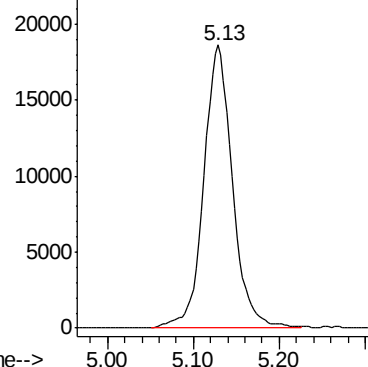
Acq: 01 May 2020 21:08

Instrument :  
MSVOA\_V  
ClientSampled :

Tgt Ion: 78 Resp: 43282



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 1.080 ug/L

RT: 6.05 min Scan# 1543

Delta R.T. 0.12 min

Lab File: VV015873.D

Acq: 01 May 2020 21:08

Tgt Ion: 95 Resp: 10990

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 95  | 100   |       |        |
| 97  | 7.8   | 44.7  | 82.9#  |
| 132 | 0.0   | 65.2  | 121.0# |
| 130 | 0.0   | 65.0  | 120.6# |

95 100

97 7.8 44.7 82.9#

132 0.0 65.2 121.0#

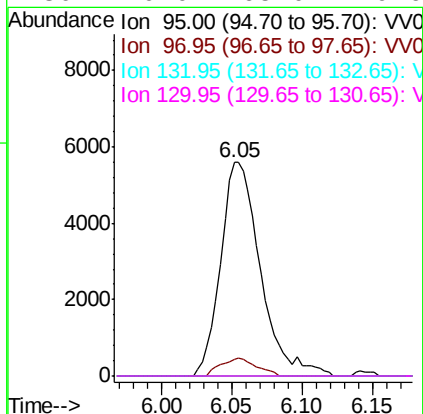
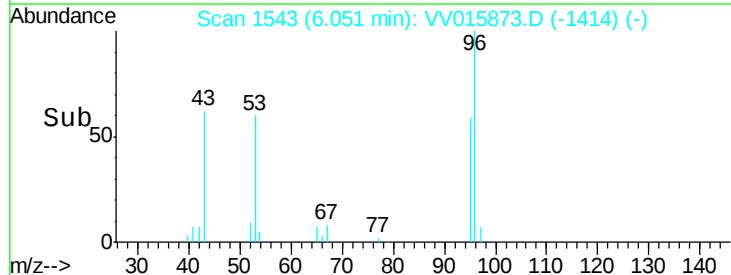
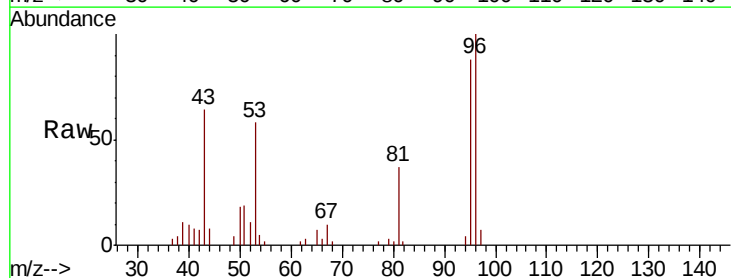
130 0.0 65.0 120.6#

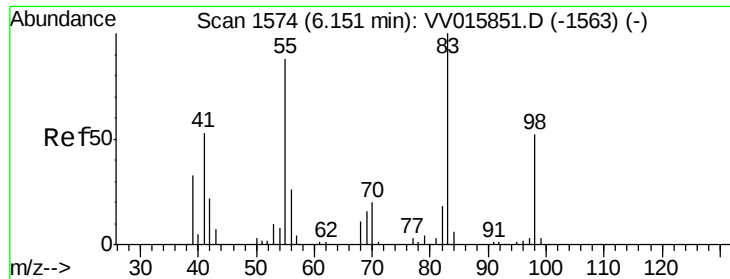
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

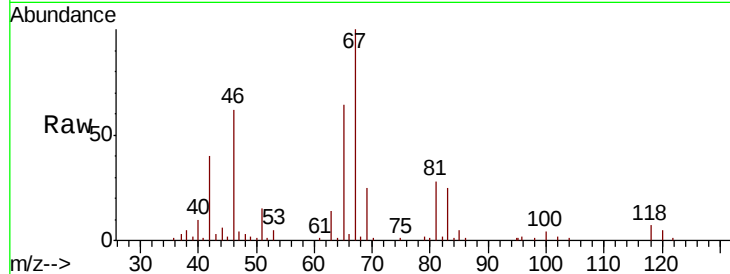




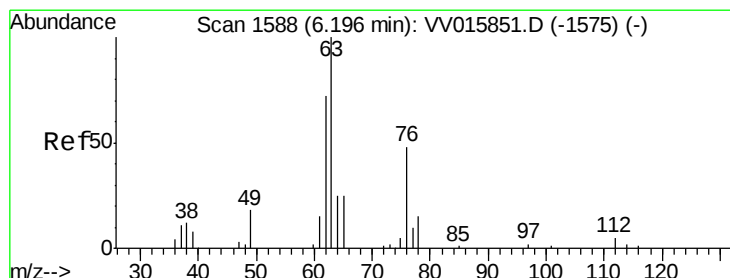
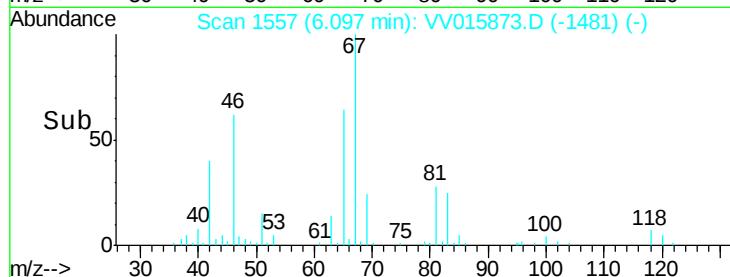
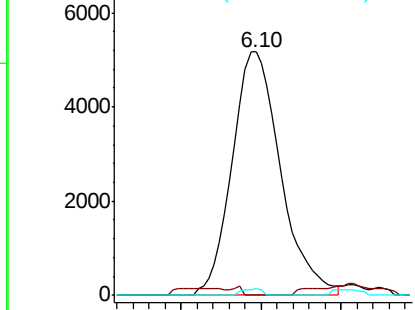
#35  
Methvlcvclohexane  
Concen: 0.687 ug/L  
RT: 6.10 min Scan# 1557  
Delta R.T. -0.05 min  
Lab File: VV015873.D  
Acq: 01 May 2020 21:08

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 83 Resp: 10739  
Ion Ratio Lower Upper  
83 100  
55 0.8 66.6 99.8#  
98 1.1 39.5 59.3#

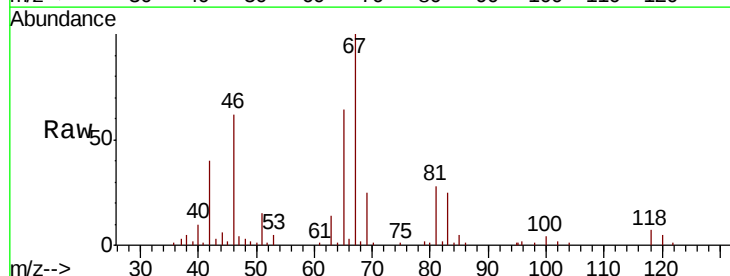


Abundance Ion 83.15 (82.85 to 83.85): VV0  
Ion 55.10 (54.80 to 55.80): VV0  
Ion 98.15 (97.85 to 98.85): VV0

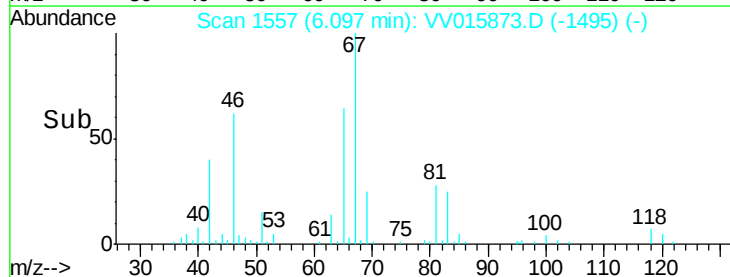
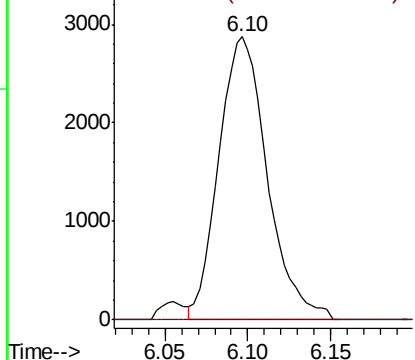


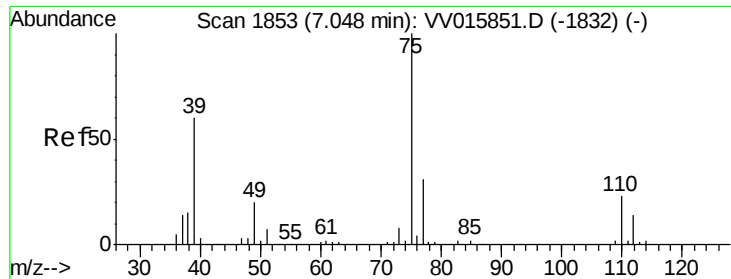
#37  
1,2-Dichloropropane  
Concen: 0.623 ug/L  
RT: 6.10 min Scan# 1557  
Delta R.T. -0.10 min  
Lab File: VV015873.D  
Acq: 01 May 2020 21:08

Tgt Ion: 63 Resp: 5840  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.6 5.4#



Abundance Ion 63.10 (62.80 to 63.80): VV0  
Ion 112.10 (111.80 to 112.80): V

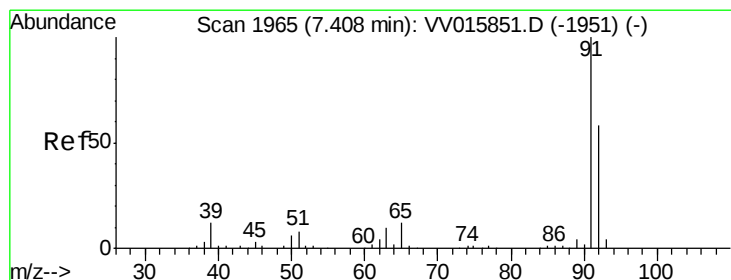
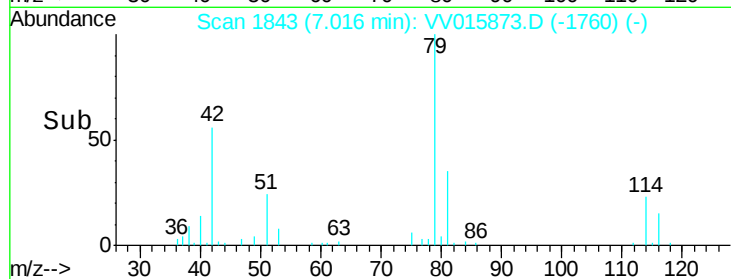
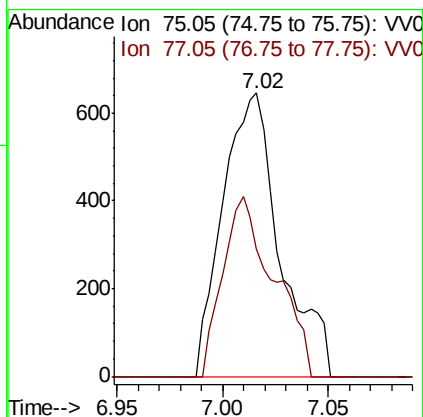
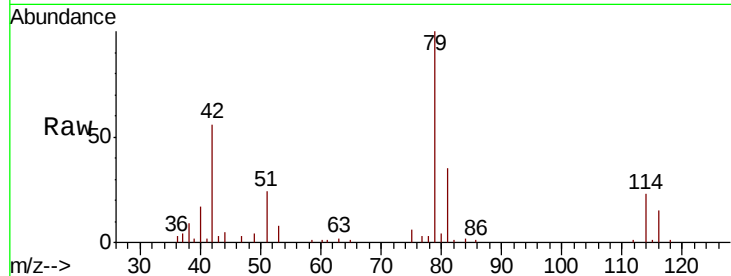




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.093 ug/L  
 RT: 7.02 min Scan# 1843  
 Delta R.T. -0.03 min  
 Lab File: VV015873.D  
 Acq: 01 May 2020 21:08

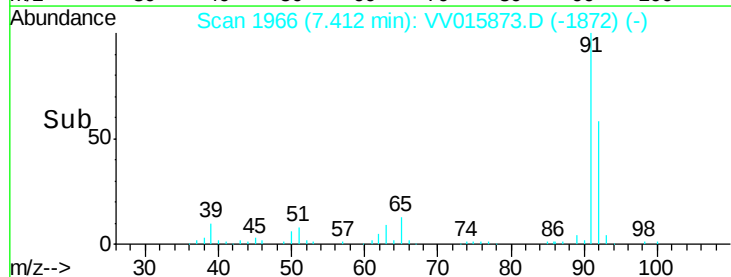
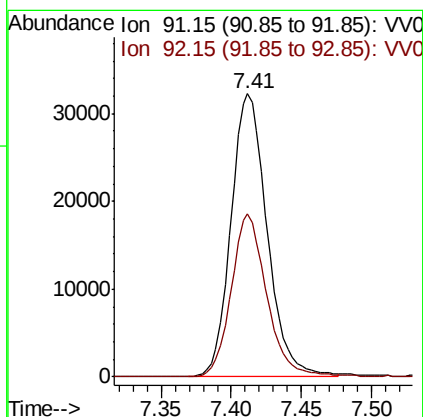
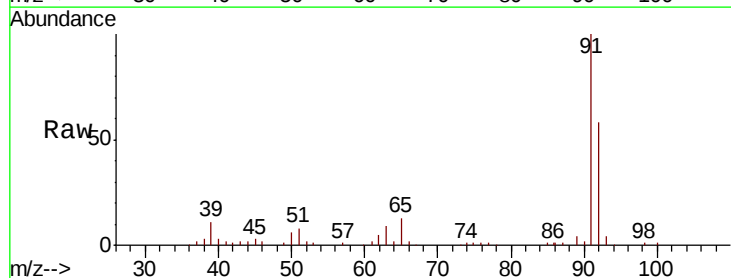
Instrument :  
 MSVOA\_V  
 ClientSampleId :

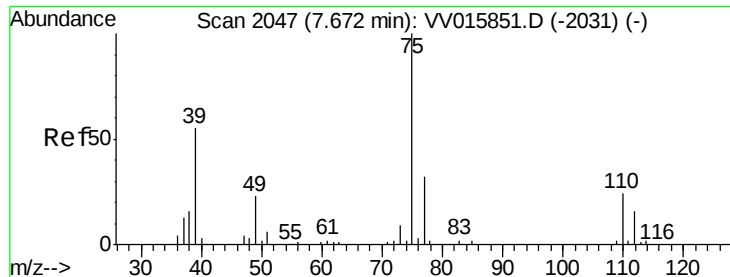
Tot Ion: 75 Resp: 1218  
 Ion Ratio Lower Upper  
 75 100  
 77 45.0 22.3 41.5#



#42  
 Toluene  
 Concen: 1.470 ug/L  
 RT: 7.41 min Scan# 1966  
 Delta R.T. 0.00 min  
 Lab File: VV015873.D  
 Acq: 01 May 2020 21:08

Tgt Ion: 91 Resp: 57903  
 Ion Ratio Lower Upper  
 91 100  
 92 57.6 40.7 75.7





#44

trans-1,3-Dichloropropene

Concen: 0.068 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.03 min

Lab File: VV015873.D

Acq: 01 May 2020 21:08

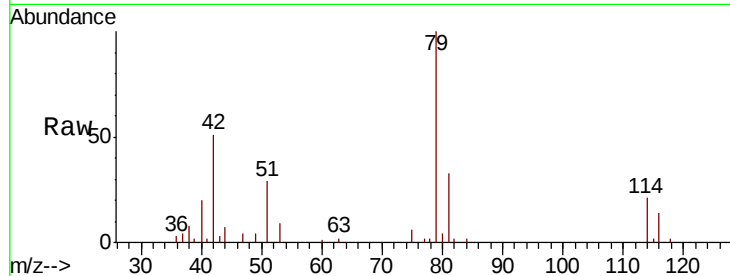
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion: 75 Resp: 748

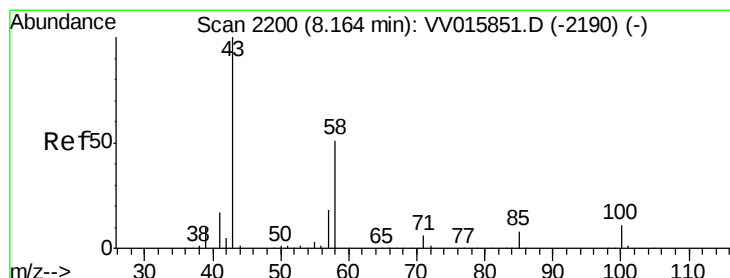
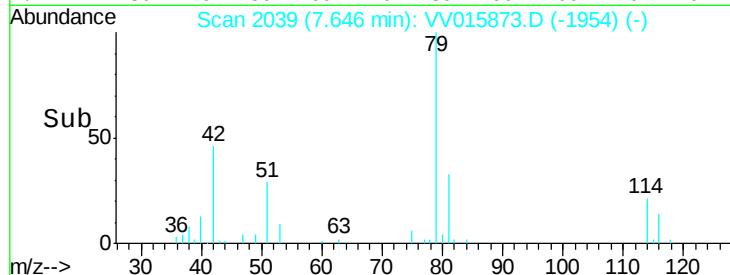
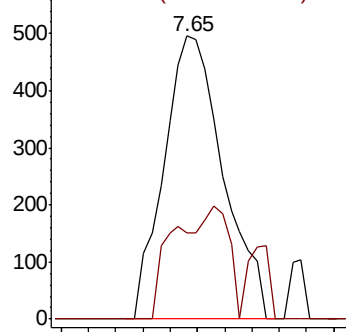
Ion Ratio Lower Upper

75 100

77 30.6 21.8 40.6



Abundance Ion 75.05 (74.75 to 75.75): VV0  
Ion 77.05 (76.75 to 77.75): VV0



#48

2-Hexanone

Concen: 2.878 ug/L

RT: 8.11 min Scan# 2184

Delta R.T. -0.05 min

Lab File: VV015873.D

Acq: 01 May 2020 21:08

Tgt Ion: 43 Resp: 12477

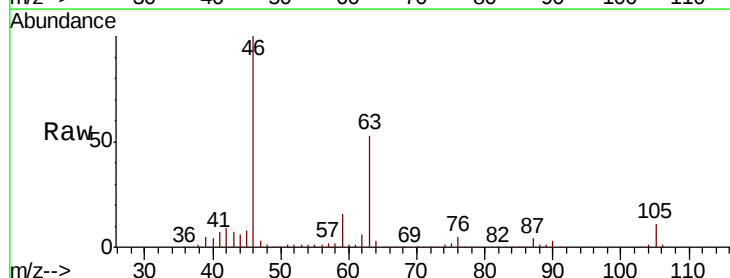
Ion Ratio Lower Upper

43 100

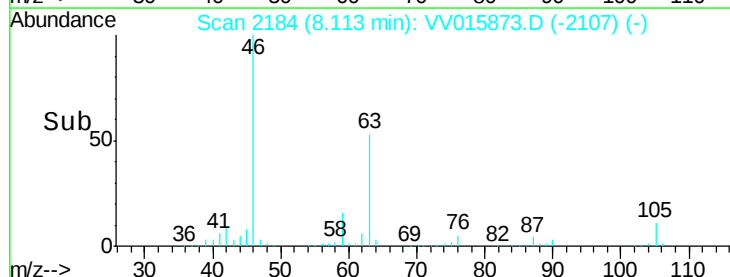
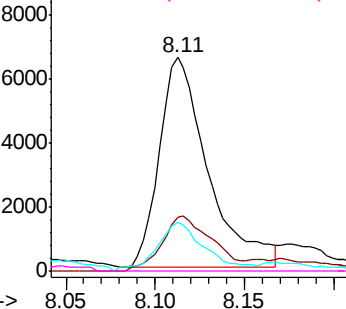
58 26.3 41.1 61.7#

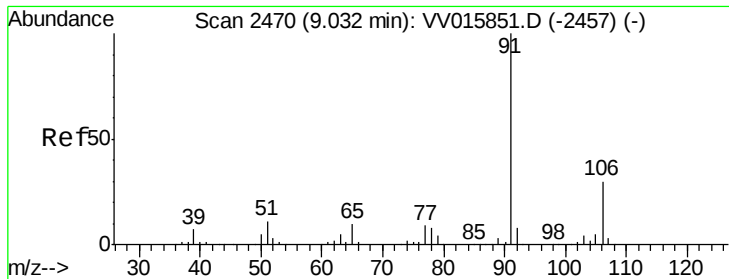
57 22.7 15.0 22.4#

100 0.0 9.0 13.4#



Abundance Ion 43.05 (42.75 to 43.75): VV0  
Ion 58.05 (57.75 to 58.75): VV0  
Ion 57.20 (56.90 to 57.90): VV0  
Ion 100.15 (99.85 to 100.85): VV0





#52

Ethylbenzene

Concen: 9.853 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV015873.D

Acq: 01 May 2020 21:08

Instrument :

MSVOA\_V

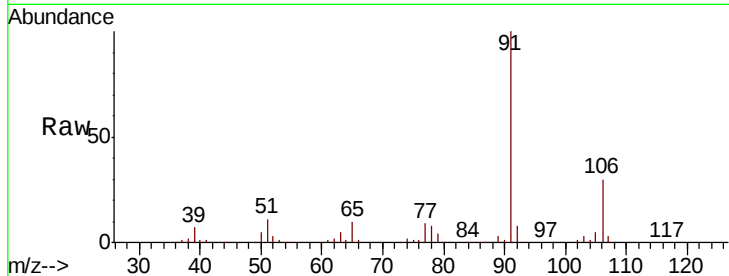
ClientSampled :

Tot Ion: 91 Resp: 449058

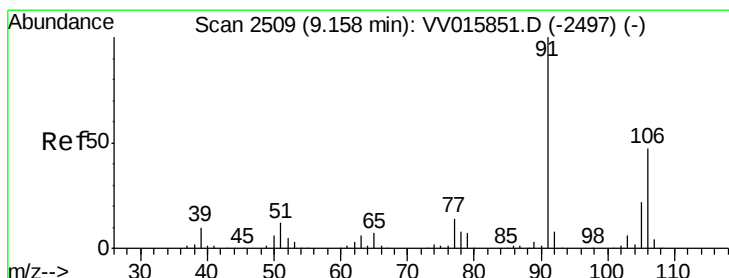
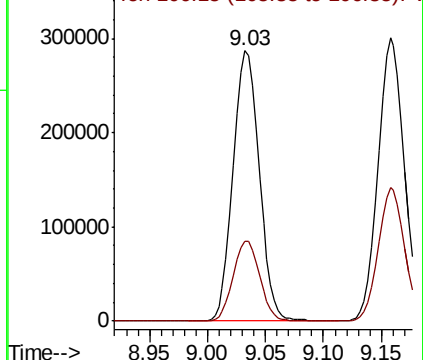
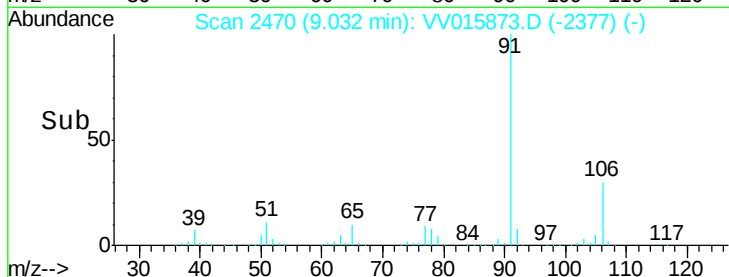
Ion Ratio Lower Upper

91 100

106 29.8 21.3 39.5



Abundance Ion 91.15 (90.85 to 91.85): VV015873.D (-2377) (-)



#53

m,p-xylene

Concen: 13.512 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV015873.D

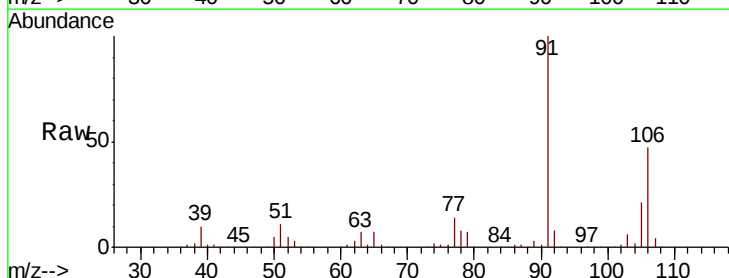
Acq: 01 May 2020 21:08

Tgt Ion: 106 Resp: 225546

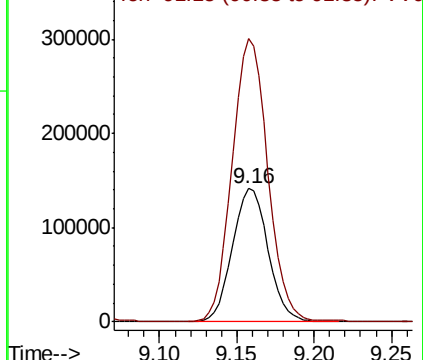
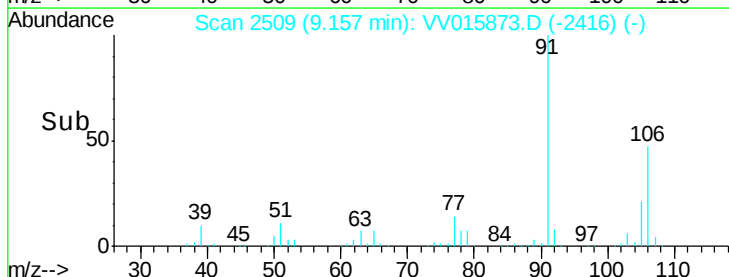
Ion Ratio Lower Upper

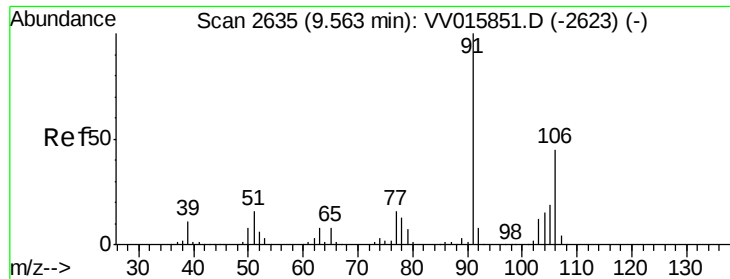
106 100

91 212.8 147.8 274.4



Abundance Ion 106.15 (105.85 to 106.85): VV015873.D (-2416) (-)





#54

o-xylene

Concen: 8.799 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV015873.D

Acq: 01 May 2020 21:08

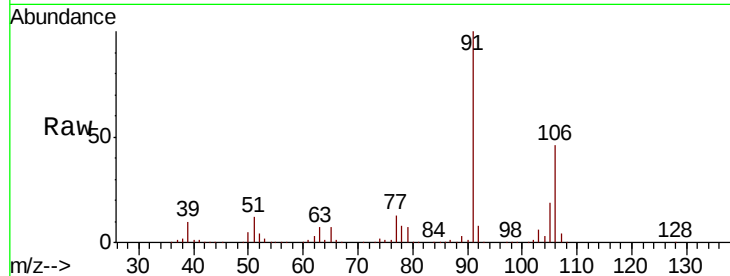
Instrument :  
MSVOA\_V  
ClientSampled :

Tot Ion:106 Resp: 142122

Ion Ratio Lower Upper

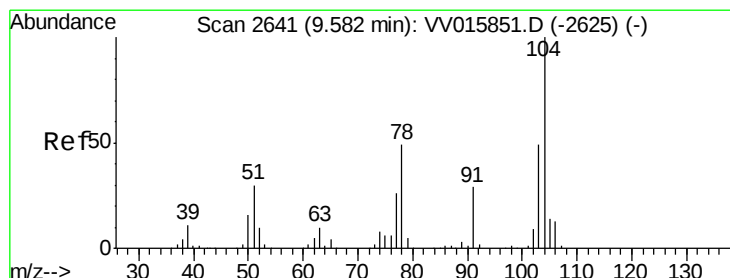
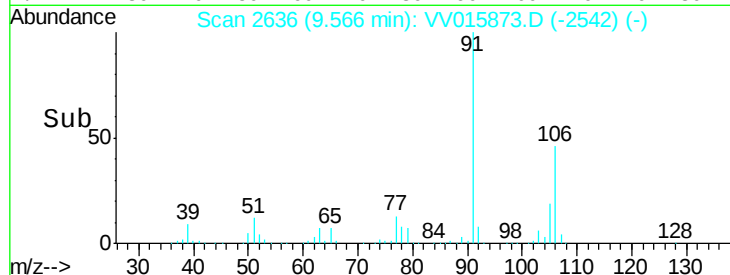
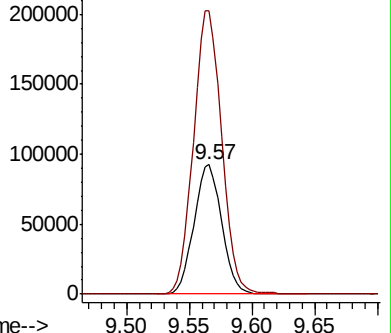
106 100

91 219.1 159.8 296.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 0.550 ug/L

RT: 9.57 min Scan# 2638

Delta R.T. -0.01 min

Lab File: VV015873.D

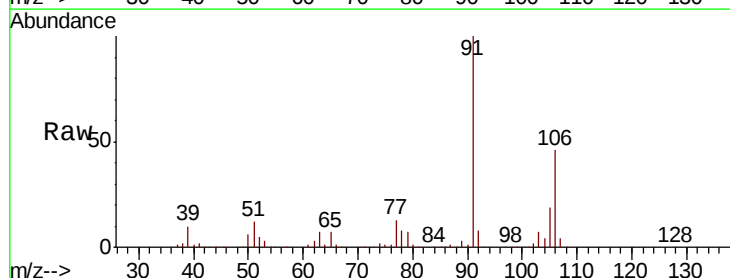
Acq: 01 May 2020 21:08

Tgt Ion:104 Resp: 15066

Ion Ratio Lower Upper

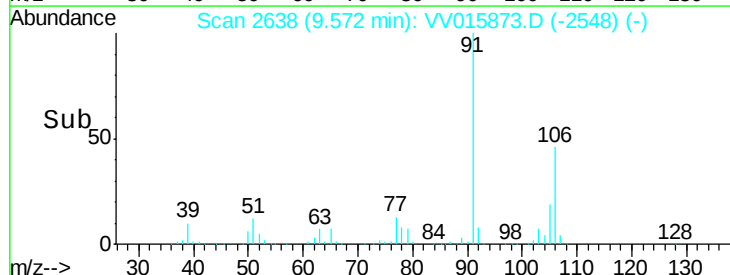
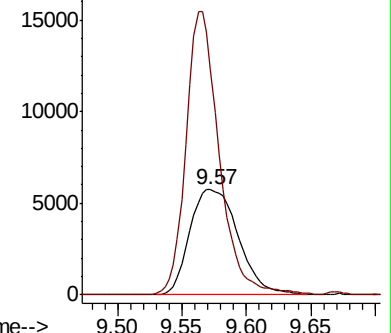
104 100

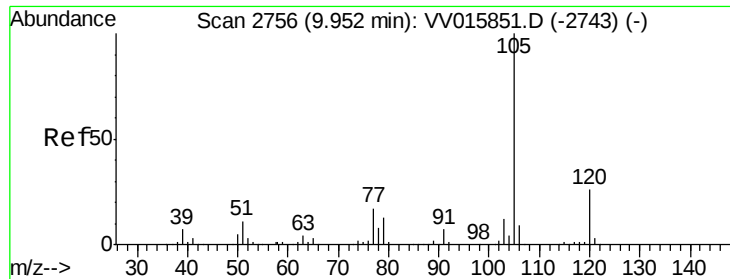
78 215.7 34.5 64.1#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 0.688 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV015873.D

Acq: 01 May 2020 21:08

Instrument :

MSVOA\_V

ClientSampled :

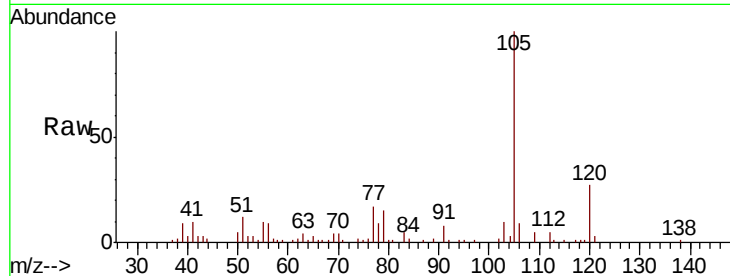
Tot Ion:105 Resp: 31193

Ion Ratio Lower Upper

105 100

120 25.8 20.7 31.1

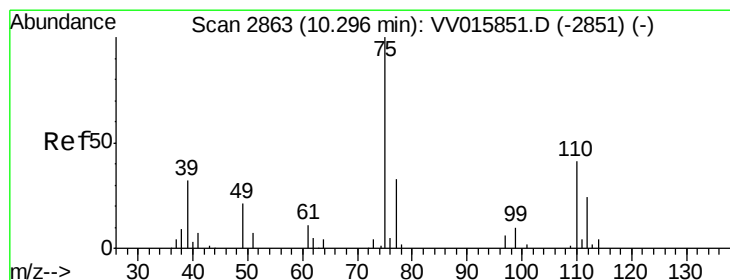
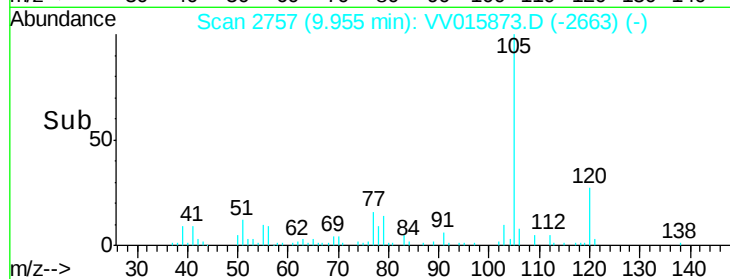
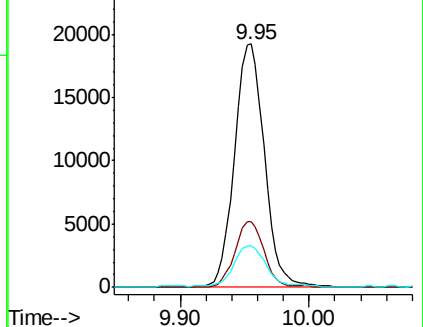
77 19.5 13.9 20.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#59

1,2,3-Trichloropropane

Concen: 0.136 ug/L

RT: 10.38 min Scan# 2888

Delta R.T. 0.08 min

Lab File: VV015873.D

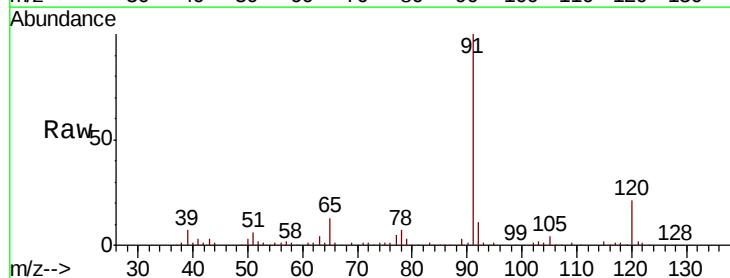
Acq: 01 May 2020 21:08

Tgt Ion: 75 Resp: 815

Ion Ratio Lower Upper

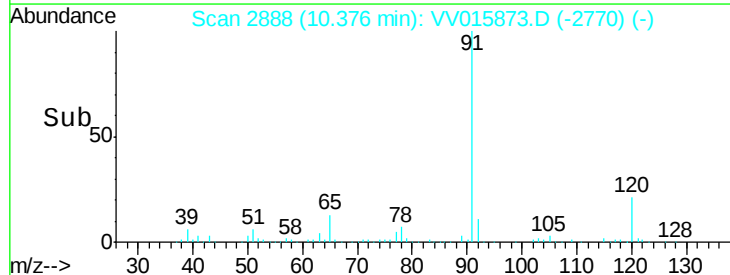
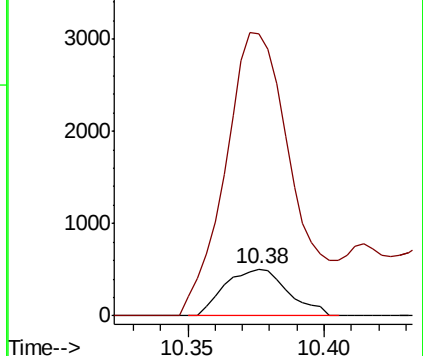
75 100

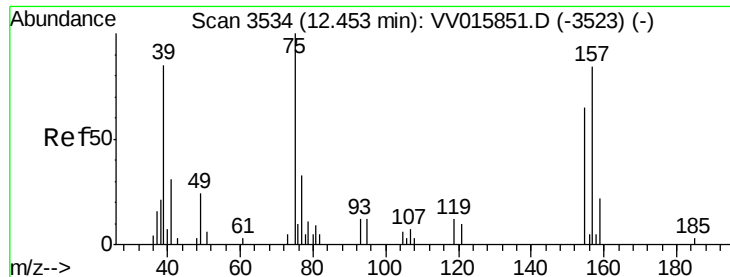
77 647.2 26.0 39.0#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#66

1,2-Dibromo-3-chloropropane

Concen: 18.473 ug/L

RT: 12.48 min Scan# 3543

Delta R.T. 0.03 min

Lab File: VV015873.D

Acq: 01 May 2020 21:08

Instrument :

MSVOA\_V

ClientSampleId :

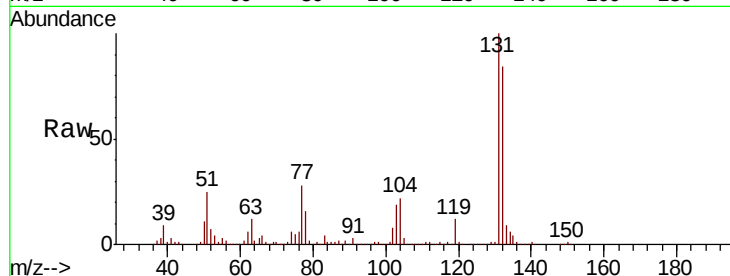
Tot Ion: 75 Resp: 22913

Ion Ratio Lower Upper

75 100

155 0.0 51.0 76.4#

157 0.0 70.6 106.0#

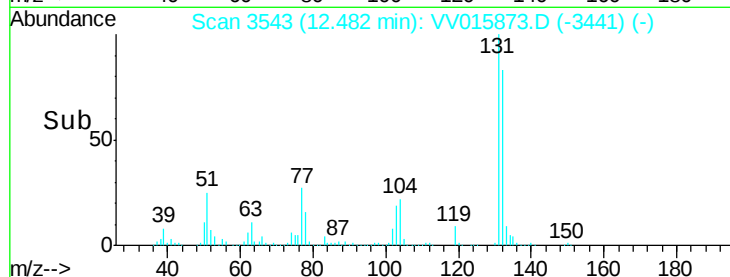


Abundance Ion 75.05 (74.75 to 75.75): VV015851.D (-3523) (-)

Ion 154.95 (154.65 to 155.65): VV015851.D (-3523) (-)

Ion 156.90 (156.60 to 157.60): VV015851.D (-3523) (-)

Time-->

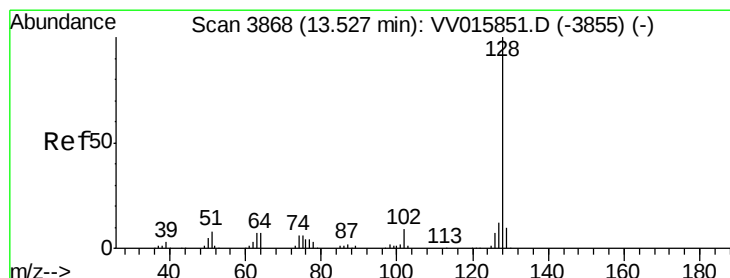


Abundance Ion 75.05 (74.75 to 75.75): VV015873.D (-3441) (-)

Ion 154.95 (154.65 to 155.65): VV015873.D (-3441) (-)

Ion 156.90 (156.60 to 157.60): VV015873.D (-3441) (-)

Time-->



#69

Naphthalene

Concen: 49.563 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV015873.D

Acq: 01 May 2020 21:08

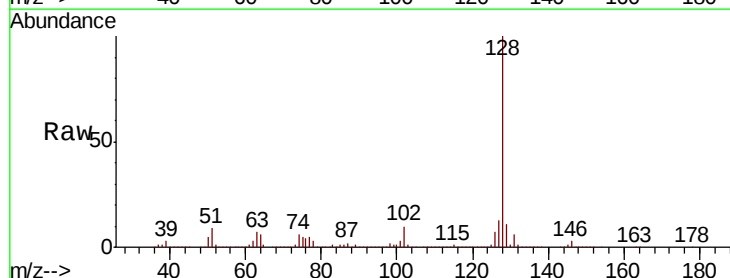
Tgt Ion: 128 Resp: 1270038

Ion Ratio Lower Upper

128 100

129 11.5 8.4 12.6

127 13.3 10.2 15.4

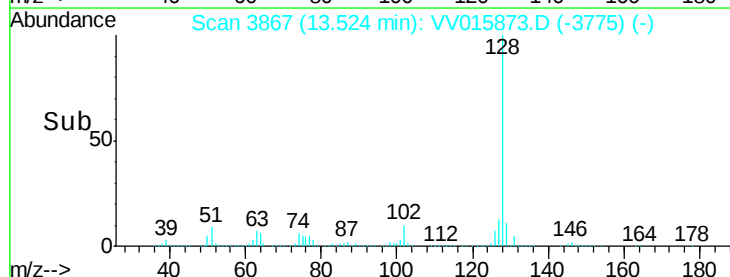


Abundance Ion 128.00 (127.70 to 128.70): VV015851.D (-3855) (-)

Ion 129.00 (128.70 to 129.70): VV015851.D (-3855) (-)

Ion 127.00 (126.70 to 127.70): VV015851.D (-3855) (-)

Time-->



Abundance Ion 128.00 (127.70 to 128.70): VV015873.D (-3775) (-)

Ion 129.00 (128.70 to 129.70): VV015873.D (-3775) (-)

Ion 127.00 (126.70 to 127.70): VV015873.D (-3775) (-)

Time-->